Mechanical Services handover documentation

The Patterson

3-15 Archer St

Toowong

QLD

DESCRIPTION
Company Information
Description of the Works
Operation & Maintenance Procedures
Manufacturers Literature
Warranties
Certification
As Built Drawings

Office: 2/30 Access Crescent, Coolum Beach, QLD 4573
Postal: PO Box 6017, Maroochydore, Qld 4558
Email: admin@portcityairconditioning.com.au
Phone: 1300 PORT CITY / 07 4972 3355 **Fax:** 07 4972 1791

Website: http://www.portcitygroup.com.au/

ABN: 99 717 077 615 / QBCC: 1184073 / ARCTICK: AU12994 / ELEC: 73329

SECTION 1

Company Information

Port City Air is pleased to present this handover manual on completion of

The Patterson

3-15 Archer St

Toowong

PCA Contact Details:

Office: 2/30 Access Crescent, Coolum Beach, QLD 4573
Postal: PO Box 6017, Maroochydore, Qld 4558
Email: admin@portcityairconditioning.com.au
Phone: 0754 434 095
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ABN: 99 717 077 615 / QBCC: 1184073 / ARCTICK: AU12994 / ELEC: 73329

Supplier Contact Details:

Daikin Air Conditioning General Enquiries : 1300 368 300
Fantech Fans : (07) 3299 9888

SECTION 2

Description of works

Supply and Installation of Car Park, Bin store, Fire Pump Room supply and Exhaust air system from B2 to Level 3

Supply and installation of Daikin Air Conditioning and Ventilation systems from Wellness Centre, Lobby, Wine Room & all apartments from Level 4 to 15

A/C EQUIPMENT SCHEDULE

REF. NO.	MAKE	MODEL	TYPE	TOTAL COOLING	SENSIBLE COOLING	HEATING CAPACITY	DB/WB	S/A	PHASE	PIPE	SOUND	MCA	DIMENSIONS	WEIGHT	NOTE
				Kw		Kw	°C	L/s	ph / V / Hz	mm	dB(A)	A	HxWxD	Kg	
CU-A-L4 TO L8 & L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.8(-18.8%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L8 & L11
FCU-401.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.7	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L8 & L11
FCU-401.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L8 & L11
FCU-401.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L8 & L11
CU-A-L9	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.6 (-20.7%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L9
FCU-901.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.6	4.6	7.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-901.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.2	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-901.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-B1-L4 TO L8 & L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10 (-17.6%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L8 & L11
FCU-402.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.8	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L8 & L11
FCU-402.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L8 & L11
FCU-402.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L8 & L11
CU-B1-L9	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.7 (-19.6%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L9
FCU-902.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.7	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-902.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.3	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-902.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-B2-L4 TO L6	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.9 (-18%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L6
FCU-403.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.8	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L6
FCU-403.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L6
FCU-403.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L6
CU-B2-L7	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.6 (-18%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L7
FCU-703.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.6	4.6	7.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L7
FCU-703.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.2	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L7
FCU-703.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
CU-B2-L8	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.9 (-18.5%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L8
FCU-803.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.7	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L8
FCU-803.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L8
FCU-803.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L8
CU-B2-L9	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.7 (-18%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L9
FCU-903.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.6	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-903.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.3	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-903.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-B2-L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.3 (-18%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L11
FCU-1103.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	6	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L11
FCU-1103.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L11
FCU-1103.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11

A/C EQUIPMENT SCHEDULE

CU-C-L4 & L6 & L8	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.5(-26.7%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 & L6 & L8
FCU-404.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.1	4.5	6.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 & L6 & L8
FCU-404.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.1	2	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 & L6 & L8
FCU-404.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 & L6 & L8
FCU-404.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 & L6 & L8
CU-C-L5	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.5(-26.7%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L5
FCU-504.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.2	4.5	6.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L5
FCU-504.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.1	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L5
FCU-504.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L5
FCU-504.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L5
CU-C-L7	DAIKIN	RSUYQ5AVMA	CONDENSING UNIT	11 (-22.9%)	-	15.3	-	-	240V 1ph	9.5x15.9	-	27	870x1100x460	98	L7
FCU-704.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.4	4.3	7.5	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L7
FCU-704.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.1	1.7	3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L7
FCU-704.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.4	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
FCU-704.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.4	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
CU-C-L9	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.4 (-27.2%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L9
FCU-904.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5	4.4	6.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-904.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2	1.9	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-904.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.6	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
FCU-904.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.6	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-C-L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	-	12.7	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L11
FCU-1104.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.5	4.6	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L11
FCU-1104.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.2	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L11
FCU-1104.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
FCU-1104.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
CU-D-L4 TO 6	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.4 (-27%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L6
FCU-405.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.1	4.5	6.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L6
FCU-405.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2	2	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L6
FCU-405.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L6
FCU-405.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L6
CU-D-L7	DAIKIN	RSUYQ5AVMA	CONDENSING UNIT	10.9 (-23.9%)	-	15.3	-	-	240V 1ph	9.5x15.9	-	27	870x1100x460	98	L7
FCU-705.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.3	4.3	7.5	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L7
FCU-705.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.1	1.7	3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L7
FCU-705.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.3	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
FCU-705.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.3	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
CU-D-L8 & L9	DAIKIN	RSUYQ5AVMA	CONDENSING UNIT	12.9 (-9.4%)	-	13	-	-	240V 1ph	9.5x15.9	-	27	870x1100x460	98	L8 & L9
FCU-804.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.4	4.3	7.5	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L8 & L9
FCU-804.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.1	1.7	3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L8 & L9
FCU-804.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.4	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L8 & L9
FCU-804.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.4	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L8 & L9
CU-D-L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	12.9 (-9.4%)	-	13	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L11
FCU-1104.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.4	4.6	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L11
FCU-1104.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.2	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L11
FCU-1104.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
FCU-1104.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11

CU-E-L4 TO L5	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.6 (-21%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L5
FCU-406.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.6	4.6	7.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L5
FCU-406.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.2	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L5
FCU-406.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L5
CU-E-L6	DAIKIN	RSUYQ4AVMA	CONDENSING UNIT	9.1(-25.2%)	-	12	-	-	240V 1ph	9.5x15.9	-	20	870x1100x460	95	L6
FCU-606.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.3	4.3	7	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L6
FCU-606.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.1	1.7	2.8	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L6
FCU-606.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.3	2.2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L6
CU-E-L7 & L8	DAIKIN	RSUYQ4AVMA	CONDENSING UNIT	8.8 (-27.2%)	-	11.9	-	-	240V 1ph	9.5x15.9	-	16.5	870x1100x460	95	L7 & L8
FCU-706.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.1	4.2	6.9	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L7 & L8
FCU-706.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2	1.6	2.8	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L7 & L8
FCU-706.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	2.2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7 & L8
CU-E-L9	DAIKIN	RSUYQ4AVMA	CONDENSING UNIT	8.9 (-0.6%)	-	12	-	-	240V 1ph	9.5x15.9	-	16.5	870x1100x460	95	L9
FCU-906.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.2	4.3	7	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-906.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.1	1.7	2.8	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-906.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.3	2.2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-E-L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.1 (-16.8%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L11
FCU-1106.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.9	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L11
FCU-1106.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L11
FCU-1106.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
CU-1001-L10	DAIKIN	RXYMQ5BVM	CONDENSING UNIT	12.6 (-23.5%)	-	14.7	-	-	240V 1ph	9.5x15.9	-	27	990x940x320	78	LEVEL 10
FCU-1001.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.4	4.5	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1001.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.1	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1001.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
FCU-1001.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
FCU-1001.5	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
CU-B2-L10	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	12.0 (-0.6%)	-	12.8	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 10
FCU-1003.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	6.1	4.8	7.3	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1003.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1003.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.8	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
CU-C-L10	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.3 (-21.1%)	-	12.7	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 10
FCU-1004.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.5	4.6	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1004.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.2	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1004.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
FCU-1004.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.8	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
CU-D-L10	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.1 (-22.4%)	-	12.6	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 10
FCU-1005.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.4	4.6	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1005.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.2	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1005.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
FCU-1005.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
CU-E-L10	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.1 (-16.4%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 10
FCU-1006.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.9	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1006.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1006.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10

A/C EQUIPMENT SCHEDULE

CU-A-L12	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.1 (-16.4%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 12
FCU-1201.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.9	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 12
FCU-1201.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1201.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
CU-B1-L12	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.2 (-15.4%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 12
FCU-1202.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.9	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 12
FCU-1202.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1202.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
CU-B2-L12	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.6 (-12.4%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 12
FCU-1203.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	6.2	4.9	7.3	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 12
FCU-1203.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.5	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1203.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	2	1.8	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
CU-1204-L12	DAIKIN	RSUYQ6AVMA	CONDENSING UNIT	15.4	-	17.8	-	-	400V 3ph	9.5x19.1	-	18.5	870x1100x460	98	LEVEL 12
FCU-1204.1	DAIKIN	FXDQ40TV13	DUCTED UNIT	3.2	2.8	5.8	27.0 / 19.0	210	220V 1ph	6.4x12.7	29-34	1.9	900×200×450	21	LEVEL 12
FCU-1204.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2	1.6	2.3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1204.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
FCU-1204.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
FCU-1204.5	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
FCU-1204.6	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
FCU-1204.7	DAIKIN	FXDQ50TV13	DUCTED UNIT	4	3.4	4.6	27.0 / 19.0	250	220V 1ph	6.4x12.7	30-35	2.1	900×200×450	21	LEVEL 12
CU-E-L12	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.3 (-14.7%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 12
FCU-1206.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	6	4.8	7.3	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 12
FCU-1206.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1206.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
CU-1301-L13	DAIKIN	RXYMQ5BVM	CONDENSING UNIT	12.5 (-24.5%)	-	14.7	-	-	240V 1ph	9.5x15.9	-	27	990x940x320	78	LEVEL 13
FCU-1301.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.3	4.5	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 13
FCU-1301.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.1	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 13
FCU-1301.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1301.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1301.5	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
CU-B2-L13	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.4 (-14.1%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 13
FCU-1303.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	6	4.8	7.3	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 13
FCU-1303.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 13
FCU-1303.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
CU-1304-L13	DAIKIN	RSUYQ6AVMA	CONDENSING UNIT	15.3	-	17.7	-	-	400V 3ph	9.5x19.1	-	18.5	870x1100x460	98	LEVEL 13
FCU-1304.1	DAIKIN	FXDQ40TV13	DUCTED UNIT	3.1	2.8	3.6	27.0 / 19.0	210	220V 1ph	6.4x12.7	29-34	1.9	900×200×450	21	LEVEL 13
FCU-1304.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2	1.6	2.3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 13
FCU-1304.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1304.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1304.5	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1304.6	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1304.7	DAIKIN	FXDQ50TV13	DUCTED UNIT	3.9	3.4	4.5	27.0 / 19.0	250	220V 1ph	6.4x12.7	30-35	1.8	900×200×450	21	LEVEL 13
CU-E-L13	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.2 (-15.6%)	-	12.4	-	-	240V 1ph	6.4x12.7	-	16.5	940×990×320	71	LEVEL 13
FCU-1306.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.9	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 13
FCU-1306.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 13
FCU-1306.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
CU-F-L14 & L15	DAIKIN	RXYMQ6BVM	CONDENSING UNIT	15.5(-23%)	-	16	-	-	240V 1ph	9.5x19.1	-	27	990x940x320	80	LEVEL 14 &15
FCU-1401.1	DAIKIN	FXDQ63TV13	DUCTED UNIT	5.4	4.6	5.6	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 14 &15
FCU-1401.2	DAIKIN	FXDQ32TV13	DUCTED UNIT	2.7	2.4	2.8	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.9	700×200×450	18	LEVEL 14 &15
FCU-1401.3	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.2	2	2.2	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 14 &15
FCU-1401.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1401.5	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1401.6	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.7	1.7	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
CU-G-L14 & L15	DAIKIN	RXYMQ6BVM	CONDENSING UNIT	16 (-15.8%)	-	16.1	-	-	240V 1ph	9.5x19.1	-	27	990x940x320	80	LEVEL 14 &15
FCU-1402.1	DAIKIN	FXSQ80PAVE	DUCTED UNIT	7.5	5.8	7.6	27.0 / 19.0	383	220V 1ph	9.5x15.9	30-37.5	1.8	1000×245×800	37	LEVEL 14 &15
FCU-1402.2	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 14 &15
FCU-1402.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1402.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.9	1.7	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1402.5	DAIKIN	FXDQ25TV13	DUCTED UNIT	2.4	2.1	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 14 &15
CU-H-L14 & L15	DAIKIN	RSUYQ6AVMA	CONDENSING UNIT	15.2	-	17.7	-	-	400V 3ph	9.5x19.1	-	18.5	870x1100x460	98	LEVEL 14 &15
FCU-1403.1	DAIKIN	FXDQ40TV13	DUCTED UNIT	3.2	2.8	3.7	27.0 / 19.0	210	220V 1ph	6.4x12.7	29-34	1.9	900×200×450	21	LEVEL 14 &15
FCU-1403.2	DAIKIN	FXDQ40TV13	DUCTED UNIT	3.2	2.8	3.7	27.0 / 19.0	210	220V 1ph	6.4x12.7	29-34	1.9	900×200×450	21	LEVEL 14 &15
FCU-1403.3	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1403.4	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1403.5	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1403.6	DAIKIN	FXDQ32TV13	DUCTED UNIT	2.5	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.9	700×200×450	18	LEVEL 14 &15
FCU-1403.7	DAIKIN	FXDQ20TV13	DUCTED UNIT	1.6	1.3	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15

REF. NO.	MAKE	MODEL	SERVED AREA	TOTAL COOLING	SENSIBLE COOLING	HEATING COOLING	S/A	POWER	PIPE SIZE	DIMENSIONS	WEIGHT
				Kw	Kw	Kw	L/s		mm	HxWxD	Kg
FCU-WELNESS	DAIKIN	FBA125BVMA	Wellnest area	12.5	-	-	-	1PH / 220V / 50Hz	9.5Ø/15.9Ø	245x1400x800	47
CU-WELNESS	DAIKIN	RZF125CYM (TBA)	-	12.5	-	-	-	1PH / 220V / 50Hz	9.5Ø/15.9Ø	990x940x320	84

REF. NO.	MAKE	MODEL	SERVED AREA	TOTAL COOLING	SENSIBLE COOLING	HEATING COOLING	S/A	POWER	PIPE SIZE	DIMENSIONS	WEIGHT
				Kw	Kw	Kw	L/s		mm	HxWxD	Kg
AC-LOBBY	DAIKIN	FBA71BVMA	Lobby	7.1	-	-	-	1PH / 220V / 50Hz	9.5Ø/15.9Ø	245x1400x800	37
CU-LOBBY	DAIKIN	RZAC71CV1	-	7.1	-	-	-	1PH / 220V / 50Hz	9.5Ø/15.9Ø	595x845x300	41
AC-WINE ROOM	DAIKIN	FXDQ50TV1C	WINE ROOM	5.6	-	6.3	-	1PH / 220V / 50Hz	6.4Ø/12.7Ø	200x900x450	21
CU-WINE ROOM	DAIKIN	RXYMQ3AV4A	-	5.6	-	6.3	-	1PH / 220V / 50Hz	6.4Ø/12.7Ø	990x940x320	71

FAN SCHEDULE - BASEMENT TO LEVEL 3

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	
EF-1.1	FANTECH	SCE454	SHORT CASE SERIES	1	1000	80	1320	0.25	240 / 1 / 50	51	14	BASEMENT 1
EF-1.2	FANTECH	SCE454	SHORT CASE SERIES	1	1000	80	1320	0.25	240 / 1 / 50	51	14	BASEMENT 1
EF-2.1	FANTECH	AP0636LP12/26	AP SERIES IN-LINE DIRECT DRIVE	1	2070	120	960	0.83	415 / 3 / 50	52	50.3	BASEMENT 1
EF-G1	FANTECH	TD-500/150 (HI SPEED)	MIXVENT SERIES	1	130	120	2500	0.05	415 / 3 / 50	46	2.7	LEVEL 1
EF-G2	FANTECH	SCD504SC	SHORT CASE SERIES	1	2000	120	1400	0.55	415 / 3 / 50	54	20	LEVEL 1
EF-G3	FANTECH	CPE0314FHP	COMPACT 2000 SERIES	1	400	80	1267	0.09	415 / 3 / 50	49	10	LEVEL 1
SF-G-1	FANTECH	AP0404AP10/39	AP Series In-Line Direct Drive	1	1200	120	1440	0.55	415 / 3 / 50	55	33.5	LEVEL 1
SWPF-B1	TO BE DELETED											
EF-1	FANTECH	RESPF150	Response Series	2	-	120	960	0.06	240 / 1 / 50	37	3.25	LEVEL 1
EF-2	FANTECH	RIL-150SW	IN-LINE FAN	1	-	+	2520	0.05	240 / 1 / 50	42	2.7	LEVEL 1
CPEF-3	FANTECH	SCD504SC	SHORT CASE SERIES	1	2000	120	1400	0.55	415 / 3 / 50	54	20	LEVEL 1
SF-M.1	FANTECH	AP0504JP6/25	AP SERIES IN-LINE DIRECT DRIVE	1	1540	120	1440	0.41	415 / 3 / 50	54	28.3	SECTION 1
SF-01	FANTECH	AP0504KP9/20	AP SERIES IN-LINE DIRECT DRIVE	1	1500	120	1440	0.61	415 / 3 / 50	54	36.9	SECTION 1
SF-1.1	FANTECH	AP0504JP6/25	AP SERIES IN-LINE DIRECT DRIVE	1	1540	120	1440	0.41	415 / 3 / 50	54	28.3	SECTION 1
SF-P1	FANTECH	AP0634LP9/31	AP SERIES IN-LINE DIRECT DRIVE	1	4000	180	1440	2.2	415 / 3 / 50	61	59	LEVEL 3

FAN SCHEDULE - LEVEL 4 TO 9 & 11

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
EF-1	FANTECH	ECL29-150RDW	Velocity Series	84	25	120	950	0.04	220 / 1 / 50	39	3	ENSUITES/BATHROOMS
EF-2	FANTECH	RESPF150	Response Series	42	40	120	960	0.06	240 / 1 / 50	37	3.25	ENSUITES/BATHROOMS

FAN SCHEDULE - LEVEL 10

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	
EF-2	FANTECH	RESPF150	Response Series	5	40	120	960	0.06	240 / 1 / 50	37	3.25	ENSUITES/BATHROOMS
EF-4	FANTECH	RESPF150	Response Series	2	25	150	1920	0.06	240 / 1 / 50	39	2.2	ENSUITES/BATHROOMS

FAN SCHEDULE - LEVEL 12

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	
EF-2	FANTECH	RESPF150	Response Series	6	40	120	1920	0.06	240 / 1 / 50	39	2.2	ENSUITES/BATHROOMS
EF-4	FANTECH	RESPF150	Response Series	1	25	150	1920	0.06	240 / 1 / 50	39	2.2	ENSUITES/BATHROOMS

FAN SCHEDULE - LEVEL 13

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	

FAN SCHEDULE - LEVEL 14 & 15

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	
EF-1	FANTECH	ECL29-150RDW	Velocity Series	14	25	40	950	0.04	220 / 1 / 50	39	3	ENSUITES/BATHROOMS
EF-2	FANTECH	RESPF150	Response Series	6	40	120	950	0.06	220 / 1 / 50	38	3.3	ENSUITES/BATHROOMS
EF-4	FANTECH	RESPF150	Response Series	8	25	120	950	0.06	220 / 1 / 50	38	3.3	ENSUITES/BATHROOMS

Office: 2/30 Access Crescent, Coolum Beach, QLD 4573
Postal: PO Box 6017, Maroochydore, Qld 4558
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Phone: 1300 PORT CITY / 07 4972 3355 **Fax:** 07 4972 1791

After Hours Emergency Phone: 0439 665 398
Website: http://www.portcitygroup.com.au/

ABN: 99 717 077 615 / QBCC: 1184073 / ARCTICK: AU12994 / ELEC: 73329

Section 3

Operation & Maintenance Procedures

Please see following pages containing.

Operation manual for Daikin wall controller.

PCA Maintenance advise.

& troubleshooting information.

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After Hours Emergency Phone: 0439 665 398
Website: http://www.portcitygroup.com.au/

ABN: 99 717 077 615 / QBCC: 1184073 / ARCTICK: AU12994 / ELEC: 73329

WIRED REMOTE CONTROLLER

OPERATION MANUAL

BRC1E63

- Thank you for purchasing this product.
- This manual describes safety precautions required for the use of the product.

  Read this manual carefully and be sure you understand the information before using the product.

  Keep this manual where it is readily accessible after reading it through. If another user operates the product in the future, be sure to hand over this manual to the new user.

  Refer to the operation manuals attached to the indoor and outdoor units, etc.

Contents

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Safety Precautions – Items to be Strictly Observed –

This product is not intended for use by children or infirm persons without supervision.
Children should be supervised to ensure that they do not play with the product.

Read the safety precautions carefully for the proper use of the product.

- This manual classifies the precautions into WARNINGS and CAUTIONS.
  Be sure to follow all the precautions below: They are all important for ensuring safety.

⚠ **WARNING**	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ **CAUTION**	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

⚠ **WARNING**
• **Do not install the remote controller by yourself.** Improper installation may result in electric shocks or a fire. Consult your local dealer.
• **Do not modify or repair the remote controller.** It may result in electric shocks or a fire. Consult your local dealer.
• **Do not relocate or reinstall the remote controller by yourself.** Improper installation may result in electric shocks or a fire. Consult your local dealer.
• **Do not use flammable materials such as hairspray or insecticide near the product.** It may result in electric shocks or a fire.
• **Do not wipe the product with benzine, thinner, chemical dustcloth, etc.** The product may get discolored or the coating peeled off. The use of organic solvents may cause cracking of the product, electric shocks or a fire.

⚠ CAUTION

- **Do not allow children to play with the remote controller.**
  Accidental operation by children may result in health impairment.
- **Do not disassemble the product.**
  Touching the interior parts may result in electric shocks or a fire.
  Consult your local dealer for internal inspections and adjustments.
- **Do not press the button of the remote controller with a hard, pointed object.**
  The remote controller may be damaged.
- **Do not pull or twist the electric wire of the remote controller.**
  It may cause the unit to malfunction.
- **Do not operate with wet hands to avoid electric shocks or a fire.**
- **Do not wash the remote controller.**
  It may cause electric leakage and result in electric shocks or a fire.
- **Do not locate the remote controller wherever there is a risk of wetting.**
  If water gets into the remote controller there is a risk of electric leakage and damage to electronic components.
  It may result in electric shocks or a fire.

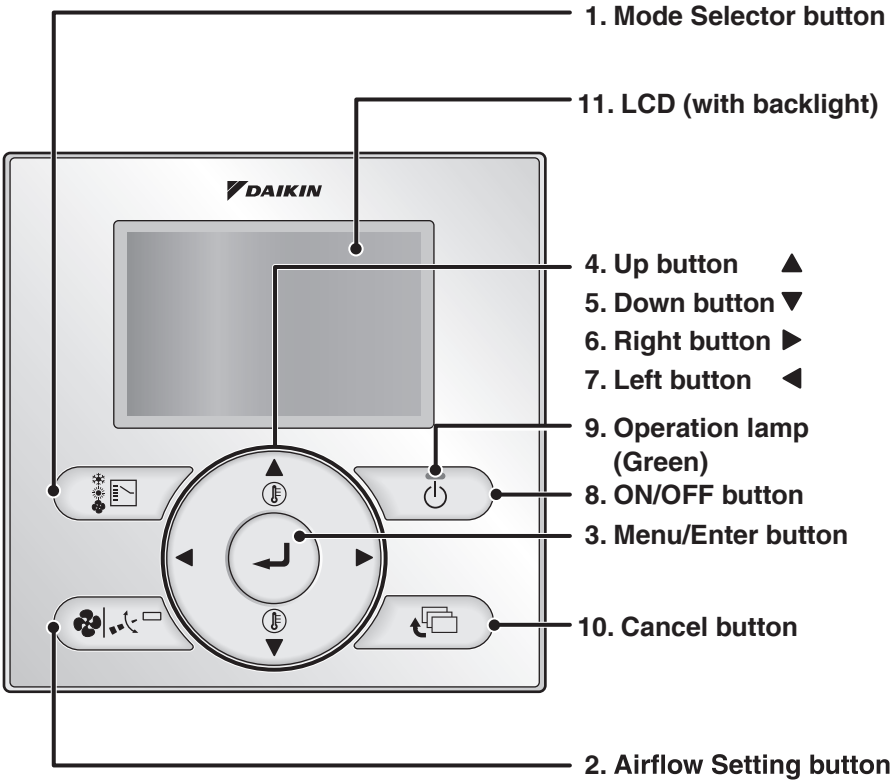
■ Disposal requirements

Your product and the batteries supplied with the controller are marked with this symbol. This symbol means that electrical and electronic products and batteries shall not be mixed with unsorted household waste.
For batteries, a chemical symbol can be printed beneath the symbol. This chemical symbol means that the battery contains a heavy metal above a certain concentration. Poss ble chemical symbols are:

■ Pb: lead (>0.004%)

Do not try to dismantle the system yourself: the dismantling of the product, treatment of the refrigerant, of oil and of other parts must be done by a qualified installer in accordance with relevant local and national legislation. Units and waste batteries must be treated at a specialized treatment facility for re-use, recycling and recovery.
By ensuring correct disposal, you will help to prevent potential negative consequences for the environment and human health.
Please contact the installer or local authority for more information.

Button Location and Descriptions



Basic operations (i.c., ON/OFF, Operation Mode, Airflow Rate (Airflow level/Fan Speed), Airflow Direction and Set Temperature) are manipulable directly by the above button.
Advanced settings are manipulable from the Menu screen displayed by the Menu/Enter button.

NOTE

- **Do not press the buttons on the remote controller with a hard, pointed objects. Otherwise, the remote controller may be damaged or malfunction.**

1. Mode Selector button

- Use to select the operation mode of your preference. **(Refer to page 10.)**
  * Available modes vary with the connecting model.

2. Airflow Setting button

- Used to indicate the Airflow Rate (Airflow level/Fan Speed)/Airflow Direction screen. **(Refer to page 11.)**
  * Available fan speed and airflow direction vary with the connecting model.

3. Menu/Enter button

- Used to indicate the Main Menu. **(Refer to page 21 for the menu items.)**
- Used to enter the setting item selected.

4. Up button "▲"

- Used to raise the set temperature.
- Use to highlight the item above the current selection. (The highlighted items will be scrolled continuously when the button is kept pressed.)
- Used to change the item selected.
  * Be sure to press the part with the symbol "▲"

5. Down button "▼"

- Used to lower the set temperature.
- Use to highlight the item below the current selection. (The highlighted items will be scrolled continuously when the button is kept pressed.)
- Used to change the item selected.
  * Be sure to press the part with the symbol "▼"

6. Right button "▶"

- Used to highlight the next items on the right-hand side.
- Display contents are changed to next screen per page.
  * Be sure to press the part with the symbol "▶"

7. Left button "◀"

- Used to highlight the next items on the left-hand side.
- Display contents are changed to previous screen per page.
  * Be sure to press the part with the symbol "◀"

8. ON/OFF button

- Press this button and system will start.
- Press this button again and system will stop.

9. Operation lamp (Green)

- This lamp lights up during operation.
- This lamp blinks if a malfunction occurs.

10. Cancel button

- Used to return to the previous screen.

11. LCD (with backlight)

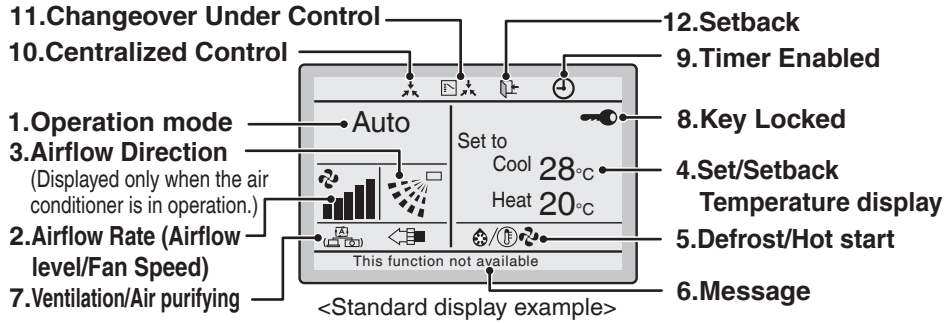
- The backlight will be lit for approximately 30 seconds by pressing any operation button. Press the button while the backlight is lit. (Excluding the ON/OFF button)
- If 2 remote controllers are used to control a single indoor unit, the backlight of the remote controller accessed first will be lit.

Names and Functions

Basic Screen

- Basic screen are two types of Standard display screen and Detailed display screen. The Standard display screen is set by default.
- To switch to the Detailed display, select the “Detailed” in the Main Menu. **(Refer to page 56.)**
- The contents on the screen vary with the operation mode of the connecting model. (The following display will appear when the air conditioner is in Automatic operation.)

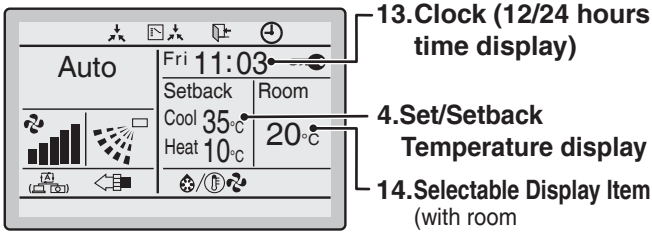
Standard display screen



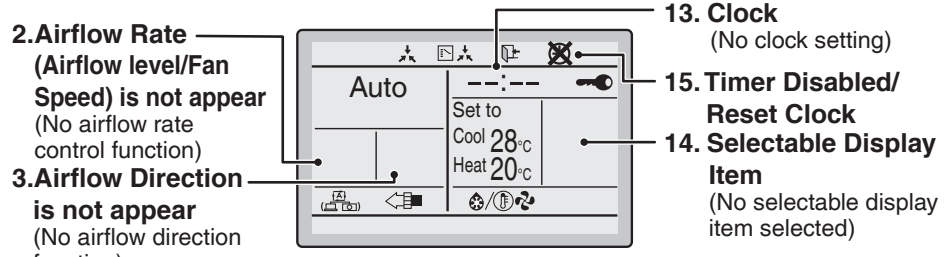
<Standard display example>

Detailed display screen

■ **The clock, and selectable display items appear on the detailed display screen in addition to the items appearing on the standard display screen.**



<Detailed display example 1>



<Detailed display example 2>

1. Operation Mode

- Displays the present operation mode, “Cool”, “Heat”, “Vent”, “Fan”, “Dry” or “Auto”.

2. Airflow Rate (Airflow level/ Fan Speed)

- Displays the airflow rate that is set for the indoor unit.
- The airflow rate will not be displayed if the indoor unit does not have airflow rate control function.

3. Airflow Direction “ ”

- Displayed when the airflow direction and swing are set **(Refer to page 12)**.
- This icon is not displayed if the indoor unit does not have a function to set airflow directions.

4. Set/Setback Temperature display

- When the air conditioner is turned on, **“Set to”** indicates the set temperatures that are set for the air conditioner.
- When the air conditioner is turned off, **“Setback”** indicates the setback temperatures that are set for the air conditioner.

5. Defrost/Hot start “ ”

(Refer to page 13.)

Displays if the Defrost/Hot start operation is active.
If ventilating operation “ ” is displayed:

- Displayed when a Heat Reclaim Ventilator is connected.
  For details, refer to the Operation Manual of the Heat Reclaim Ventilator.

6. Message

The following messages are displayed.

“This function not available.”

- Displayed for a few seconds when an operation button is pressed and the indoor unit does not have the corresponding function.
- If a number of indoor units are in operation, the message will appear only if none of the indoor units is provided with the corresponding function, i.e., the message will not appear if at least one of the indoor units is provided with the corresponding function.

“Error: Push Menu button”
“Warning: Push Menu button”

- Displayed if an error or warning is detected **(Refer to page 67)**.

“Quick Start” (Split system only)

- Displayed if the quick cooling/heating function is turned on **(Refer to page 30).**

“Time to clean filter”
“Time to clean element”
“Time to clean filter and element”

- Displayed when the time to clean the filter or element has come **(Refer to page 65).**

7. Ventilation/Air Purifying

- Displayed when a Heat Reclaim Ventilator is connected.
- **Ventilation Mode icon. “ ”**
  These icons indicate the current ventilation mode (Heat Reclaim Ventilator only) (AUTOMATIC, ENERGY RECLAIM VENTILATION, BYPASS).
- **Air purifying icon “ ”**
  This icon indicates that the Air Purifying unit (optional accessory) is in operation.

8. Key Locked “ ”

(Refer to page 20.)

- Displayed when the key lock is set.

9. Timer Enabled “ ”

(Refer to page 40 and 48.)

- Displayed if the Schedule timer or OFF timer is enabled.

10.Centralized Control “”

- Displayed if the system is under the management of centralized control equipment (optional accessories) and the operation of the system through the remote controller is prohibited.

11.Changeover Under Control “”

(VRV only)

- Displayed if the remote controller has no cool/heat selection eligibility. **(Refer to page 18)**.

12.Setback “” **(Refer to page 16.)**

- The setback icon blinks when the air conditioner is turned on under the setback control.

13.Clock (12/24 hours time display)

- Displayed when the clock is set **(Refer to page 60)**.
- If the clock is not set, “ -- : -- ” will be displayed.

14.Selectable Display Item

- Displayed when the detailed display is selected **(Refer to page 56)**.
- No detailed items are selected by default.

15.Timer Disabled/Reset Clock “”

- Displayed when the clock needs to be reset.
- The schedule timer function will not work unless the clock is reset.

Basic Operation (Use of Direct Buttons)

How to follow the operation manual

Operation procedure

Explains a button operation procedure.

Operation button

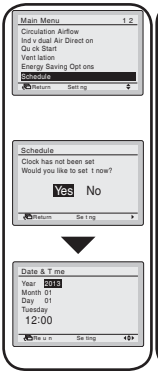
Describes the positions of buttons to be pressed.

Operation

Operation screen display

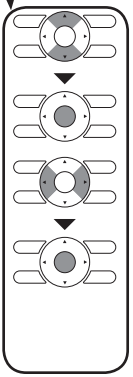
Describes screens that will be displayed on the remote controller.

1



- Display the Main Menu screen. (Refer to page 25.)
- Press "▼ ▲" buttons to select **Schedule**. Press Menu/Enter button to display the Schedule screen.
- Before setting the schedule, the clock must be set.
- If the clock has not been set, a screen like the one on the left will appear.

  Press "◀ ▶" buttons to select **Yes** and press Menu/Enter button.
- The Date & Time screen will appear.
- Set the current year, month, day, and time. (Refer to "Clock & Calendar" on page 60)



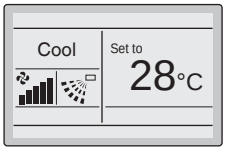
Cool/Heat/Auto/Fan Operation

Preparation

- For mechanical protection purposes, turn on the power to the air conditioner at least 6 hours before starting the operation.

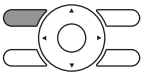
Operation

1



Basic screen

- Press Mode Selector button several times until the desired mode, Cool, Heat, Fan or Auto is selected.

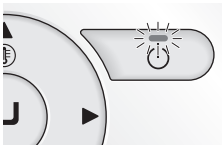


* Unavailable operation modes are not displayed.
* Only the Cool or Fan mode can be selected if the air conditioner is a cooling only model.

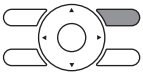
Note

- The cooling or heating mode cannot be selected if the icon "⇆" (Changeover Under Control) is displayed on the remote controller. Refer to page 18 if the icon "⇆" display blinks.

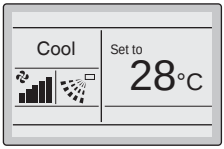
2



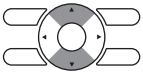
- Press ON/OFF button.
  The Operation lamp (green) will be lit and the system will start operating.



3

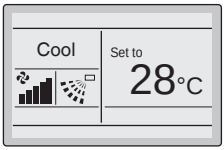


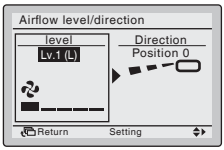
- The set temperature will increase by 1°C when "▲" button is pressed and decrease by 1°C when "▼" button is pressed.



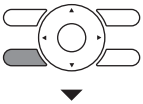
* No temperature settings are possible while operating in Fan mode.

4



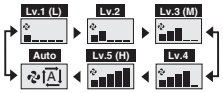


〈Airflow Rate (Airflow level/Fan Speed) or Airflow Direction Setting〉

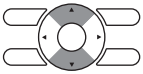


- Press Airflow setting button.
- To select Air volume or Direction setting, press "◀ ▶" buttons.

5



<Airflow Rate Adjustment>



- With level selected, set the desired airflow rate from **Lv.1 (L)**, **Lv.2**, **Lv.3 (M)**, **Lv.4**, **Lv.5 (H)** or **Auto** using the "▼ ▲" buttons.

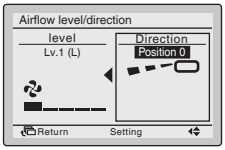
* Depending on the type of indoor unit, the adjustment levels may be two levels of **Lv.2** and **Lv.4** or three levels of **Lv.2**, **Lv.3 (M)**, and **Lv.4**. or five levels of **Lv.1 (L)**, **Lv.2**, **Lv.3 (M)**, **Lv.4**, and **Lv.5 (H)**

* For equipment protection purposes, the indoor unit may control airflow rate automatically.

* According to the room temperature, the indoor unit may control airflow rate automatically. The fan may stop operating, which, however, is not a failure.

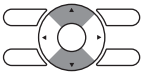
* It may take time until a change of the airflow rate is completed.

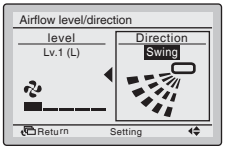
* In **Auto** setting, the airflow rate is adjusted automatically according to set temperature and room temperature. In Fan mode, the airflow rate setting is always at Lv.5 (H).



<Airflow Direction Setting>

- With Direction selected, set the desired airflow direction from, **Position 0**, **Position 1**, **Position 2**, **Position 3**, **Position 4**, **Swing**, and **Auto** using the "▼▲" buttons.



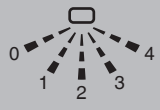


Airflow direction setting (up/down)

Note

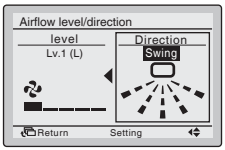
- Airflow direction appears on the screen as below.

Up/down direction



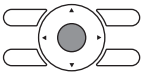
Left/right direction

0 : Position 0
1 : Position 1
2 : Position 2
3 : Position 3
4 : Position 4



Airflow direction setting (left/right)

- When you set one of positions 0 to 4, the airflow direction flap stay in a fixed position.
- Selecting **Swing** will cause the airflow direction flap to swing position 0 to 4.
  For the swing setting only, all positions will be displayed.
- Setting **Auto** will varied airflow direction by room temperature and the presence or absence of the person.
  However, in Fan mode, the airflow direction flap will be to position 0.
  (This function may not be available depending on the type of indoor unit.)
- Press Menu/Enter button to confirm the settings and return to the Basic screen.

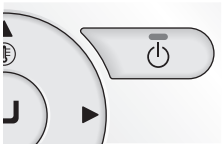


Movement of airflow direction flap (blade)

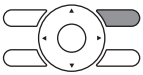
Under the operation conditions shown below, airflow direction is controlled automatically. Actual operation may thus be different from what is displayed on the remote controller.

Operation condition	• Room temperature is higher than the set temperature (in Heat/Auto mode). (Discharge horizontally so that it does not discharge directly toward your body.) • When the air conditioner goes into Heating Operation or Defrost Operation (in Heat/Auto mode). (Discharges horizontally to avoid a cold draft for the room occupants.) • Under continuous operation with the airflow discharges horizontally (in Cool/Auto mode). (Discharges in the automatic set direction for a period of time to prevent condensation on the horizontal flap.) • Under continuous operation with the airflow discharges downward (in Cool/Auto mode). (Discharges in the automatic set direction for a period of time to prevent condensation on the horizontal flap.)

6



- When the ON/OFF button is pressed again, the air conditioner will stop operating and the Operation lamp will turn off.



* When the air conditioner is stopped while in the Heating Operation, the fan will continue to operate for approximately 1 minute to remove residual heat from the indoor unit.

Note

- To prevent water leakage or system failure, do not turn off the power immediately. Wait at least 5 minutes for the drain pump to finish draining residual water from the indoor unit.

Characteristic of Cooling Operation (in Cool/Auto mode)

- When operating continuously at horizontally or downward airflow direction, air blows in the automatically set direction for a period of time to prevent condensation on the horizontal flap.
  (The remote controller displays the airflow direction that is set.)
- If the Cooling Operation is used when the room temperature is low, frost forms on the heat exchanger of the indoor unit.
  This can decrease the cooling capacity. In this case, the air conditioner automatically switches to the Defrost Operation for a while.
  During the Defrost Operation, the low airflow rate or a gentle wind is used to prevent the discharge of melt water.
  (The remote controller displays the airflow rate that is set.)
- When the outdoor air temperature is high, it takes some time until the room temperature reaches the set temperature.

Characteristics of Heating Operation (in Heat/Auto mode)

Starting Operation

- Heating Operation generally requires a longer time to reach the set temperature compared with Cooling Operation.
  It is recommended to start operating in advance by utilizing the timer.

The air conditioner automatically controls the following operation to prevent the reduction of heating capacity and space comfort.

Defrost Operation (Frost removal operation for the outdoor unit)

- The air conditioner will automatically go into Defrost Operation to prevent frost accumulation at the outdoor unit and loss of heating capacity.
- The indoor unit fan will stop, and "❄/Ⓕ" (Defrost/Hot start) will be displayed on the remote controller.
- The air conditioner will return to normal operation after approximately 6 to 8 minutes (Max 10 minutes).

Hot start

- When the air conditioner goes into Heating Operation or Defrost Operation, the indoor unit fan will stop in order to prevent a cold draft. (In that case, "❄/Ⓕ" (Defrost/Hot start) will be displayed on the remote controller.)

Regarding outdoor air temperature and heating capacity

- The heating capacity will drop with a decrease in outdoor air temperature.
  If the heating effect is insufficient, it is recommended to use another heating appliance in combination with the air conditioner.
  (When a combustion appliance is used, ventilate the room regularly.)
  Do not use the combustion appliance in places where the combustion appliance is exposed to the wind from the air conditioner.
- This air conditioner is a hot air circulation type to warm the whole room. Therefore, it takes some time for the room to become warm after the system starts operating.
  When the room temperature exceeds the set temperature, the indoor unit discharges a gentle breeze (switches to gentle wind). The airflow direction becomes horizontal.
  (The remote controller displays the airflow rate and airflow direction that are set.)
- If the hot air stays around the ceiling and your feet feel cold, the use of a circulator is recommended.
  For details, consult your local dealer.

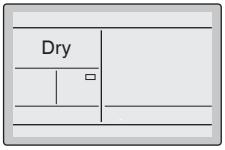
Dry Operation

Preparation

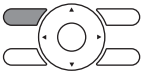
- For mechanical protection purposes, turn on the power to the air conditioner at least 6 hours before starting the operation.
- Dry mode may not be selected if the remote controller has no eligibility to select cooling/heating mode (Refer to page 19 for details).

Operation

1

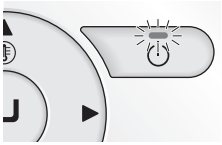


- Press Mode Selector button several times until Dry mode is selected.

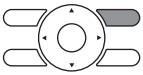


* Dry mode may not be available depending on the type of indoor unit.

2



- Press ON/OFF button.
  The Operation lamp (green) will be lit and the air conditioner will start operating.



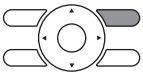
* The air conditioner controls temperature and airflow rate automatically. Therefore, set temperature or airflow rate settings are not available while the air conditioner is in operation.

3

- To set airflow direction refer to page 11.

4

- When ON/OFF button is pressed again, the air conditioner will stop operating and the Operation lamp will be turned off.

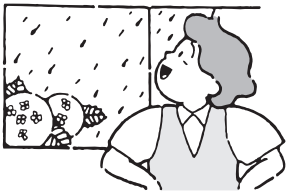


Note

- To prevent water leakage or system failure, do not turn off the power immediately. Wait at least 5 minutes for the drain pump to finish draining residual water from the indoor unit.

Characteristics of Dry Operation

Dry mode repeats the weak cooling operation intermittently to dehumidify the room without dropping the room temperature as much as possible for the prevention of excessive cooling.



Setback

The Setback function will maintain the room temperature in a specific range during unoccupied periods.

Note

- This function will temporarily start an air conditioner that was previously turned off by the user or turned off from a schedule setting/off timer.
- This function is disabled by default. This function can be changed enable/disable by Main Menu. (Refer to page 34)

  For example:

  [Setback temperature: cool 35°C, Heat 10°C
  Recovery Differential: cool -2°C, Heat +2°C]

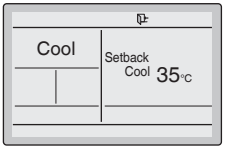
  - If the room temperature drops below 10°C, the air conditioner starts operating in Heating automatically. As soon as it reaches 12°C, the air conditioner returns to its original status.
  - If the room temperature goes above 35°C, the air conditioner starts operating in Cooling automatically. As soon as it reaches 33°C, the air conditioner returns to its original status.

  The differential can be adjusted in the Setback condition menu (Refer to page 36).

  The setback temperature can be set on Basic screen during the air conditioner is turned off. Or the setback temperature can be set in the schedule (Refer to page 46).

Operation The setback cannot be enabled when a centralized control equipment is connected.

1



The Setback icon " " blinks when the air conditioner is turned on under the Setback control.

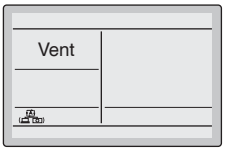
Ventilation Operation When Air Conditioner Interlocked with Heat Reclaim Ventilator

Preparation

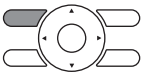
- For equipment protection purposes, turn on the power to the air conditioner at least 6 hours before starting the operation.

Operation

1



- Press Mode Selector button several times until Vent mode is selected.



* Vent mode is for single operation of Heat Reclaim Ventilator for the season when cooling/heating is unnecessary.

2

- The Ventilation mode can be changed from the Main Menu. (Refer to page 33).

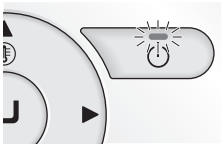
* Ventilation mode: Auto, Energy Reclaim Ventilation and Bypass

3

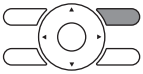
- The Ventilation rate can be changed from the Main Menu. (Refer to page 32).

* Ventilation rate: Low or High

4

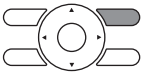


- Press ON/OFF button.
  The Operation lamp (green) will be lit and the Heat Reclaim Ventilator will start operating.



5

- When ON/OFF button is pressed again, the Heat Reclaim Ventilator will stop operating and the Operation lamp will be turned off.



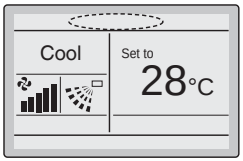
Setting the Cool/Heat Selection Eligibility

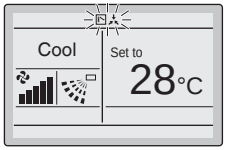
(VRV only)

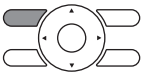
Setting Changes

Refer to “Cool/Heat Selection Eligibility” on page 19 for an explanation of the cool/heat selection eligibility.

1







- Press Mode Selector button on the remote controller that has cool/heat selection eligibility for at least 4 seconds. (During backlight lit)
  A remote controller will not display “ ” (Changeover Under Control) if a cool/heat selection eligibility is granted to the remote controller.
- The icon “ ” on each remote controller of indoor units connected to the same outdoor unit or BS unit will start blinking.

* Vent mode setting changes are possible regardless of the cool/heat selection eligibility.

* If a cool/heat selection eligibility is set in the “Cool/Heat selector” (★), all the remote controllers will display the icon “ ” . In this case, no cool/heat selection eligibility can be set in the remote controllers.

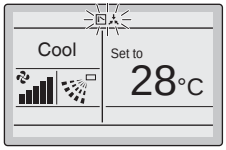
★Refer to the Operation Manual attached to the outdoor unit for the details of the “Cool/Heat selector”.

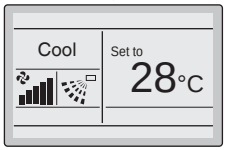
- Set a cool/heat selection elig bility as follows.

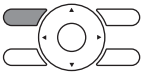
Selection Settings

The icon “ ” (Changeover Under Control) will blink on all remote controllers when the power is turned on for the first time.

2

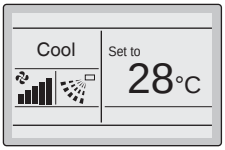




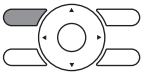


- Press Mode Selector button on the remote controller for which the selection eligibility to be set.
  Then the cool/heat selection eligibility will be set and the icon “ ” will disappear.
  The icon “ ” will appear on the other remote controllers.

3



- Press Mode Selector button on the remote controller that has the cool/heat selection eligibility (the remote controller without the icon "") several times until the desired mode is selected.
  The display will change to "Fan", "Dry", "Auto", "Cool", "Heat" each time the button is pressed.
- The display "Auto" will appear for the Heat Recovery system only.
  Simultaneously, the other remote controllers will follow suit and change the display automatically.



Cool/Heat Selection Eligibility

- The "Cool", "Heat", "Auto" can be set by only the remote controller that has the cool/heat selection elig bility.
  (The display "Auto" will appear for the Heat Recovery System only.)

1. The remote controller with the selection elig bility (Icon " " (Changeover Under Control) is not displayed) → Set to "Cool", "Heat", "Dry", "Auto" mode. → Other remote controllers (Icon " " (Changeover Under Control) is displayed)

- The system will go into the mode set in the remote controller with the selection elig bility. Other modes are not available.
- However, the system can be switched to "Fan" mode.
  In case of "Cool" or "Dry" mode, the system can be switched to "Dry" mode from "Cool" mode and to vice-versa.

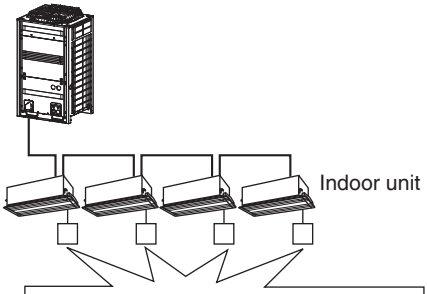
2. The remote controller with the selection elig bility (Icon " " (Changeover Under Control) is not displayed) → Set to "Fan" mode. → Other remote controllers (Icon " " (Changeover Under Control) is displayed)

- The system cannot be set to other modes except fan mode.

Precautions for Setting Cool/Heat Selection Eligibility

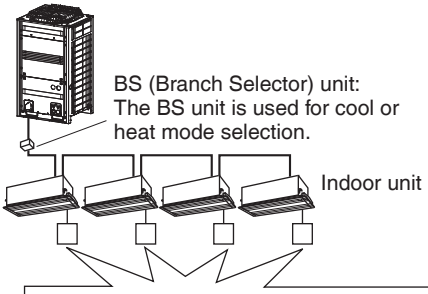
- The cool/heat selection eligibility needs to be set for a single remote controller in the following case.

(Heat Pump System)



A number of indoor units are connected to a single outdoor unit.
Set the Cool/Heat/Fan mode selection eligibility in one of the remote controllers.

(Heat Recovery System)

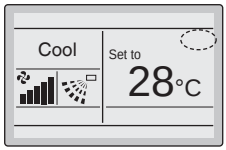


A number of indoor units are connected to a single BS unit.
Set the Cool/Heat/Auto/Fan mode selection eligibility in one of the remote controllers.

Key Lock

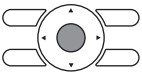
Operation Make settings and cancel settings in the Basic screen.

1

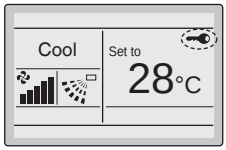


Basic screen

- Continue pressing Menu/Enter button for at least 4 seconds. (During backlight lit)



2



- "🔑" will appear.
  All buttons are disabled when the keys are locked.
- To cancel the Key lock, continue pressing Menu/Enter button for at least 4 seconds. (During backlight lit)

Quick Reference of Main Menu Items

■Main Menu Items

Setting and display items		Description	Reference page
Circulation Airflow (Note 1, 4)		Control Airflow and Air Diretion automatic, and send Airflow to the room generally. When release from the Circulation Airflow, you can set except the Airflow・Air Direction to be "**Auto**" or set the Circulation Airflow as **Enable**.	26
Air Flow Direction (only if the individual airflow function is installed)	**Individual setting**	Used to set an Airflow direction for maximum 4 flaps individually. • In case of Sprit system, maximum 4 units (unit A, B, C, D) • In case of VRV, maximum 16 units (unit 0 to 15)	27
	Individual setting list	Used to see the table for setting for maximum 4 flaps.	28
	Reset All Indivi Setting	Used to clear all of the individual settings.	29
	Airflow direction range (only available for floor standing type indoor unit (FVQ series))	Auto swing direction is selectable from 3 patterns to suit the layout of the room. **Standard, Right blow or Left blow**	29
Quick Start (SPLIT system only)		Used to set the room to a comfortable temperature quickly (unless the system is not in Dry or Fan operation). • The maximum quick cooling/heating operation period is 30 minutes.	30
Ventilation (Ventilation operation settings for Heat Reclaim Ventilator)	**Ventilation Rate**	Used to set to **Low** or **High**.	32
	Ventilation Mode	Used to set **Automatic**, **Energy Reclaim Ventilation**, and **Bypass**.	33
Energy Saving Options	**Energy Saving List**	**Enable** or **Disable** can be set up about the following menus.	34
	Setpoint Range	The set temperature range can be restricted. It is poss ble to restrict the temperature range based on a model and the mode of operation.	35
	Setback Condition	Determine the point when air conditioner is turned off again from the setback control. (recovery differential).	36
	Sensing Sensor (Low) (only if the sensing sensor is installed) (Note 2, 3)	When no people are detected during a continuously fixed time, the function will automatically change the air conditioning target temperature. If people are detected, it will return to the normal set temperature.	37
	Sensing Sensor (Stop) (only if the sensing sensor is installed) (Note 2, 3)	When no people are detected during a continuously fixed time, the function will automatically stop the air conditioner.	38

Setting and display items		Description	Reference page
Energy Saving Options	**Setpoint Auto Reset**	Even if the set temperature is changed, it returns to the preset temperature after progress of a defined period of time.	39
	Off Timer	After you turn on the air conditioner, it will automatically turn off in a defined period of time. • Poss ble to set in 10 minutes increments from 30 to 180 minutes.	40
	Auto Display Off (All series correspond)	While operation stopping, can turn off the LCD display. It will be displayed again if press any button. **Note:** Can be selected 10 minutes, 30 minutes, 60 minutes, and OFF, initial setting is 30 minutes.	41
	Energy consumption	An energy consumption until now is displayed. This enables you to evaluate the trend of the energy consumption. **Note:** This function availability is depending on type of indoor unit. **Note:** This function is not available in case more than 1 indoor unit are connected in group to the remote controller. **Note:** Displayed energy consumption is not result of a kWh measurement, but results from a calculation with running data of the air conditioner. Some factors in this calculation are absolute values, but other factors merely result from interpolations with tolerance. This explains why the readout may deviate from the actual electricity consumption.	42
Schedule	**Enable/Disable**	Enable or Disable of a schedule function can be changed.	48
	Select Schedule	The schedule number that must be active can be selected (schedule nr 1, 2 or 3).	44
	Holidays	Convenient holiday settings and temporary closure settings are possible.	45
	Settings	• Set the startup time and operation stop time. • ON: Startup time, cooling and heating setting temperature can be configured. • OFF: Operation stop time, cooling and heating setback setting temperature can be configured. (--: Indicates that the setback function is disabled for this time period.) _: Indicates that the setting temperature and setback setting temperature for this time period is not specified. The last active setting temperature will be utilized. • Up to 5 actions can be set for each day.	46
Filter Auto Clean		This function is available only on the model whose panel has filter auto clean function. For detailed operation refer to the operation manual of these models.	49

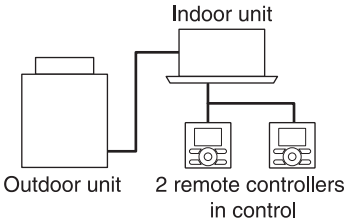
Setting and display items		Description	Reference page
Maintenance Information		**Used to display the service contact and model information.**	50
Configuration	**Quiet Operation Mode <Outdoor unit>** (sky air only)	**Setting period of time to operate priority on the quiet operation sound.** • Period of start operate quiet operation sound ~ finish is able to set in unit of 30 minutes.	51
	Auto Airflow (only model that have human detection sensor)	When set this function, at Air Direction Automatic setting, when detected human, it can change air direction to blow human or avoid from human.	54
	Draft Prevention (only model that have human detection sensor)	The draft prevention function can be enabled or disabled.	55
	Display	**Used to set to standard or detailed display mode.** • Display Standard or detailed display • Detailed display settings Selectable from the display room temperature, outdoor air temperature, system or None.	56
	Contrast Adjustment	**Used to make LCD contrast adjustment.**	58
Current Settings		**Used to display a list of current settings for available items.**	59
Clock & Calendar	**Date & Time**	**Used to configure date and time settings and corrections.** • The default time display is 24H. • The clock will maintain accuracy to within ±30 seconds per month. • If there is a power failure for a period not exceeding 48 hours, the clock will continue working with the built-in backup power supply.	60
	12H/24H Clock	The time can be displayed in either a 12 hour or 24 hour time format.	62
	Daylight Saving Time (Note 5)	Used to set Daylight Saving Time to ON or OFF.	63
Language		The displayed language can be selected from the following language. (English/Deutsch/ Français/Italiano/Español/Português/Nederlands)	64

Note: 1. Available setting items vary with the model connected.
Only the available setting items appear in the menu.
2. This function cannot be used at the time of group control.
3. In case of the simultaneous operation system, the system is controlled by the sensing sensor mounted in the master indoor unit.
4. Indoor unit inside group is all possible to set only in case of correspond to this function.
5. This function can be used only when Daylight Saving Time is enable.

Menu Items of Sub Remote Controller

If 2 remote controllers are in control of a single indoor unit, the following menu items are not set in the sub remote controller. Set them in the main remote controller.

- Circulation Airflow
- Air Flow Direction
- Energy Saving Options
- Schedule
- Setback
- Filter Auto Clean
- Auto Airflow



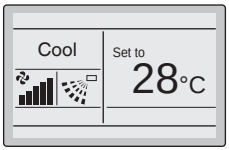
Menu Manipulation

Manipulating the Main Menu Screen

■Display Method for Main Menu

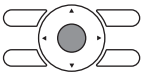
Operation

1

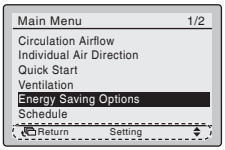


Basic screen

- Press Menu/Enter button.



2



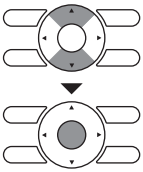
Main Menu screen

- The Main Menu screen will appear.

⇦ Instructions for manipulating the buttons will appear.

3

- Select items from the Main Menu.
  1. Press "▼▲" buttons to select the desired item to be set.
  2. Press Menu/Enter button to display the selected settings screen.



4

- To go back to the Basic screen from the Main Menu screen, press the Cancel button.

Caution

- While setting items, if a button is not pressed for 5 minutes, the screen will automatically go back to the Basic screen.

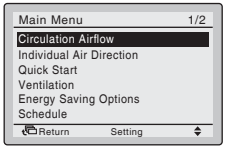
Circulation Airflow

■Circulation Airflow Setting Method

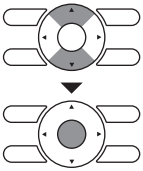
In case of air direction individual setting is disable, Circulation Airflow cannot be used.
Depends on model that does not have Circulation Airflow function and combination between option part, will not display the Circulation Airflow.

Operation

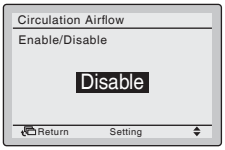
1



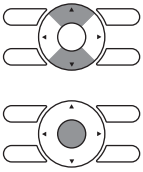
- Display the Main Menu screen (Refer to page 25).
- Press "▼▲" buttons to select **Circulation Airflow**. Press Menu/Enter button to display the Circulation Airflow screen.



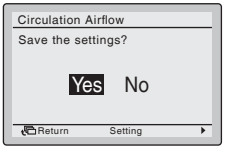
2



- Press "▼▲" buttons to change the setting to **Disable** or **Enable**. Press Menu/Enter button after selecting the item. The confirmation screen will appear.

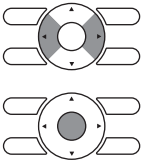


3

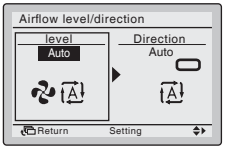


- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the settings and return to the Basic screen.

  ∗ In case setting Circulation Airflow to be **Disable**, "Circulation" while operation of which Cooling · Heating · Auto will be displayed.



∗ In case of group connection, it may take time until setting will be reflected.
∗ In case of Circulation Airflow is setting as **Enable**, both Airflow · Air Direction when auto will be displayed as Auto.



{A} is icon shows Auto.

Note:

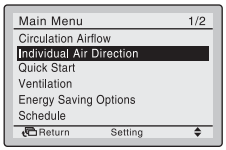
- Circulation Airflow when operation start, will be repeated mutually horizontal blow and downward blowing (Heating), swing (Cool/Heat).
  Unit will be judge automatically by temperature and time, and switch to normal the Airflow · Air Direction Auto operation.
  In this time, remote control screen will continue "Circulation".
- In case would like to stop the Circulation Airflow operation while setting the Circulation Airflow disable, to press "Airflow/Air Direction" in the Basic screen, and change the Circulation Airflow again, to change both the Airflow · Air Direction from the Airflow/Air Direction setting screen to be **Auto**, or select **Disable** again from the Menu screen.

Individual Air Direction

■Individual Setting

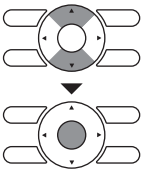
Operation

1

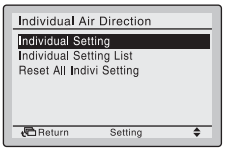


Main Menu screen

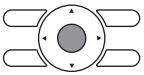
- Display the Main Menu screen (Refer to page 25).
- Select **Individual Air Direction** in the Main Menu.
- Press Menu/Enter button to display the Individual Air Direction settings screen.



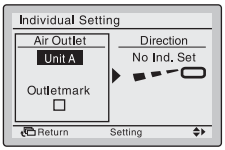
2



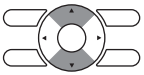
- Select **Individual setting**.
- Press Menu/Enter button.



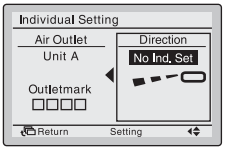
3



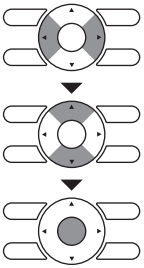
- Press "▼▲" buttons to select the unit and outlet mark.
- In case of four outlets, you can control each one of 4 flaps (ex. the following marks are beside each air outlet. □, □ □, □ □ □, □ □ □ □) individually.
- In case of SPLIT system, maximum 4 units (unit A, B, C, D) can be set.
  In case of VRV system, maximum 16 units for each group (unit 0 to 15) can be set.



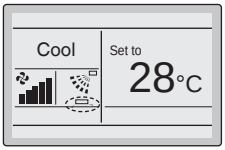
4



- Press "▶" button to select airflow direction setting.
- Press "▼▲" buttons to change the following settings: **No Ind. Set** **Position 0** **Position 1** **Position 2** **Position 3** **Position 4** **Swing**.
  No Ind. Set: No Individual Setting.
- Press Menu/Enter button to confirm the settings and return to the Basic screen.



5



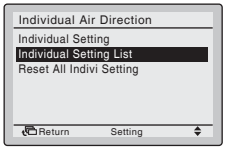
Basic screen

- If individual airflow direction is set, the Individual Airflow Direction icon "▭" is displayed in the Basic screen.

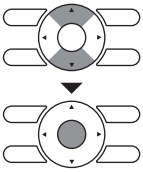
■Individual Setting List

Operation

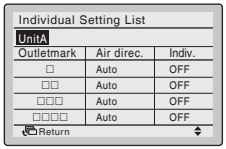
1



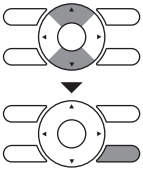
- Display the Individual Air Direction screen (Refer to page 27).
- Press "▼▲" buttons to select **Individual Setting List**.
- Press Menu/Enter button.



2



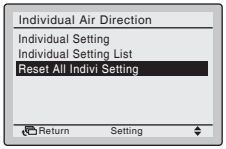
- A table shows the current settings.
  Press "▼▲" buttons to go to the next unit.
- Press Cancel button to return to the Main Menu screen.



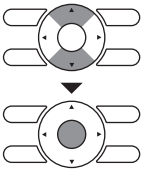
■ Reset All Indivi Setting

Operation

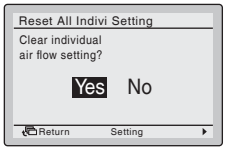
1



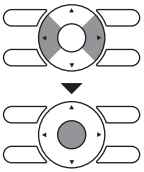
- Display the Individual Air Direction (Refer to page 27).
- Press "▼▲" buttons to select **Reset All Indivi Setting**.
- Press Menu/Enter button.



2

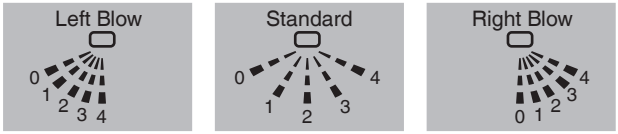


- Press "◀▶" buttons to select **Yes**.
- Press Menu/Enter button to confirm the reset and return to the Main Menu screen.



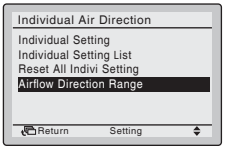
■ Airflow Direction Range (Floor standing type indoor unit only)

- Air direction range can be selected by the remote controller depending on the installed location of the air conditioner.
  Air direction range has the following 3 patterns.

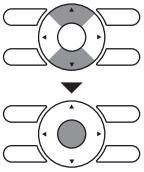


Operation

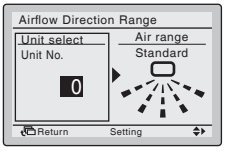
1



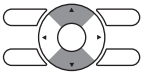
- Display the Individual Air Direction screen (Refer to page 27).
- Press "▼▲" buttons to select **Airflow Direction Range**.
- Press Menu/Enter button.



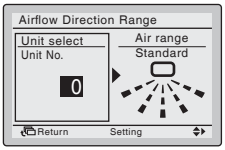
2



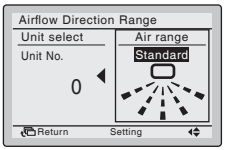
- Press "▼▲" buttons to select the unit No..
  *For simultaneous operation system, individual setup for each indoor unit is possible by connecting the remote controller to each unit at the time of installation.
  For the remote controllers with grouping connection, maximum 16 units (0-15 as unit number) are configurable.



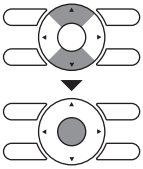
3

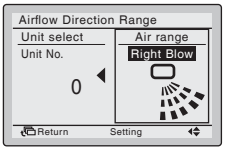


- Press "▶" button to select air range setting.

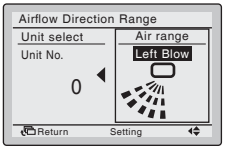


- Set the desired air range from **Standard**, **Right Blow** or **Left Blow** by using "▼▲" buttons.





- Press Menu/Enter button to confirm the settings and return to the Basic screen.

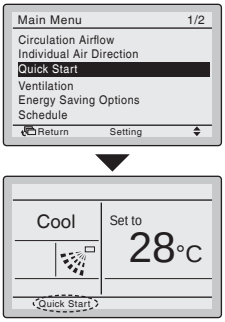


Quick Start (SPLIT system only)

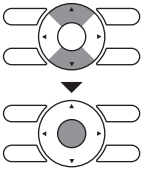
■Quick Start On

Operation

1



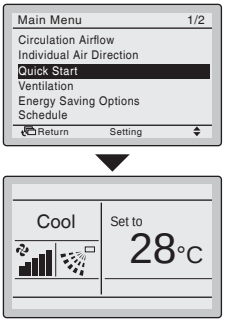
- While operating in Cooling, Heating, or Auto mode, display the Main Menu screen (Refer to page 25).
- Press "▼▲" buttons to select **Quick Start** on the Main Menu screen.
  Press Menu/Enter button to return to the Basic screen.
- "Quick Start" will appear on the Basic screen.
- Quick Start is now on.



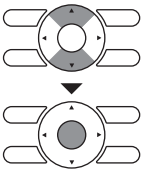
■Quick Start Off

Operation

2



- While Quick Start is displayed on the Basic screen, display the Main Menu screen (Refer to page 25).
- Press "▼▲" buttons to select **Quick Start**. Press Menu/Enter button to return to the Basic screen.
- "Quick Start" will no longer appear on the Basic screen.
- Quick Start is now off.



Quick Start

Quick Start

The airflow rate of indoor unit is automatically controlled, increasing the capacity of the outdoor unit and quickly bringing the room to a comfortable temperature.

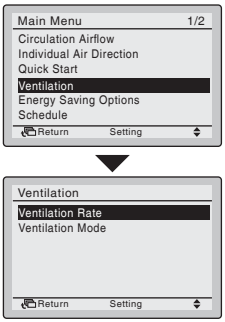
- Airflow rate display disappear and airflow rate can no longer be switched.
- Cannot be set when in fan and dry modes.
- Quick Start will operate for a maximum of 30 minutes before the air conditioner automatically returns to normal operation.
- Activating mode selector will return the air conditioner to normal operation.
- In heating mode, airflow rate will increase and the air outlet temperature may decrease. Adjust the operation as desired.

Ventilation

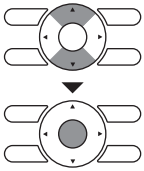
■Display Method for Ventilation Screen

Operation

1



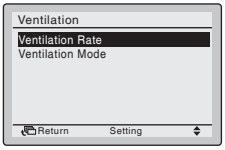
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Ventilation**. (For models with no ventilation function, **Ventilation** will not be displayed.) Press Menu/Enter button to display the Ventilation screen.



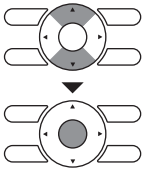
■Changing the Ventilation Rate

Operation

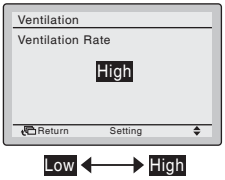
1



- Display the Ventilation settings screen (Refer to above).
- Press "▼▲" buttons to select **Ventilation Rate**. Press Menu/Enter button to display the Ventilation rate screen.

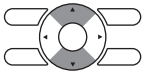


2

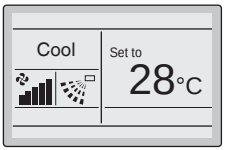


- Press "▼▲" buttons to change the setting to **Low** or **High**.

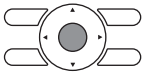
*Only modes that can be set are displayed.



3



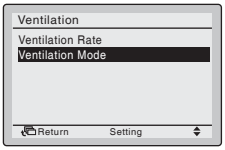
- Select the desired ventilation rate. Press Menu/Enter button to confirm the settings and return to the Basic screen. (Press Cancel button to return to the previous screen without changing the ventilation rate.)



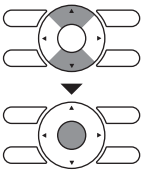
■Changing the Ventilation Mode

Operation

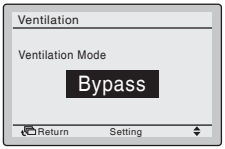
1



- Display the ventilation screen. (Refer to page 32.)
- Press "▼▲" buttons to select **Ventilation Mode**. Press Menu/Enter button to display the Ventilation mode screen.



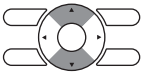
2



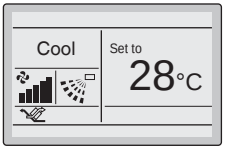
- Press "▼▲" buttons to change the settings in order as shown below.

Bypass ◂▸ **Energy Reclaim Vent.** ◂▸ **Auto**

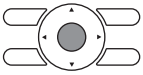
*Only modes that can be set are displayed.



3



- Select the desired ventilation mode. Press Menu/Enter button to confirm the settings and return to the Basic screen.
  (Press the Cancel button to return to the previous screen without changing the ventilation mode.)



Ventilation Mode

Automatic mode

Using information from the air conditioner (cooling, heating, fan and set temperature) and the Heat Reclaim Ventilator unit (indoor and outdoor air temperatures), mode is automatically changed between Energy reclaim ventilation and Bypass.

Energy reclaim ventilation mode

Outdoor air is supplied to the room with undergoing heat exchange.

Bypass mode

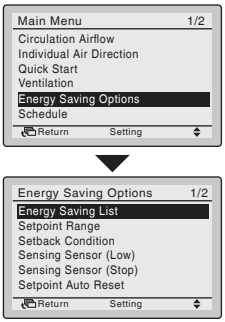
Outdoor air is supplied to the room without undergoing heat exchange.

Energy Saving Options

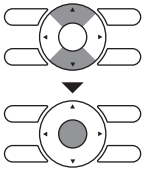
■Display Method for Energy Saving Options Screen

Operation

1



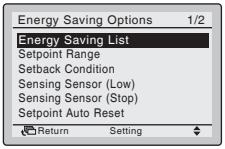
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Energy Saving Options**. Press Menu/Enter button to display the Energy Saving Options screen.



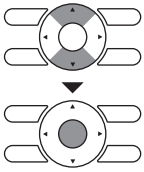
■Energy Saving List

Operation

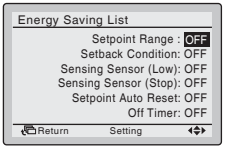
1



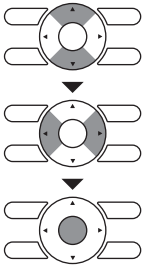
- Display the Energy Saving Options screen (Refer to above).
- Press "▼▲" buttons to select **Energy Saving List**. Press Menu/Enter button to display the Energy Saving List screen.



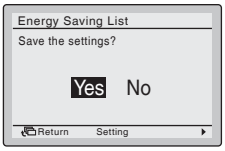
2



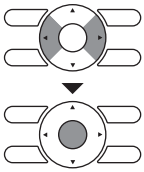
- Press "▼▲" buttons to change the setting to **ON** or **OFF**. (**ON** : Enable, **OFF** : Disable)
- Press "◀▶" buttons to move the cursor. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



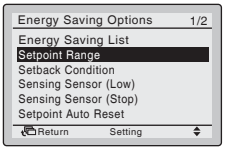
- Press "◀▶" buttons to select **Yes** on the confirmation screen. Press Menu/Enter button to confirm the settings and return to the Basic screen.



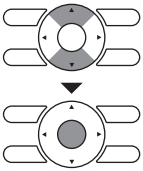
■Setpoint Range

Operation

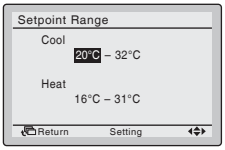
1



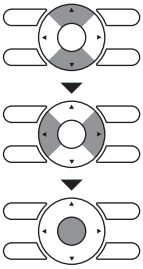
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Setpoint Range**. Press Menu/Enter button to display the Setpoint Range screen.



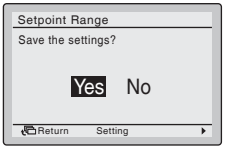
2



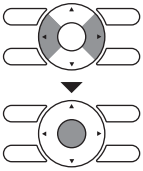
- Press "▼▲" buttons to change the temperature setting range of cooling and heating.
- Press "◀▶" buttons to move the cursor. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



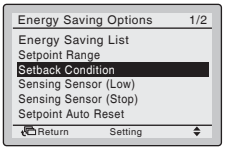
- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the settings and return to the Basic screen.



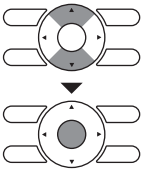
■Setback Condition

Operation

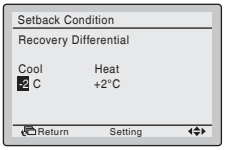
1



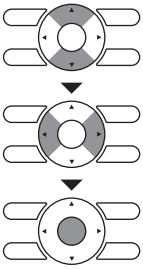
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Setback Condition**. Press Menu/Enter button to display the Setback Condition screen.



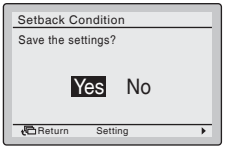
2



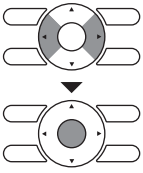
- Press "▼▲" buttons to change the temperature differential of the Setback.
- Press "◀▶" buttons to move the cursor. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the settings and return to the Basic screen.

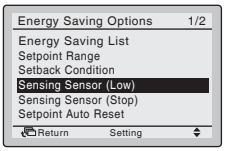


■Sensing Sensor (Low)

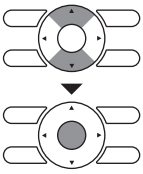
This function cannot be used at the time of group control.
In case of the simultaneous operation system, the system is controlled by the sensing sensor mounted in the master indoor unit.

Operation

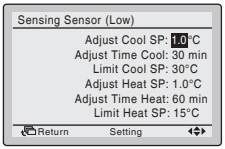
1



- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Sensing Sensor (Low)**.
  Press Menu/Enter button to display the Sensing Sensor (Low) screen.



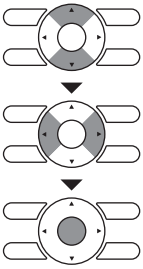
2



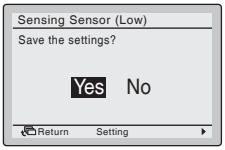
- Press "▼▲" buttons to change the setting value of saving energy operation when the sensor detects the absence.
- Press "◀▶" buttons to move the cursor.
  Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.
  (Example)

Adjust Cool SP	: 1.0°C
Adjust Time Cool	: 30 min
Limit Cool SP	: 30°C

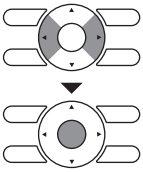
- If it is determined that there is no person in the room by sensor during Cooling Operation, the set temperature will automatically shift by 1°C every 30 minutes until the set temperature is 30°C. (On Basic screen, set temperature does not change.)



3



- Press "◀▶" buttons to select **Yes**.
  Press Menu/Enter button to confirm the settings and return to the Basic screen.

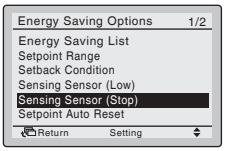


■Sensing Sensor (Stop)

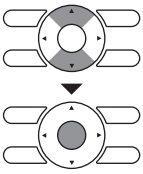
This function cannot be used at the time of group control.
In case of the simultaneous operation system, the system is controlled by the sensing sensor mounted in the master indoor unit.

Operation

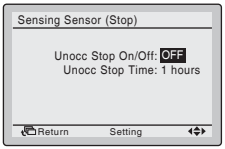
1



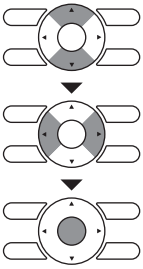
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Sensing Sensor (Stop)**.
  Press Menu/Enter button to display the Sensing Sensor (Stop) screen.



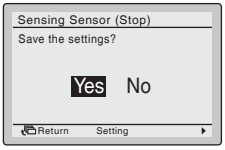
2



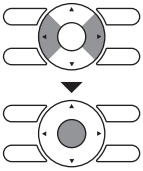
- Press "▼▲" buttons to set the saving energy operation when the sensor detects the absence.
- Press "◀▶" buttons to move the cursor.
  Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.



3



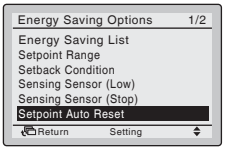
- Press "◀▶" buttons to select **Yes**.
  Press Menu/Enter button to confirm the settings and return to the Basic screen.



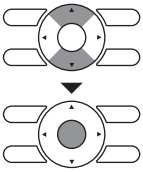
■Setpoint Auto Reset

Operation

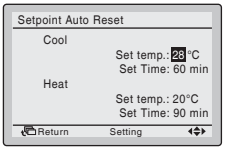
1



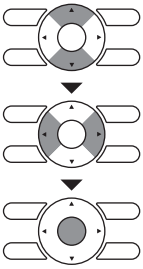
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Setpoint Auto Reset**.
  Press Menu/Enter button to display the Setpoint Auto Reset screen.



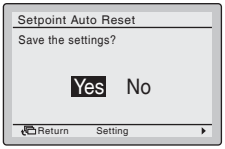
2



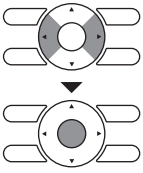
- Press "▼▲" buttons to set preset temperature and timing for the auto reset of the setpoint.
- Press "◀▶" buttons to move the cursor.
  Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.



3



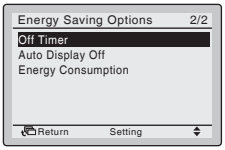
- Press "◀▶" buttons to select **Yes**.
  Press Menu/Enter button to confirm the settings and return to the Basic screen.



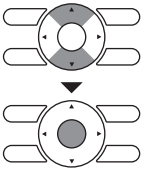
■Off Timer

Operation

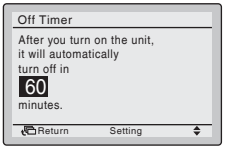
1



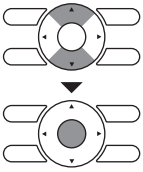
- Display the Energy Saving Options screen. (Refer to page 34.)
- Press "▼▲" buttons to select the **Off Timer**. Press Menu/Enter button to display the Off Timer screen.



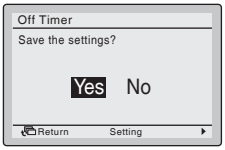
2



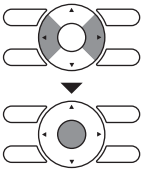
- Press "▼▲" buttons to set the time from operation start until the unit automatically stops. Selections can be made in increments of 10 minutes from 30 to 180 minutes. Holding down the button causes the number to change continuously.
- Select the desired time and press Menu/Enter button. The confirmation screen will appear.



3



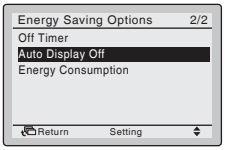
- Press "◀▶" button to select **Yes**. Press Menu/Enter button to confirm the Off Timer settings and return to the Basic screen.



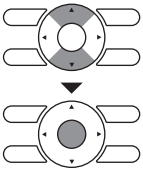
■ Auto Display Off

Operation

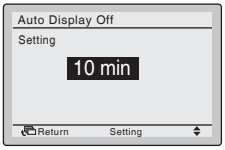
1



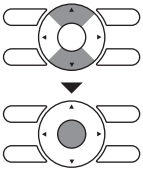
- Display the Energy Saving Options screen. (Refer to page 34.)
- Press "▼▲" buttons to select **Auto Display Off**. Press Menu/Enter button to display the Auto Display Off screen.



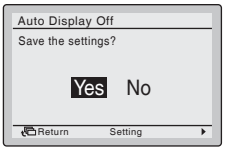
2



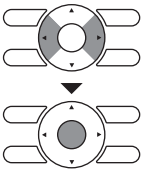
- Press "▼▲" buttons to set the Auto Display Off from **10 min**, **30 min**, **60 min** or **OFF**. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



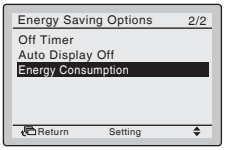
- Press "◀▶" button to select **Yes**. Press Menu/Enter button to confirm the settings and return to the Basic screen.



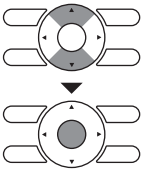
■Energy Consumption

Operation This item may not be available depend on the connecting model.

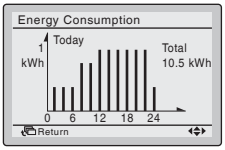
1

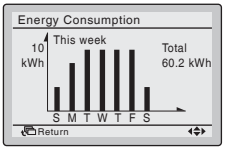


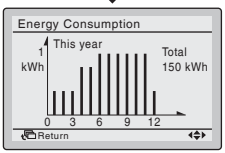
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Energy Consumption**.
  Press Menu/Enter button to display the Energy Consumption screen.



2

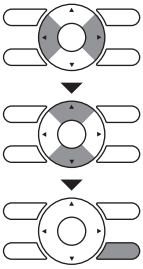






- Press "◀▶" buttons to move the indicating screen.
  Today > Yesterday > This week (1 week) > Last week (1 week) > This year (1 year) > Last year
  Change the items and values located in the upper right of the indication area using "▼▲" buttons.

  Press Cancel button to return to the previous screen.

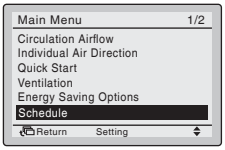


Schedule

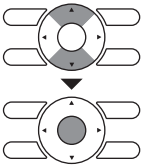
■Display Method for Schedule Screen

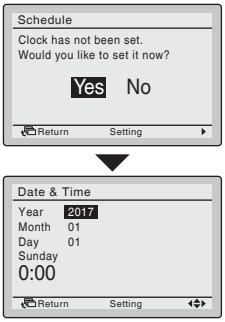
Operation The Schedule cannot be enabled when a centralized control equipment is connected.

1

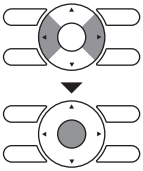


- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Schedule**. Press Menu/Enter button to display the Schedule screen.

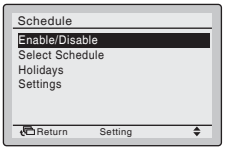




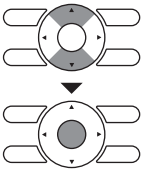
- Before setting the schedule, the clock must be set.
- If the clock has not been set, a screen like the one on the left will appear. Press "◀▶" buttons to select **Yes** and press Menu/Enter button.
- The Date & Time screen will appear.
- Set the current Year, Month, Day, and Time. (Refer to "Clock & Calendar" on page 60.)



2



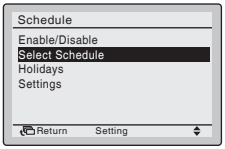
- Press "▼▲" buttons to select the desired item on the Schedule screen and press Menu/Enter button.



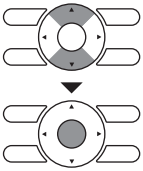
■Select Schedule

Operation This function can be stored in the schedule of 3 patterns.

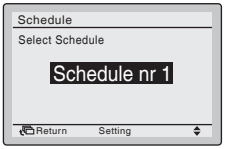
1



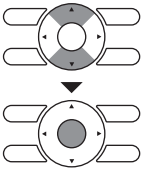
- Display the Schedule screen. (Refer to page 43.)
- Press "▼▲" buttons to select **Schedule nr set**. Press Menu/Enter button to display the Schedule nr set screen.



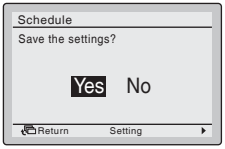
2



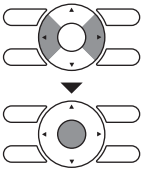
- Press "▼▲" buttons to select **Schedule nr 1**, **Schedule nr 2**, or **Schedule nr 3**.
  Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.



3



- Press "◀▶" buttons to select **Yes**.
  Press the Menu/Enter button to confirm the daily patterns in the schedule and return to the Basic screen.

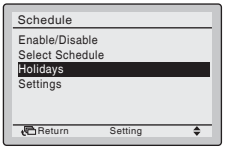


■Holidays

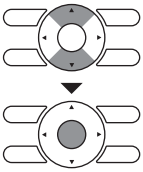
(The schedule timer will be disabled for days that have been set as holiday.)

Operation

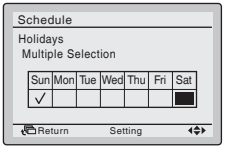
1



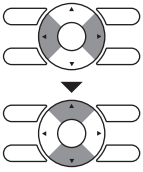
- Display the Schedule screen. (Refer to page 43.)
- Press "▼▲" buttons to select **Holidays**.
  Press Menu/Enter button to display the Holiday setting screen.



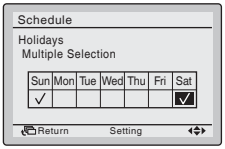
2



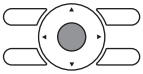
- Press "◀▶" buttons to select the desired day.
  Press "▼▲" buttons to display "✓" to make the holiday settings.
  Press "▼▲" buttons to switch the setting between set and release.
  Multiple days can be selected as holidays.
  Note: To enable the schedule timer for the day selected as a holiday, the holiday setting must be released.



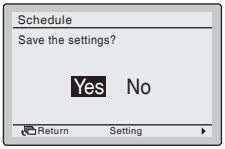
3



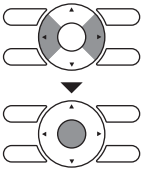
- To complete the holiday settings, press Menu/Enter button.
  The confirmation screen will appear.

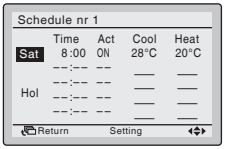


4



- Press "◀▶" button to select **Yes**.
  Press Menu/Enter button to confirm the holiday settings and return to the Basic screen.





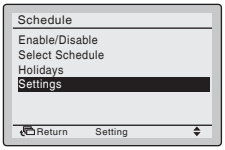
Note:

- Holidays that are set will be displayed on the Schedule screen.

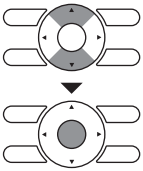
■Schedule Settings

Operation

1

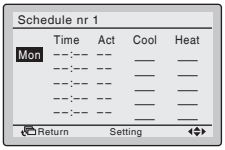


- Display the Schedule screen. (Refer to page 43.)
- Press "▼▲" buttons to select **Settings**. Press Menu/Enter button to display the Schedule screen.

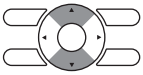


NOTE: The Schedule Settings of the selected schedule number can be changed. To change the schedule number refer to "Schedule Nr Set" on page 44.

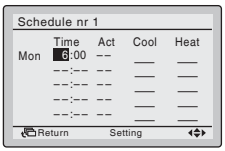
2

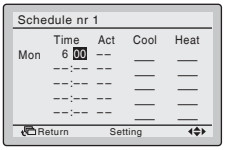


- Press "▼▲" buttons to select the day of the week to be set.

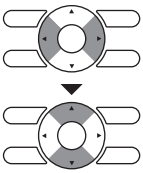


3

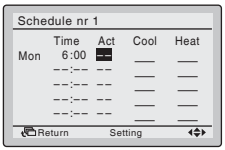


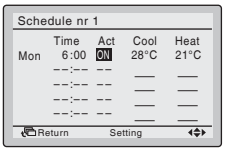


- Set the time for the selected day.
- Press "◀▶" buttons to move the highlighted item and press "▼▲" buttons to set the desired time. Each press of "▼▲" buttons moves the numbers by 1 hour or 1 minute.



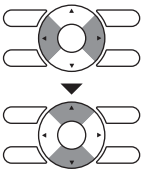
4

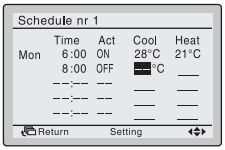




- Press the "◀▶" buttons to move the highlighted item and press "▼▲" buttons to configure ON/OFF/-- settings.
  --, ON, or OFF changes in sequence when "▼▲" buttons are pressed.

"Act" column:
ON : The set temperature can be configured.
OFF: The setback temperature can be configured.
– – : The set temperature and setback temperature become disabled.





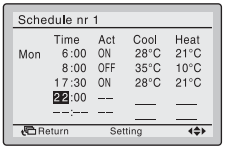
- The cooling and heating set temperature for both ON and OFF (Setback) are configured.

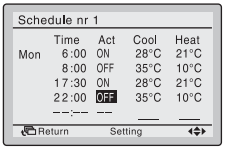
"Cool" and "Heat" column:

"__": Indicates that the set temperature and setback temperature for this time period is not specified. The last active set temperature will be utilized.

"––": Indicates that the setback function is disabled for this time period.

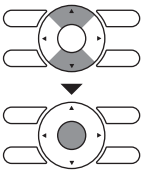
5

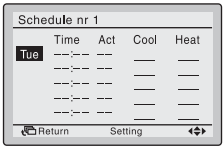


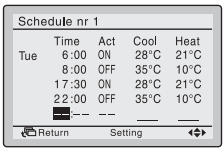


A maximum of 5 actions per day can be set.

- Press the Menu/Enter button when settings for each day are completed. The confirmation screen will appear.

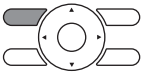




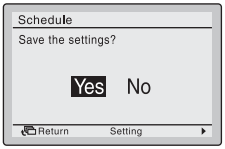


Note:

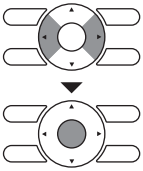
- To copy the settings for the previous day, press the Mode Selector button so that the existing settings will be copied.
  Example: The contents for Monday are copied by pressing the Mode Selector button after selecting Tuesday.



6



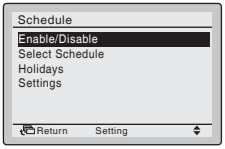
- Press "◀▶" buttons to select **Yes**.
  Press the Menu/Enter button to confirm the settings for each day and return to the Basic screen.



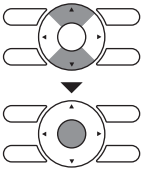
Enabling or disabling the schedule

Operation

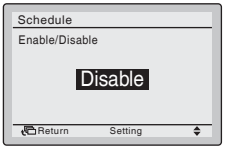
1



- Display the Schedule screen. (Refer to page 43.)
- Press "▼▲" buttons to select **Enable/Disable**. Press Menu/Enter button to display the Enable/Disable screen.

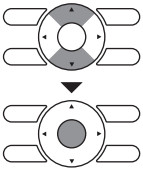


2

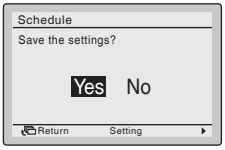


- Press "▼▲" buttons to select **Enable** or **Disable** on the Enable/Disable screen. Press Menu/Enter button after selecting the item. The confirmation screen will appear.

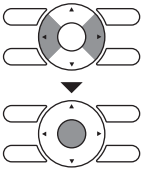
NOTE: The Schedule number selected is Enabled. To change the Schedule number see "Schedule Nr Set" on page 44.



3



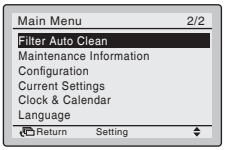
- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the Enable/Disable setting for the schedule and return to the Basic screen.



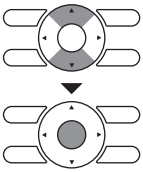
Filter Auto Clean

Operation

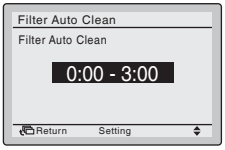
1



- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Filter Auto Clean** and press Menu/Enter button.



2



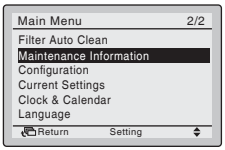
- Filter Auto Clean time zone setting can be set.
- This function is available only on the model whose panel has Filter Auto Clean function.
- For detailed operation, refer to the operation manual of these models.

Maintenance Information

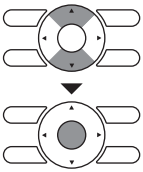
■Display Method for Maintenance Information

Operation

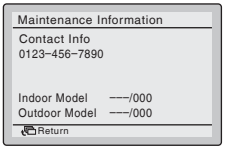
1



- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Maintenance Information** and press Menu/Enter button.



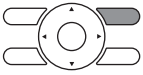
2



- The phone number for the contact is displayed at the top of the screen. (If it has not yet registered by installer, it will not displayed.)
- The model name of the indoor and outdoor units of your product will be displayed on the bottom of the screen. (For some models the product code may be displayed instead of model name.)

* The model name will not displayed if the Printed Circuit Board of the air conditioner has been replaced.

* The Malfunction (Error) code history may also be displayed. If it is not blinking, the unit is working properly. The Malfunction (Error) code history is no longer displayed if you press ON/OFF button for more than 4 seconds.

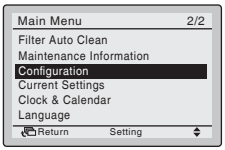


Configuration

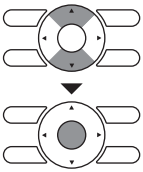
■Display Method for Configuration Screen

Operation

1



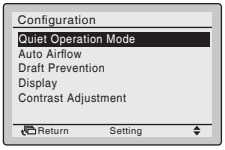
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Configuration**. Press Menu/Enter button to display the Configuration screen.



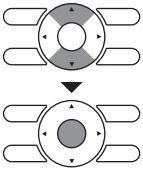
■Quiet Operation Mode <Outdoor unit> (SkyAir only)

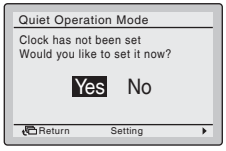
Operation

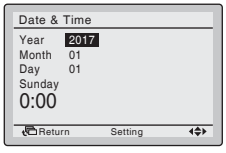
1



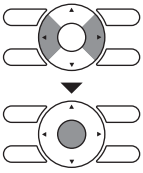
- Display the Configuration screen. (Refer to above.)
- Press "▼▲" buttons to select **Quiet Operation Mode**. Press Menu/Enter button to display the Quiet Operation Mode screen.



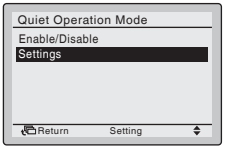




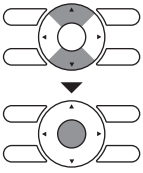
- Before setting the Quiet Operation Mode, the clock must be set.
- If the clock has not been set, a screen like the one on the left will appear. Press "◀▶" buttons to select **Yes** and press Menu/Enter button
- The Date & Time screen will appear.
- Set the current Year, Month, Day and Time. (Refer to "Clock & Calendar" on page 60.)



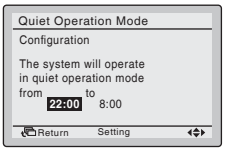
2



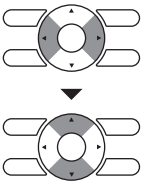
- Press "▼▲" buttons to select **Settings**. Press Menu/Enter button to display the Quiet Operation Mode screen.



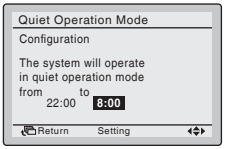
3



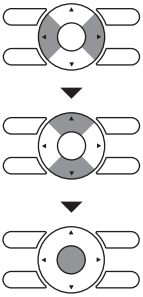
- Press "◀▶" buttons to select the Start time or Finish time.
  Press "▼▲" buttons to set the Start time, can set by unit of 30 minutes.
  If continue pressing, it will change continuously.



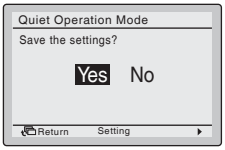
4



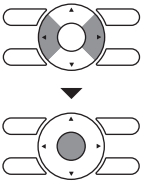
- Press "◀▶" buttons to select the Finish time.
  Press "▼▲" buttons to set the Finish time, can set by unit of 30 minutes.
  If continue pressing, it will change continuously.
- Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.



5



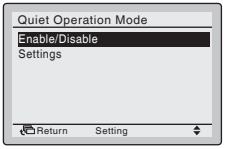
- Press "◀▶" buttons to select **Yes**.
  Press the Menu/Enter button to confirm the Quiet Operation Mode settings and return to the Basic screen.



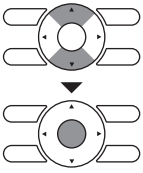
Enabling or disabling the Quiet Operation Mode

Operation

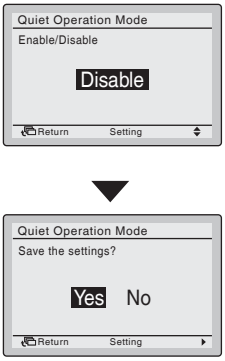
1



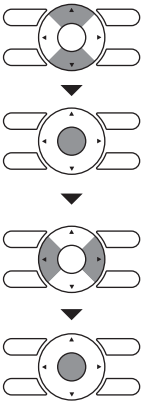
- Display the Quiet Operation Mode screen. (Refer to page 51.)
- Press "▼▲" buttons to select **Enable/Disable**. Press Menu/Enter button to display the Enable/Disable screen.



2



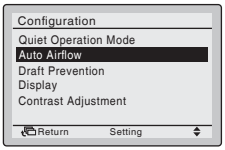
- Press "▼▲" buttons to select **Enable** or **Disable** on the Enable/Disable screen. Press Menu/Enter button after selecting the item. The confirmation screen will appear.
- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the Enable/Disable setting for the Quiet Operation Mode and return to the Basic screen.



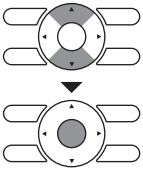
■Auto Airflow
Cool and Heat Condition setting method

Operation Menu will be displayed only corresponded model.

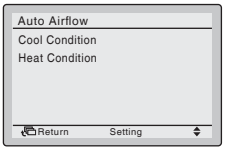
1



- Display the Configuration screen. (Refer to page 51.)
- Press "▼▲" buttons to select **Auto Airflow**.
  Press Menu/Enter button to display the Active Draft screen.

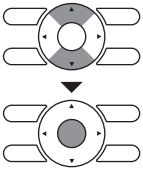


2

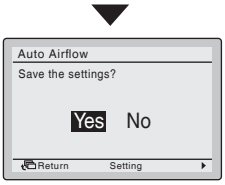


- Press "▼▲" buttons to select **Cool Condition**.
  Press Menu/Enter button to display the Condition Setting screen.

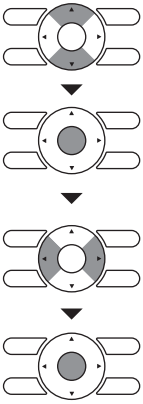
  * In case of heating, select the Heat Condition



3



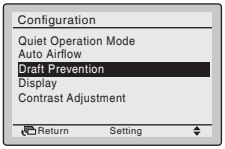
- Press "▼▲" buttons to select **OFF**, **Draft Prevention** or **Direct Air**.
  Press Menu/Enter button after selecting the item. The confirmation screen will appear.
- Press "◀▶" buttons to select **Yes**.
  Press Menu/Enter button to confirm the enable/disable setting for the Auto Airflow and return to the Basic screen.



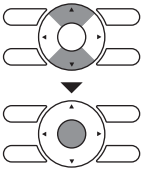
■Draft Prevention

Operation

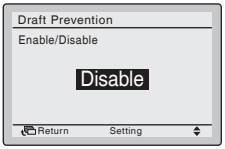
1



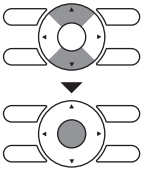
- Display the Configuration screen. (Refer to page 51.)
- Press "▼▲" buttons to select **Draft Prevention**. Press Menu/Enter button to display the Draft Prevention screen.



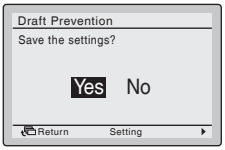
2



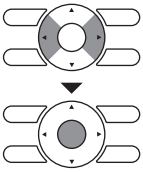
- Press "▼▲" buttons to select **Enable** or **Disable**. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



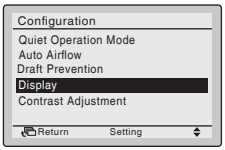
- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the Enable/Disable setting for the Draft Prevention and return to the Basic screen.



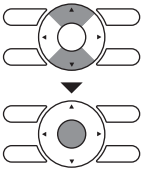
■Display
Display Mode

Operation

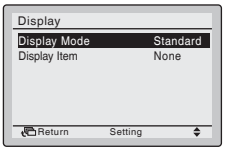
1



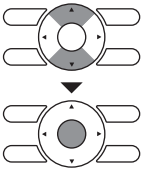
- Display the Configuration screen. (Refer to page 51.)
- Press "▼▲" buttons to select **Display**. Press Menu/Enter button to display the Display screen.



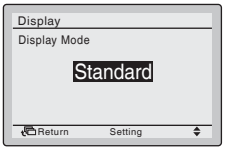
2



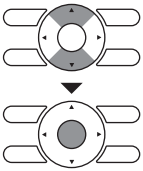
- Press "▼▲" buttons to select **Display Mode**. Press Menu/Enter button to display the Display Mode screen.



3



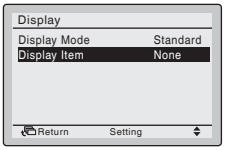
- Press "▼▲" buttons to select **Standard** or **Detailed**.
- Then, press Menu/Enter button to confirm settings and return to the Basic screen.



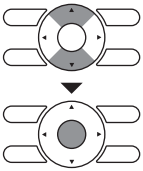
Setting the detailed display item selection

Operation

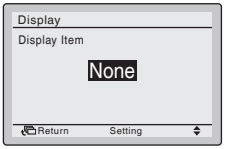
1



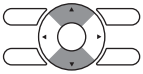
- Display the Display screen. (Refer to page 56.)
- Press "▼▲" buttons to select **Display Item**. Press Menu/Enter button to display the Display Item screen.



2



- Press "▼▲" buttons to display the following.



None ◀▶* **Outside Air Temp**

* **System** ◀▶ **Room Temp**

* Some models may not display these items even if they are selected.

- Be sure to read the following notes regarding display of room temperature and outdoor air temperature.

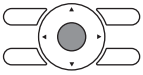
Room Temp

..... The temperature detected near the remote controller.
The temperature may be affected by the location of the remote controller.

Outside Air Temp

..... The temperature defected near the outdoor unit.
The temperature may be affected by factors such as the location of the outdoor unit (in direct sunlight, e.g.) and unit operation during defrosting.

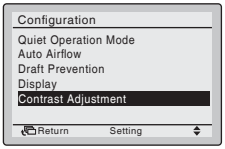
- After setting, press Menu/Enter button to confirm settings and return to the Basic screen.



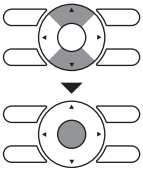
■Contrast Adjustment

Operation

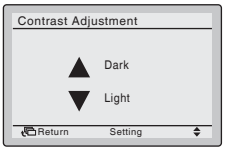
1



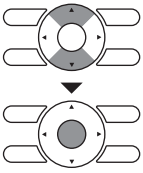
- Display the Configuration screen. (Refer to page 51.)
- Press "▼▲" buttons to select **Contrast Adjustment**.
  Press Menu/Enter button to display the Contrast Adjustment screen.



2



- On the Contrast Adjustment screen, press "▼▲" buttons until you reach the desired contrast.
  After setting, press Menu/Enter button and return to the Basic screen.

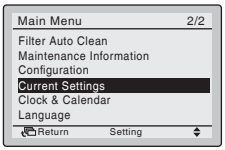


Current Settings

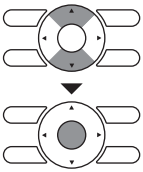
■Manipulating the Current Settings

Operation

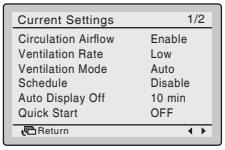
1



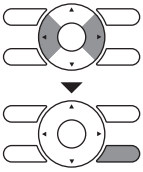
- Display the Main Menu screen. (See page 25.)
- Press "▼▲" buttons to select **Current Settings** and press Menu/Enter button.



2



- A list of the current setting status will appear. Press "◀▶" buttons to go to the next item.
- Press Cancel button to return to the Main Menu screen.



Display items

Circulation Airflow	Quick Start
Ventilation Rate	Quiet Operation Mode
Ventilation Mode	Display Mode
Schedule	Display Item
Auto Display Off	Filter Auto Clean

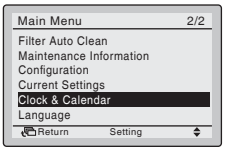
* Display items may differ depending on the model. Only the items that can be set are displayed.

Clock & Calendar

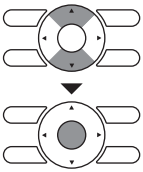
■Display Method for Clock & Calendar Screen

Operation

1



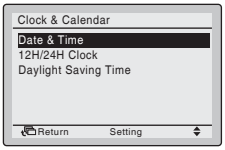
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Clock & Calendar**. Press Menu/Enter button to display the Clock & Calendar screen.



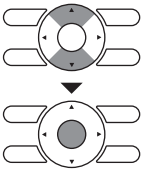
■Date & time

Operation

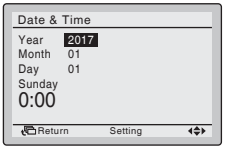
1



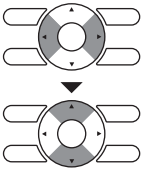
- Display the Clock & Calendar screen. (Refer to above.)
- Press "▼▲" buttons to select **Date & Time**. Press Menu/Enter button to display the Date & Time screen.



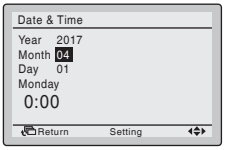
2



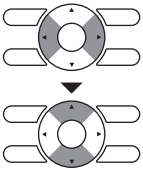
- Select "Year" with "◀▶" buttons. Change the year with "▼▲" buttons. Holding down the button causes the number to change continuously.



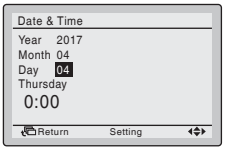
3



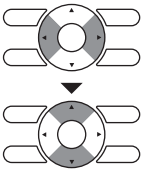
- Select "Month" with "◀▶" buttons. Change the month with "▼▲" buttons. Holding down the button causes the number to change continuously.



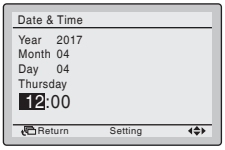
4



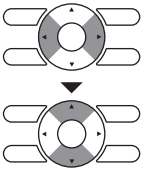
- Select “Day” with “◀▶” buttons.
  Change the day with “▼▲” buttons.
  Holding down the button causes the number to change continuously.
  Days of the week change automatically.



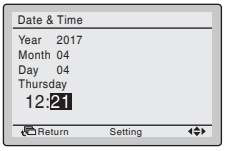
5



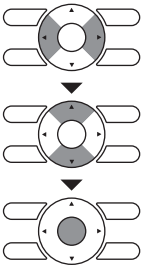
- Select “Hour” with “◀▶” buttons.
  Change the hour with “▼▲” buttons.
  Holding down the button causes the number to change continuously.



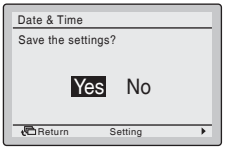
6



- Select “Minute” with “◀▶” buttons.
  Change the minute with “▼▲” buttons.
  Holding down the button causes the number to change continuously.
- Press Menu/Enter button.
  The confirmation screen will appear.

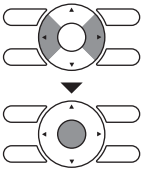


7



- Press “◀▶” button to select **Yes**.
  Press Menu/Enter button to confirm the clock and return to the Basic screen.

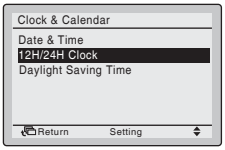
  * When setting the schedule, the display returns to the Schedule screen.



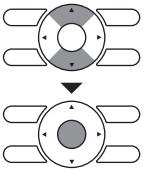
■12H/24H Clock

Operation

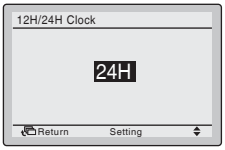
1



- Display the Clock & Calendar screen. (Refer to page 60)
- Press "▼▲" buttons to select **12H/24H Clock**. Press Menu/Enter button to display the 12H/24H Clock screen.

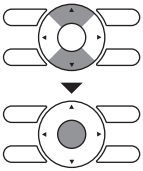


2

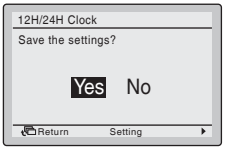


By default, the time display is set to the 24H format.

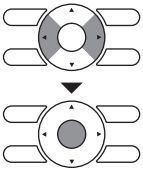
- Press "▼▲" buttons to select **12H** or **24H**.
- Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



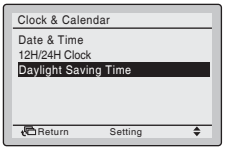
- Press "◀▶" buttons to select **Yes**. Press the Menu/Enter button to confirm the 12H or 24H and return to the Basic screen.



■Daylight Saving Time

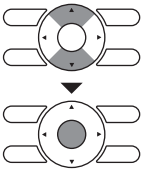
Operation

1



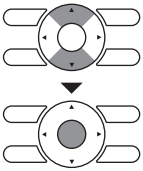
- Display the Clock & Calendar screen. (Refer to page 60.)
- Press "▼▲" buttons to select **Daylight Saving Time**.

  Press Menu/Enter button to display the Daylight Saving Time screen.

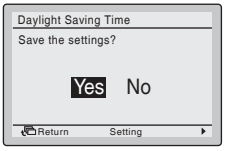


2

- Press "▼▲" buttons to select **ON** or **OFF**.
- Press Menu/Enter button after selecting the item. The confirmation screen will appear.

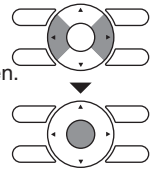


3



- Press "◀▶" buttons to select **Yes**.

  Press the Menu/Enter button to confirm the Daylight Saving Time and return to the Basic screen.

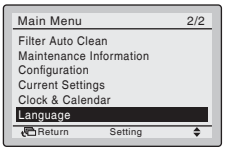


Language

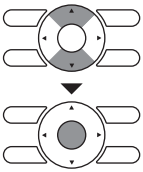
■Selectable Languages

Operation

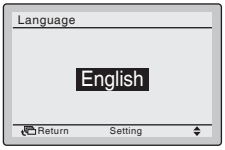
1



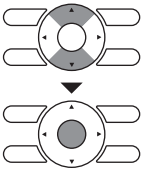
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Language** and press the Menu/Enter button.



2



- Press "▼▲" buttons to select the preferred language from following.
  English/Deutsch/Français/Italiano/Español/Português/Nederlands
- Press Menu/Enter button to confirm settings and return to the Basic screen.

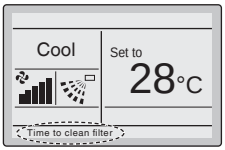


Maintenance

Reset Filter Indicator

Operation

1

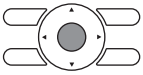


- When the time to clean the filter or element has come, one of the following messages will appear on the bottom of the Basic screen.
  "Time to clean filter"
  "Time to clean filter & element"
  "Time to clean element"

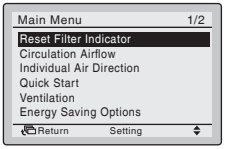
- Wash, clean, or replace the filter or element.
  For details, refer to the operation manual attached to the indoor unit.

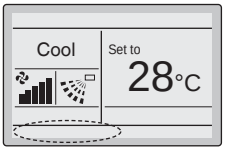
2

- Reset the filter indicator when the filter or element is washed, cleaned, or replaced.
- Press Menu/Enter button.
  The Main Menu screen will appear.

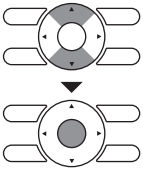


3





- Press "▼▲" buttons to select **Reset Filter Indicator** and press Menu/Enter button.



- The message shown in Step *1* will disappear from the Basic screen.

⚠ Caution

- **Do not wash the remote controller.**
  Doing so may cause electric leakage and result in electric shocks or a fire.
- **Be sure to stop the operation of the air conditioner and turn off the power at the time of maintenance.**
  Failure to do so may result in electric shocks or injury.

Cleaning of Remote Controller

- Wipe the surface part of the remote controller with a dry cloth when it become dirty.
- If the dirt on the surface cannot be removed, soak the cloth in neutral detergent diluted with water, squeeze the cloth tightly, and clean the surface. Wipe the surface with a dry cloth then.

Note

- Do not use any paint thinner, organic solvent, or strong acid.

⚠ Warning

- **Do not use flammable materials (e.g., hairspray or insecticide) near the air conditioner.**
  Do not clean remote controller with organic solvents such as benzine or paint thinner.
  The use of organic solvents may cause crack damage to the product, electric shocks or a fire.

Reference Information

Malfunction (Error) Code Display

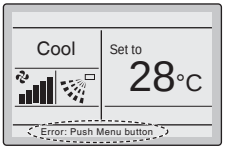
■Contact Your Dealer in the Following Cases

⚠ Warning

- **When the air conditioner is malfunctioning (e.g., giving off a burning odor), stop the air conditioner and turn off the power.**
  Continued operation under such circumstances may result in failure, electric shocks or a fire.
  Contact your local dealer.

Operation

1

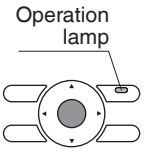


- If a malfunction occurs, either one of the following messages will appear on the Basic screen during operation.

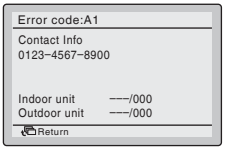
  “Error: Push Menu button.”
  * The Operation lamp will blink.

  “Warning: Push Menu button.”
  * The Operation lamp will not blink.

- Press Menu/Enter button.



2



- The Error code blinks and the contact address and model name will appear.
- Notify your local dealer of the Error code and Model name.

After-sales Service

⚠ Warning

- **Do not disassemble, modify, or repair the remote controller.**
  It may cause electric shocks or a fire.
  Consult your local dealer.
- **Do not relocate or reinstall the remote controller by yourself.**
  Improper installation may cause electric shocks or a fire.
  Consult your local dealer.

■ Advise the Repairer of the Following Items

- Model name
- Date of installation
- Failure conditions: As precise as poss ble.
- Your address, name, and telephone number

■ Relocation

The relocation of the remote controller requires special technology. Consult your local dealer.
Actual expenses required for the relocation of the remote controller will be charged.

■ Inquiry about After-sales Service

Contact your local dealer.

DAIKIN INDUSTRIES, LTD.

Head office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

Tokyo office:
JR Shinagawa East Bldg., 2-18-1, Konan,
Minato-ku, Tokyo, 108-0075 Japan
http://www.daikin.com/global_ac/

4P457312-1C M16N049B

Comprehensive Maintenance Activities

BENEFITS from regular / scheduled preventative maintenance:

1. *Increase energy efficiency – in turn decreasing energy consumption*
2. *Increase system performance – Revitalise & Refresh system capacity*
3. *Improves the air quality – Reducing illness & respiratory problems*
4. *Improves the overall cleanliness & appearance of the system*
5. *Improves system longevity – Increase system lifespan*
6. *Can pick up potential problems before they create costly damages*

ACTIVITIES carried out during preventative maintenance include:

1. *Check refrigerant gas pressures and operating temperatures*
2. *Check reversing valve operation (heating & cooling modes)*
3. *Check fan rotation, mountings and bolts*
4. *Clean indoor unit casing, louvers & filters*
5. *Clean indoor fan barrel to ensure maximum air flow*
6. *Clean indoor coil with acid based solution to remove mould & bacteria*
7. *Treat indoor coil with an anti-bacterial Tea Tree deodorant*
8. *Clean large debris from outdoor coil*
9. *Clean and flush drains from build-up and blockages*
10. *Clean & check all electrical systems and PC boards, ensuring safe operations*

PORT CITY AIRCONDITIONING employs experienced & professional refrigeration mechanics trained to:

1. *Complete system maintenance within 30 – 40 minutes*
2. *Utilise drop sheets and a vacuum to ensure no mess*
3. *Leave the establishment exactly how they found it*
4. *Inform client of any repairs required before commencing*

DAIKIN

Simple Self-Diagnosis by Malfunction Code

DAIKIN INDUSTRIES, LTD.
After Sales Service Division
(SM-TS3)

RA, SkyAir, *VRV*, PA, and Heat Reclaim Ventilator

Division	Detail code	0	1	2	3	4	5	6	7	8	9	A	C	E	F	H	J
Indoor Unit	A	External protection device activated	Malfunction of indoor unit PCB		Drain Level Control System Abnormality	Malfunction of freezing protection	High pressure control in heating, freeze-up protection control in cooling	Malfunction of fan motor	Malfunction of swing flap motor	Malfunction of power supply or AC input overcurrent	Malfunction of electronic expansion valve	Heater overheat	Stop due to low water level	Low water level · no water supply	Malfunction of a humidifier system	Malfunction of dust collector of air cleaner	Malfunction of capacity setting (Indoor unit PCB)
	C	Malfunction of sensor system (unified)	Failure of transmission (between indoor unit PCB and sub PCB)		Malfunction of drain level sensor	Malfunction of liquid pipe thermistor for heat exchanger	Malfunction of gas pipe thermistor for heat exchanger	Malfunction of fan motor sensor or fan control driver	Front panel driving motor fault	Malfunction of AC input current sensor system	Malfunction of suction air thermistor	Malfunction of discharge air thermistor	Malfunction of humidity sensor system	Malfunction of switch box thermistor	Malfunction of high pressure switch		Room temperature thermistor in remote controller abnormality
Outdoor Unit	E	Protection devices activated (unified)	Defective outdoor unit PCB	Missing of earth leakage detection core	Actuation of high pressure switch (HPS)	Actuation of low pressure switch (LPS)	Inverter compressor motor or overheat	STD compressor motor overcurrent/ lock	Malfunction of outdoor unit fan motor system	Overcurrent of inverter compressor	Malfunction of electronic expansion valve coil	Malfunction of four way valve or cool/ heat switchin	Malfunction of entering water temperature	Malfunction of drain water level	Malfunction of thermal storage unit	Malfunction of cooling water pump	Actuation of option protection device
	F				Malfunction of discharge pipe temperature	Wet alarm		Abnormal high pressure or refrigerant overcharged				Abnormal high pressure actuation of HPS		Abnormal oil pressure	Abnormal oil level or shortage of oil	Abnormal high temperature of refrigerant oil	Abnormal exhaust temperature of engine
	H	Malfunction of sensor system of compressor	Malfunction of room temperature sensor or humidifier unit damper	Malfunction of power supply sensor	Malfunction of high pressure switch (HPS)	Malfunction of low pressure switch (LPS)	Malfunction of compressor motor overload thermistor	Malfunction of position detection sensor	Malfunction of outdoor unit fan motor signal	Malfunction of compressor input (CT) system	Malfunction of outdoor air thermistor	Malfunction of discharge air thermistor	Malfunction of (hot) water temperature thermistor	Malfunction of drain water level sensor	Alarm in thermal storage unit or storage controller	High room temperature alarm	Malfunction of thermal storage tank water level
	J	Miswiring of thermistor	Malfunction of pressure sensor	Malfunction of current sensor of compressor	Malfunction of discharge pipe thermistor	Malfunction of low pressure equivalent saturated temperature sensor system	Malfunction of suction pipe thermistor	Malfunction of heat exchanger thermistor	Malfunction of thermistor (Refrigerant circuit)	Malfunction of thermistor (Refrigerant circuit)	Malfunction of thermistor (Refrigerant circuit)	Malfunction of high pressure sensor	Malfunction of low pressure sensor	Malfunction of oil pressure sensor or sub-tank thermistor	Malfunction of oil level sensor or heating heat exchanger thermistor	Malfunction of oil temperature thermistor	Malfunction of engine room temperature sensor or exhaust temperature
	L	Malfunction of inverter system	Malfunction of inverter PCB		El.compo. box temperature rise	Malfunction of inverter radiation fin temperature rise	Inverter instantaneous overcurrent (DC output)	Inverter instantaneous overcurrent (AC output)	Total input overcurrent	Malfunction of overcurrent inverter compressor	Malfunction of inverter compressor startup error (Stall prevention)	Malfunction of power transistor	Malfunction of transmission between control and inverter PCB	Malfunction of igniter system	Engine startup error	Malfunction of generator converter	Engine stop
	P	Shortage of refrigerant amount (thermal storage unit)	Power voltage imbalance or inverter PCB	Automatic refrigerant charge operation stop	Malfunction of thermistor in switch box	Malfunction of radiation fin temperature sensor	Malfunction of DC current sensor	Malfunction of AC or DC output current sensor	Malfunction of total input current sensor	Heat exchanger freezing protection during automatic refrigerant charging	Automatic refrigerant charge operation completed	Refrigerant cylinder during automatic refrigerant charging	Refrigerant cylinder during automatic refrigerant charging	Automatic refrigerant charge operation nearly completed	Malfunction of starter actuation	Refrigerant cylinder during automatic refrigerant charging	Improper combination between inverter and fan driver
System	U	Shortage of refrigerant	Reverse phase, open phase	Malfunction of power supply or instantaneous power failure	Check operation not executed or transmission error	Malfunction of transmission between indoor and outdoor unit	Malfunction of transmission between indoor unit and remote controller	Malfunction of transmission between indoor units	Malfunction of transmission between outdoor units or outdoor storage unit	Malfunction of transmission between remote controllers	Malfunction of transmission (other system)	Improper combination of indoor and outdoor units	Malfunction of setting of centralized control equipment address	Malfunction of transmission between indoor unit and centralized control equipment	System is not set yet	Malfunction of system	Malfunction of transmission (accessory device)
	M		Malfunction of central remote controller PCB							Malfunction of transmission between optional controllers for centralized control		Improper combination of optional controllers for centralized control	Address duplication, improper setting				
Others	6	External protection device activated (Heat reclaim ventilator)	Malfunction of PCB	Ozone density abnormal	Contaminated sensor error	Malfunction of indoor air thermistor (Heat reclaim ventilator)	Malfunction of outdoor air thermistor (Heat reclaim ventilator)	Supply air passage closed	Exhaust air passage closed	Malfunction of dust collection unit (Heat reclaim ventilator)		Malfunction of damper system (Heat reclaim ventilator)	Replace the humidify element	Replace the deodorising catalyst	Simplified remote controller malfunction (Heat reclaim ventilator)	Door switch open (Heat reclaim ventilator)	Replace the high efficient filter
	8									Micro-computer initialization							
	9					Malfunction of transmission (between heat reclaim ventilator and fan unit)											

Chiller

Division	Detail code	0	1	2	3	4	5	6	7	8	9	A	C	E	F	H	J
Indoor Unit	A		Malfunction of indoor unit PCB			Malfunction of freezing protection					Malfunction of electronic expansion valve	Malfunction of electronic expansion valve					
	C					Malfunction of liquid pipe thermistor for heat exchanger	Malfunction of gas pipe thermistor for heat exchanger										
Outdoor Unit	E	Protection devices activated (unified)	Defect of outdoor unit PCB	Missing of earth leakage detection core	Actuation of high pressure switch (HPS)	Actuation of low pressure switch (LPS)	Inverter compressor motor or overheat	STD compressor motor overcurrent/ lock	Malfunction of outdoor unit fan motor system	Overcurrent of inverter compressor	Malfunction of electronic expansion valve coil						
	F				Malfunction of discharge pipe temperature								Abnormal high pressure actuation of HPS				
	H	Malfunction of sensor system of compressor	Malfunction of room temperature sensor or humidifier unit damper	Malfunction of power supply sensor	Malfunction of high pressure switch (HPS)	Malfunction of low pressure switch (LPS)	Malfunction of compressor motor overload thermistor	Malfunction of position detection sensor	Malfunction of outdoor unit fan motor signal	Malfunction of compressor input (CT) system	Malfunction of outdoor air thermistor	Malfunction of discharge air thermistor	Malfunction of (hot) water temperature thermistor				
	J	Miswiring of thermistor	Malfunction of pressure sensor	Malfunction of current sensor of compressor	Malfunction of discharge pipe thermistor	Malfunction of low pressure equivalent saturated temperature sensor system	Malfunction of suction pipe thermistor	Malfunction of heat exchanger thermistor	Malfunction of thermistor (Refrigerant circuit)	Malfunction of thermistor (Refrigerant circuit)	Malfunction of thermistor (Refrigerant circuit)	Malfunction of high pressure sensor	Malfunction of low pressure sensor				
	L	Malfunction of inverter system	Malfunction of inverter PCB		El. compo. box temperature rise	Malfunction of inverter radiation fin temperature rise	Inverter instantaneous overcurrent (DC output)	Inverter instantaneous overcurrent (AC output)	Total input overcurrent	Malfunction of overcurrent inverter compressor	Malfunction of inverter compressor startup error (Stall prevention)	Malfunction of power transistor	Malfunction of transmission between control and inverter PCB				
	P	Shortage of refrigerant amount (thermal storage unit)	Power voltage imbalance or inverter PCB	Automatic refrigerant charge operation stop	Reactor temperature abnormality	Malfunction of radiation fin temperature sensor											Improper combination between inverter and fan driver
System	U	Shortage of refrigerant	Reverse phase, open phase	Malfunction of power supply or instantaneous power failure	Check operation not executed or transmission error	Malfunction of transmission between indoor and outdoor unit	Malfunction of transmission between indoor unit and remote controller	Malfunction of transmission between indoor units	Malfunction of transmission between outdoor units or outdoor storage unit	Malfunction of transmission between remote controllers	Malfunction of transmission (other system)	Improper combination of indoor and outdoor units	Malfunction of setting of centralized control equipment address	Malfunction of transmission between indoor unit and centralized control equipment			Malfunction of transmission (accessory device)
Others	7	System No. 2 Compressor overheat	System No. 2 Compressor overcurrent	System No. 2 Fan motor overcurrent	System No. 2 Actuation of high pressure switch (HPS)	System No. 2 Actuation of low pressure switch (LPS)	System No. 2 Malfunction of low pressure sensor	System No. 2 Malfunction of high pressure sensor	System No. 1 Malfunction of fan inter lock	System No. 2 Malfunction of fan inter lock		System No. 2 Malfunction of compressor current sensor	Malfunction of pump inter lock				
	8	Malfunction of entering water temperature thermistor	Malfunction of leaving water temperature thermistor or drain pipe heater	System No. 1 Malfunction of refrigerant thermistor	System No. 2 Malfunction of refrigerant thermistor	System No. 1 Malfunction of heat exchanger thermistor	System No. 2 Malfunction of heat exchanger thermistor	System No. 1 Malfunction of discharge pipe thermistor		System No. 2 Malfunction of discharge pipe temperature	Malfunction of brazed-plate heat exchanger freezing	Malfunction of dehumidification or leaving water temperature thermistor		System No. 1 Malfunction of suction pipe thermistor 1 for heating	System No. 1 Malfunction of suction pipe thermistor 2 for heating	Abnormal hot water high temperature	
	9	Abnormal chilled water quantity or abnormal AXP	System No. 2 Malfunction of electronic expansion valve	System No. 2 Malfunction of suction pipe thermistor			System No. 1 Malfunction of inverter system	System No. 2 Malfunction of inverter system	Malfunction of thermal storage unit	Malfunction of thermal storage brine pump	Malfunction of thermal storage brine tank			System No. 2 Malfunction of suction pipe thermistor 1 for heating	System No. 2 Malfunction of suction pipe thermistor 2 for heating		

Fan Coil

Division	Detail code	0	1	2	3	4	5	6	7	8	9	A	C	E	F	H	J
Indoor Unit	A				Malfunction of drain level system	Malfunction of freezing protection										Malfunction of dust collector of air cleaner	
	C					Malfunction of liquid pipe thermistor for heat exchanger					Malfunction of suction air thermistor						Malfunction of thermostat sensor in remote controller
System	U		Reverse phase, open phase	Malfunction of power supply or instantaneous power failure	Check operation not executed or transmission error	Malfunction of transmission between indoor and outdoor unit	Malfunction of transmission between indoor unit and remote controller	Malfunction of transmission between indoor units	Malfunction of transmission between outdoor units or outdoor storage unit	Malfunction of transmission between remote controllers	Malfunction of transmission (other system)	Improper combination of indoor and outdoor units	Malfunction of setting of centralized control equipment address	Malfunction of transmission between indoor unit and centralized control equipment			
	M		Malfunction of central remote controller PCB							Malfunction of transmission between optional controllers for centralized control		Improper combination of optional controllers for centralized control	Address duplication, improper setting				

Simple Self-Diagnosis by Malfunction Code

	Malfunction code	Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Indoor Unit	A0	External protection device activated	External protection device connected to the terminal strip T1-T2 of indoor unit is activated		○	○	○			
	A1	Malfunction of indoor unit PCB	Defective indoor unit PCB External factor (Noise etc.)	○	○	○	○	○	○	
	A3	Drain Level Control System Abnormality	Drain clogging, upward slope, etc. Defective drain pump Defective float switch or short circuit connector	○	○	○		○		○
	A4	Malfunction of freezing protection	Shortage of water volume Low water temperature setting Defective water temperature thermistor	○	○	○	○		○	○
	A5	High pressure control in heating, freeze-up protection control in cooling	Clogged air filter of indoor unit and short circuit Defect of indoor unit heat exchanger thermistor	○	○	○	○			
	A6	Malfunction of fan motor	Broken wires in, short circuit of, or disconnection of connectors from the fan motor harness Defective fan motor Defective indoor unit PCB	○	○	○	○	○		
	A7	Malfunction of swing flap motor	Defective swing flap motor Defective indoor unit PCB Defective connection cable Defective airflow direction adjusting flap-cam		○	○				
	A8	Malfunction of power supply or AC input overcurrent	Defective power supply voltage Defective connection on signal line Defective wiring		○	○		○		
	A9	Malfunction of electronic expansion valve	Defective electronic expansion valve coil Defective indoor unit PCB Defective relay cables		○	○	○	○	○	
	AA	Heater overheat	26WH is activated				○		○	
	AF	Malfunction of a humidifier system	Humidifier unit (optional accessory) leaking Defective drain piping (upward slope, etc.) Defective indoor unit PCB		○	○		○		
	AH	Malfunction of dust collector of air cleaner	Defect of dust collecting element Stained insulator part Defect of high voltage power supply unit Defect of indoor unit PCB	○	○	○				○
	AJ	Malfunction of capacity setting (Indoor unit PCB)	The capacity setting adaptor was not installed when replacing PCB. Defective indoor unit PCB		○	○	○			
	C1	Failure of transmission (between indoor unit PCB and sub PCB)	Defective connection of the connector between indoor unit PCB		○	○				
	C4	Malfunction of liquid pipe thermistor for heat exchanger	Defective thermistor for liquid pipe Defective indoor unit PCB Defective connector contact	○	○	○	○	○	○	○
	C5	Malfunction of gas pipe thermistor for heat exchanger	Defective thermistor for gas pipe Defective indoor unit PCB Defective connector contact	○		○	○	○	○	
	C6	Malfunction of fan motor sensor or fan control driver	Defective fan PCB Defective connection of capacity setting adaptor Field setting error		○	○				
	C7	Front panel driving motor fault	Defective front panel driving motor Defective limit switch	○						
	C9	Malfunction of suction air thermistor	Defective thermistor for suction air Defective indoor unit PCB Defective connector contact	○	○	○	○	○		○
	CA	Malfunction of discharge air thermistor	Defective thermistor for discharge air Defective indoor unit PCB Defective connector contact	○		○	○	○		
	CC	Malfunction of humidity sensor system	Defective humidity sensor Defective connector contact	○	○		○			
	CJ	Room temperature thermistor in remote controller abnormality	Defective room temperature thermistor in remote controller Defective remote controller PCB External factor (Noise etc.)	○	○	○	○			○

	Malfunction code	Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Outdoor Unit	E0	Protection devices activated (unified)	Protection device connected to outdoor unit PCB actuated Defective protection device connector contact		○	○			○	
	E1	Defective outdoor unit PCB	Defective outdoor unit PCB Defective connection of inside/ outside relay wires	○	○	○	○		○	
	E3	Actuation of high pressure switch (HPS)	Dirty outdoor unit heat exchanger Defective high pressure switch Clogged refrigerant piping Defective connector contact	○	○	○	○			
	E3	System No.1 Actuation of high pressure switch (HPS)	Dirty outdoor unit heat exchanger Shortage of water volume Clogged refrigerant piping Defective connector contact Defective HPS						○	
	E4	Actuation of low pressure switch (LPS)	Abnormally drop in low pressure Defective low pressure sensor Defective outdoor unit PCB Defective connector contact		○	○	○		○	
	E5	Inverter compressor motor or overheat	Inverter compressor lock High differential pressure Defective inverter PCB UVW connection error Defective connector contact	○	○	○	○		○	
	E6	STD compressor motor overcurrent/lock	Defective compressor Defective control PCB The stop valve is not opened	○	○	○	○			
	E6	System No.1 Compressor overcurrent	Defective electronic expansion valve Shortage of refrigerant amount Defective compressor						○	
	E7	Malfunction of outdoor unit fan motor system	Fan motor failure Neglect to connect or defective connection of harness/ connector between the fan motor and the PCB Fan does not rotate due to foreign matters caught in it	○	○	○	○		○	
	E8	Overcurrent of inverter compressor	Defective compressor Defective inverter main circuit capacitor Defect of outdoor unit PCB Defect of power transistor	○					○	
	E9	Malfunction of electronic expansion valve coil	Disconnection of connectors from electronic expansion valves Defective electronic expansion valve coil Defective outdoor unit control PCB		○	○	○		○	
	EA	Malfunction of four way valve or cool/heat switchin	Defective four way valve Shortage of gas Defective outdoor unit PCB Defective thermistor	○						
	EC	Malfunction of entering water temperature	Cooling water temperature abnormality Defective outdoor unit PCB Defective thermistor			○				
	F3	Malfunction of discharge pipe temperature	Defective discharge pipe thermistor Abnormal discharge pipe temperature Defective outdoor unit control PCB Defective connector contact	○	○	○	○		○	
	F6	Abnormal high pressure or refrigerant overcharged	Refrigerant overcharged Disconnection of heat exchanger deicer thermistor Disconnection of outdoor air thermistor Disconnection of liquid pipe temperature thermistor Defective outdoor unit PCB	○	○	○	○			
	H0	Malfunction of sensor system of compressor	Harness is disconnected, or defective connection Defective PCB	○					○	
	H1	Malfunction of room temperature sensor or humidifier unit damper	Defective limit switch Defective damper	○					○	
	H3	Malfunction of high pressure switch (HPS)	Defective high pressure switch Broken wire Defective outdoor unit PCB Defective connector contact	○	○	○	○		○	
	H4	Malfunction of low pressure switch (LPS)	Defective low pressure switch Broken wire Defective outdoor unit PCB Defective connector contact		○	○			○	

Simple Self-Diagnosis by Malfunction Code

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Outdoor Unit	H5	Malfunction of compressor motor overload thermistor	Defect of compressor motor overload thermistor Defective connector contact	○					○	
	H6	Malfunction of position detection sensor	Faulty contact of compress or cable Defective compressor Defective outdoor unit PCB	○			○		○	
	H7	Malfunction of outdoor unit fan motor signal	Abnormal signal from fan motor (Circuit failure) Disconnection/Short circuit in fan motor leads or disconnection of connector Defective inverter PCB		○	○	○		○	
	H8	Malfunction of compressor input (CT) system	Defective power transistor Defective reactor Faulty wiring of inverter system Defective outdoor unit PCB	○					○	
	H9	Malfunction of outdoor air thermistor	Defective connection of thermistor Defective outdoor unit PCB Defective outdoor air thermistor	○	○	○	○		○	
	HC	Malfunction of (hot) water temperature thermistor	Defective connection of thermistor Defective outdoor unit PCB Defective water temperature thermistor		○	○			○	
	HF	Alarm in thermal storage unit or storage controller	Thermal storage group defective wiring Defective setting Excess of thermal storage tank numbers			○				
	HJ	Malfunction of thermal storage tank water level	Low water level Defective switch setting Water level detecting sensor failure Defective connector contact	○	○	○	○			
	J1	Malfunction of pressure sensor	Defective pressure sensor connector contact Defective pressure sensor Defective outdoor unit PCB		○	○	○		○	
	J2	Malfunction of current sensor of compressor	Defective current sensor Defective compressor Defective outdoor unit PCB	○	○	○	○		○	
	J3	Malfunction of discharge pipe thermistor	Defective connection of thermistor Defective discharge pipe thermistor Defective outdoor unit PCB	○	○	○	○		○	
	J4	Malfunction of low pressure equivalent saturated temperature sensor system	Defective connection of thermistor Defective thermistor Defective outdoor unit PCB			○			○	
	J5	Malfunction of suction pipe thermistor	Defective connection of thermistor Defective suction pipe thermistor Defective outdoor unit PCB		○	○	○		○	
	J6	Malfunction of heat exchanger thermistor	Defective connection of thermistor Defective heat exchanger thermistor Defective outdoor unit PCB	○	○	○	○		○	
	J7	Malfunction of thermistor (Refrigerant circuit)	Defective connection of thermistor Defective liquid pipe thermistor Defective outdoor unit PCB		○	○	○		○	
	J8	Malfunction of thermistor (Refrigerant circuit)	Defective connection of thermistor Defective liquid pipe thermistor Defective outdoor unit PCB	○	○	○	○		○	
	J9	Malfunction of thermistor (Refrigerant circuit)	Defective connection of thermistor Defective gas pipe thermistor Defective outdoor unit PCB	○	○	○	○		○	
	JA	Malfunction of high pressure sensor	Defective connector contact Connection of low pressure sensor in mistake for high pressure sensor Defective high pressure sensor Defective outdoor unit PCB		○	○	○		○	
	JC	Malfunction of low pressure sensor	Defective connector contact Connection of high pressure sensor in mistake for low pressure sensor Defective low pressure sensor Defective outdoor unit PCB		○	○	○		○	

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Outdoor Unit	JE	Malfunction of oil pressure sensor or sub-tank thermistor	Defective connector contact Defective sub-tank thermistor Defective outdoor unit PCB			○				
	JF	Malfunction of oil level sensor or heating heat exchanger thermistor	Defective connector contact Defective heat exchanger thermistor Defective outdoor unit PCB			○				
	L0	Malfunction of inverter system	Shortage of power supply capacity Defective power transistor Defective outdoor unit PCB			○			○	
	L1	Malfunction of inverter PCB	Defective compressor wiring Defective outdoor unit fan motor Blown fuse Defective inverter PCB		○	○	○		○	
	L3	El.compo. box temperature rise	Fin temperature rise due to short circuit Defective outdoor unit fan motor Defective power transistor Defective outdoor unit PCB	○	○	○			○	
	L4	Malfunction of inverter radiation fin temperature rise	Fin temperature rise due to short circuit Defective fin thermistor	○	○	○	○		○	
	L5	nverter instantaneous overcurrent (DC output)	Defective compressor coil (such as wiring disconnection or insulation failure) Compressor startup failure (mechanical lock) Defective inverter PCB	○	○	○	○		○	
	L6	Inverter instantaneous overcurrent (AC output)	Overcharge of refrigerant amount Shortage of power supply capacity Defective compressor Defective inverter unit			○			○	
	L8	Malfunction of overcurrent inverter compressor	Compressor overloaded Wiring disconnection in compressor coil Disconnection of compressor wiring Defective inverter PCB	○	○	○	○		○	
	L9	Malfunction of inverter compressor startup error (Stall prevention)	The stop valve is not opened Defective compressor Error in wire connections to compressor Large differential pressure before compressor startup Defective inverter PCB		○	○	○		○	
	LA	Malfunction of power transistor	Defective power transistor Defective compressor Defective inverter PCB			○			○	
	LC	Malfunction of transmission between control and inverter PCB	Defective connection between the inverter PCB and the control PCB External factors (e.g. noise) Defective inverter compressor Defective control PCB (transmission block)	○	○	○	○		○	
	M1	Malfunction of central remote controller PCB	Defective central remote controller PCB	○	○	○	○			○
	M8	Malfunction of transmission between optional controllers for centralized control	Other centralized control power disconnection Centralized control reset switch ON Defective transmission wiring Central remote controller address change	○	○	○	○			○
	MA	Improper combination of optional controllers for centralized control	Improper combination of optional controllers for centralized control More than one master controller is connected Faulty setting of centralized control Defect of centralized control	○	○	○	○			○
	MC	Address duplication, improper setting	Address duplication of central remote controller	○	○	○	○			○
	P0	Shortage of refrigerant amount (thermal storage unit)	Shortage of refrigerant Clogged refrigerant piping			○			○	
	P1	Power voltage imbalance or inverter PCB	Open phase Interphase voltage imbalance Defective capacitor in the main circuit Defective wiring in the main circuit Defective inverter PCB		○	○	○		○	

Simple Self-Diagnosis by Malfunction Code

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Outdoor Unit	P2	Automatic refrigerant charge operation stop	The stop valve is not opened Closed valve of refrigerant tank		○	○	○		○	
	P3	Malfunction of thermistor in switch box	Defective connection of thermistor Defective reactor thermistor Defective inverter PCB	○	○	○	○		○	
	P4	Malfunction of radiation fin temperature sensor	Defective radiation fin temperature thermistor Defective inverter PCB Defective INV. compressor Defective fan motor	○	○	○	○		○	
	P8	Heat exchanger freezing protection during automatic refrigerant charging	(Close the refrigerant cylinder. Start again from step 1.)		○	○	○			
	P9	Malfunction of fan motor (humidifier unit)	Defective fan motor Defective outdoor unit PCB Broken relay harness Defective connector contact	○						
	P9	Automatic refrigerant charge operation completed	—		○	○	○	○		
	PA	Refrigerant cylinder during automatic refrigerant charging	Refrigerant cylinder of master unit is empty		○	○	○			
	PA	Broken wire of heater (humidifier unit)	Defective heater unit Defective thermistor Defective outdoor unit PCB	○						
	PC	Refrigerant cylinder during automatic refrigerant charging	Refrigerant cylinder of slave unit 2 is empty			○	○			
	PE	Automatic refrigerant charge operation nearly completed	—		○	○	○			
	PH	Refrigerant cylinder during automatic refrigerant charging	Defective heater unit Defective connector contact Defective thermistor Defective outdoor unit PCB	○		○	○			
	PJ	Malfunction of capacity setting (Outdoor unit PCB)	Capacity setting adaptor is not installed Improper capacity setting adaptor Defective outdoor unit PCB		○					
	PJ	Improper combination between inverter and fan driver	Mis-matching of type of PCB Improper (or no) field setting after replacing outdoor unit main PCB		○	○	○		○	
System	U0	Shortage of refrigeran	Refrigerant shortage and refrigerant clogging (wrong piping) Defective thermistor Defective low pressure sensor Defective outdoor unit main PCB	○	○	○	○		○	
	U1	Reverse phase, open phase	Power supply reverse phase T phase open phase Defective outdoor unit PCB (A1P)	○	○	○	○	○	○	○
	U2	Malfunction of power supply or instantaneous power failure	Abnormal power supply voltage Instantaneous power failure Defective main circuit wiring	○	○	○	○		○	○
	U3	Check operation not executed or transmission error	Check operation is not executed.	○	○	○	○	○	○	○
	U4	Malfunction of transmission between indoor and outdoor unit	Short circuit in indoor-outdoor or outdoor-outdoor transmission wiring (F1 / F2), or wrong wiring Outdoor unit power supply is OFF System address does not match Defective indoor unit PCB Defective outdoor unit PCB	○	○	○	○	○	○	○
	U5	Malfunction of transmission between indoor unit and remote controller	Transmission error between indoor unit and remote controller Connection of 2 main remote controllers (when using 2 remote controllers) Defective indoor unit PCB Defective remote controller PCB Transmission error caused by noise	○	○	○	○		○	○
	U6	Malfunction of transmission between indoor units	Faulty wiring External factor (Noise etc.) Defective indoor unit PCB			○	○		○	○

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
System	U7	Malfunction of transmission between outdoor units or outdoor storage unit	Connection error of transmission wirings between outdoor unit and external control adaptor for outdoor unit Connection error of transmission wirings between outdoor units Defective outdoor unit PCB	○		○	○		○	○
	U8	Malfunction of transmission between remote controllers	Transmission error between main and sub remote controller Connection between sub remote controllers Defective remote controller PCB		○	○	○	○	○	○
	U9	Malfunction of transmission (other system)	Transmission error between other indoor and outdoor units Defective electronic expansion valve of other indoor unit Defective indoor unit PCB of other indoor unit Improper connection of transmission wiring between indoor and outdoor unit		○	○	○		○	○
	UA	Defect of indoor/outdoor power supply	Wrong model connections Improper power supply Wrong PCB connected Defective PCB	○						
	UA	Improper combination of indoor and outdoor units	Excess of connected indoor units Defective outdoor unit PCB Mismatch of the refrigerant type of indoor and outdoor unit Setting of outdoor unit PCB was not carried out after replacing to spare PCB		○	○	○		○	
	UA	Remote temperature setting wire disconnection	Remote temperature setting wire disconnection Defective connector contact					○		
	UC	Malfunction of setting of centralized control equipment address	Address duplication of centralized control equipment Defective indoor unit PCB		○	○	○	○	○	○
	UE	Malfunction of transmission between indoor unit and centralized control equipment	Transmission error between optional controllers for centralized control equipment and indoor unit Connector for setting main controller is disconnected.(or disconnection of connector for independent / combined use changeover switch.) Defective PCB for central remote controller Defective indoor unit PCB		○	○	○	○	○	○
	UF	System is not set yet	Improper connection of transmission wiring between indoor-outdoor units and outdoor-outdoor units Failure to execute check operation Defective indoor unit PCB Stop valve is not opened		○	○	○	○		
	UH	Malfunction of system	Improper connection of transmission wiring between indoor-outdoor units and outdoor-outdoor units Defective indoor unit PCB Defective outdoor unit PCB	○		○	○			
	UJ	Malfunction of transmission (accessory device)	Defect of accessory devices Faulty wiring	○	○	○	○		○	
Others	60	External protection device activated (Heat reclaim ventilator)	Actuation of external protection device Defective output signal wiring Defective control PCB					○		
	64	Malfunction of indoor air thermistor (Heat reclaim ventilator)	Defective connector contact Defective indoor air thermistor Defective control PCB					○		
	65	Malfunction of outdoor air thermistor (Heat reclaim ventilator)	Defective connector contact Defective outdoor air thermistor Defective control PCB					○		
	6A	Malfunction of damper system (Heat reclaim ventilator)	Defective connector contact Defective limit switch Defective damper motor Defective control PCB					○		
	70	System No. 2 Compressor overheat	Shortage of refrigerant amount Defective connector contact Leakage of four way valve						○	
	71	System No. 2 Compressor overcurrent	Shortage of refrigerant amount Short circuit Defective compressor						○	

Simple Self-Diagnosis by Malfunction Code

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Others	72	System No. 2 Fan motor overcurrent	Defective fan motor connector contact Defective fan motor Defective PCB						○	
	73	System No. 2 Actuation of high pressure switch (HPS)	Dirty heat exchanger Shortage of water volume Clogged refrigerant piping Defective connector contact Defective HPS						○	
	74	System No. 2 Actuation of low pressure switch (LPS)	Clogged refrigerant piping Defective connector contact Shortage of gas Defective LPS						○	
	75	System No. 2 Malfunction of low pressure sensor	Defective connector contact Defective low pressure sensor Defective PCB						○	
	76	System No. 2 Malfunction of high pressure sensor	Defective connector contact Defective high pressure sensor Defective PCB						○	
	77	System No. 1 Malfunction of fan inter lock	Defective relay contact Broken wire						○	
	78	System No. 2 Malfunction of fan inter lock	Defective relay contact Broken wire						○	
	7A	System No. 2 Malfunction of compressor current sensor	Defective current sensor Defective compressor Defective outdoor unit PCB						○	
	7C	System No. 2 Malfunction of pump inter lock	Cooling water pump interlock actuated						○	
	80	Malfunction of entering water temperature thermistor	Defective connector contact Defective entering water temperature thermistor						○	
	81	Malfunction of leaving water temperature thermistor or drain pipe heater	Defective connector contact Defective leaving water temperature thermistor						○	
	82	System No. 1 Malfunction of refrigerant thermistor	Defective connector contact Defective refrigerant thermistor						○	
	83	System No. 2 Malfunction of refrigerant thermistor	Defective connector contact Defective refrigerant thermistor						○	
	84	System No. 1 Malfunction of heat exchanger thermistor	Defective connector contact Defective heat exchanger thermistor						○	
	85	System No. 2 Malfunction of heat exchanger thermistor	Defective connector contact Defective heat exchanger thermistor						○	
	86	System No. 1 Malfunction of discharge pipe thermistor	Defective connecting connector Defective discharge pipe thermistor						○	
	88	System No. 2 Malfunction of discharge pipe temperature	Shortage of gas Defective discharge pipe thermistor Defective connector contact Clogged refrigerant piping						○	
	89	Malfunction of brazed-plate heat exchanger freezing	Dirty heat exchanger Shortage of refrigerant amount Defective thermistor						○	
	8A	System No. 2 Malfunction of leaving water temperature thermistor	Defective connector contact Defective leaving water temperature thermistor						○	
	8E	System No. 1 Malfunction of suction pipe thermistor 1 for heating	Defective connector contact Defective suction pipe thermistor						○	
	8F	System No. 1 Malfunction of suction pipe thermistor 2 for heating	Defective connector contact Defective suction pipe thermistor						○	

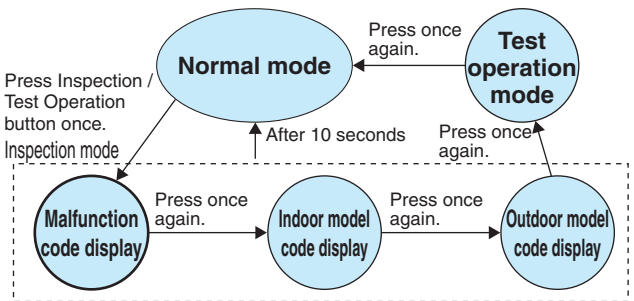
Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Others	8H	Abnormal hot water high temperature	Three way valve malfunction Defective thermistor Defect of water temperature setting						○	
	90	Abnormal chilled water quantity or abnormal AXP	Shortage of water volume Disconnection of AXP						○	
	91	System No. 2 Malfunction of electronic expansion valve	Defective connector contact Defective electronic expansion valve coil						○	
	92	System No. 2 Malfunction of suction pipe thermistor	Defective connector contact Defective suction pipe thermistor						○	
	94	Malfunction of transmission (between heat reclaim ventilator and fan unit)	Defective fan unit PCB Defective connecting wire between (1) and (2)					○		
	95	System No. 1 Malfunction of inverter system	Defective fan inverter unit						○	
	96	System No. 2 Malfunction of inverter system	Defective fan inverter unit						○	
	97	Malfunction of thermal storage unit	Defective thermal storage unit						○	
	98	Malfunction of thermal storage brine pump	Actuation of thermal storage brine pump overcurrent (OC)						○	
	99	Malfunction of thermal storage brine tank	Low water level of thermal storage brine tank						○	

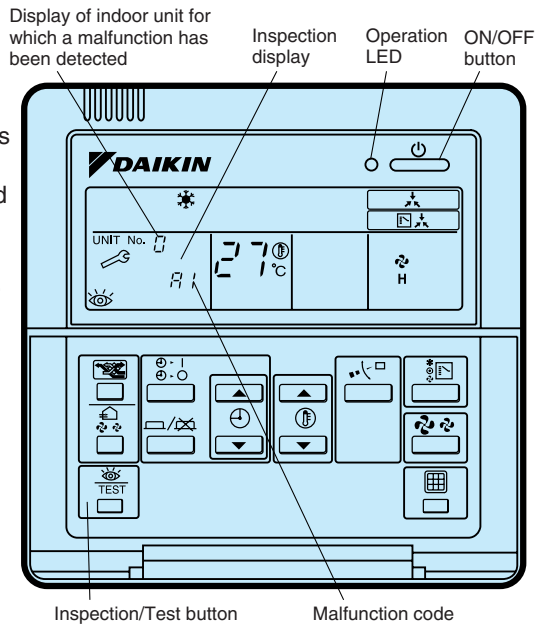
Self-Diagnosis by Remote Controller (SkyAir, *VRV*)

<Wired Remote Controller>

In case of BRC1C62

1. If operation stops due to malfunction, the remote controller's operation LED blinks, and a malfunction code is displayed.
2. Even if operation stops, malfunction contents are displayed when the inspection mode is entered.
   * While in check mode, hold the ON/OFF button for four seconds or more, the malfunction history will be cleared. (The malfunction code will blink, and the operation mode will switch from check mode to normal mode.)

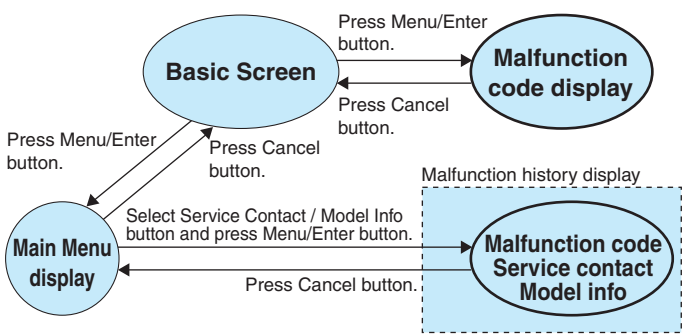


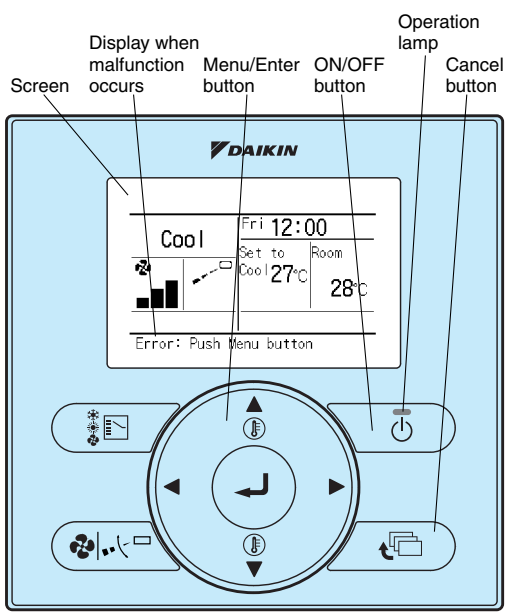


* Location of buttons varies by model type.

In case of BRC1E62

1. If operation stops due to malfunction, the remote controller's operation indicator blinks. The massage "Error: Press Menu Button" will appear at the bottom of the screen.
2. Press Menu/Enter button, and malfunction code will be displayed.
   * Press Menu/Enter button, and malfunction history will be displayed in Main Menu mode.





* While in malfunction code display mode on the left, press ON/OFF button for four seconds or more, the malfunction history will be cleared.

<Wireless Remote Controller>

◆ If operation stops due to a malfunction, the operation indicating LED on the light reception section flashes.
◆ The malfunction code can be displayed by following the procedure.

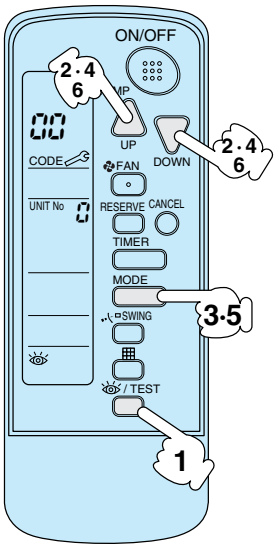
1. Press the INSPECTION/TEST button to select "Inspection."
   The equipment enters the inspection mode. The "Unit" indication lights and the Unit No. display shows a flashing "0" indication.
2. Set the Unit No.
   Press the UP or DOWN button and change the Unit No. display until the buzzer (*1) is generated from the indoor unit.
   *1 Number of beeps
   3 short beeps : Conduct all of the following operations.
   1 short beep : Conduct steps 3 and 4.
   Continue the operation in step 4 until a buzzer remains ON. The continuous buzzer indicates that the malfunction code is confirmed.
   Continuous beep : No abnormality.
3. Press the MODE selector button.
   The left "0" (upper digit) indication of the malfunction code flashes.
4. Malfunction code upper digit diagnosis
   Press the UP or DOWN button and change the malfunction code upper digit until the malfunction code matching buzzer (*2) is generated.
   ■ The upper digit of the code changes as shown below when the UP and DOWN buttons are pressed.

⇨ "Advance" button ⇦ "Backward" button

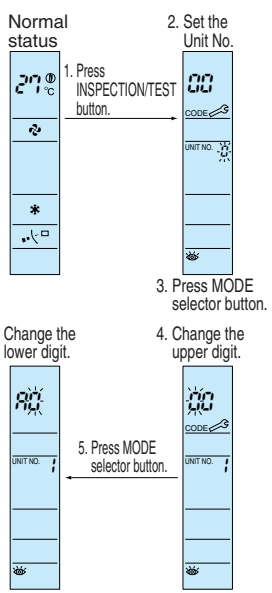
*2 Number of beeps
Continuous beep : Both upper and lower digits matched. (Malfunction code confirmed.)
2 short beeps : Upper digit matched.
1 short beep : Lower digit matched.

5. Press the MODE selector button.
   The right "0" (lower digit) indication of the malfunction code flashes.
6. Malfunction code lower digit diagnosis
   Press the UP or DOWN button and change the malfunction code lower digit until the continuous malfunction code matching buzzer (*2) is generated.
   ■ The lower digit of the code changes as shown below when the UP and DOWN buttons are pressed.

⇨ "Advance" button ⇦ "Backward" button



* Location of buttons varies by the model type.

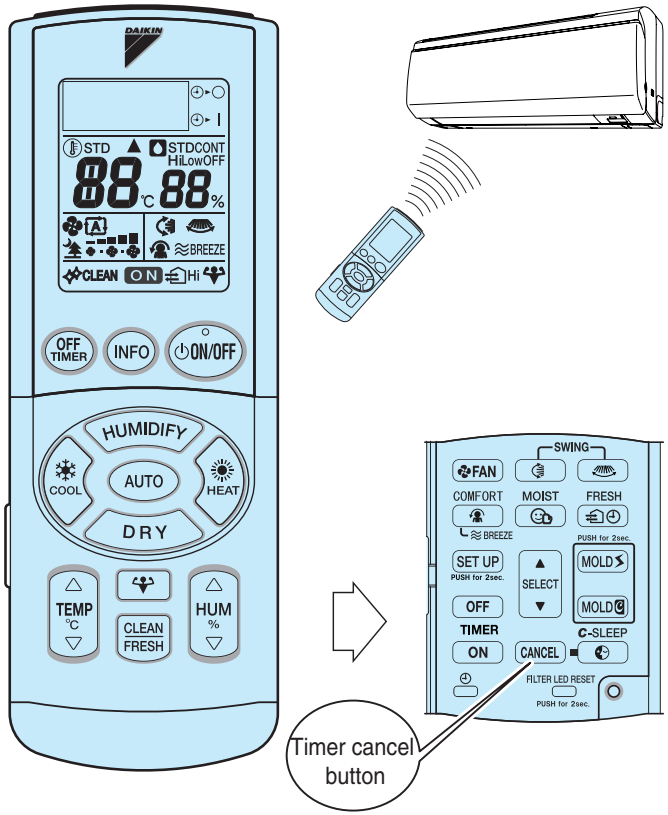


Self-Diagnosis by Remote Controller (Residential Air-conditioner)

In case of ARC447A

[Check Method]

With the wireless remote controller supplied with the unit, or sold separately, malfunction codes by failure diagnosis can be confirmed. (hold the timer cancel button down for 5 seconds.)



1. Hold the timer cancel button down for 5 seconds, with the remote controller set toward the indoor unit.
2. The temperature display on the remote controller changes to the error code display and a long beep notifies this indication change.

Note:

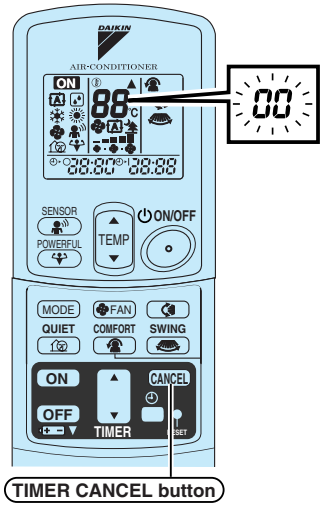
To cancel indication of malfunction code, hold the timer cancel button down for 5 seconds.
The code display also cancels itself if the button is not pressed for 1 minute.

In case of ARC455A, ARC452A, ARC433B, ARC423A, ARC417A

[Check Method 1]

1. When the timer cancel button is held down for 5 seconds, a "00" indication flashes on the temperature display section.

2. Press the timer cancel button repeatedly until a continuous beep is generated
   - The code indication changes in the sequence shown below, and notifies with a long beep.



<In case of ARC433B67, 68, 69, 76>

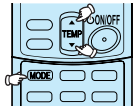
No.	Code	No.	Code	No.	Code
1	00	12	C7	23	H0
2	U4	13	H8	24	E1
3	F3	14	J3	25	P4
4	E6	15	A3	26	L3
5	L5	16	A1	27	L4
6	A6	17	C4	28	H6
7	E5	18	C5	29	H7
8	F6	19	H3	30	U2
9	C9	20	J6	31	UH
10	U0	21	UR	32	ER
11	E7	22	A5	33	AH

Note:

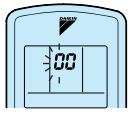
1. A short beep and two consecutive beeps indicate non-corresponding codes.
2. To cancel the code display, hold the timer cancel button down for 5 seconds. The code display also cancels itself if the button is not pressed for 1 minute.

[Check Method 2]

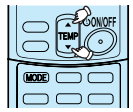
1. Press the 3 buttons (TEMP▲, TEMP▼, MODE) simultaneously to enter the diagnosis mode.



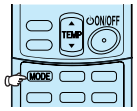
The figure of the ten's place blinks.
★ Try again from the start when the figure does not blink.



2. Press TEMP▲or▼button and change the figure until you hear the sound of "beep" or "pi pi".

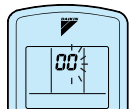


3. Diagnose by the sound.
   - ★ "1 short beep" : The figure of the ten's place does not accord with the malfunction code.
   - ★ "2 short beep" : The figure of the ten's place accords with the error code but the one's not.
   - ★ "1 long beep" : The both figures of the ten's and one's place accord with the malfunction code.

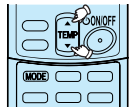


4. Press the MODE button.

   The figure of the one's place blinks.

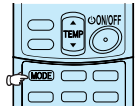


5. Press the TEMP button.
   Press TEMP▲or▼button and change the figure until you hear the sound of "long beep".



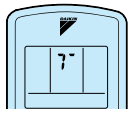
6. Diagnose by the sound.
   - ★ "1 short beep" : The figure of the ten's place does not accord with the malfunction code.
   - ★ "2 short beep" : The figure of the ten's place accords with the error code but the one's not.
   - ★ "1 long beep" : The both figures of the ten's and one's place accord with the error code.

7. Determine the malfunction code.
   The digits indicated when you hear the "long beep" sound are error code.

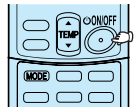


8. Press the MODE button to exit from the diagnosis mode.

   The display "7-" means the trial operation mode.



9. Press the ON/OFF button twice to return to the normal mode.



Note:

When the remote controller is left untouched for 60 seconds, it returns to the normal mode.

Section 4

Manufacturers Literature

In the following pages please see manufacturers information from Daikin and Fantech

Office: 2/30 Access Crescent, Coolum Beach, QLD 4573
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Email: admin@portcityairconditioning.com.au
Phone: 1300 PORT CITY / 07 4972 3355 **Fax:** 07 4972 1791

After Hours Emergency Phone: 0439 665 398
Website: http://www.portcitygroup.com.au/

ABN: 99 717 077 615 / QBCC: 1184073 / ARCTICK: AU12994 / ELEC: 73329

EDBFAU392101
202102

DAIKIN

Engineering Data

FXDQ-TV1C(A)

50 Hz

R-410A

VRV

FXDQ-TV1C(A)
Slim Ceiling Mounted Duct Type (Compact Series)
50 Hz

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1. Lineup

Capacity range	2.2 kW	2.8 kW	3.6 kW	4.5 kW	5.6 kW	7.1 kW
Capacity index	20	25	31.25	40	50	62.5
FXDQ	20TV1C	25TV1C	32TV1C	40TV1C	50TV1C	63TV1C
	20TV1CA	25TV1CA	32TV1CA	40TV1CA	50TV1CA	63TV1CA

Note:

V1B : 1 phase, 220-240 V, 50 Hz
V1BA : 1 phase, 220-240 V, 50 Hz

FXDQ-TV1C : Standard Model
FXDQ-TV1CA : With Multi Tenancy Kit Model

2. Specifications

Model				FXDQ20TV1C FXDQ20TV1CA	FXDQ25TV1C FXDQ25TV1CA
Power supply				1 phase, 220-240 V, 50 Hz	1 phase, 220-240 V, 50 Hz
★1 ★3 Cooling capacity			kcal/h	1,900	2,400
			Btu/h	7,500	9,600
			kW	2.2	2.8
★2 ★3 Heating capacity			kcal/h	2,200	2,800
			Btu/h	8,500	10,900
			kW	2.5	3.2
Power input	Cooling	TV1C	kW	0.030	0.037
		TV1CA		0.0305	0.0375
	Heating	TV1C	kW	0.025	0.032
		TV1CA		0.0255	0.0325
Casing				Galvanized steel plate	Galvanized steel plate
Dimensions: (H×W×D)			mm	200×700×450	200×700×450
Fan	Type			Sirocco fan	Sirocco fan
	Motor output × Number of units		W	78×1	78×1
	Airflow rate		m^3/min	8.1	9.0
			l/s	135	150
			cfm	286	318
	★4 External static pressure		Pa	40-10	40-10
	Drive			Direct drive	Direct drive
	Airflow adjustment			5 step	5 step
	★4 External static pressure adjustment			3 step	3 step
★5 ★6 ★7 Sound pressure level (HH/H/L)			dB(A)	32/30/28	33/30.5/28
Temperature control				Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Air filter				Removable / Washable / Mildew proof	Removable / Washable / Mildew proof
Drain pump				DC	DC
Weight			kg	18	18
Piping connections	Liquid pipes		mm	ϕ6.4 (Flare connection)	ϕ6.4 (Flare connection)
	Gas pipes		mm	ϕ12.7 (Flare connection)	ϕ12.7 (Flare connection)
	Drain pipe		mm	PVC26 (External dia. 26, Internal dia. 20)	PVC26 (External dia. 26, Internal dia. 20)
Safety devices				Fuse, Thermal protector for fan motor	Fuse, Thermal protector for fan motor
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Standard accessories				Operation manual, Installation manual	Operation manual, Installation manual
Drawing No.	Specification			C: 3D117654	C: 3D117654
	Sound level			C: 4D115188A	C: 4D115189A

Notes:

★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 5 m, level difference: 0 m.
★2. Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 5 m, level difference: 0 m.
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★4. External static pressure is changeable to set by the remote controller. This pressure means “High static pressure - Standard static pressure”. (Factory setting is 10 Pa.)
★5. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
★6. Values are based on the external static pressure of 10 Pa.
★7. The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Conversion formulae
kcal/h=kW×860 Btu/h=kW×3412 cfm=m^3/min×35.3 l/s=m^3/min×1000/60

Model				FXDQ32TV1C FXDQ32TV1CA	FXDQ40TV1C FXDQ40TV1CA
Power supply				1 phase, 220-240 V, 50 Hz	1 phase, 220-240 V, 50 Hz
★1 ★3 Cooling capacity			kcal/h	3,100	3,900
			Btu/h	12,300	15,400
			kW	3.6	4.5
★2 ★3 Heating capacity			kcal/h	3,400	4,300
			Btu/h	13,600	17,100
			kW	4.0	5.0
Power input	Cooling	TV1C	kW	0.037	0.050
		TV1CA		0.0375	0.0505
	Heating	TV1C	kW	0.032	0.045
		TV1CA		0.0325	0.0455
Casing				Galvanized steel plate	Galvanized steel plate
Dimensions: (H×W×D)			mm	200×700×450	200×900×450
Fan	Type			Sirocco fan	Sirocco fan
	Motor output × Number of units		W	78×1	93×1
	Airflow rate		m^3/min	9.0	12.6
			l/s	150	210
			cfm	318	445
	★4 External static pressure		Pa	50-10	60-10
	Drive			Direct drive	Direct drive
	Airflow adjustment			5 step	5 step
	★4 External static pressure adjustment			3 step	3 step
★5 ★6 ★7 Sound pressure level (HH/H/L)			dB(A)	33/30.5/28	34/31.5/29
Temperature control				Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Air filter				Removable / Washable / Mildew proof	Removable / Washable / Mildew proof
Drain pump				DC	DC
Weight			kg	18	21
Piping connections	Liquid pipes		mm	ϕ6.4 (Flare connection)	ϕ6.4 (Flare connection)
	Gas pipes		mm	ϕ12.7 (Flare connection)	ϕ12.7 (Flare connection)
	Drain pipe		mm	PVC26 (External dia. 26, Internal dia. 20)	PVC26 (External dia. 26, Internal dia. 20)
Safety devices				Fuse, Thermal protector for fan motor	Fuse, Thermal protector for fan motor
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Standard accessories				Operation manual, Installation manual	Operation manual, Installation manual
Drawing No.	Specification			C: 3D117654	C: 3D117654
	Sound level			C: 4D115190A	C: 4D115191A

Notes:

★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 5 m, level difference: 0 m.
★2. Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 5 m, level difference: 0 m.
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★4. External static pressure is changeable to set by the remote controller. This pressure means “High static pressure - Standard static pressure”. (Factory setting is 10 Pa.)
★5. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
★6. Values are based on the external static pressure of 10 Pa.
★7. The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Conversion formulae
kcal/h=kW×860 Btu/h=kW×3412 cfm=m^3/min×35.3 l/s=m^3/min×1000/60

Model				FXDQ50TV1C FXDQ50TV1CA	FXDQ63TV1C FXDQ63TV1CA
Power supply				1 phase, 220-240 V, 50 Hz	1 phase, 220-240 V, 50 Hz
★1 ★3 Cooling capacity			kcal/h	4,800	6,100
			Btu/h	19,100	24,200
			kW	5.6	7.1
★2 ★3 Heating capacity			kcal/h	5,400	6,900
			Btu/h	21,500	27,300
			kW	6.3	8.0
Power input	Cooling	TV1C	kW	0.075	0.075
		TV1CA		0.0755	0.0755
	Heating	TV1C	kW	0.070	0.070
		TV1CA		0.0705	0.0705
Casing				Galvanized steel plate	Galvanized steel plate
Dimensions: (H×W×D)			mm	200×900×450	200×1,100×450
Fan	Type			Sirocco fan	Sirocco fan
	Motor output × Number of units		W	93×1	93×1
	Airflow rate		m^3/min	15.0	19.5
			l/s	250	325
			cfm	530	688
	★4 External static pressure		Pa	45-10	45-10
	Drive			Direct drive	Direct drive
	Airflow adjustment			5 step	5 step
	★4 External static pressure adjustment			3 step	3 step
★5 ★6 ★7 Sound pressure level (HH/H/L)			dB(A)	35/32.5/30	37/35/33
Temperature control				Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Air filter				Removable / Washable / Mildew proof	Removable / Washable / Mildew proof
Drain pump				DC	DC
Weight			kg	21	24
Piping connections	Liquid pipes		mm	ϕ6.4 (Flare connection)	ϕ9.5 (Flare connection)
	Gas pipes		mm	ϕ12.7 (Flare connection)	ϕ15.9 (Flare connection)
	Drain pipe		mm	PVC26 (External dia. 26, Internal dia. 20)	PVC26 (External dia. 26, Internal dia. 20)
Safety devices				Fuse, Thermal protector for fan motor	Fuse, Thermal protector for fan motor
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Standard accessories				Operation manual, Installation manual	Operation manual, Installation manual
Drawing No.	Specification			C: 3D117654	C: 3D117654
	Sound level			C: 4D115192A	C: 4D115193A

Notes:

★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 5 m, level difference: 0 m.
★2. Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 5 m, level difference: 0 m.
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★4. External static pressure is changeable to set by the remote controller. This pressure means “High static pressure - Standard static pressure”. (Factory setting is 10 Pa.)
★5. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
★6. Values are based on the external static pressure of 10 Pa.
★7. The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Conversion formulae
kcal/h=kW×860 Btu/h=kW×3412 cfm=m^3/min×35.3 l/s=m^3/min×1000/60

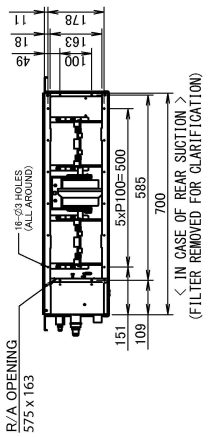
3. Dimensions

FXDQ20TV1C / FXDQ25TV1C / FXDQ32TV1C
FXDQ20TV1CA / FXDQ25TV1CA / FXDQ32TV1CA

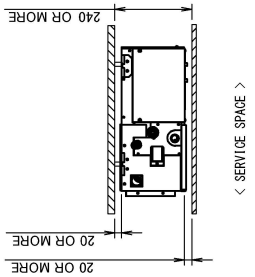
Unit: mm

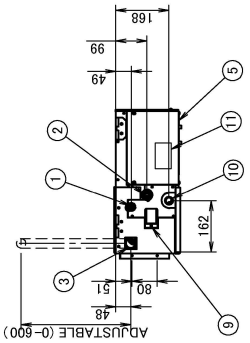
C: 3D117660

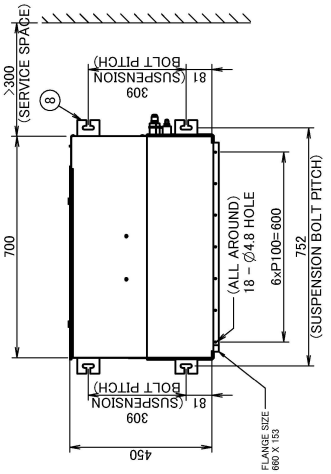
NUMBER	NAME	DESCRIPTION
1	LIQUID PIPE CONNECTION	Ø 6.4 (FLARE CONNECTION)
2	GAS PIPE CONNECTION	Ø 12.7 (FLARE CONNECTION)
3	DRAIN PIPE CONNECTION	PVC26 (O.D. Ø26 / I.D. Ø20)
4	DRAIN HOSE (ACCESSORY)	I.D. Ø 25 (OUTLET)
5	CONTROL BOX	
6	TRANSMISSION WIRING CONNECTION	
7	POWER SUPPLY CONNECTION	
8	SUSPENSION BRACKET	
9	INSPECTION DOOR	
10	SOCKET FOR DRAIN	
11	NAME PLATE	

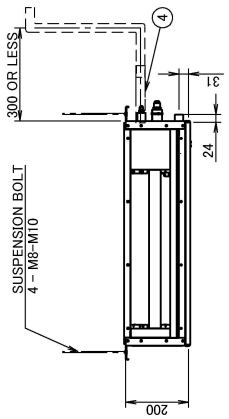


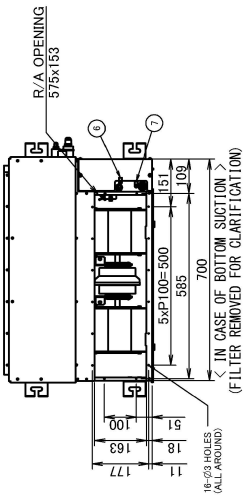
Notes:
1. In case of rear suction, mount cover plate to the bottom of the unit.
   In case of bottom suction, mount cover plate to the back of the unit.
2. When installing optional accessories, refer to the installation drawings supplied with the accessories.
3. Service space is the minimum recommended distance. In some restricted space installations, it may be necessary to reduce the distance. Please note that this may necessitate additional service work should maintenance or repair be required.







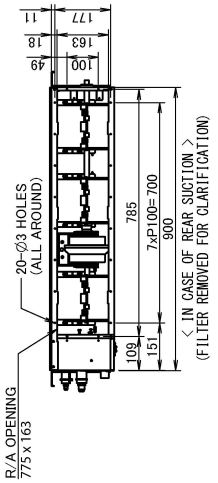




FXDQ40TV1C / FXDQ50TV1C
FXDQ40TV1CA / FXDQ50TV1CA

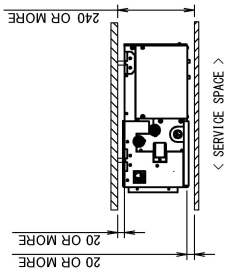
Unit: mm

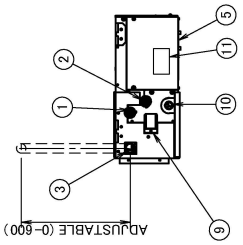
NUMBER	NAME	DESCRIPTION
1	LIQUID PIPE CONNECTION	Ø 6.4 (FLARE CONNECTION)
2	GAS PIPE CONNECTION	Ø 12.7 (FLARE CONNECTION)
3	DRAIN PIPE CONNECTION	PVC26 (O.D. Ø26 / I.D. Ø20)
4	DRAIN HOSE (ACCESSORY)	I.D. Ø 25 (OUTLET)
5	CONTROL BOX	
6	TRANSMISSION WIRING CONNECTION	
7	POWER SUPPLY CONNECTION	
8	SUSPENSION BRACKET	
9	INSPECTION DOOR	
10	SOCKET FOR DRAIN	
11	NAME PLATE	

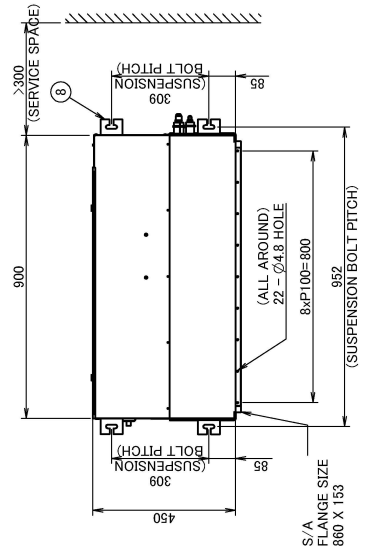


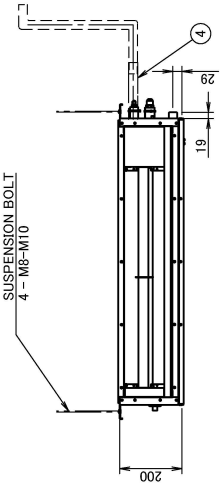
Notes:
1. In case of rear suction, mount cover plate to the bottom of the unit.
   In case of bottom suction, mount cover plate to the back of the unit.
2. When installing optional accessories, refer to the installation drawings supplied with the accessories.
3. Service space is the minimum recommended distance. In some restricted space installations, it may be necessary to reduce the distance. Please note that this may necessitate additional service work should maintenance or repair be required.

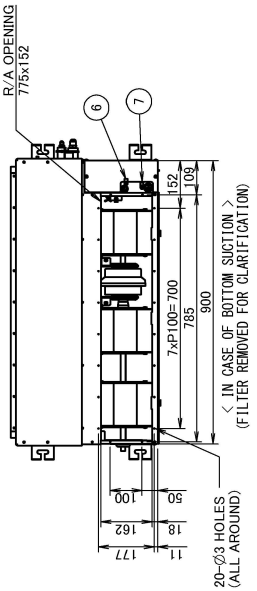
3D117666









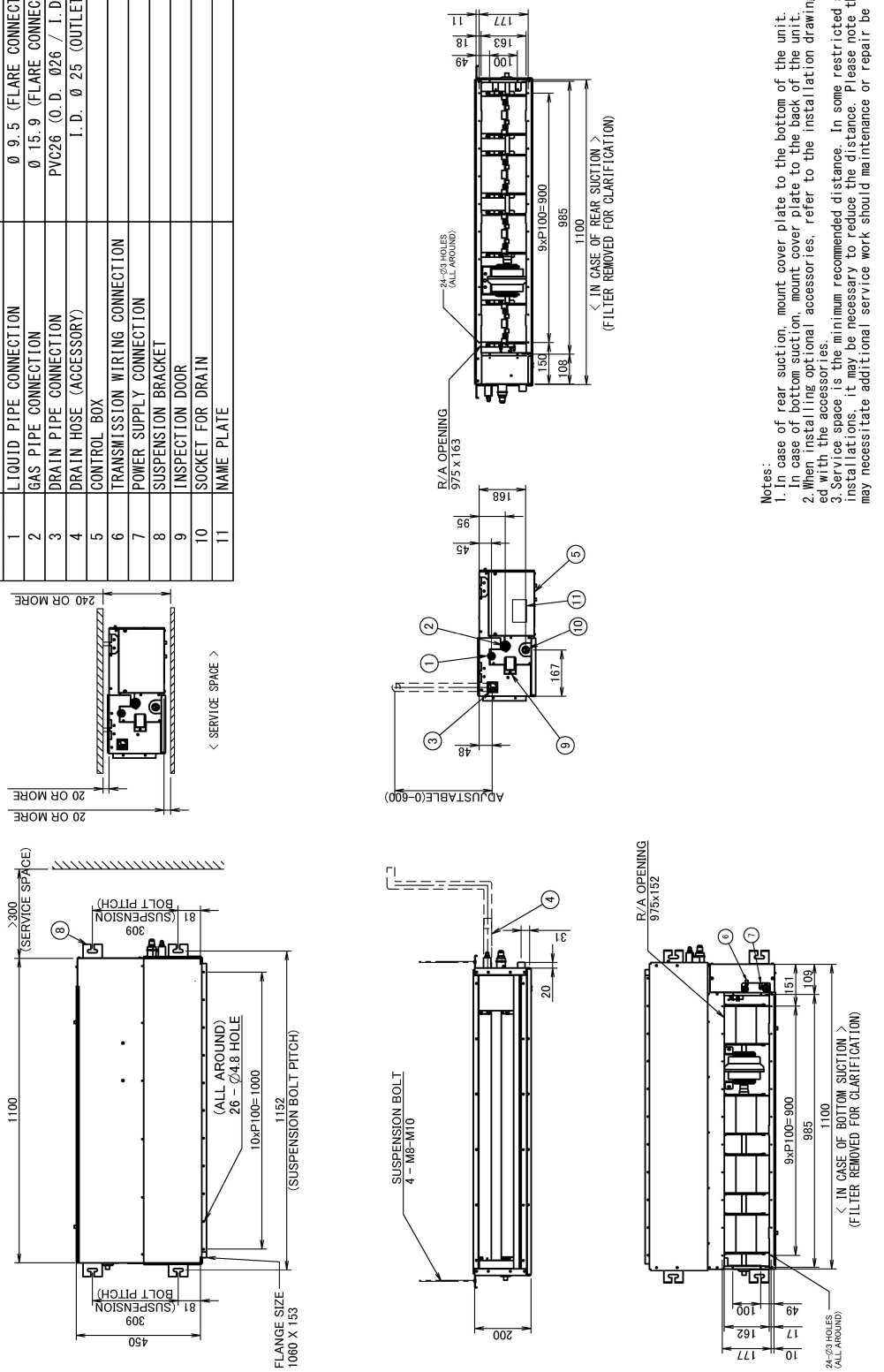


FXDQ63TV1C
FXDQ63TV1CA

Unit: mm

3D117678

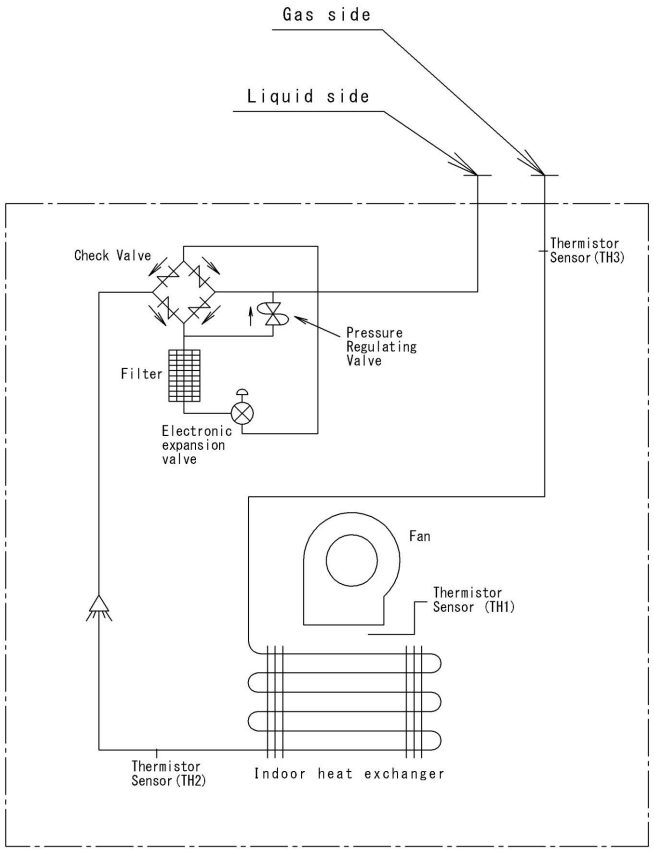
NUMBER	NAME	DESCRIPTION
1	LIQUID PIPE CONNECTION	Ø 9.5 (FLARE CONNECTION)
2	GAS PIPE CONNECTION	Ø 15.9 (FLARE CONNECTION)
3	DRAIN PIPE CONNECTION	PVC26 (O.D. Ø26 / I.D. Ø20)
4	DRAIN HOSE (ACCESSORY)	I.D. Ø 25 (OUTLET)
5	CONTROL BOX	
6	TRANSMISSION WIRING CONNECTION	
7	POWER SUPPLY CONNECTION	
8	SUSPENSION BRACKET	
9	INSPECTION DOOR	
10	SOCKET FOR DRAIN	
11	NAME PLATE	



Notes:
1. In case of rear suction, mount cover plate to the bottom of the unit.
   In case of bottom suction, mount cover plate to the back of the unit.
2. When installing optional accessories, refer to the installation drawings supplied with the accessories.
3. Service space is the minimum recommended distance. In some restricted space installations, it may be necessary to reduce the distance. Please note that this may necessitate additional service work should maintenance or repair be required.

4. Piping Diagrams

FXDQ20TV1C / FXDQ25TV1C / FXDQ32TV1C / FXDQ40TV1C / FXDQ50TV1C / FXDQ63TV1C FXDQ20TV1CA / FXDQ25TV1CA / FXDQ32TV1CA / FXDQ40TV1CA / FXDQ50TV1CA / FXDQ63TV1CA



4D132442

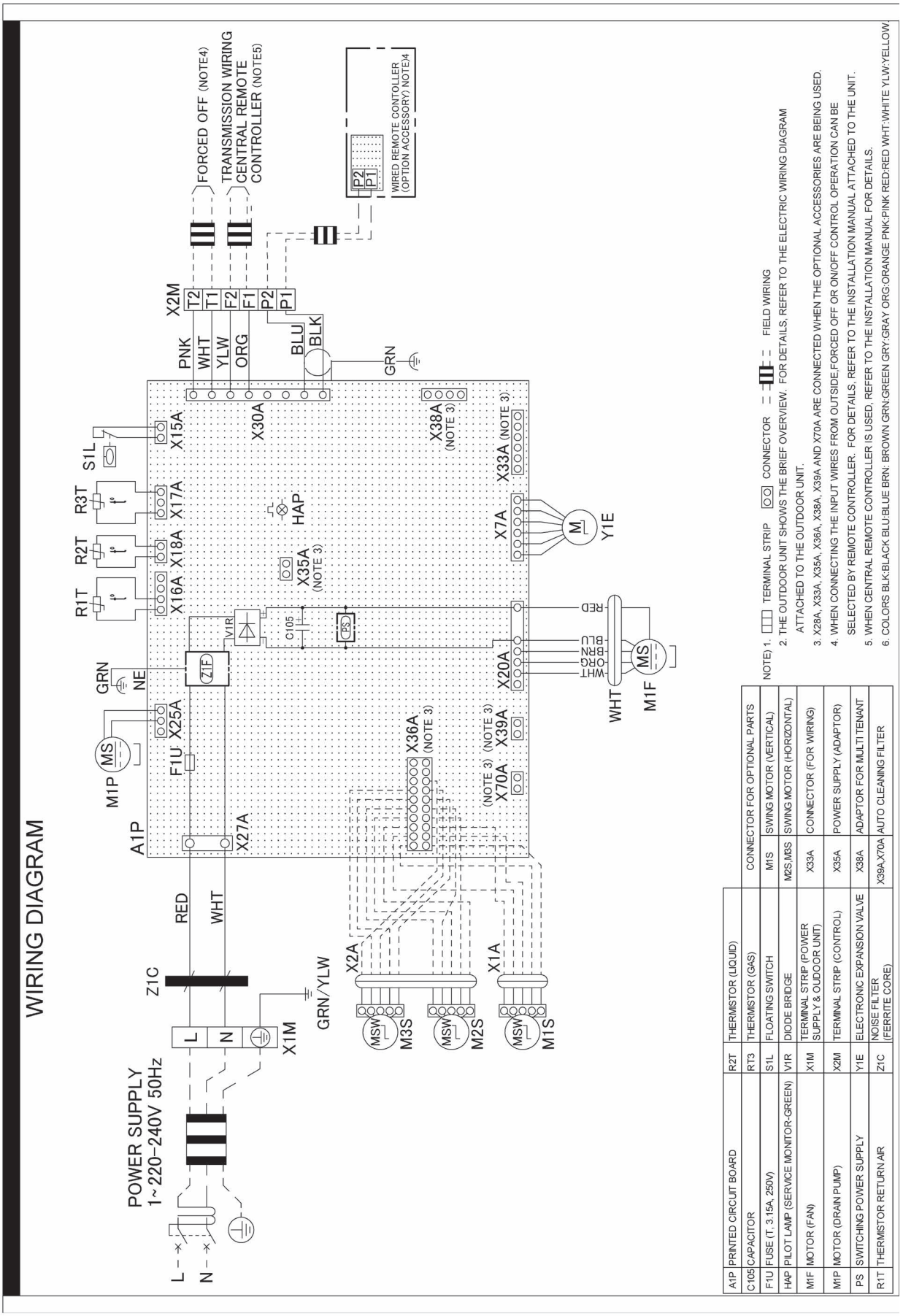
■ **Refrigerant pipe connection port diameters**

Unit: mm

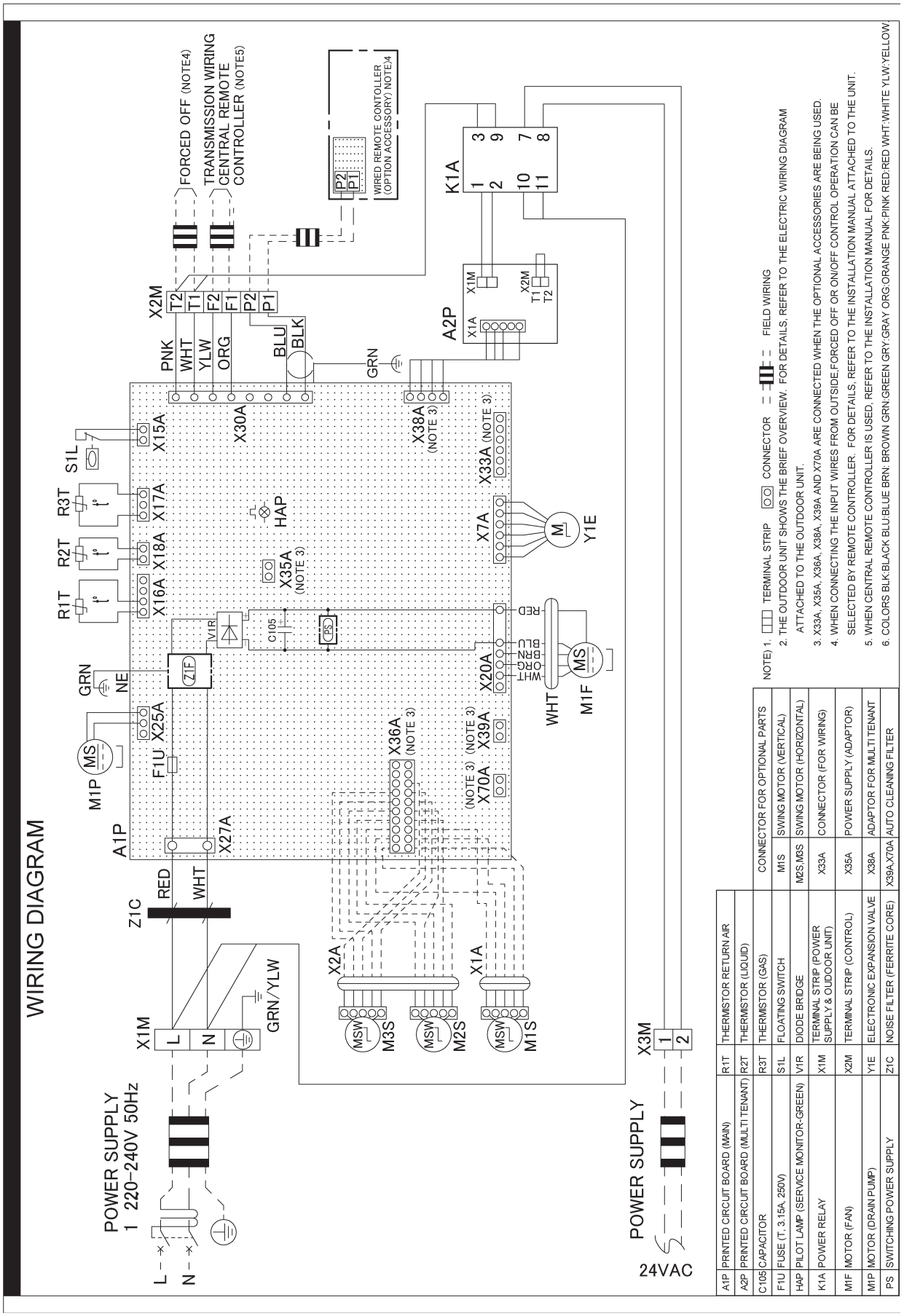
Model	Gas	Liquid
FXDQ20TV1C / FXDQ25TV1C / FXDQ32TV1C / FXDQ40TV1C / FXDQ50TV1C FXDQ20TV1CA / FXDQ25TV1CA / FXDQ32TV1CA / FXDQ40TV1CA / FXDQ50TV1CA	ϕ12.7	ϕ6.4
FXDQ63TV1C FXDQ63TV1CA	ϕ15.9	ϕ9.5

5. Wiring Diagrams

FXDQ20TV1C / FXDQ25TV1C / FXDQ32TV1C / FXDQ40TV1C / FXDQ50TV1C / FXDQ63TV1C



FXDQ20TV1CA / FXDQ25TV1CA / FXDQ32TV1CA / FXDQ40TV1CA / FXDQ50TV1CA / FXDQ63TV1CA



3P529518B

6. Electric Characteristics

FXDQ20TV1C / FXDQ25TV1C / FXDQ32TV1C / FXDQ40TV1C / FXDQ50TV1C / FXDQ63TV1C

MODEL	POWER SUPPLY					IFM		INPUT(W)	
	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	COOLING	HEATING
FXDQ20TV1C	50	220-240V	MAX. 264V MIN. 198V	0.6	15	0.078	0.5	30	25
FXDQ25TV1C				0.8	15	0.078	0.6	37	32
FXDQ32TV1C				0.9	15	0.078	0.7	37	32
FXDQ40TV1C				1.9	15	0.093	1.5	50	45
FXDQ50TV1C				2.1	15	0.093	1.7	75	70
FXDQ63TV1C				1.8	15	0.093	1.4	75	70

Symbols:

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (See note 4). (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps. (A)
kW : Fan Motor Rated Output. (kW)

Note:

1. Voltage range:
   Units are suitable for use on electrical systmes where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA/MFA
   MCA = 1.25 X FLA
   MFA ≤ 4 X FLA
   (Next lower standard fuse rating. Min. 15A).
4. Select wire size based on the MCA.
5. Instead of fuse, use circuit breaker.

FXDQ20TV1CA / FXDQ25TV1CA / FXDQ32TV1CA / FXDQ40TV1CA / FXDQ50TV1CA / FXDQ63TV1CA

MODEL	POWER SUPPLY					IFM		INPUT(W)	
	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	COOLING	HEATING
FXDQ20TV1CA	50	220-240V	MAX. 264V MIN. 198V	0.6	15	0.078	0.5	30.5	25.5
FXDQ25TV1CA				0.8	15	0.078	0.6	37.5	32.5
FXDQ32TV1CA				0.9	15	0.078	0.7	37.5	32.5
FXDQ40TV1CA				1.9	15	0.093	1.5	50.5	45.5
FXDQ50TV1CA				2.1	15	0.093	1.7	75.5	70.5
FXDQ63TV1CA				1.8	15	0.093	1.4	75.5	70.5

Symbols:

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (See note 4). (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps. (A)
kW : Fan Motor Rated Output. (kW)

Note:

1. Voltage range:
   Units are suitable for use on electrical systmes where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA/MFA
   MCA = 1.25 X FLA
   MFA ≤ 4 X FLA
   (Next lower standard fuse rating. Min. 15A).
4. Select wire size based on the MCA.
5. Instead of fuse, use circuit breaker.

7. Safety Devices Setting

Model		FXDQ20TV1C	FXDQ25TV1C	FXDQ32TV1C
Printed circuit board fuse	A1P	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Fan motor temperature protection	°C	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}

Model		FXDQ40TV1C	FXDQ50TV1C	FXDQ63TV1C
Printed circuit board fuse	A1P	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Fan motor temperature protection	°C	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}

C: 4D115160A

Model		FXDQ20TV1CA	FXDQ25TV1CA	FXDQ32TV1CA
Main printed circuit board fuse	A1P	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Multitenant printed circuit board fuse	A2P			
Fan motor temperature protection	°C	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}

Model		FXDQ40TV1CA	FXDQ50TV1CA	FXDQ63TV1CA
Main printed circuit board fuse	A1P	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Multitenant printed circuit board fuse	A2P			
Fan motor temperature protection	°C	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}	OFF: 100^{+15}_{-10} ON : 95^{+15}_{-10}

C: 4D117785

8. Capacity Tables

8.1 Cooling Capacity for Te: Auto

Model	Capacity indication	Indoor air temp.													
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
FXDQ20TV1C FXDQ20TV1CA	20	1.9	1.9	2.1	2.0	2.2	2.0	2.2	1.6	2.2	1.8	2.3	1.7	2.3	1.5
FXDQ25TV1C FXDQ25TV1CA	25	2.5	2.5	2.6	2.5	2.8	2.5	2.8	2.0	2.8	2.2	2.9	2.0	3.0	1.9
FXDQ32TV1C FXDQ32TV1CA	32	3.2	3.1	3.4	3.1	3.5	3.1	3.6	2.6	3.6	2.7	3.7	2.5	3.8	2.3
FXDQ40TV1C FXDQ40TV1CA	40	4.0	3.6	4.2	3.6	4.4	3.7	4.5	3.4	4.6	3.2	4.7	3.0	4.8	2.8
FXDQ50TV1C FXDQ50TV1CA	50	4.9	4.4	5.3	4.5	5.5	4.4	5.6	4.1	5.7	3.9	5.8	3.6	5.9	3.3
FXDQ63TV1C FXDQ63TV1CA	63	6.3	5.6	6.7	5.7	7.0	5.8	7.1	5.1	7.2	5.1	7.3	4.7	7.5	4.3

TC: Total capacity: kW
SHC: Sensible heat capacity: kW

Notes:

1. These capacity tables are for use when selecting a *VRV* indoor unit. The actual capacity of the *VRV* system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the *VRV* system satisfies the required heat load.
2. ▭ shows rated condition.

8.2 Cooling Capacity for Te: 6°C

Model	Capacity indication	Indoor air temp.													
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
FXDQ20TV1C FXDQ20TV1CA	20	1.5	1.5	1.8	1.7	2.1	1.9	2.2	1.9	2.2	1.8	2.3	1.7	2.3	1.5
FXDQ25TV1C FXDQ25TV1CA	25	1.9	1.9	2.3	2.1	2.6	2.3	2.8	2.3	2.8	2.2	2.9	2.0	3.0	1.9
FXDQ32TV1C FXDQ32TV1CA	32	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.6	2.7	3.7	2.5	3.8	2.3
FXDQ40TV1C FXDQ40TV1CA	40	3.0	2.7	3.6	3.0	4.2	3.4	4.5	3.3	4.6	3.2	4.7	3.0	4.8	2.8
FXDQ50TV1C FXDQ50TV1CA	50	3.8	3.3	4.5	3.7	5.2	4.0	5.6	4.1	5.7	3.9	5.8	3.6	5.9	3.3
FXDQ63TV1C FXDQ63TV1CA	63	4.8	4.2	5.7	4.7	6.6	5.2	7.1	5.3	7.2	5.1	7.4	4.7	7.5	4.3

TC: Total capacity: kW
SHC: Sensible heat capacity: kW

Notes:

1. These capacity tables are for use when selecting a *VRV* indoor unit. The actual capacity of the *VRV* system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the *VRV* system satisfies the required heat load.
2. ▭ shows rated condition.

8.3 Cooling Capacity for Te: 9°C

For *VRV* indoor units only at Te: 9°C / mixed combination of *VRV* and residential indoor units

Model	Capacity indication	Indoor air temp.													
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
FXDQ20TV1C FXDQ20TV1CA	20	1.0	1.0	1.3	1.3	1.6	1.6	1.7	1.6	1.8	1.6	1.9	1.5	2.0	1.3
FXDQ25TV1C FXDQ25TV1CA	25	1.3	1.3	1.6	1.6	2.0	1.9	2.2	2.0	2.2	1.9	2.4	1.8	2.6	1.7
FXDQ32TV1C FXDQ32TV1CA	32	1.6	1.6	2.0	2.0	2.6	2.4	2.8	2.4	2.9	2.3	3.1	2.2	3.3	2.1
FXDQ40TV1C FXDQ40TV1CA	40	2.0	2.0	2.6	2.5	3.3	2.9	3.6	2.8	3.7	2.8	4.0	2.7	4.2	2.5
FXDQ50TV1C FXDQ50TV1CA	50	2.5	2.5	3.2	3.1	4.1	3.4	4.5	3.6	4.7	3.4	4.9	3.2	5.1	3.0
FXDQ63TV1C FXDQ63TV1CA	63	3.2	3.2	4.2	3.9	5.2	4.5	5.7	4.6	5.9	4.5	6.3	4.2	6.6	3.9

TC: Total capacity: kW
SHC: Sensible heat capacity: kW

Notes:

1. These capacity tables are for use when selecting a *VRV* indoor unit. The actual capacity of the *VRV* system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the *VRV* system satisfies the required heat load.
2. ▭ shows rated condition.

8.4 Heating Capacity

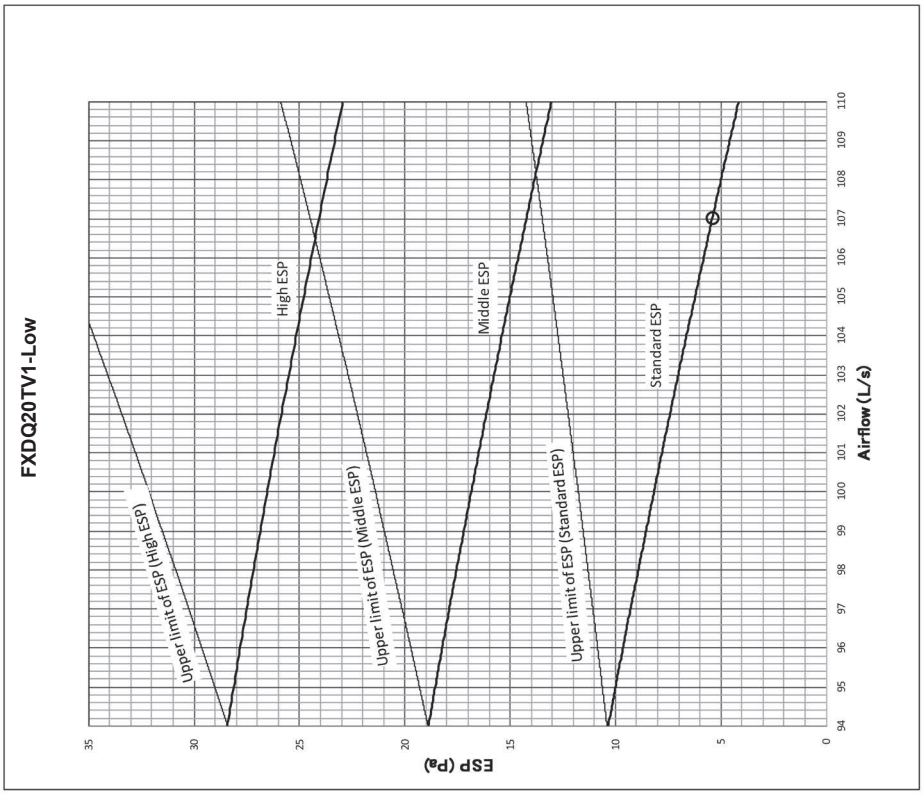
Model	Capacity indication	Indoor air temp.					
		16°CDB	18°CDB	20°CDB	21°CDB	22°CDB	24°CDB
		kW	kW	kW	kW	kW	kW
FXDQ20TV1C FXDQ20TV1CA	20	2.6	2.6	2.5	2.4	2.3	2.2
FXDQ25TV1C FXDQ25TV1CA	25	3.4	3.4	3.2	3.1	3.0	2.8
FXDQ32TV1C FXDQ32TV1CA	32	4.2	4.2	4.0	3.9	3.7	3.5
FXDQ40TV1C FXDQ40TV1CA	40	5.2	5.2	5.0	4.8	4.7	4.4
FXDQ50TV1C FXDQ50TV1CA	50	6.6	6.6	6.3	6.1	5.9	5.5
FXDQ63TV1C FXDQ63TV1CA	63	8.4	8.4	8.0	7.7	7.5	7.0

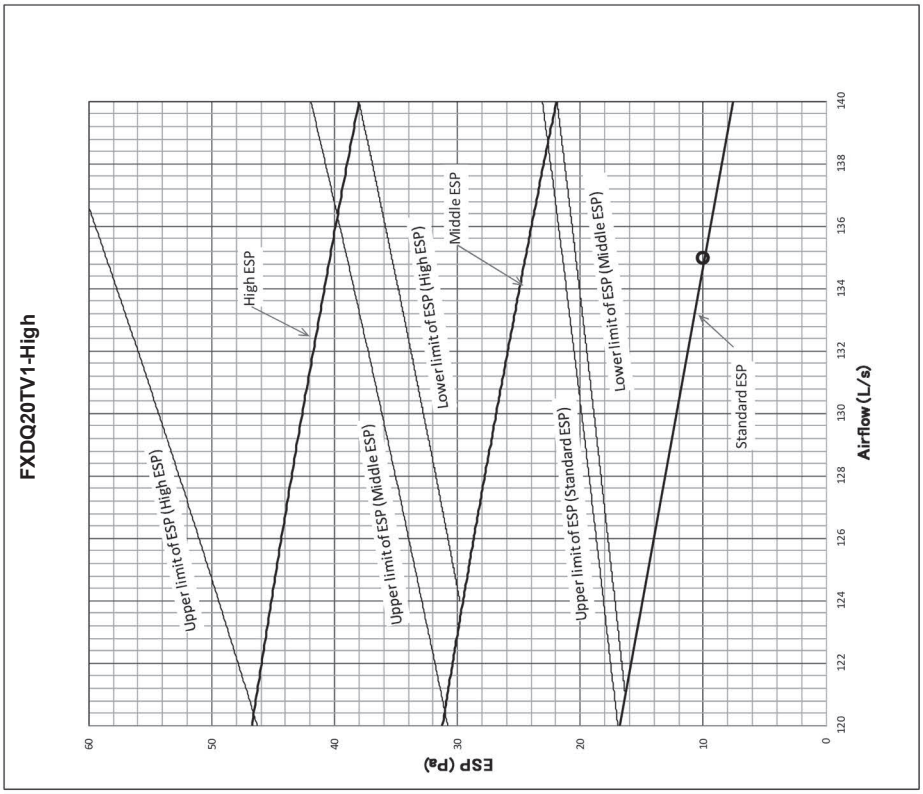
Notes:

1. These capacity tables are for use when selecting a *VRV* indoor unit. The actual capacity of the *VRV* system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the *VRV* system satisfies the required heat load.
2. ▭ shows rated condition.

9. Fan Performances

FXDQ20TV1C
FXDQ20TV1CA

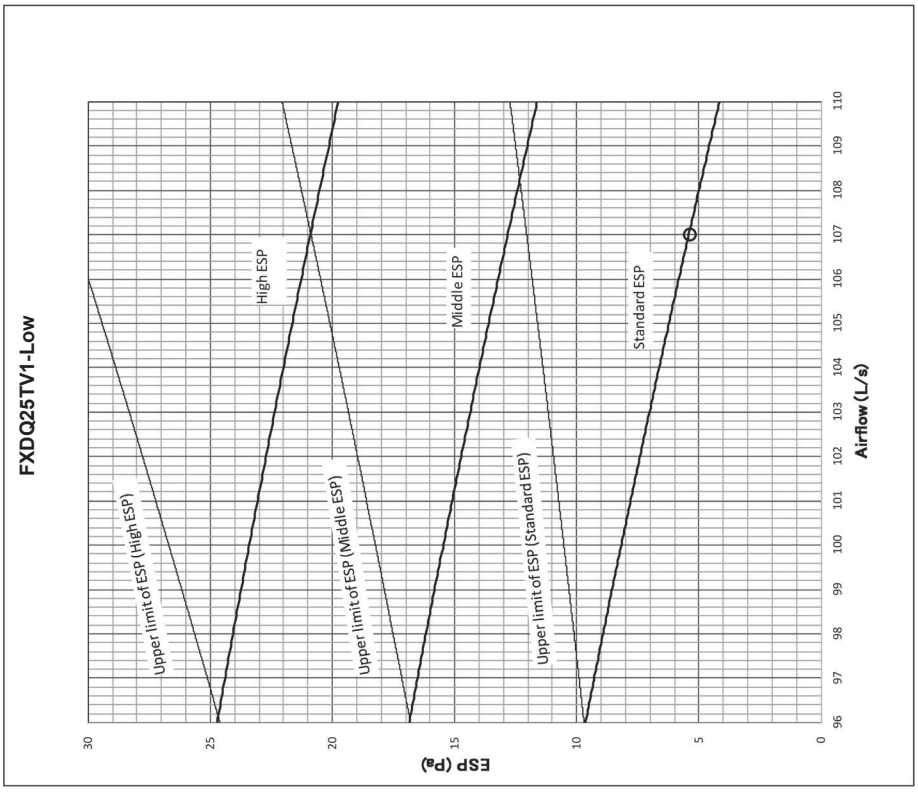


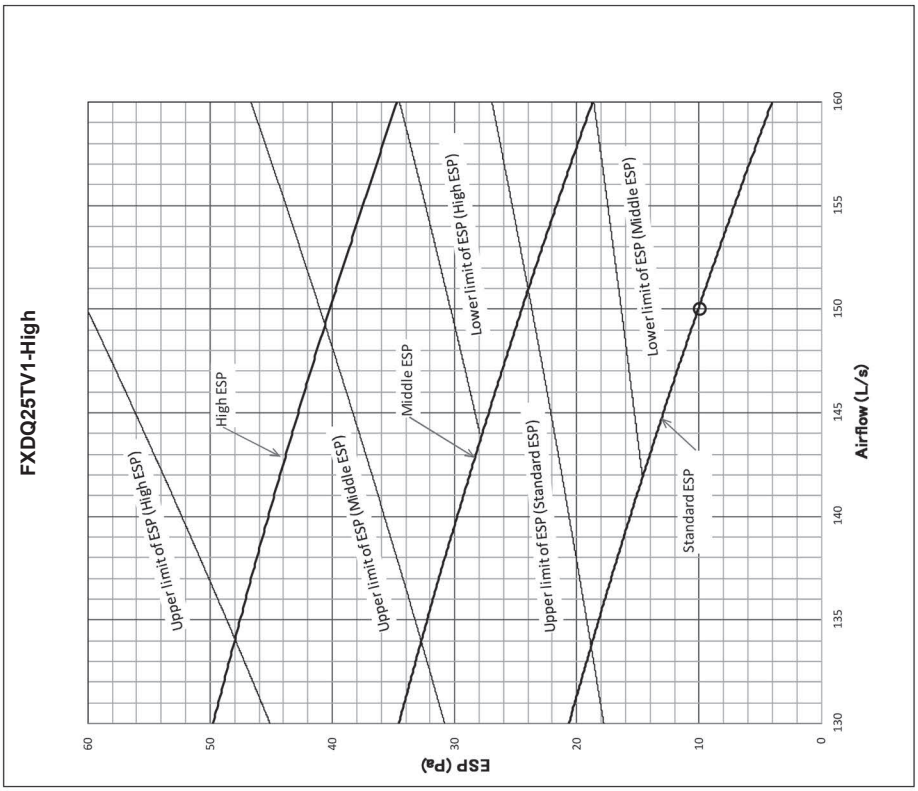


NOTES
1. The remote controller can be used to switch 3 steps between HighHigh and Low. The 3 steps are HighHigh, High and Low
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "Standard ESP" and "High ESP" with the remote controller.
3. The fan curves are tested with air suction from rear side.

C: 3D115154A

FXDQ25TV1C
FXDQ25TV1CA

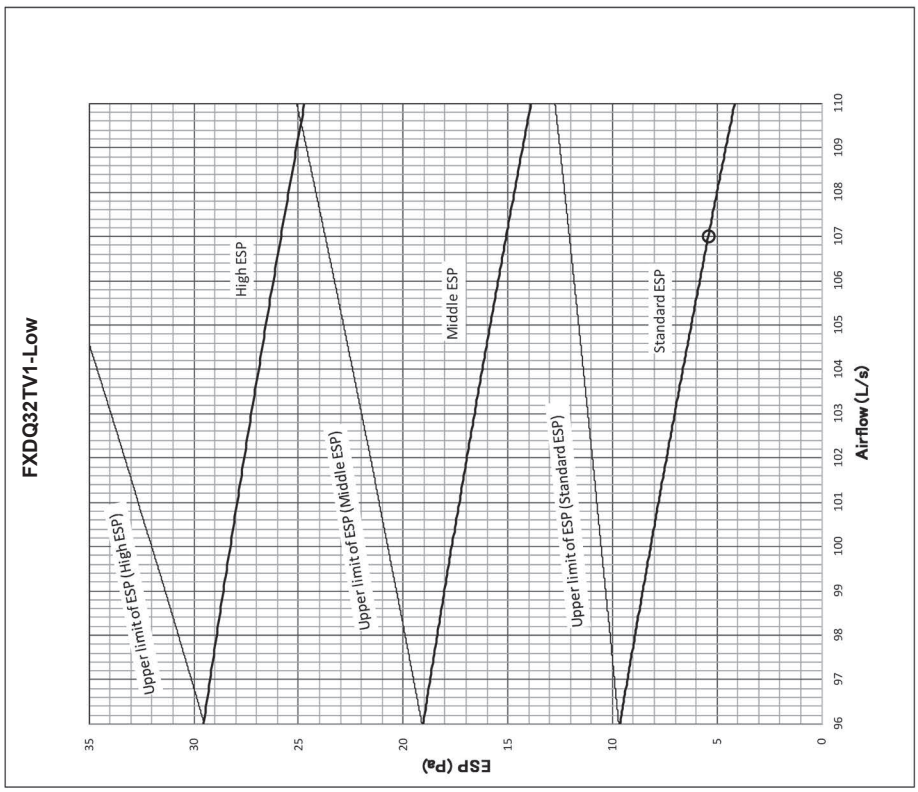


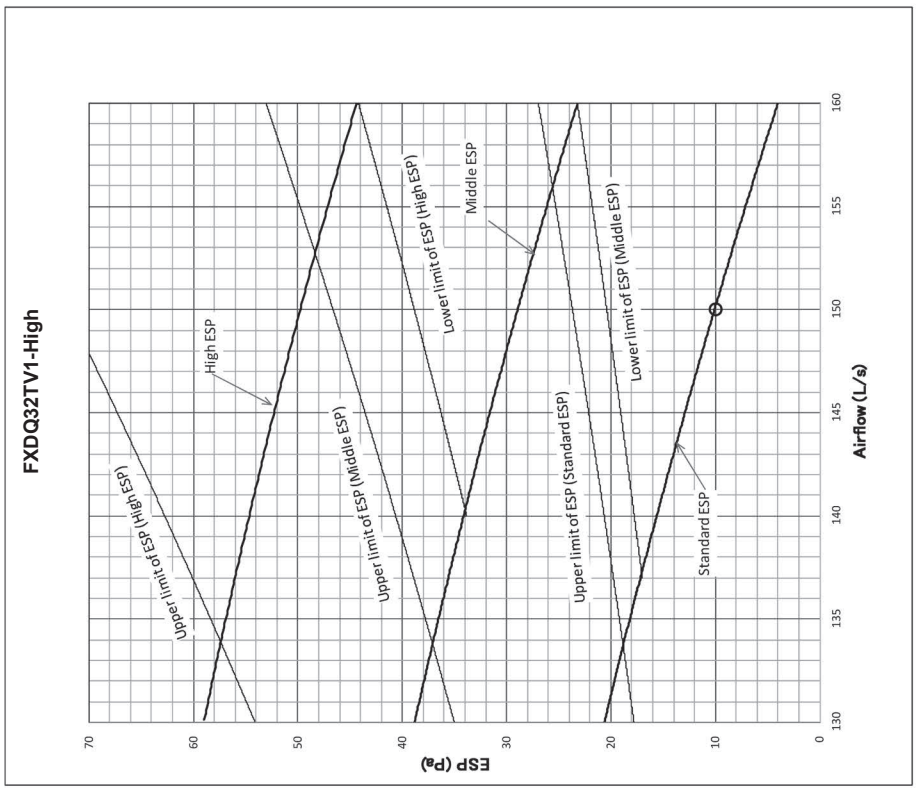


NOTES
1. The remote controller can be used to switch 3 steps between HighHigh and Low. The 3 steps are HighHigh, High and Low
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "Standard ESP" and "High ESP" with the remote controller.
3. The fan curves are tested with air suction from rear side.

C: 3D115155A

FXDQ32TV1C
FXDQ32TV1CA

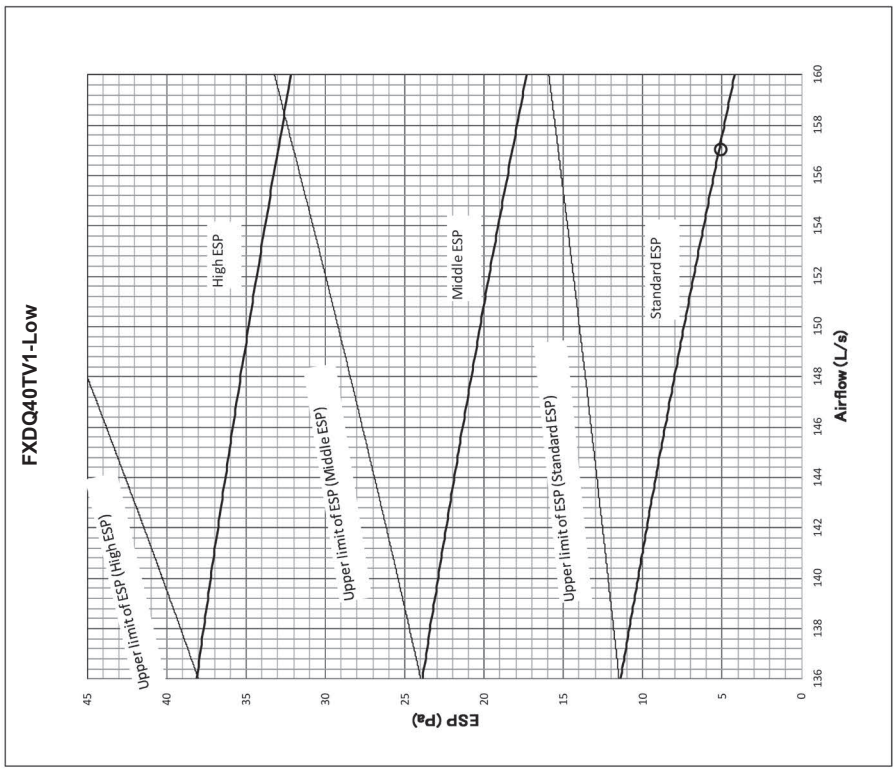


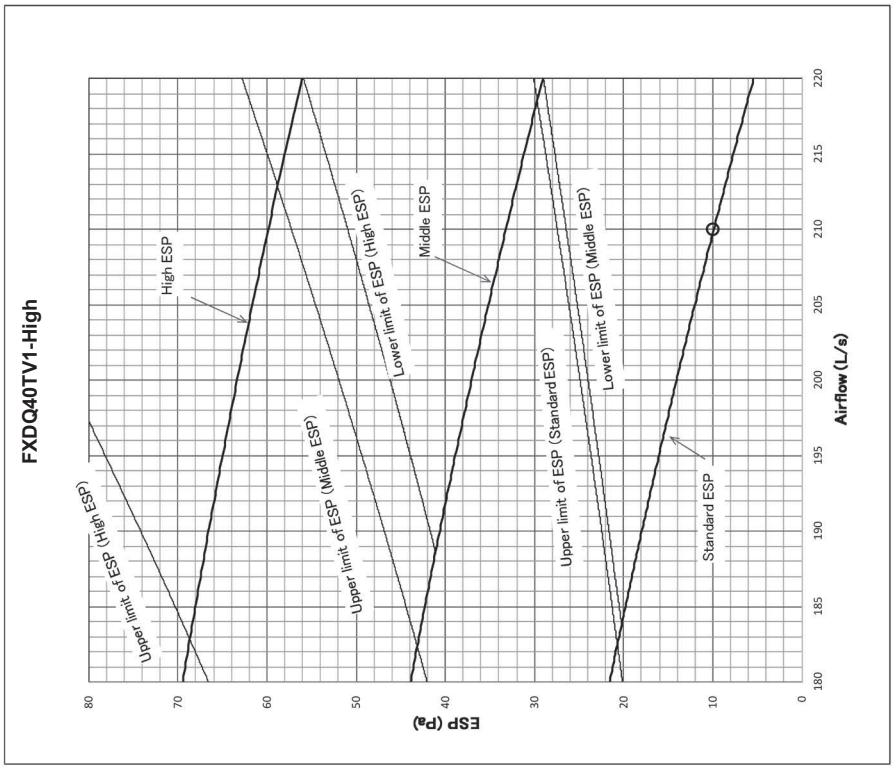


NOTES
1. The remote controller can be used to switch 3 steps between HighHigh and Low. The 3 steps are HighHigh, High and Low
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "Standard ESP" and "High ESP" with the remote controller.
3. The fan curves are tested with air suction from rear side.

C: 3D115156A

FXDQ40TV1C
FXDQ40TV1CA

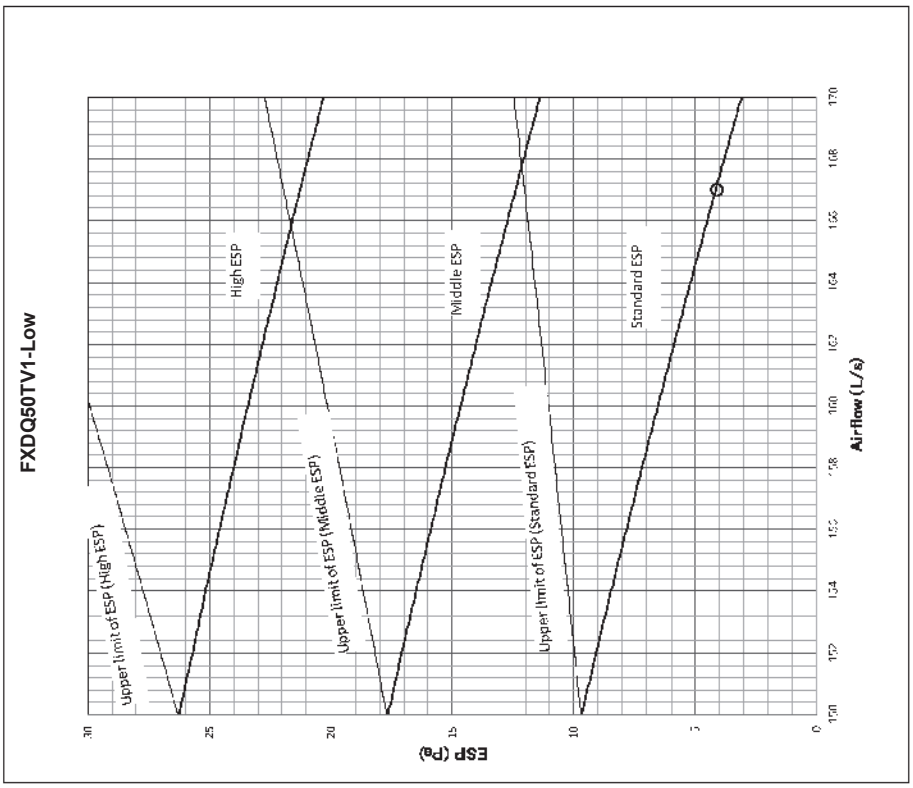


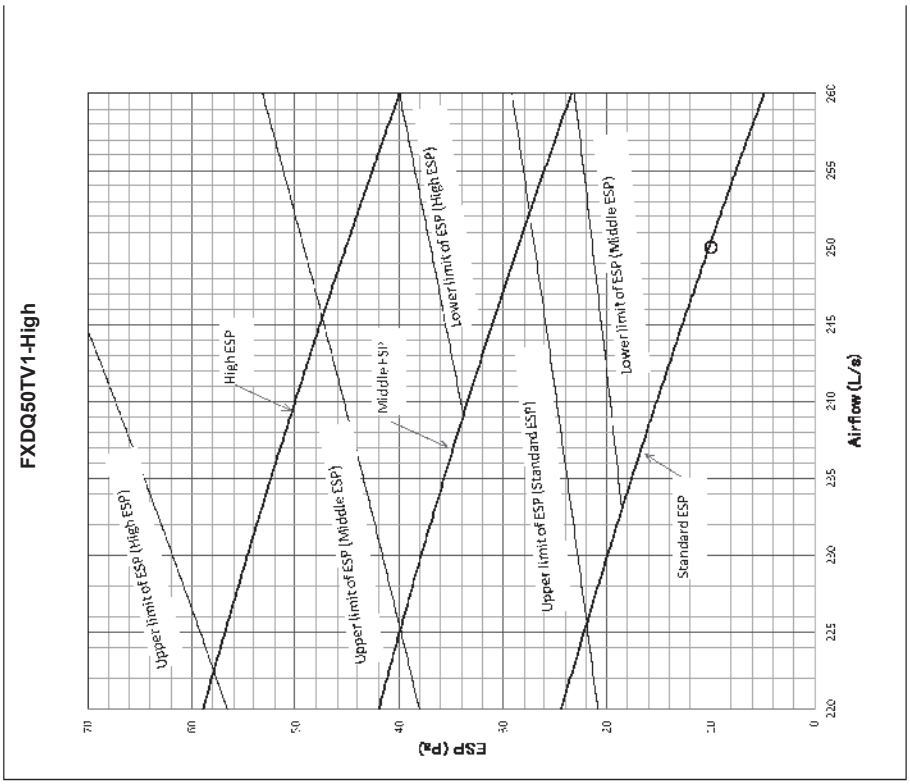


NOTES
1. The remote controller can be used to switch 3 steps between HighHigh and Low. The 3 steps are HighHigh, High and Low
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "Standard ESP" and "High ESP" with the remote controller.
3. The fan curves are tested with air suction from rear side.

C: 3D115157A

FXDQ50TV1C
FXDQ50TV1CA

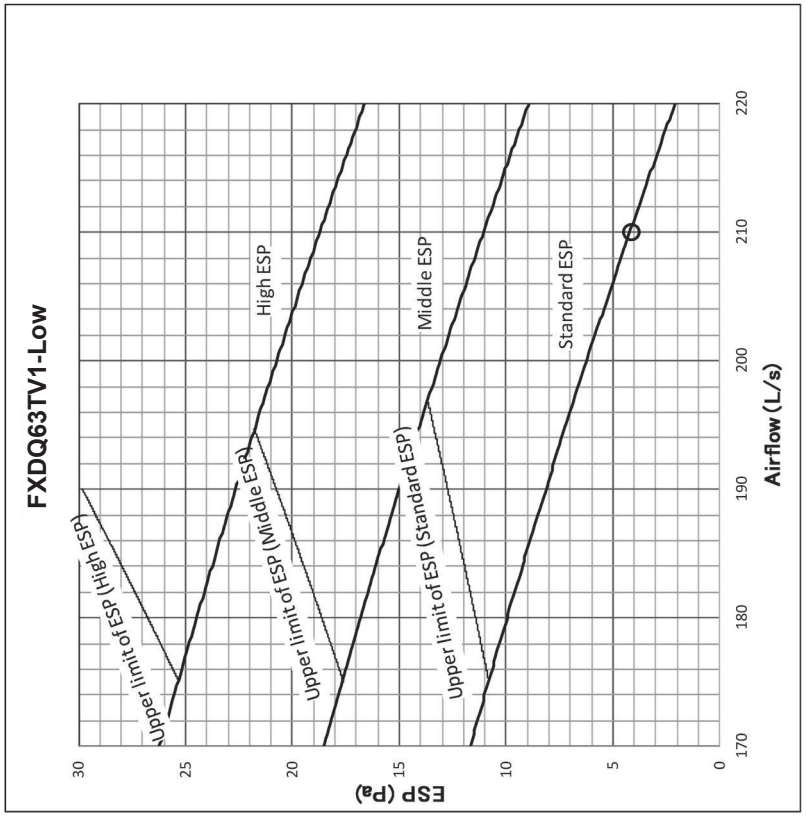


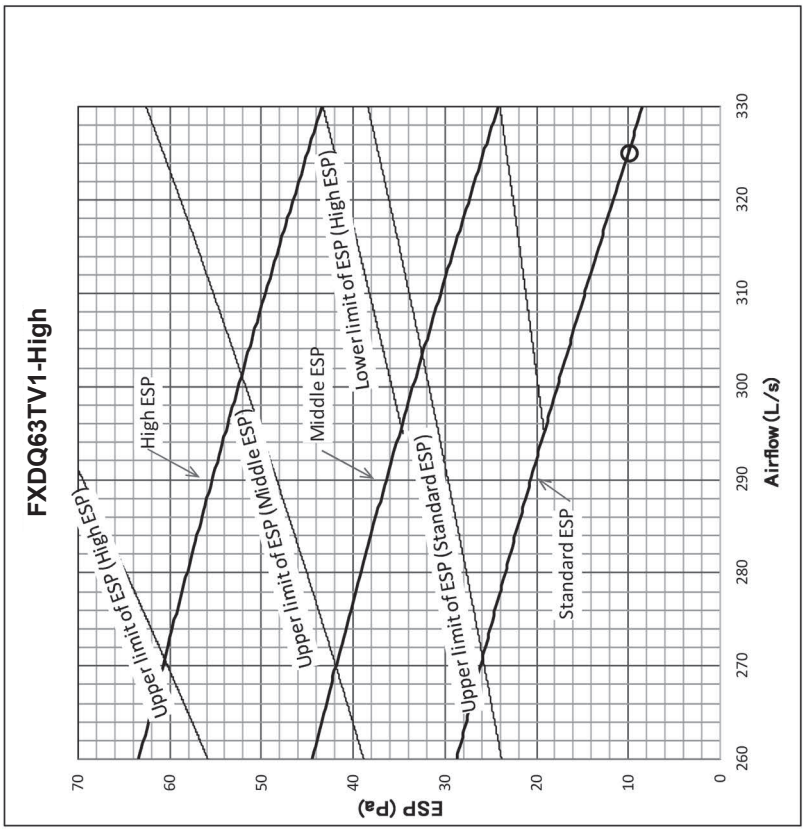


NOTES
1. The remote controller can be used to switch 3 steps between HighHigh and Low. The 3 steps are HighHigh, High and Low
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "Standard ESP" and "High ESP" with the remote controller.
3. The fan curves are tested with air suction from rear side.

C: 3D115158A

FXDQ63TV1C
FXDQ63TV1CA



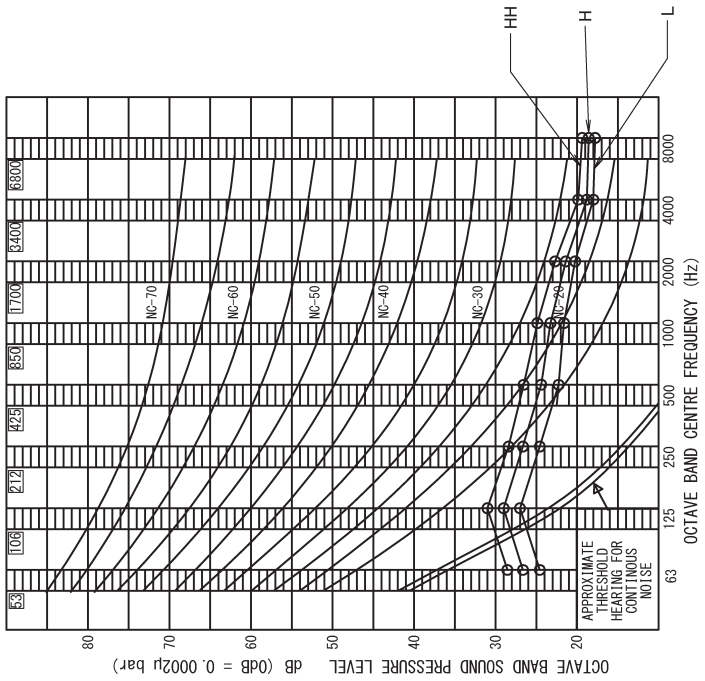


NOTES
1. The remote controller can be used to switch 3 steps between HighHigh and Low. The 3 steps are HighHigh, High and Low
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "Standard ESP" and "High ESP" with the remote controller.
3. The fan curves are tested with air suction from rear side.

C: 3D115159A

10.Sound Levels

FXDQ20TV1C
FXDQ20TV1CA



OVERALL (dB)

SCALE	HH	H	L
A	32	30	28

(B. G. N. IS ALREADY RECTIFIED)

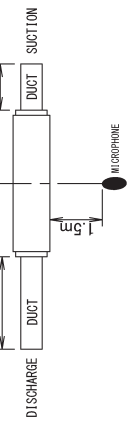
OPERATING CONDITIONS

POWER SOURCE 230V 50Hz

COOLING RETURN AIR TEMPERATURE : 27 °C DB, 19 °C WB
OUTDOOR TEMPERATURE : 35 °C DB, 24 °C WB

HEATING RETURN AIR TEMPERATURE : 20 °C DB, 15 °C WB
OUTDOOR TEMPERATURE : 7 °C DB, 6 °C WB

EXTERNAL STATIC PRESSURE 10Pa



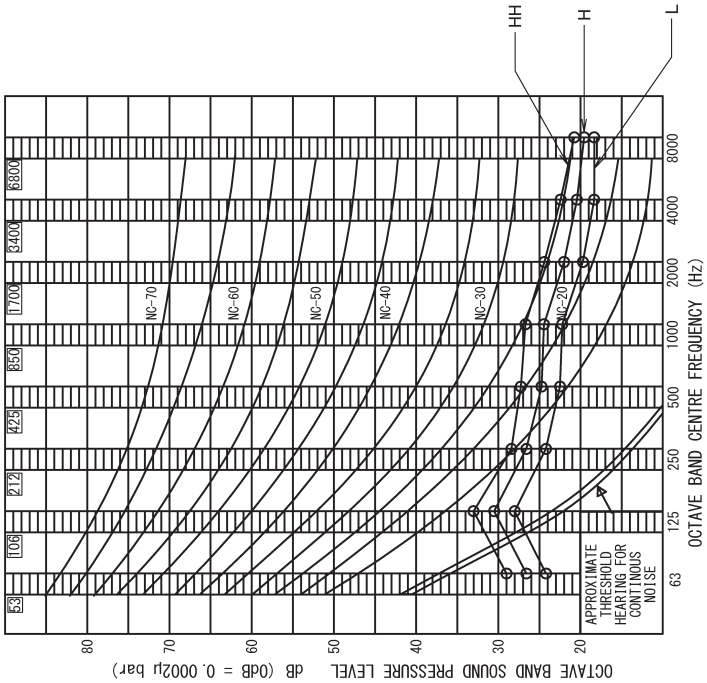
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: Operation noise differs with operation and ambient conditions.

4D115188A

FXDQ25TV1C
FXDQ25TV1CA



OVERALL (dB)

SCALE	HH	H	L
A	33	30.5	28

(B. G. N. IS ALREADY RECTIFIED)

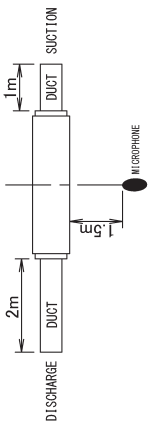
OPERATING CONDITIONS

POWER SOURCE 230V 50Hz

COOLING RETURN AIR TEMPERATURE : 27 °C DB, 19 °C WB
OUTDOOR TEMPERATURE : 35 °C DB, 24 °C WB

HEATING RETURN AIR TEMPERATURE : 20 °C DB, 15 °C WB
OUTDOOR TEMPERATURE : 7 °C DB, 6 °C WB

EXTERNAL STATIC PRESSURE 10Pa



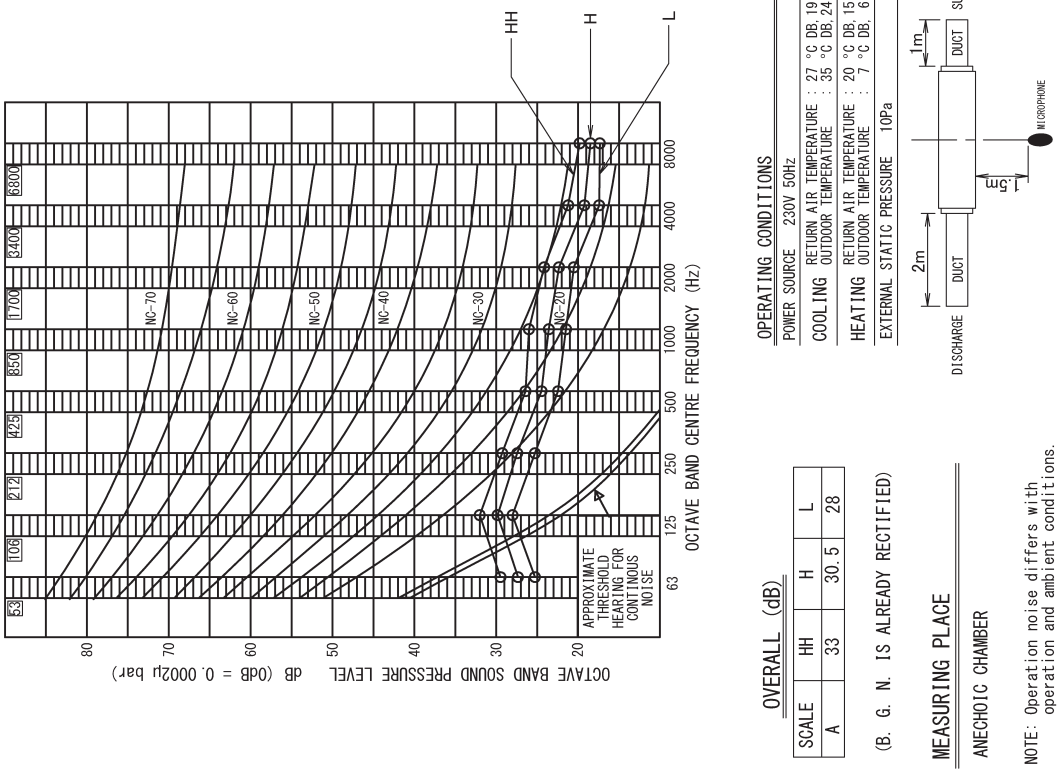
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: Operation noise differs with operation and ambient conditions.

4D115189A

FXDQ32TV1C
FXDQ32TV1CA



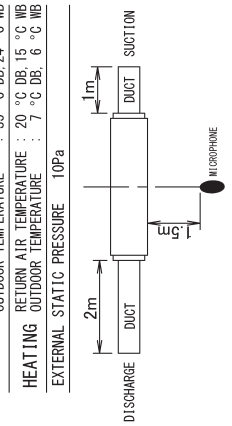
OPERATING CONDITIONS

POWER SOURCE	230V 50Hz	
COOLING	RETURN AIR TEMPERATURE	: 27 °C DB, 19 °C WB
	OUTDOOR TEMPERATURE	: 35 °C DB, 24 °C WB
HEATING	RETURN AIR TEMPERATURE	: 20 °C DB, 15 °C WB
	OUTDOOR TEMPERATURE	: 7 °C DB, 6 °C WB
EXTERNAL STATIC PRESSURE	10Pa	

OVERALL (dB)

SCALE	HH	H	L
A	33	30.5	28

(B. G. N. IS ALREADY RECTIFIED)



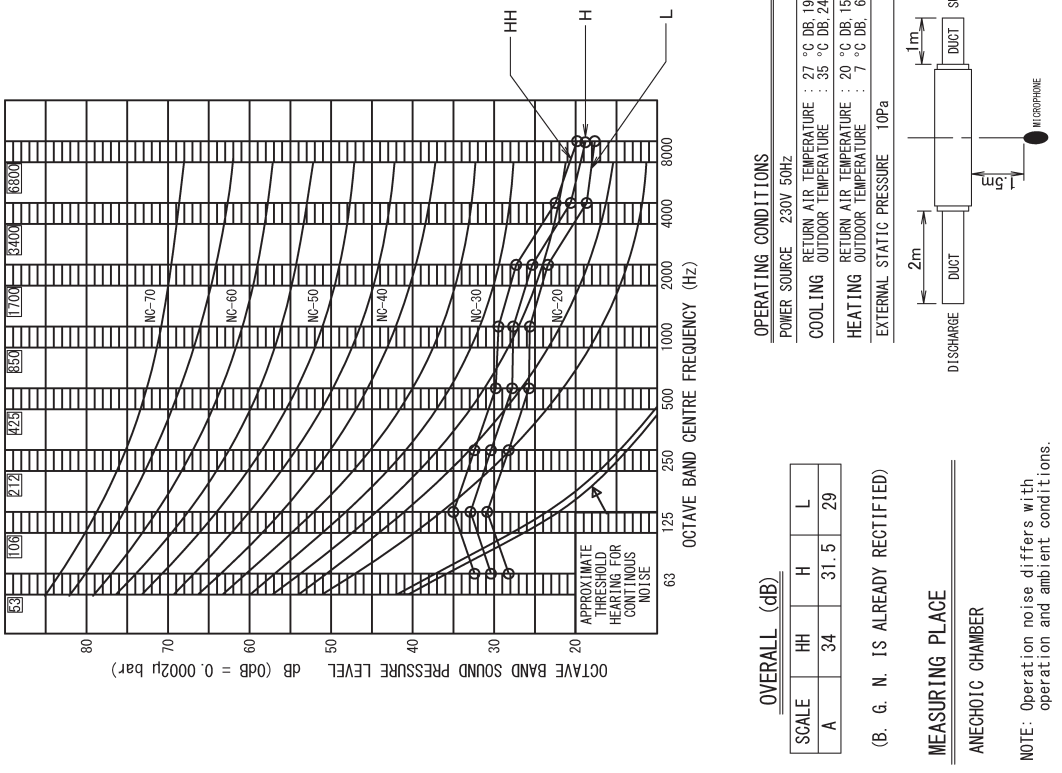
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: Operation noise differs with operation and ambient conditions.

4D115190A

FXDQ40TV1C
FXDQ40TV1CA



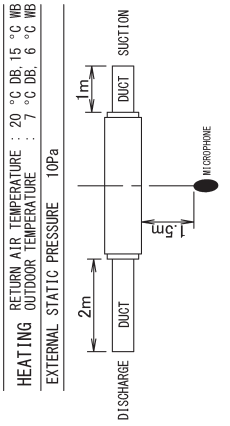
OPERATING CONDITIONS

POWER SOURCE	230V 50Hz	
COOLING	RETURN AIR TEMPERATURE	: 27 °C DB, 19 °C WB
	OUTDOOR TEMPERATURE	: 35 °C DB, 24 °C WB
HEATING	RETURN AIR TEMPERATURE	: 20 °C DB, 15 °C WB
	OUTDOOR TEMPERATURE	: 7 °C DB, 6 °C WB
EXTERNAL STATIC PRESSURE	10Pa	

OVERALL (dB)

SCALE	HH	H	L
A	34	31.5	29

(B. G. N. IS ALREADY RECTIFIED)



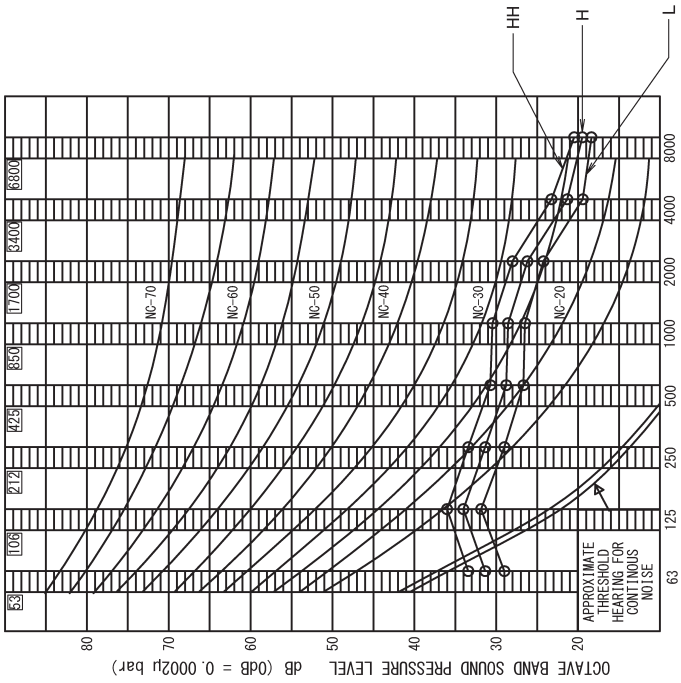
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: Operation noise differs with operation and ambient conditions.

4D115191A

FXDQ50TV1C
FXDQ50TV1CA



OVERALL (dB)

SCALE	HH	H	L
A	35	32.5	30

(B. G. N. IS ALREADY RECTIFIED)

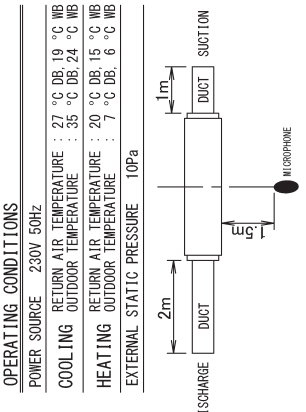
OPERATING CONDITIONS

POWER SOURCE 230V 50Hz

COOLING RETURN AIR TEMPERATURE : 27 °C DB, 19 °C WB
OUTDOOR TEMPERATURE : 35 °C DB, 24 °C WB

HEATING RETURN AIR TEMPERATURE : 20 °C DB, 15 °C WB
OUTDOOR TEMPERATURE : 7 °C DB, 6 °C WB

EXTERNAL STATIC PRESSURE 10Pa



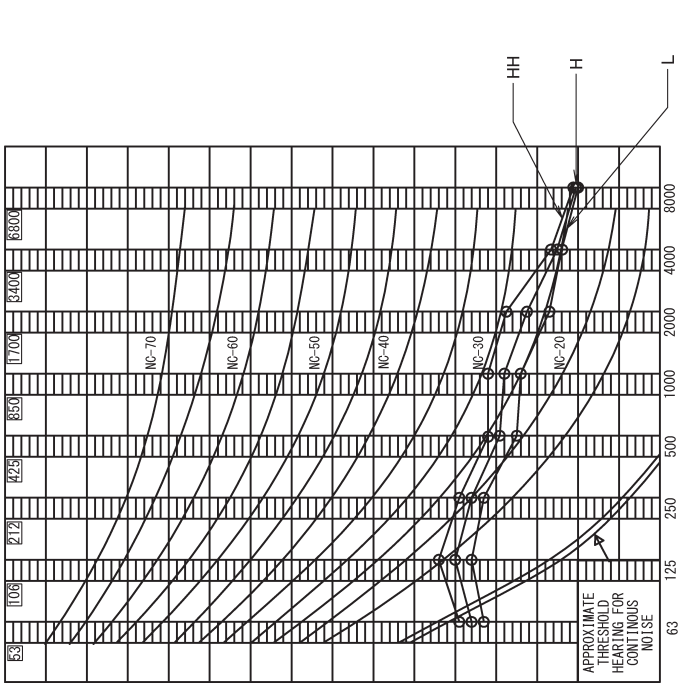
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: Operation noise differs with operation and ambient conditions.

4D115192A

FXDQ63TV1C
FXDQ63TV1CA



OVERALL (dB)

SCALE	HH	H	L
A	37	35	33

(B. G. N. IS ALREADY RECTIFIED)

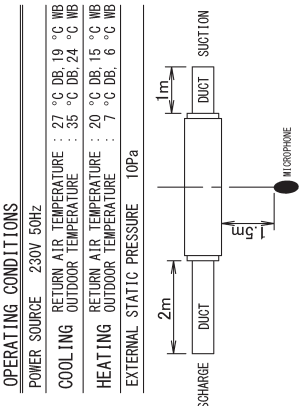
OPERATING CONDITIONS

POWER SOURCE 230V 50Hz

COOLING RETURN AIR TEMPERATURE : 27 °C DB, 19 °C WB
OUTDOOR TEMPERATURE : 35 °C DB, 24 °C WB

HEATING RETURN AIR TEMPERATURE : 20 °C DB, 15 °C WB
OUTDOOR TEMPERATURE : 7 °C DB, 6 °C WB

EXTERNAL STATIC PRESSURE 10Pa



MEASURING PLACE

ANECHOIC CHAMBER

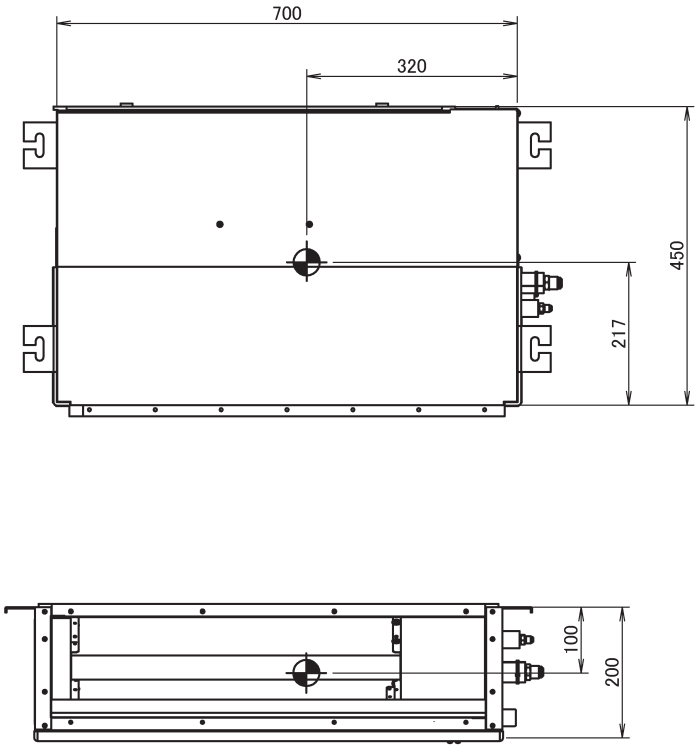
NOTE: Operation noise differs with operation and ambient conditions.

4D115193A

11.Centre of Gravity

FXDQ20TV1C / FXDQ25TV1C / FXDQ32TV1C
FXDQ20TV1CA / FXDQ25TV1CA / FXDQ32TV1CA

Unit: mm



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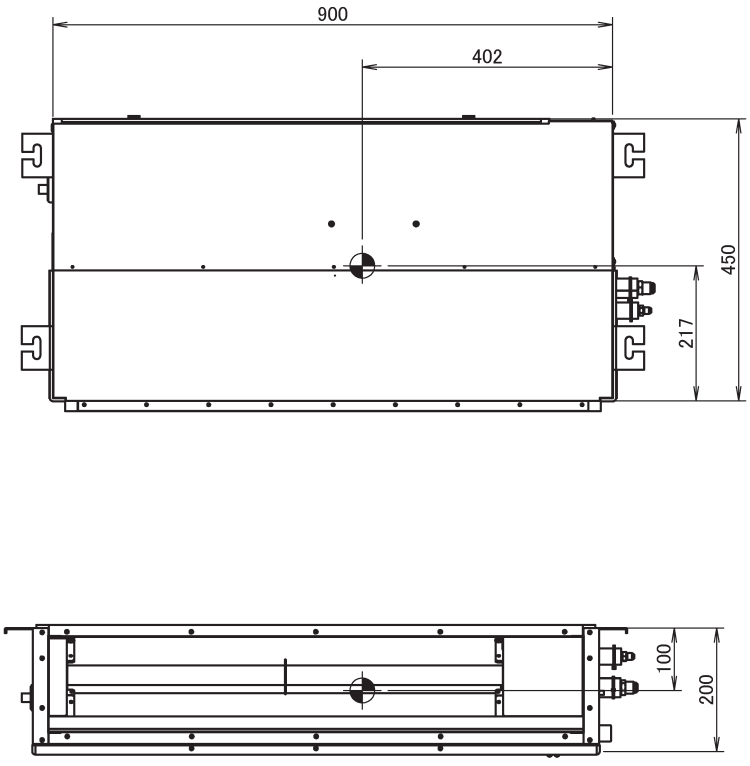
FXDQ40TV1C / FXDQ50TV1C
FXDQ40TV1CA / FXDQ50TV1CA

Unit: mm



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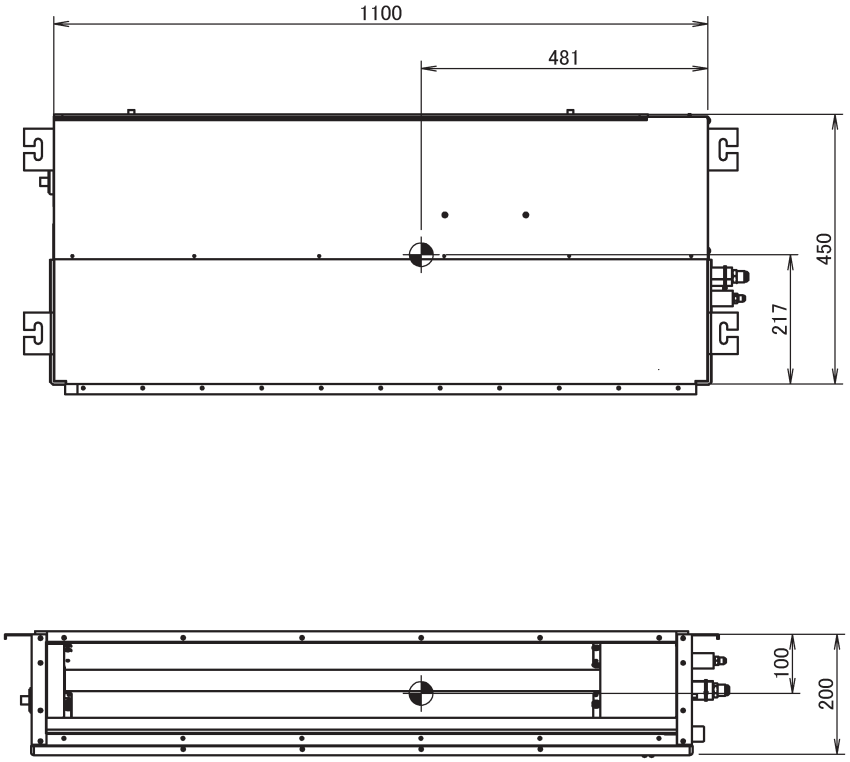
FXDQ63TV1C
FXDQ63TV1CA

Unit: mm



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12.Accessories

12.1 Optional Accessories (for Controls)

Item		Model					
		FXDQ20TV1C	FXDQ25TV1C	FXDQ32TV1C	FXDQ40TV1C	FXDQ50TV1C	FXDQ63TV1C
		FXDQ20TV1CA	FXDQ25TV1CA	FXDQ32TV1CA	FXDQ40TV1CA	FXDQ50TV1CA	FXDQ63TV1CA
3D Auto swing discharge grille		BDG20A09			BDG20A15		BDG20A20
Auto clean air filter unit		BAE20A62			BAE20A82		BAE20A102
Wired remote controller		BRC1E63 (Note 4)					
Wireless remote controller	Cooling Only	BRC4C66 (Note 4)					
	Heat Pump	BRC4C65 (Note 4)					
Simplified remote controller		BRC2C51					
Remote controller for hotel use		BRC3A61					
Adaptor for wiring		KRP1C64 ★1					
Wiring adaptor for electrical appendices (1)		KRP2A61 ★1					
Wiring adaptor for electrical appendices (2)		KRP4AA51 ★1					
Remote sensor		KRCS01-4B					
Installation box for adaptor printed circuit board		BRP9A90					
Adaptor for multi tenant		DTA114A61 ★1 (Note 5)					
Multi Tenancy Kit		KRP114A3 (Note 5)					

C: 4D117695A

Notes:

1. Installation box is necessary for each adaptor marked ★1.
2. Only one adaptor can be fixed for installation box.
3. Only one installation box can be installed for each indoor unit.
4. Wireless remote controller does not have AUTO fan mode. Use wired remote controller to select AUTO fan mode.
5. Only applicable to FXDQ-TV1C.

DAIKIN

INSTALLATION MANUAL

Air Conditioner

MODELS

Ceiling-mounted duct type
low static pressure unit

FXDQ20TV1C(A)
FXDQ25TV1C(A)
FXDQ32TV1C(A)
FXDQ40TV1C(A)
FXDQ50TV1C(A)
FXDQ63TV1C(A)

Before installation, please read this installation manual carefully, and after reading, please keep it well for future reference.

CONTENTS

1. SAFETY PRECAUTIONS……..…… 1
2. BEFORE INSTALLATION……..…… 2
3. SELECTING INSTALLATION SITE……..... 3
4. PREPARATIONS BEFORE INSTALLATION…… 3
5. INDOOR UNIT INSTALLATION…….... 4
6. REFRIGERANT PIPING WORK……. 5
7. DRAIN PIPING WORK……..... 6
8. INSTALLING THE DUCT……..…….... 8
9. ELECTRIC WIRING WORK……..... 8
10. WIRING EXAMPLE…….....10

1. SAFETY PRECAUTIONS

The air conditioner is a Level A product. When it is used in house, there is possibility of causing radio interference, and in case of such phenomena, the user shall take the corresponding countermeasures.
Before installing the air conditioner, please carefully read the “SAFETY PRECAUTIONS” to ensure correct installation.
This air conditioner comes under the term “appliances not accessible to general public”. The precautions indicated below are divided into two types.
The two types of precautions are related to safety and very important, so please carefully read the precautions.

⚠ **WARNING**.....Situations as death or severe injury can occur in case of noncompliance.
⚠ **CAUTION**.....Situations as injury or damage to the machine can occur in case of noncompliance.
Depending on different situations, situations as severe injury can occur.

After installation, please carry out test run to confirm whether the machine operates normally. And please give instructions on the use and maintenance of the air conditioner to the user. Ask the user to keep the installation manual and the operation manual well for future references.

⚠ WARNING

- The installation work shall be carried out by the dealer or professional personnel. Do not operate by yourself without authorization.
  Incorrect installation may lead to water leakage, electrical shock and fire.
- Please follow the steps in the instruction manual to install.
  Incorrect installation may lead to water leakage, electrical shock and fire.
- When it is installed in a small room, the corresponding measures shall be taken to prevent the concentration of the refrigerant in the room from exceeding the limit in case of any leakage of the refrigerant. Please consult the dealer for the corresponding countermeasures.
  When the concentration of the refrigerant in a confined space is too high, insufficient oxygen can occur.
- Always use the specified parts to install.
  In case that the installation is not carried out with the specified parts, such issues as air conditioner falling, water leakage, electrical shock, fire or incorrect operation can occur.
- Please install the air conditioner in a firm place which is sufficient to withstand its weight.
  In case that the base is not firm, the air conditioner may fall down and damages can occur.
- Take full considerations on influences from strong wind, typhoon and earthquake, and reinforce the installation.
  Incorrect installation can lead to falling off of the air conditioner and result in accidents.
- Always use separate circuits to supply the power. Any electrical work shall comply with the local laws and regulations, and at the same time follow the installation instruction manual to ask a qualified professional electrician to carry out the work.
  Insufficient capacity or incorrect electrical work can lead to electrical shock or fire.
- Use cables with the specified specifications, and all the cables shall be reliably connected, and the wiring terminals and the cables are not tensioned by any external force.
  Poor wiring and incorrect installation can lead to fire.
- When connecting the power cable, remote control cable or transmission cable, they shall be routed orderly and placed even, so that the electrical box cover can be covered tightly.
  In case that the cover cannot be covered evenly, problems as electrical shock, fire or overheating of the electrical box can occur.
- During installation, in case that any refrigerant gas leaks out, please open the door and window immediately to exchange the air.
  When the refrigerant gas is in contact with fire, poisonous gas can be generated.
- After complete installation, please check whether there is any refrigerant gas leakage.
  In case that any refrigerant gas is leaked out in the room and is in contact with any fire source, such as heater, oven and furnace, poisonous gas can be generated.
- Before touching any electrical part, please switch off the power supply.
- Never touch any switch with any wet hand.
  Touching any switch with any wet hand can lead to electrical shock.
- The air conditioner must be grounded.
  Never connect the grounding cable to any gas pipe, running water pipe, lighting rod and telephone line.
  Poor grounding can lead to electrical shock.
- In case that the connected outdoor unit is of 24 kW or below, the remote control cable and the connection cable shall be grounded noiselessly.
- An electricity leakage circuit breaker shall be installed. If no electricity leakage circuit breaker is not installed, electrical shock or fire can occur.
- The indoor unit shall be installed in a place with a height which cannot be reached by children - at least 2.3m above the floor.

⚠ CAUTION

- Please follow the installation manual to set the water drainage pipe to ensure smooth water drainage, and heat insulate the pipe to prevent condensate from building up.
  Poor piping can lead to water leakage and soaking articles in house.
- The indoor unit, outdoor unit, power cable and connection cable shall be separated from the TV set and radio for at least 1 m, so as to prevent any electromagnetic interference and noise.
  (For radios with some bands, even they are separated for over 1 m, noise cannot be fully prevented.)
- In houses with fluorescent light (variable frequency or fast start type) installed, possibly the signal transmission distance of the remote control (wireless) cannot reach the expected value. The farther the indoor unit is installed from the fluorescent light, the better the performance is.
- The air conditioner is not suitable to be installed in the following places:
  (a) Places in which there is mineral oil mist or spray or vapor, such as in the kitchen.
  The plastic parts can be deteriorated and damaged and lead to water leakage.

(b) Places in which corrosive gas can be generated, such as sulfur dioxide.
The copper pipes or welded parts can be corroded and lead to refrigerant leakage.
(c) Places near any machine which generates electromagnetic wave.
Electromagnetic wave can have influence on the control system, so the air conditioner cannot work properly.
(d) Places in which any combustible gas is leaked out, any carbon fiber or combustible powder floats, or volatile combustible gas such as gasoline or thinner is stored.
In case that the air conditioner is used in such places, fire can occur.

- Please never touch any fin of the heat exchanger. Improper touching can cause damages.
- Please pay special attention to the transport of the product. PP packing straps are used for some products. Please never lift and pull the PP packing straps to transport. It is dangerous.
- For the sake of safety, please discard the packing materials. Packing materials such as nails and timbers can lead to stabbings or other harms.
  Please tear off and discard the plastic bags, so as to prevent children from playing with plastic bags and leading to suffocation.
- Please do not switch off the power supply when the operation is just stopped.
  Please wait for at least 5 minutes before switching off the power supply.
  Otherwise water leakage and other problems can occur.
- Depending on different setting environment, electromagnetic interference can occur for different products.
  In this case, keep proper distance from the product.

Please follow the State standards to carry out the installation work.

2. BEFORE INSTALLATION

Before the installation work is completed, please never discard any accessory which may be required during installation. Never discard!

1. Determine the route for moving in the air conditioner in advance.
2. Before moving the air conditioner to the place of installation, never unpack it. In cases that the air conditioner has to be unpacked, soft ropes shall be used when hoisted up or a protection plate shall be placed in the point of the hoisting cable, so as to prevent the air conditioner from damage or scratching.

When moving the air conditioner whether when it is being unpacked or after it is unpacked, please hold the hoisting bracket base. Never apply force on the refrigerant pipe, water drainage pipe or plastic parts.

Before installing the air conditioner, please confirm whether the refrigerant used is R410A refrigerant.

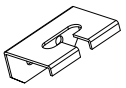
For the installation of the outdoor unit, please make references to the installation manual for the outdoor unit.

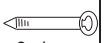
2-1 Notes

- Please tell the correct operating methods of the various functions as well as the temperature adjustment methods of the air conditioner to the user, and ask the user to read the operation manual and carry out operations at the same time.
- The air conditioner is not suitable to be installed in places in which high content of salt is contained in the air, such as coast; and is not suitable in places in which the fluctuation of voltage is high, such as factory.
  The air conditioner is also not suitable to be used in vehicles or ships.

2-2 Accessories

Please check whether the following articles are supplied with the air conditioner.

Name	Metal clip	Water drainage hose	Hanger metal
Quantity	1 piece	1 piece	4 pieces
Shape			

Name	Bolt for hangers	Insulation piece for connector	Banding tie	(Other)
Quantity	1 set	1 piece each	1 set	
Shape	 8 pieces	 For liquid pipe  For air pipe	 8 pieces	• Operation manual • Installation manual • Conforming certificate of product

2-3 Optional parts

- The indoor unit needs one remote control for operations as listed in the following table.

Remote control			Applicable model
Wired R/C		BRC1E62 (3 ranges) BRC1E63 (5 ranges)	FXDQ ~ TV1C(A)
Wireless R/C	H/P	BRC4C65 (3 ranges)	
	C/O	BRC4C66 (3 ranges)	

During installation work and during inspection after completion of installation, pay special attention to the following points.

a. Key points to be inspected after completion of installation.

Items of Inspection	Results possibly occurring in case of any error	Inspected and signature
Are the indoor unit and outdoor unit installed firmly?	The air conditioner falls off, vibrates and sends out noise.	
Has air leakage inspection been carried out?	There is no sufficient cool air or hot air.	
Is the heat insulation good? (Refrigerant pipe, water drainage pipe and air pipe)	Condensate drips off.	
Is water smoothly drained off?	Water leaks out.	
Is the power voltage consistent with the one specified on the nameplate of the machine?	The machine cannot work normally or parts are burnt off.	
Is the connection of the cable and the pipe correct?	The machine cannot work normally or parts are burnt off.	
Is the air conditioner safely grounded?	Once there is electricity leakage, it is very dangerous.	
Are cables with the specified specifications used?	The machine cannot work normally or parts are burnt off.	
Are the suction inlet and air blow outlet of the indoor unit and the outdoor unit blocked by anything?	There is no sufficient cool air or hot air.	
Have the length of the refrigerant pipe and the filled amount of refrigerant been recorded?	The amount of the refrigerant of the air conditioning system is unknown.	

At the same time, please make references to Section “SAFETY PRECAUTIONS”.

b. Key points during inspection when handing over

Items of inspection	Inspected and signature
Was the user explained on the operating methods in accordance with the operation manual?	
Was the operation manual handed over to the user?	
Was the user instructed on the operating methods and cleaning methods of the parts supplied on site (air filter element and grille (suction inlet and air blow outlet), etc.)?	
In case that there is operation manual for any part supplied on site, is the operation manual handed over to the user?	

c. Key points on explanation of the operating methods

The sections with a ⚠ Warning and a ⚠ Caution symbol in the operation manual emphasize such issues as possible personal injury and damage to properties arising from failure to comply with the normal methods to use the air conditioner. The contents on the precautions shall be completely and clearly explained to the user, and the user shall be asked to read the operating section in this operation manual.

3. SELECTING INSTALLATION SITE

⚠ CAUTION

- When moving the air conditioner when it is being unpacked or after it is unpacked, the hoisting bracket base shall be held, but no force shall be applied on any other parts, especially to the refrigerant pipe, water drainage pipe and the flange parts.
- In case that the temperature and humidity in the lamination in the ceiling are over 30ºC and RH 80%, please apply insulation material on the body of the unit.
  Please use glass wool or foamed polyethylene as the insulation material, and the thickness shall be over 10 mm, and it shall be able to be accommodated in the opening in the ceiling.

(1) Select a place complying with all of the following conditions and meeting the requirements of the user to install the air conditioner.

- Ensure that the ventilation is good.
- The airflow is not blocked by any barrier.
- The condensate can be smoothly drained off.
- The strength of the ceiling can withstand the weight of the indoor unit.
- The ceiling is not obviously tilted.
- There is no hazard of possible leakage of combustible gas.
- There is enough space for service and maintenance. **(Please refer to Fig. 1)**
- The length of the pipe between the indoor unit and the outdoor unit is within the allowable range. (Please refer to the installation manual for the outdoor unit.)

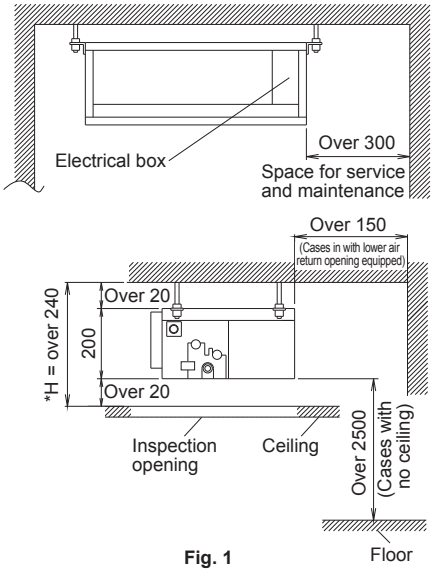


Fig. 1 (Unit: mm)

- The size of *H in the above figure stands for the minimum height of the air conditioner.
- When selecting *H, the downward slope of at least 1/100 for the water drainage pipe shall be ensured, as shown in Section **"7. DRAIN PIPING WORK"**.

[Notes]

- To prevent image interference or noise, when installing the indoor unit, outdoor unit, power cable and transmission cable, they shall be at least 1 m from the TV set or radio. (As the radio wave is different, sometimes it cannot be ensured that interference can be prevented even if the distance is 1 m.)
- In case that the wireless remote control assembly is installed in houses with fluorescent light (variable frequency or fast start type), possibly the signal transmission distance of the remote control can become shorter. The indoor unit shall be installed far from the fluorescent light as possible.

(2) Use hanging bolt to install. Please check whether the ceiling is firm enough to withstand the weight of the indoor unit. In case that there is possibility that the ceiling is not firm, please reinforce it in advance. (Please refer to the installation interval marked on the packing carton to check whether reinforcement is required.)

4. PREPARATIONS BEFORE INSTALLATION

(1) Please confirm the position relationship between the unit and the hanging bolt. (Please refer to Fig. 2)

- Set the inspection opening on the side of the electrical box to facilitate the maintenance and inspection of the electrical box and the water drainage pump.

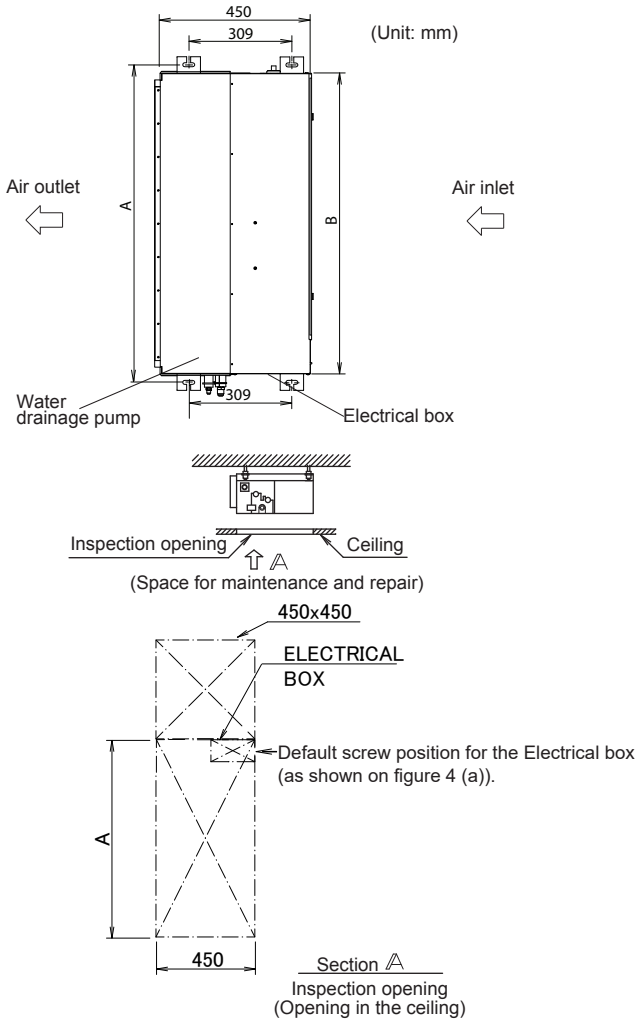


Fig. 2

Note

(Unit: mm)

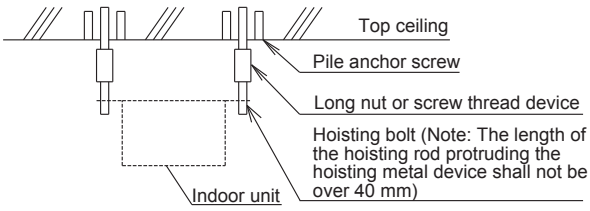
Model	A	B
FXDQ20 ~ 32	752	700
FXDQ40 ~ 50	952	900
FXDQ63	1152	1100

(2) Please confirm whether the static pressure outside the air conditioner exceeds the allowable range.
(For the setting range of the static pressure outside the air conditioner, please refer to the technical documents.)

(3) Make the opening for installation. (Where ceiling has been built up)

- When the opening for installation is made in the ceiling in the installation position, put the refrigerant pipe, water drainage pipe, transmission cable, and remote control cable (in case of wireless remote control, there is no cable) through the opening to the pipe and cable connection interface of the unit. Please refer to Section **"6. REFRIGERANT PIPING WORK"**, **"7. DRAIN PIPING WORK"** and **"10. WIRING EXAMPLES".**
- When the opening is made in the ceiling, to keep the level of the ceiling and prevent vibration, please reinforce such sections of the ceiling as the beam bracket as required.
  For details, please consult the professional construction decoration personnel.

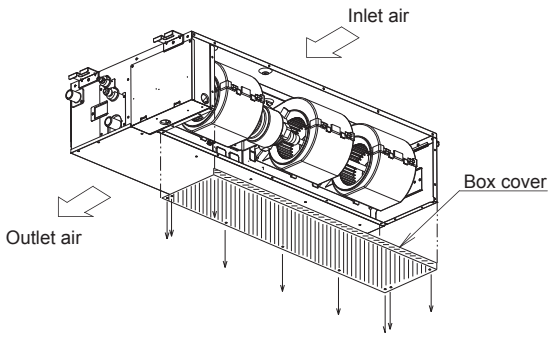
(4) Install the hanging bolt.
(Please use W3/8 or M10 hanging bolt.)
To reinforce the withstanding strength of the ceiling for the weight of the air conditioner, anchor bolts can be installed into the existing ceiling, and pile anchor screws and pile anchor bolts can be built in the new ceiling, and other items purchased in the market can be used. **(Please refer to Fig. 3)**



Note: All of the above items are supplied on site. **Fig. 3**

(5) In case the air is supplied from the bottom, follow the sequences in Fig. 4 to retrofit the box cover.

(1) Remove the box cover.
(2) Please follow the direction in Fig. 4 to reinstall box cover removed.



(b)

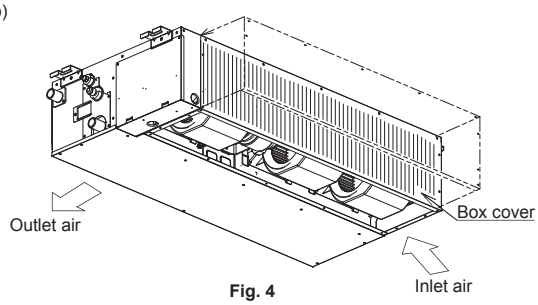
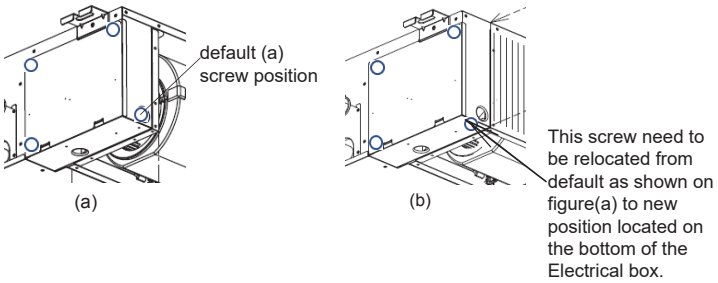


Fig. 4

- Positioning of the screws of the E-box based on the installation.

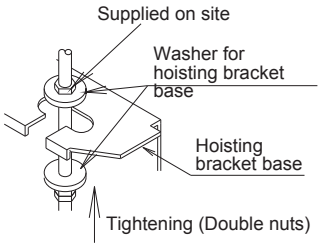


5. INDOOR UNIT INSTALLATION

(During the installation work, always use the accessories supplied with the machine and parts complying with the specified specifications.)

(1) Temporarily installing the indoor unit.

- Hang the hoisting bracket base on the hanging bolt. Always use the nut and washer to fix the upper and lower side of the hoisting bracket base.



[Note] As resin water drainage pan is used for the air conditioner, during the installation work, please prevent any welding spark and any other foreign object from entering into the air blow outlet.

(2) Adjust the height of the unit.

(3) Correct the level of the air conditioner.

⚠ CAUTION

- Use a water level or water filled polyethylene pipe to confirm whether the air conditioner is installed horizontally. When a PE pipe is used to replace a water level, please align the upper surface of the unit with the horizontal level of both sides of the PE pipe, to adjust the level of the unit. **(Pay special attention that the tilting direction shall not be reversed against the water drainage direction as this will result in water leakage)**

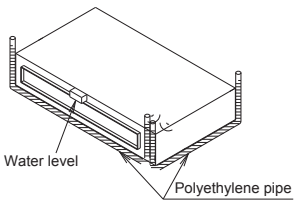


Fig. 5

(4) Tighten the nut on the upper side.

6. REFRIGERANT PIPING WORK

(For the installation of the refrigerant pipe for the outdoor unit, please refer to the installation manual for the outdoor unit.)
(Heat insulation shall be carried out for the pipes on the gas supply side and the liquid side. Otherwise water may leak out. Please use insulation material which can withstand a high temperature of over 120°C.
Please base on the installation environment to reinforce the heat insulation for the refrigerant pipe.
Otherwise, condensate may occur on the surface of the heat insulation material.)
(Before installing the refrigerant pipe, please always confirm that the refrigerant is R410A. In case that any other refrigerant is used, the air conditioner cannot work normally.)

⚠ CAUTION

The product is a special machine using new type refrigerant (R410A). Please always comply with the following items to carry out the installation work.
- Use special pipe cutting machine and flare tools for R410A.
- When connecting the flare, please apply freezing oil (ester oil or ether oil) only on the inside of the flare.
- Always use the flare nut supplied with the air conditioner. (Never use flare nut of any other type, such as Type 1 flare nut, otherwise the refrigerant may leak out.)
- To prevent dirt, dust or moisture from entering into the inside of the pipe, please correct the pipe in the squeezed or sealed manner.

⚠ CAUTION

- Please ensure to use refrigerant of the specified type in the refrigeration cycle, and never let the air contaminate the refrigerant.
- In case that during installation any refrigerant is leaked out, the house should be ventilated for air exchange.

(1) Connect the pipe.
- Refrigerant has been filled in the outdoor unit.
- Align the connecting section of the refrigerant pipe to the center of the flare section, and firstly turn 3 – 4 operations manually, and then tighten the pipe with the specified torque.
  - To prevent the flare section from being broken or leaking air, please tighten with a torque wrench. (Please refer to Fig. 6)
- To prevent gas leakage, please apply freezing oil (ester oil or ether oil) on the inside of the flare. (Please refer to Fig. 7)
- Please fix the flare nut to the main unit. (To prevent the flare nut from aging and cracking)
- For the dimensions of the flare and the tightening torque, please refer to Table 1.

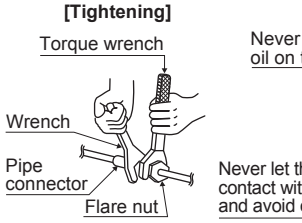


Fig. 6

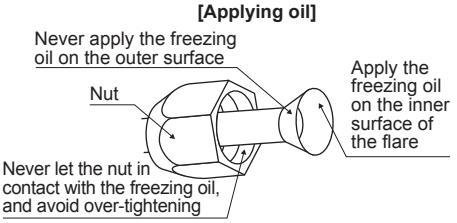
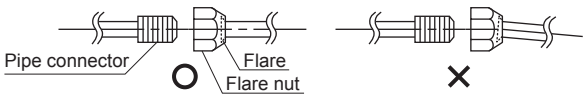
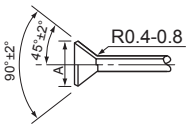


Fig. 7



Note : Please always align the center of the connection section of the refrigerant pipe with the center of the flare section and the flare nut.
Otherwise pipe breaking or refrigerant leakage can occur.

Table 1

Pipe diameter	Tightening torque	Flare dimension A (mm)	Flare
Ø 6.4 (1/4")	14.2 - 17.2N · m (144 - 176 kgf · cm)	8.7 - 9.1	
Ø 9.5 (3/8")	32.7 - 39.9N · m (333 - 407 kgf · cm)	12.8 - 13.2	
Ø 12.7 (1/2")	49.5 - 60.3N · m (504 - 616 kgf · cm)	16.2 - 16.6	
Ø 15.9 (5/8")	61.8 - 75.4N · m (630 - 770 kgf · cm)	19.3 - 19.7	

⚠ CAUTION

Over-tightening can damage the flare and result in refrigerant leakage. Please note not to let oil stick to any part outside the flare. In case that any oil sticks to parts as resin, damage can occur.

- In case that a torque wrench is not available, please refer to Table 2.
  When an ordinary wrench is used to tighten the flare nut, the nut will suddenly become tightened in some point. From such point, further tighten the nut to the angle as shown in Table 2.

It is not recommended to use this method, and it can be used only in emergency cases.
You must use a torque wrench, but if you do not have a torque wrench and have to install the unit, you can follow the following method to install.

When you complete the work, always check whether any refrigerant is leaked out.
When you use a wrench to tighten the flare nut, the tightening torque can suddenly increase in some point. From such point, further tighten the flare nut to the angle as shown below :

Table 2

Pipe dimension	Angle to be further tightened	Recommended length of the tool arm
Ø 6.4 (1/4")	60 to 90 degrees	About 150 mm
Ø 9.5 (3/8")	60 to 90 degrees	About 200 mm
Ø 12.7 (1/2")	30 to 60 degrees	About 250 mm
Ø 15.9 (5/8")	30 to 60 degrees	About 300 mm

(2) When the pipe work is completed, please confirm whether any refrigerant is leaked out.

(3) When it is checked that no refrigerant is leaked out, please refer to Fig. 8 to properly insulate the pipe connections with heat insulation material.

- When carrying out heat insulation work, please use the supplied heat insulation piece for the pipe of the liquid side and the gas supply side. In addition, the connecting seams of the heat insulation piece and for the connector shall face upward. (Please use cable tie to clamp both ends.)
- Please use the middle seal to wrap the surface of the heat insulation piece for the connector on the pipe of the gas supply side. (The flare nut section)

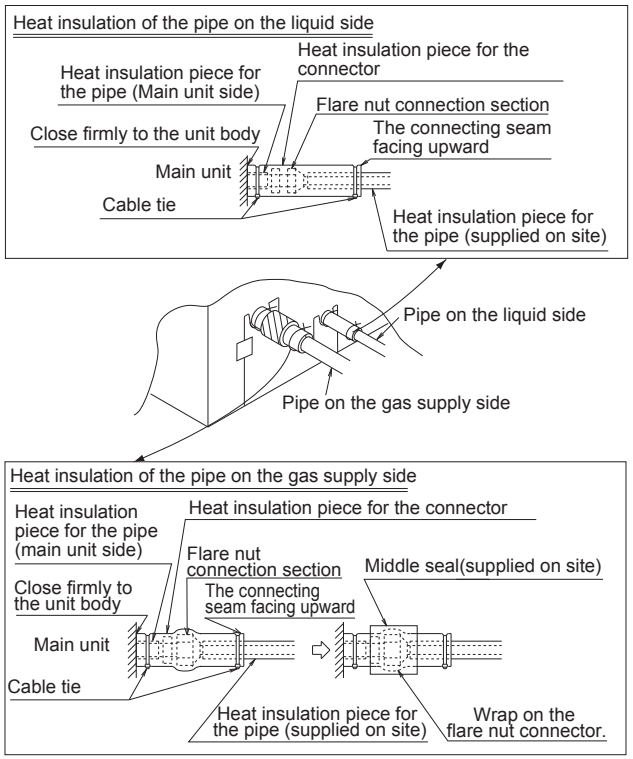


Fig. 8

⚠ CAUTION

The pipe supplied on site must be heat insulated to the connecting section of the pipe. In case that the pipe is exposed, condensate can occur, and injury from burning can also happen if touched.

- Before welding the refrigerant pipe, please firstly carry out nitrogen exchange, or when welding (Caution 2), fill in nitrogen (Caution 1) in the refrigerant pipe, and finally use the flare to connect to the indoor unit. **(Refer to Fig. 9)**

⚠ CAUTION

1. In case that nitrogen is filled into the pipe when welding, a relief valve shall be used to control the pressure to 0.02 MPa (0.2 kgf/cm^2) (as if breeze flows along your cheek).
2. When welding the connection section of the refrigerant pipe, never use any welding flux. Please use phosphorus and bronze brazing material (BCuP-2: JIS Z 3264/ BCu93P-710/795: ISO 3677) which does not need welding flux. (In case that any welding flux containing chlorine is used, the pipe can be corroded; and in case that any welding flux containing fluorin is used, the ester oil or ether oil can be deteriorated, and the refrigerant pipe system can be further influenced.)

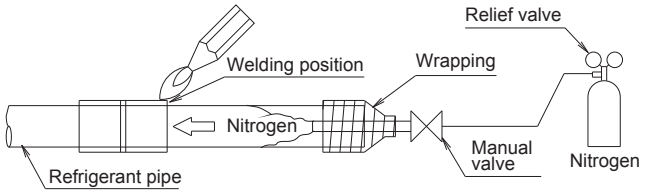


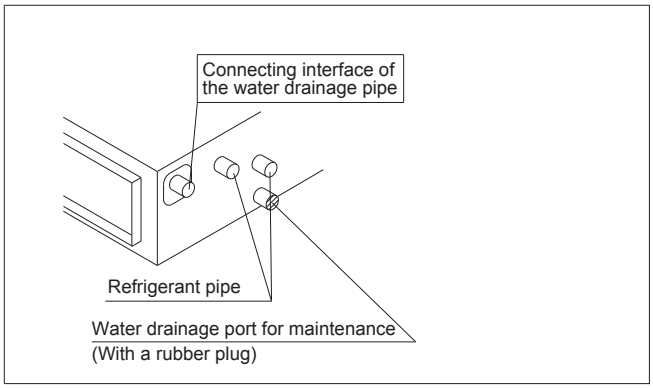
Fig. 9

7. DRAIN PIPING WORK

⚠ CAUTION

- The connecting interface of the water drainage pipe varies depending on different types, so please confirm the name of the type, and use the installation method suitable for the type.

(1) Install the water drainage pipe.



- When installing the water drainage pipe, ensure that the water drainage is smooth.
- The diameter of the water drainage pipe shall be larger than or equal to that of the connection pipe (polyethylene pipe; pipe dimensions: 20 mm; outer diameter: 26 mm). (Not including the riser pipe)

- The water drainage pipe shall be short as possible and tilt downward, and the slope shall be at least 1/100, so as to prevent the forming of any air trap. **(Refer to Fig. 10)**

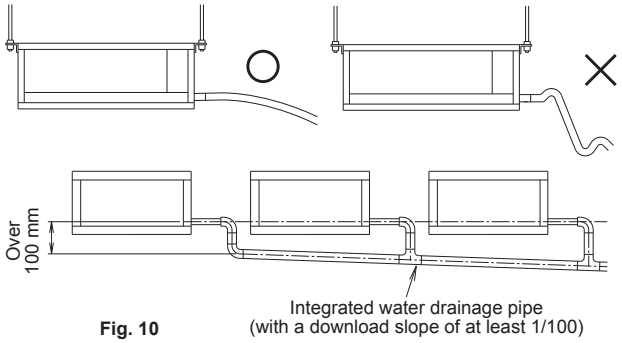


Fig. 10

⚠ CAUTION

In case that there is any accumulated water in the water drainage pipe, blockage can occur.

- To prevent the pipe from sagging, a hanging cable shall be used to hang it up every 1 ~ 1.5 m.
- Please use the water drainage hose and metal clip in the accessories. The water drainage hose shall be inserted to the bottom of the water drainage insertion opening, and the metal clip shall be used for firm fixing on the marking band in the front of the hose. Tighten the metal clip, until the protruding height of the bolt head is less than 4 mm. **(Please refer to Fig. 11 and 12)**
- The following two points shall be heat insulated, so as to prevent any condensate dripping.
  - The indoor water drainage hose
  - The water drainage insertion opening

  Please refer to the following figure to use a large seal to carry out heat insulation for the metal clip and the water drainage hose.
  (Please refer to Fig. 12)

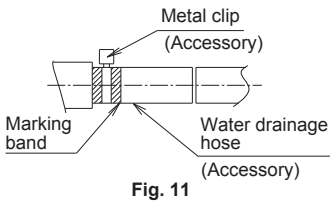


Fig. 11

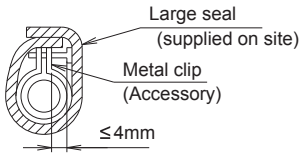


Fig. 12

(Precautions on installing the water drainage riser pipe)

- Please confirm that the height of the water drainage riser pipe is within 600 mm.
- Please keep the water drainage riser pipe vertical, and ensure that the distance from the air conditioner is within 300 mm. **(Refer to Fig. 13)**

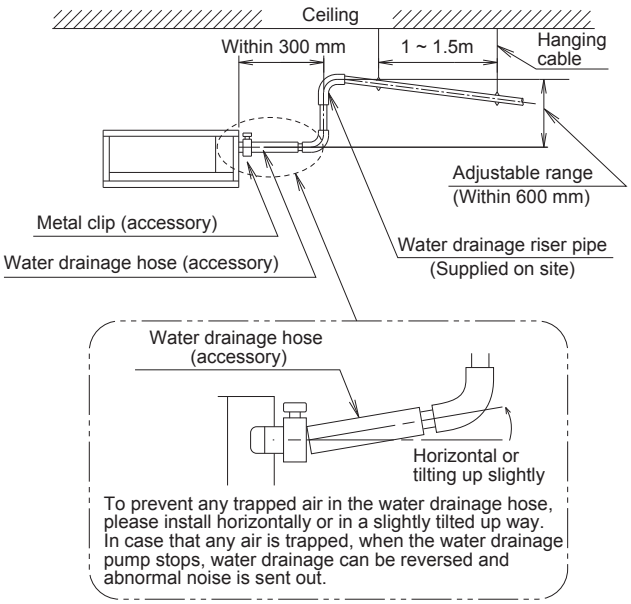


Fig. 13

(Notes)

Water drainage pipe connection

- Never directly connect the water drainage pipe to any sewage with an ammonia smell. The ammonia in the sewage can enter into the indoor unit along the water drainage pipe and corrode the heat exchanger.
- Never twist or bend the water drainage hose, and never apply too high force on it. (Otherwise water leakage can occur.)
- In case that an integrated water drainage pipe is used, please connect it as shown in Fig. 10.
- Please select the integrated water drainage pipe with proper dimensions in accordance with the capacity of the air conditioner to be connected.

(2) When the pipe work is completed, please check whether the water drainage is smooth.

⚠ CAUTION

- The electrical wiring work shall be carried out by qualified professional electricians.
- When the professional electrician is not on site, please follow Step 3 ~ 7 after the system test run is completed to carry out drainage to confirm that it works.

1. Remove the electrical box cover, and then connect the remote control cable and the power cable (Power supply: Single phase, 50 Hz, 220-240 V) to their corresponding terminal block. Also connect the grounding cable. (Refer to the below figure)

   ⚠ CAUTION

   To prevent the wiring connection from being pulled by extra tension, please follow the methods as shown in Fig. 14 to fix firmly with cable clamp.

2. Before switching on the power supply, please confirm whether the electrical box cover has been completely covered.
3. Please remove the repair cover.
4. Slowly fill about 1000 cc water into the water drainage pan from the repair opening, so as to check the water drainage situations.

   ⚠ CAUTION

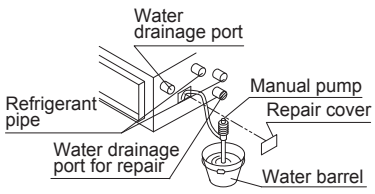
   Please never apply any external force to the floating valve switch.
   (Otherwise error can occur.)

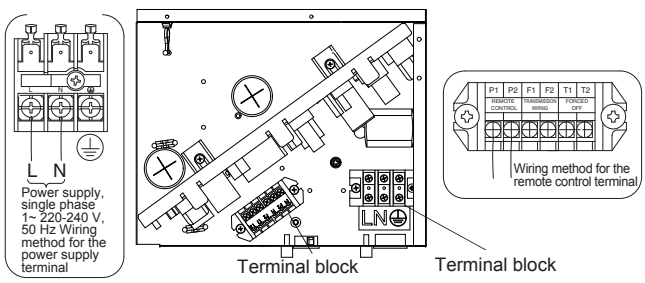
5. Please install the repair cover.
6. Please carry out the test operations from the remote control so as to check the water drainage situations. Please refer to the manuals supplied with BRC1E remote controller for detailed procedures.

   ALSO REFER TO INSTALLATION MANUAL SUPPLIED WITH OUTDOOR UNIT.

   ⚠ CAUTION

   Please note that the fan is also running at this time. Please never touch the water drainage pump to prevent any electrical shock.





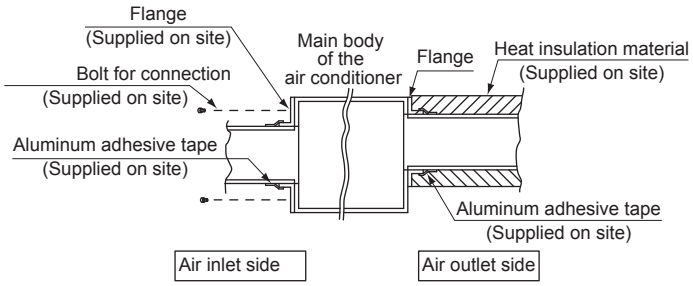
7. Please always use the remote control to switch off to stop water drainage and confirm that it works.

8. INSTALLING THE DUCT

Please connect the air duct supplied on site.

Air inlet side

- Air filter is supplied as standard on the unit. If duct is required, remove the filter before connecting duct.
- Please install the flange(supplied on site) on the air supply side.
- Please use bolts(supplied on site) to connect the flange and the main body of the air conditioner.
- Use sealing materials such as aluminum adhesive tape to seal the connection section between the flange and the air pipe on the air inlet side, so as to prevent air leakage.



Air outlet side

- Connect the air pipe to the inside of the flange in the air supply side.
- Use sealing materials such as aluminum adhesive tape to seal the connection section between the flange and the air pipe on the air outlet side, so as to prevent air leakage.

⚠ CAUTION

- Always use heat insulation material to prevent condensate on the air duct. (Material: Glass wool or foamed polyethylene, thickness: 25 mm).
- In case that the metal air duct passes any metal wire, metal wire net or metal plate of any wood structure, ensure that the air duct and the wall are (electrically) insulated.
- Please instruct the operating methods and cleaning methods of the parts supplied on site to the user (auto clear air filter, grille (suction inlet and blow outlet), etc.).
- Please follow BRC1E installation manual to set unit ESP within allowable range, failure to do so may result in higher power input.

9. ELECTRIC WIRING WORK

9-1 General

- Before carrying out any electrical work, always switch off the power supply.
- Any part and material locally purchased as well as any electrical work shall comply with the local regulations.
- Always use copper cables.
- When carrying out electrical wiring work, please also refer to the “Wiring Diagram” attached to the electrical box cover.
- For details on the wiring of the remote control, please refer to the “Installation instruction manual for remote control” supplied with the remote control.
- Any wiring work shall be carried out by qualified professional electricians.
- If the system consists of many indoor units. Please name the individual indoor units as Unit A, Unit B, …, and confirm whether the cables connecting from the terminal board to the outdoor unit and the BS device match accordingly. In case that any connection of the cables or pipes between the outdoor unit and the indoor unit is incorrect, the air conditioning system will not work normally. To prevent any error, please refer to [Wiring Examples] for wiring.
- Wire circuit breaker or electricity leakage circuit breaker must be installed in the power supply point.
- The grounding resistance must be below 4 Ω.

- Never connect the grounding cable to any gas pipe, running water pipe, lighting rod or telephone line.
  - Gas pipe : Once any gas is leaked out, explosion and fire can happen.
  - Running water pipe: In case that hard plastic pipe is used, there will be no grounding function.
  - Telephone grounding line and lighting rod : When struck by lighting, the grounding potential will become exceptionally high.
- To prevent short circuiting of the power cable, insulated sleeve terminals must be used.
- Before all the electrical work is completed, no power supply shall be switched on (wire circuit breaker or electricity leakage circuit breaker).

9-2 Specifications of standard wiring parts

Power cable, etc.

Power cable (including grounding cable)			
Number of units	Site fuse	Cable	Dimensions
1	16A	H05VV-U3G	Comply with the local regulations.

Transmission cable and remote control cable		
Cable (Note 5)		Dimensions (mm^2)
• Cases that the connected outdoor unit is 24 kW or below	• Cases that the connected outdoor unit is above 24 kW	
Shielded cable RVVP	Polyethylene sleeve flexible cable or power cable	0.75 - 1.25

Notes

1. Over-current circuit breaker can be used to replace the fuse.
2. The above Type H05VV cable is minimum specification for installation. Local standard must be conformed for alternative cables(AS/NZS 3000).
3. In case that the cable is within a place easily in contact with people, please install an electricity leakage circuit breaker to prevent electrical shock.
4. When an electricity leakage circuit breaker is used, please use a device compatible with grounding over-current protection and short circuit protection. When one special grounding protection device is used in the electricity leakage circuit breaker, always use a wire circuit breaker at the same time.
5. When the connected outdoor unit is 24 kW or below, the transmission cable and remote control cable shall be shielded.

- The length of the transmission cable and remote control cable is limited as below.

Length of the transmission cable and remote control cable

Type of outdoor unit connected	• Horizontal blow type outdoor unit connected	• Upward blow type outdoor unit connected
Outdoor unit – indoor unit	Max. length 300 m (Total cable length : 600 m)	Max. length 1000 m (Total cable length : 2000 m)
Indoor unit – remote control	Max. length 300 m	Max. length 500 m

- The shielded sections shall be wrapped with materials as insulated adhesive tape to prevent contact with any other terminal.
- The end of the shielded sections shall be closely connected to the noiseless grounding point marked with ⏚.
- Shield wire materials may be used for transmission wiring, and must comply with EMI (AS/NZS 3548) or (CISPR 14).

6. The specifications of the fuse on the circuit board(s) is: 250V, 3.15A (F1U)

   ⚠ **WARNING** : When the fuse is blown out, please have it replaced by a repair agency, but never replace it by yourself. Otherwise accidents as electrical shock can happen.

7. As the unit is equipped with a frequency converter, to prevent misoperation of the electricity leakage circuit breaker itself, please use a product which can resist against high harmonic wave.

9-3 Electrical features

Model	Power supply					Fan motor	
	Hz	Volts	Voltage range	MCA	MFA	kW	FLA
FXDQ20	50	220 - 240V	Max 264V Min 198V	0.6	15	0.078	0.5
FXDQ25				0.8		0.078	0.6
FXDQ32				0.9		0.078	0.7
FXDQ40				1.9		0.093	1.5
FXDQ50				2.1		0.093	1.7
FXDQ63				1.8		0.093	1.4

MCA : Minimum circuit current (A)
MFA : Maximum fuse current (A)
kW : Rated output power of the fan motor (kW)
FLA : Full load current (A)

10. WIRING EXAMPLE

10-1 Connection of the power cables

- As shown in the Fig. 14, please open the electrical box cover and then connect the cables.
  (Please refer to Fig. 14)

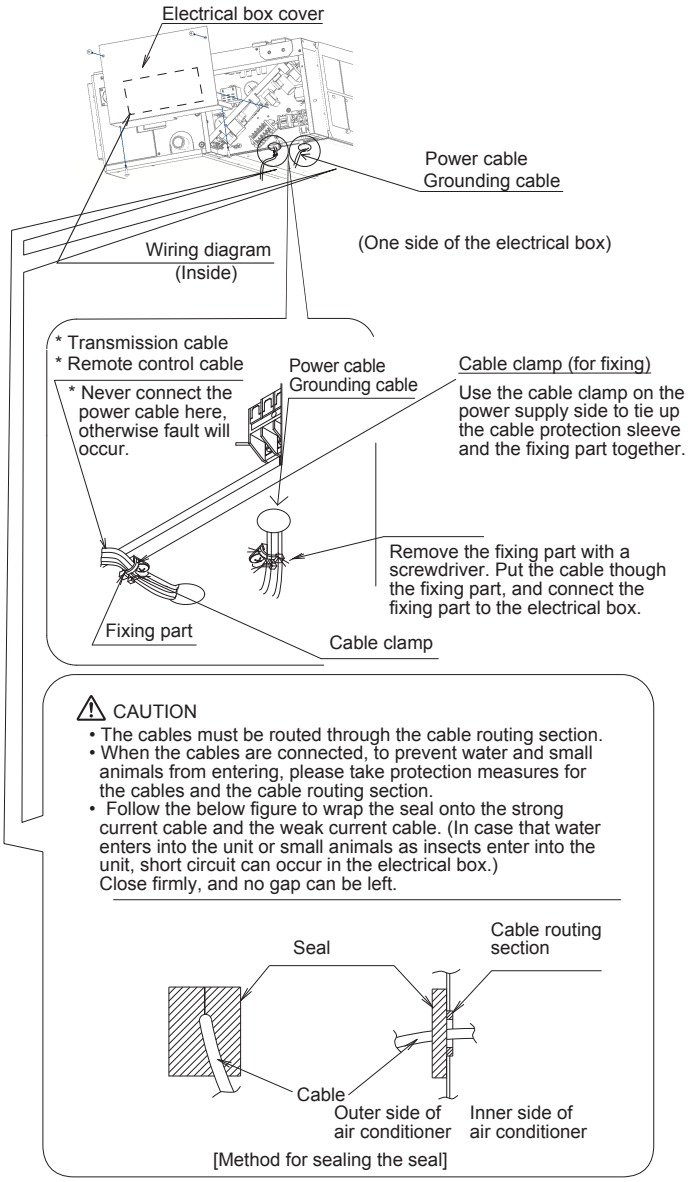


Fig. 14

⚠ CAUTION

- When fixing the cables, note to follow the method in Fig. 14 to clamp with the cable clamp, so that the connection section will not be tensioned.
- Please use the fixing part to connect the power cable and the grounding cable to the electrical box.
- When connecting the cables, the cables shall be routed orderly and placed even, and the electrical box cover shall not be supported up, and the electrical box cover shall be covered firmly.
  When covering the electrical box cover, be careful not to clamp any cable.
- Outside the air conditioner, the weak current cables (the remote control cable and the transmission cable) shall not be routed with the strong current cables (the grounding cable and the power cable), but shall be separated for a distance of over 50 mm. Otherwise misoperation and fault can happen due to electrical interference (foreign noise).

[Notes]

- For the installation and wiring of the remote control, please refer to the “Installation manual for the remote control” supplied with the remote control.
- When connecting the power supply for the air conditioner, please refer to the “Wiring Diagram” on the nameplate at the same time.
- In any circumstances, the power cable shall not be connected to the terminal block of the remote control cable or the transmission cable.
  Otherwise the whole air conditioning system will be damaged.
- Please connect the remote control cable and the transmission cable to the corresponding terminal block.
- Functional earth is only used for functional purposes only.

[Connection of the power cable, remote control cable and transmission cable]
(Please refer to Fig. 15)

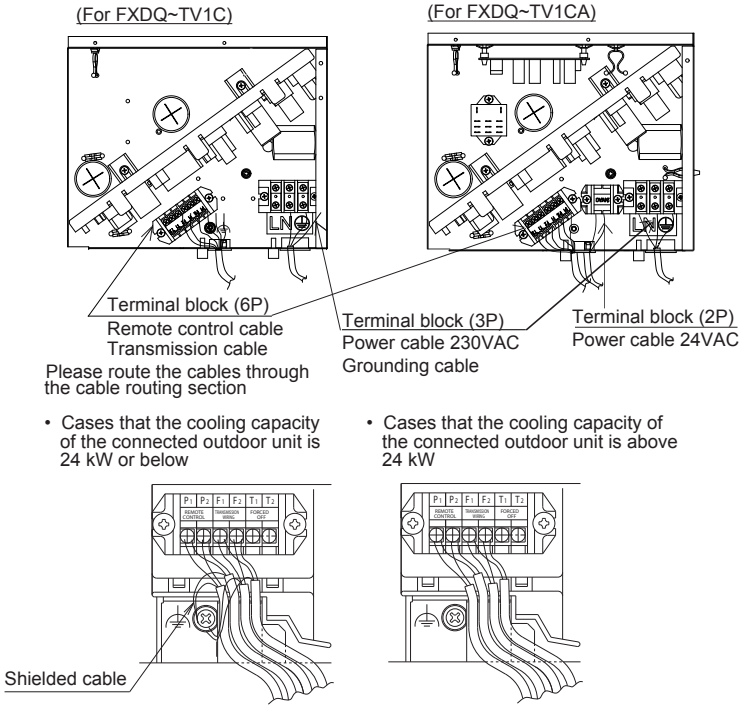
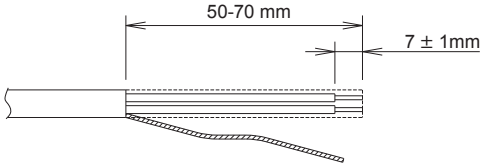


Fig. 15

- **Dimensions of the shielded cable processed (indoor connection cable)**



- **Power cable and grounding cable**
  Open the electrical box cover.
  Then, route the cables through the cable routing section into the air conditioner, and connect them to the terminal board (3P). In addition, the sleeve of the cables shall be always put into the electrical box.
  (For FXDQ~TV1CA model only) Route 24VAC power cable into the control box then connect them to the terminal board (2P).
- **Remote control cable and transmission cable**
  Route the cables through the cable routing section into the air conditioner, and connect them to the terminal board (6P). In addition, the sleeve of the cables shall be always put into the electrical box.

[Wiring Examples]

⚠ CAUTION

In case that the connected outdoor unit is 24 kW or below, please comply with the following items.

- For the remote control cable and transmission cable, always use shielded cable, and carry out noiseless grounding. (☆ and ∗ section)
- In case that wired remote control is used, always use an embedded remote control box (made of metal) on the remote control, and connect the noiseless grounding cable to the embedded remote control box. Then, ground the embedded remote control box additionally.
- In case that wireless remote control is used, always use an embedded remote control box (made of metal) on the remote control signal receiving assembly, and connect the noiseless grounding cable to the embedded remote control box.
  Then, ground the embedded remote control box additionally.

System 1 Use 1 remote control to control 1 indoor unit

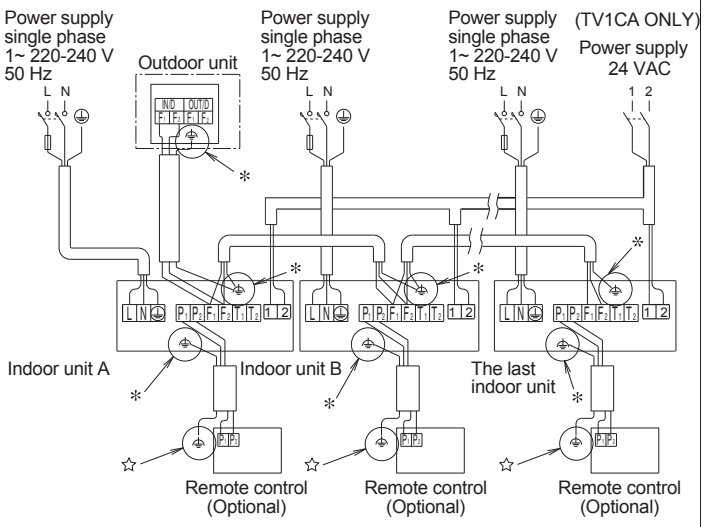


Fig. 16

System 2 Control by group or double control for one unit

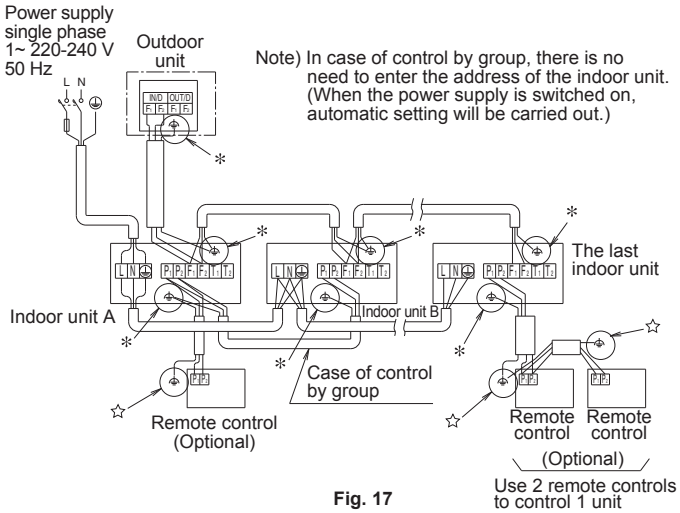


Fig. 17

System 3 Case with BS device installed

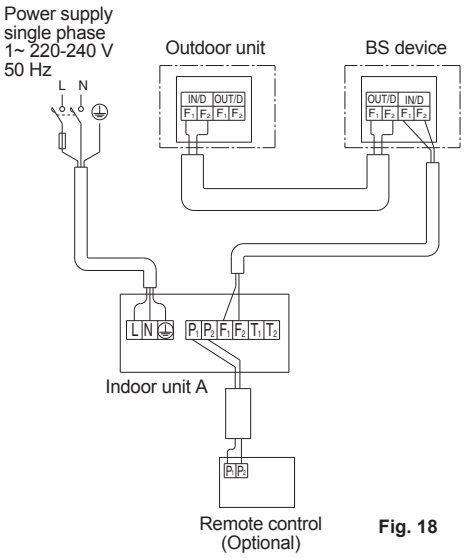
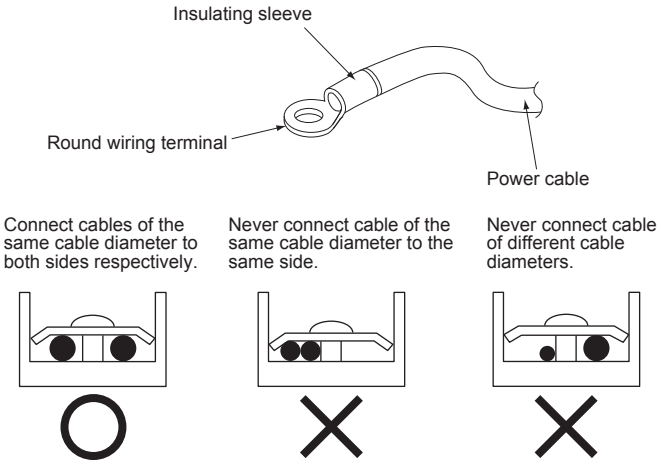


Fig. 18

(Notes when connecting the power cable)

- Never connect two cables with different cable diameters to the same power terminal. (Overheating can occur due to causes as loosened cables.)
- When connected to the terminal board, please use round wiring terminal with insulated sleeve. In case that round wiring terminal with insulated sleeve cannot be used, connect the cable of the same cable diameter to both sides of the terminal, as shown in the figure.



Risks of overheating can happen due to causes such as loosened cables, so please always comply with the following items.

- Please use power cable of the specified specifications, and firmly connect the power cable, and then confirm whether the power cable is pulled by any external force in the point of the terminal board.
- When tightening the terminal screw, please use a suitable screw driver. In case that the screw driver head is too narrow, the screw head can be damaged, and the screw may not be tightened.
- In case that the terminal screw is over-tightened, it can be damaged.
  - For the tightening torque of the terminal screw, please refer to the following table.

Terminal	Tightening torque (N・m)
Terminal board for the remote control / transmission cable (6P)	0.79 - 0.97
Terminal board for the power supply (3P)	1.18 - 1.44
Terminal for noiseless grounding (M4)	1.44 - 1.94

10-2 Double controls for one unit (One indoor unit controlled by two remote controls)

- When two remote controls are used, one must be set to “Master”, and the other must be set to “Sub”. Please refer to the installation instruction manual for the BRC1E remote control.)

Master / Sub Controller switching

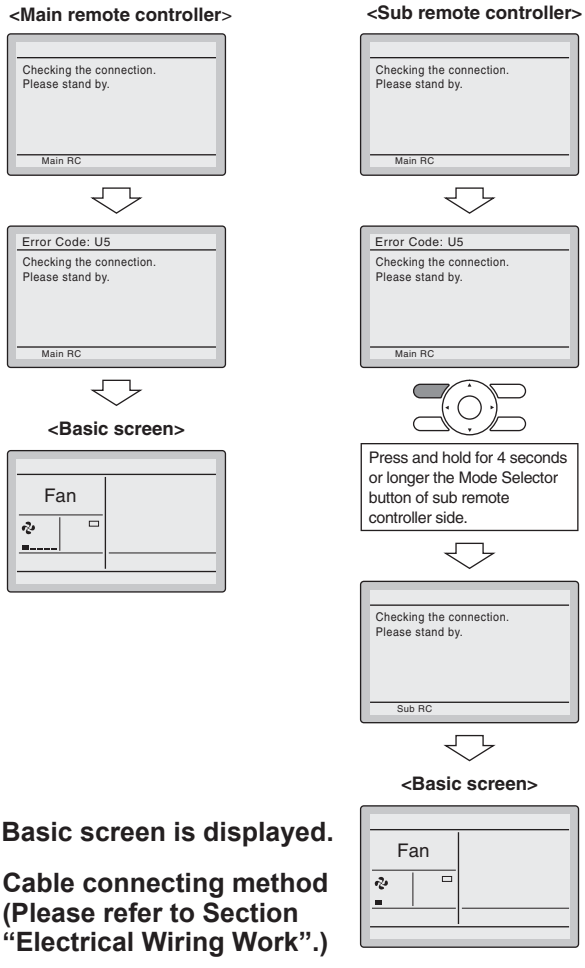
(1) Following is displayed after turn on the power:

"Checking the connection. Please stand by. "

During above display, backlight does not light by button operation.

When 1 indoor unit is controlled by 2 remote controllers:

Be sure to set sub remote controller during above display. Press and hold for 4 seconds or longer the Mode Selector button of the remote controller to be set. When the display is changed from main remote controller to sub remote controller, the setting is completed.

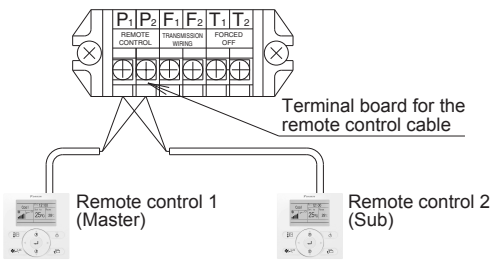


(2) Basic screen is displayed.

Cable connecting method (Please refer to Section “Electrical Wiring Work”.)

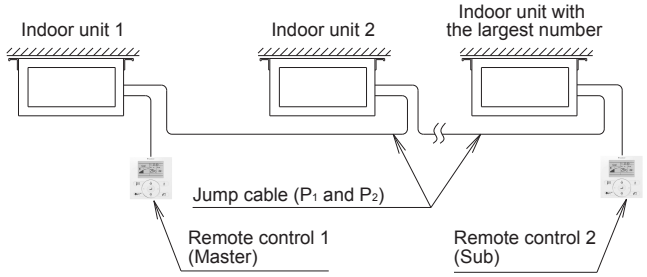
(3) Remove the electrical box cover.

(4) Connect remote control 2 (Sub) to the terminal board of the remote control cable in the electrical box (P_1 and P_2). (No polarity.)



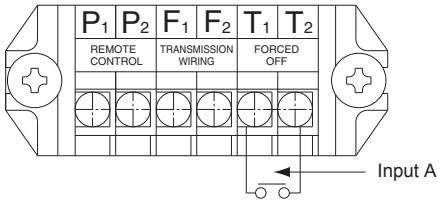
[Notes]

- In case that control by group and double remote controls are used at the same time, it is required to connect a jump cable.
- Please connect remote control 2 (Sub) to the indoor unit at the end of the jump cable (P_1 and P_2).



10-3 Remote operated control (Forced off and on / off operation)

- Connect the input cable from external to Terminal T1 and T2 on the terminal board of the remote control (6P) to carry out remote operated control.
- For the details on the operations, please refer to the instruction manual for remote controller. **“FIELD SETTING AND TEST OPERATION”**.



Cable specifications	Polyethylene sleeve flexible wire or cable (2 cores)
Section area	0.75 - 1.25mm^2
Length	Max. length 100 m
Specifications of external contactor	Minimum applicable load of the contactor 15V DC, 1 mA.

10-4 Cases of integrated control

- In case that integrated control is used, it is required to set the group number. For details, please refer to the instruction manual for integrated control.

Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

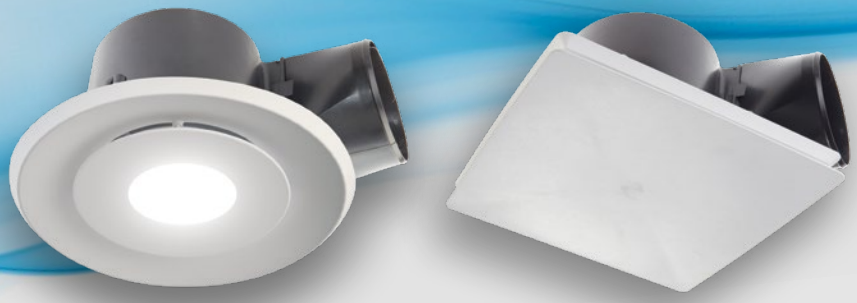
1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

RAPID RESPONSE

Header Box Exhaust Fan

Powerful Performance

Quiet Operation



The stylish ***Rapid Response*** header box exhaust fan is the quietest and most powerful in its class. Its aerodynamic and fully optimised design minimises resistance and produces strong, efficient air flow performance.

FANTECH

Intelligent Ventilation

The quietest and most powerful in its class

The Rapid Response ceiling mounted header box fan features a fully optimised inlet cone and centrifugal impeller that maximises air pressure and ensures rooms are quickly cleared of steam and unpleasant odours. Its clever design includes a unique swing clip and removable spigot that makes it very easy to install.

Rapid Response fan body available in 8 inch and 10 inch models.

IPX4

Low noise

Powerful air flow

Easy to install

Rapid Response Standard Grilles

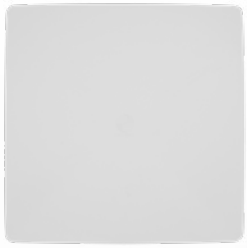
The stylish and modern Rapid Response grille is available in round and square designs with white or black finish (black finish only available with 10” model).

- Innovative design allows grilles to be easily removed for cleaning
- Available in 2 sizes to suit 8” and 10” Rapid Response header box fan
- Quick and easy to install to fan body
- Can be retrofitted to a previously installed Rapid Response fan

Round grille with black finish

Square grille with black finish

Round grille with white finish



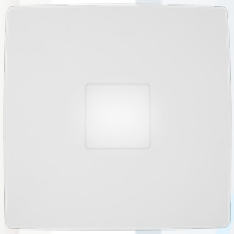
Square grille with white finish

Rapid Response Grilles with LED

The Rapid Response grille with LED light will brighten up any bathroom, ensuite or toilet. They are quick and easy to install, and feature a stylish, modern design to suit any setting. For added convenience the LED light can be controlled separately to the fan.

- Available in round and square designs with white finish
- Available in 2 sizes to suit 8” and 10” Rapid Response fan
- 8” LED model is ideal for toilets and powder rooms, as it combines both a fan and light in-one
- Can be retrofitted to a previously installed Rapid Response fan
- Innovative design allows grilles to be easily removed for cleaning
- Complies to: AS/NZS 60598.2.2:2001 and AS/NZS 60598.1:2013 Certificate No.: SAA152082

Round grille with LED light



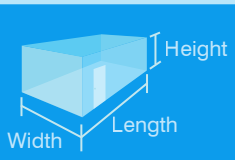
Square grille with LED light

RAPID RESPONSE
Header Box Exhaust Fan

Rapid Response Selection Guide

Step 1 — Select fan body size

Calculate room volume in m³ (Length X Width X Height)



Select suitable fan body by matching it with your application and room volume (m³) in the table below

Application	8" fan body *(RESPF8/T)*	10" fan body *(RESPF150/T)*
Toilets, Powder rooms, Walk in wardrobes, Laundries	Up to 30m³	Up to 40m³
Bathrooms, Ensuites	Up to 10m³	Up to 30m³

Step 2 — Select grille type

To suit 8" fan body *(RESPF8/T)*

- Square grille white finish *(RESPG8-SQWH)*
- Square grille white finish with LED light *(RESPG8-SQWH-LED)*
- Round grille white finish *(RESPG8-RNWH)*
- Round grille white finish with LED light *(RESPG8-RNWH-LED)*

To suit 10" fan body *(RESPF150/T)*

- Square grille white finish *(RESPG150SQWH)*
- Square grille white finish with LED light *(RESPG150SQWH-LED)*
- Squre grille black finish *(RESPG150SQBK)*
- Round grille white finish *(RESPG150RNWH)*
- Round grille white finish with LED light *(RESPG150RNWH-LED)*
- Round grille black finish *(RESPG150RNBK)*

Easy to install

Long clip-in spigot makes installation and duct connection easier.

Rotate swing clips to hold fan body in place.

Tighten screws so clips clamp onto ceiling board.

Suitable for residential and light commercial applications

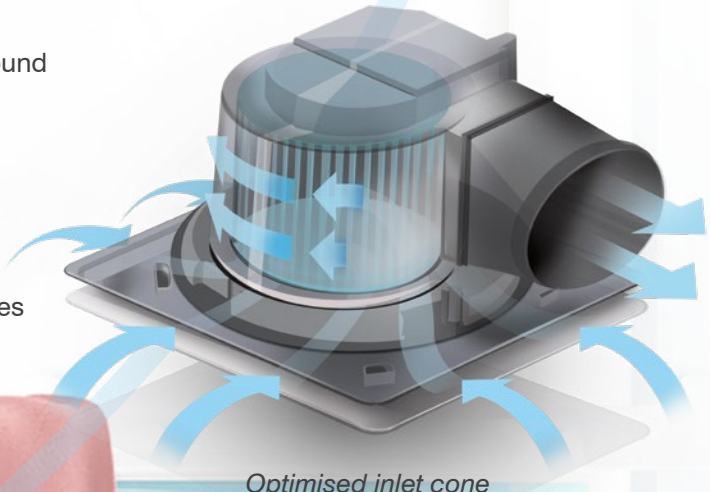
The modern and stylish Rapid Response header box fan is suitable for residential and light commercial buildings in applications such as toilets, bathrooms, laundries and ensuites. Its low profile, compact design and side exhaust outlet makes it suitable for mounting between floors and applications with limited ceiling space such as those with cathedral ceilings.

The Rapid Response housing is made from quality injected moulded, fire retardant, ABS plastic giving it a robust construction and reliable operation.

There are two sizes available; an 8 inch model and a 10 inch model, that are available with a 3 to 15 minute run-on timer. Both sizes are also available with modern looking round and square grilles that can include a high quality LED light (white finish models only).

Features and benefits

- The ultra quiet 8” model is ideal for odour and dampness removal from areas such as powder rooms, toilets, ensuites and walk in wardrobes
- 10” model provides stronger air flow performance to ensure steam is cleared from rooms such as bathrooms and ensuites
- Advanced impeller and housing design provides powerful air flow and minimises noise
- Can be retrofitted into an existing standard 8” and 10” round fan cutout
- Low resistance non-return backdraft damper maximises air flow performance
- Includes sealed for life ball bearings
- High strength swing clips make installation easy
- Available with stylish and modern square and round grilles
- Square grille can be easily rotated to align with walls

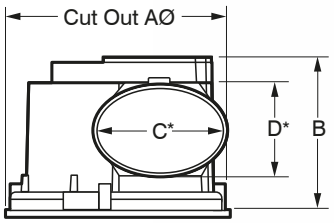


Optimised inlet cone and impeller blade design maximises air pressure.

Fan Body

Dimensional Data

Model Number	Dimensions, mm				
	Cut Out AØ	B	C*	D*	App Weight (kg)
RESPF8	250	195	94 (100mm spigot)	105 (100mm spigot)	2
RESPF8-T			170 (150mm spigot)	120 (150mm spigot)	
RESPF150	290	197	170	120	3
RESPF150T					



**RESPF8 comes with spigot to suit both 100mm and 150mm duct.*

RESPF150 comes with spigot to suit 150mm duct only.

Technical Data

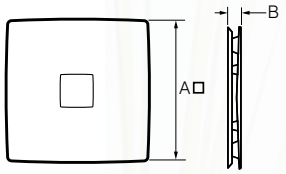
Model Number	Run-on timer	Air flow#		Fan Speed rev/sec	Average Sound Level dB(A) @ 3m	Watts	Volts
		m³/hr	L/sec				
RESPF8	No	216	60	18	29	30	240
RESPF8-T	Yes						
RESPF150	No	349	97	18	37	60	240
RESPF150T	Yes						

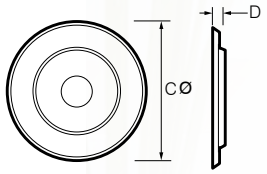
 # Air flow without duct and fittings

Grilles

Dimensional Data

	Model Number	Description	Dimensions, mm			
			A□	B	CØ	D
8" Grille	RESPG8-SQWH	8" Square Grille White Finish	300	28	-	-
	RESPG8-SQWH-LED	8" Square Grille White Finish with LED Light	300	28	-	-
	RESPG8-RNWH	8" Round Grille White Finish	-	-	294	19
	RESPG8-RNWH-LED	8" Round Grille White Finish with LED Light	-	-	294	19
10" Grille	RESPG150SQWH	10" Square Grille White Finish	353	30	-	-
	RESPG150SQBK	10" Square Grille Black Finish	353	30	-	-
	RESPG150SQWH-LED	10" Square Grille White Finish with LED Light	353	30	-	-
	RESPG150RNWH	10" Round Grille White Finish	-	-	332	24
	RESPG150RNBK	10" Round Grille Black Finish	-	-	332	24
	RESPG150RNWH-LED	10" Round Grille White Finish with LED Light	-	-	332	24





LED Grilles Specifications

Model Number	Lumens (LM)	Input power (W)	Colour Temp (K)	Beam Angle (°C)
RESPG8-SQWH-LED	1000	12	4200	180
RESPG8-RNWH-LED	800	9	4200	180
RESPG150SQWH-LED	1000	12	4200	180
RESPG150RNWH-LED	800	9	4200	180

Scan the QR Code for more information

FANTECH
Intelligent Ventilation

Fantech Pty. Ltd.

Victoria:	(+61 3) 9554 7845
New South Wales:	(02) 8811 0400
South Australia:	(08) 8294 0530
Northern Territory:	(08) 8947 0447
Queensland:	(07) 3299 9888
Western Australia:	(08) 9209 4999
A.C.T.	(02) 6280 5511
New Zealand:	(09) 444 6266

www.fantech.com.au

For sales enquiries contact:

Specifications and design subject to change without notice.

FAN0098 08/18

A

DESCRIPTION

The Fantech Velocity ceiling mounted header box fan features quiet operation and powerful air flow performance. It includes a fully optimised inlet cone and centrifugal impeller that maximises air pressure and ensures rooms are quickly cleared of steam and unpleasant odours. It includes a unique swing clip and removable spigot that makes it very easy to install into a standard 10" round fan cut out.

Typical Applications

Exhausts from residential or light commercial applications such as toilets, bathrooms, laundries, kitchens and ensuites. Its low profile compact design and side exhaust outlet makes it suitable for mounting between floors and applications with low ceiling heights such as cathedral ceilings.

Features

- Advanced impeller and housing design provides powerful air flow and minimises noise
- High strength swing clips make installation easy
- Low resistance non-return backdraft damper maximises air flow performance
- Easy to remove diffuser makes cleaning simple
- Can be retrofitted into a standard 10" round fan cut out
- Fitted plug and lead simplifies installation
- Available with a 3 to 15 minute adjustable run-on timer

Construction

Housing and diffuser are made from injected moulded polypropylene. Fans are forward-curved centrifugal, driven by a squirrel cage motor.

Motor

Type - squirrel cage induction motor.
Electricity supply - 230V, single-phase, 50Hz.
Bearings - sealed for life, ball.
See pages *O-2/3* for details on these motors.

Internal Thermal Protection

Automatic reset thermal protection is fitted as standard

Testing

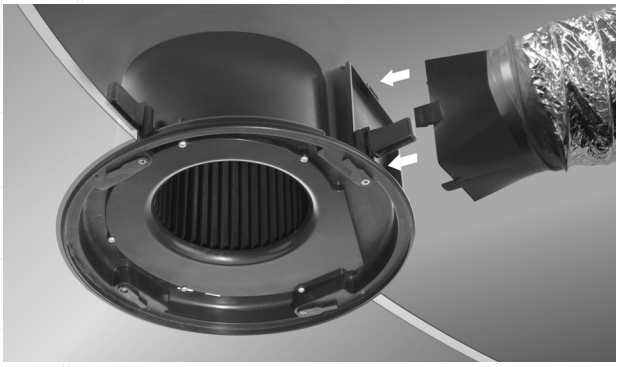
Air flow to ISO5801: 2007
Noise to ISO3744: 2010

Special Note

Timer model ECL29-150RDWT includes a plug and lead to suit HPM 4 pin socket.

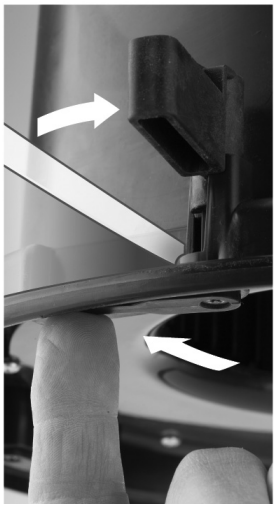
SPECIAL FEATURES

Easy duct connection



Long clip-in spigot makes installation and duct connection easier.

Installation is made easy



Rotate swing clips to hold fan body in place.

Tighten screws so clips clamp onto ceiling board.

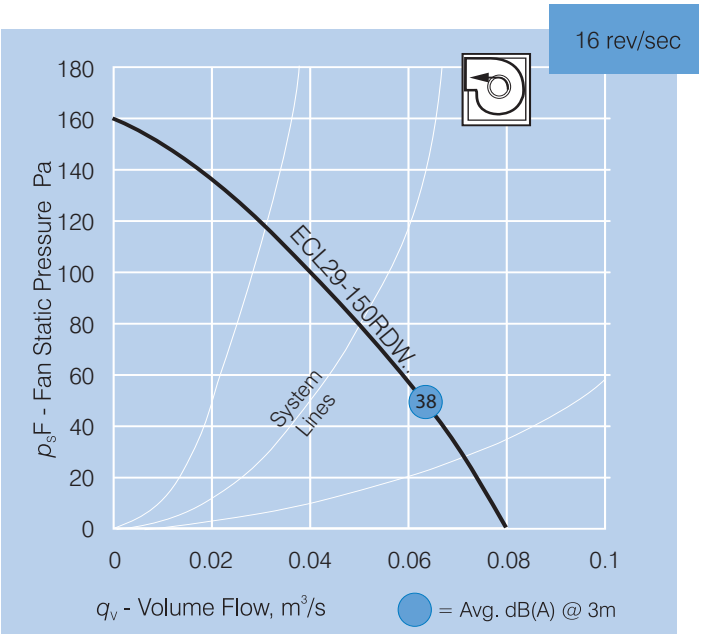
SUGGESTED SPECIFICATION

The ceiling fans shall be of the Fantech Velocity Header Box Series as designed by Fantech Pty Ltd. and be of the model number shown on the schedule/drawing.

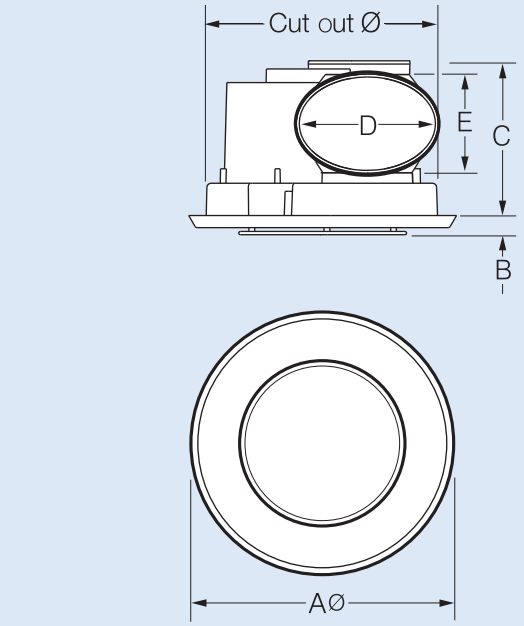
Impellers shall be forward-curved centrifugal and driven by a squirrel cage motor with integral thermal protection. They shall be fitted with high strength swing clips, removable spigot, low resistance non-return backdraft damper and removable diffuser. They shall include a plug and lead, and its housing and diffuser be made of injected moulded polypropylene.

They shall be tested to ISO5801: 2007 for air flow and ISO3744: 2010 for noise.

PERFORMANCE CURVE

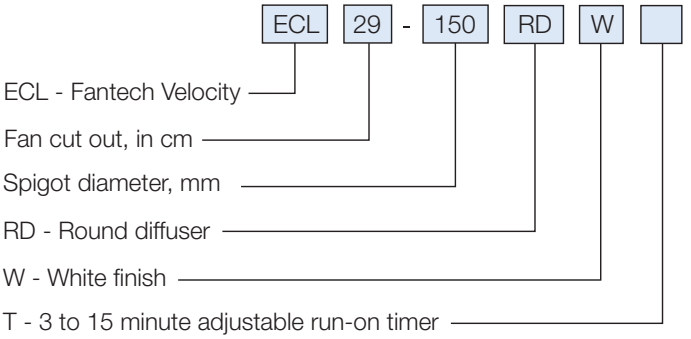


DIMENSIONS



Model Number	Description	Cut out Ø	Dimensions, mm A	B	C	D	E
ECL29-150RDW..	Round diffuser	290	332Ø	25	192	170	120

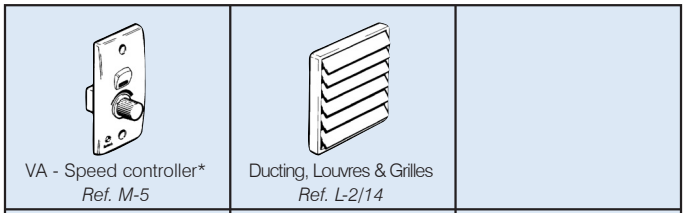
HOW TO ORDER



TECHNICAL DATA

Model Number	Fan Speed rev/sec	Avg. dB(A) @ 3m	Watts	Amps	App. Wt. kg
ECL29-150RDW..	16	38	40	0.17	3

ANCILLARY EQUIPMENT



* Not suitable for models with run-on timers

Scan the QR Code to view more information online.

Section 5

Warranties

Please find Daikin & Fantech Warranty information on the following pages

Office: 2/30 Access Crescent, Coolum Beach, QLD 4573
Postal: PO Box 6017, Maroochydore, Qld 4558
Email: admin@portcityairconditioning.com.au
Phone: 1300 PORT CITY / 07 4972 3355 **Fax:** 07 4972 1791

After Hours Emergency Phone: 0439 665 398
Website: http://www.portcitygroup.com.au/

ABN: 99 717 077 615 / QBCC: 1184073 / ARCTICK: AU12994 / ELEC: 73329

WARRANTY CLAIMS

Please complete the details below and store this card along with the purchase docket in a safe place. To claim under this Warranty, both this card and the purchase docket must be presented to or sent to Daikin Australia at the address below, or your Daikin Dealer/Installer.

WHERE THE OWNER IS A CONSUMER WITHIN THE MEANING OF THE ACL AND THERE IS A VALID CLAIM UNDER THE WARRANTY, DAIKIN AUSTRALIA WILL BEAR THE COST OF ARRANGING FOR THE REPAIR OR REPLACEMENT OF THE EQUIPMENT, INCLUDING ANY NECESSARY ATTENDANCE BY TECHNICIANS OR INSTALLERS.WHERE THE OWNER IS NOT A CONSUMER WITHIN THE MEANING OF THE ACL, DAIKIN AUSTRALIA WILL BEAR THE COST OF THE REPLACEMENT PARTS ONLY.

OUTDOOR UNIT Model No. _____ Serial No. _____

INDOOR UNIT(S) Model No. _____ Serial No. _____

Model No. _____ Serial No. _____

Model No. _____ Serial No. _____

Model No. _____ Serial No. _____

CONTROLLER(S) Model No. _____

SUPPLIED BY _____ Phone No. _____

INSTALLED BY _____ Date _____

OWNER'S NAME _____

ADDRESS _____

IMPORTANT NOTE

For repair or replacement of equipment under this Warranty it is recommended that the Owner contact their Daikin Dealer / Installer. If the owner requests Daikin Australia to perform or arrange the service call, the Owner will be liable for all associated costs if the problem is not covered by the provisions of this Warranty or the Owner's Statutory Rights.

Daikin Australia Pty Ltd ABN 62 000 172 967
62-66 Governor Macquarie Drive
Chipping Norton, NSW 2170
Phone 1300 362 438

Part No. 3PA004113
Rev. No. 1709

daikin.com.au

DAIKIN

DAIKIN VRV WARRANTY

THIS WARRANTY APPLIES TO DAIKIN VRV EQUIPMENT SUPPLIED IN AUSTRALIA.

The Daikin equipment listed on the back of this card is warranted by Daikin Australia Pty Limited (ABN 62 000 172 967) ("Daikin Australia") against defects in design, materials and workmanship as set out in this Warranty.

THIS WARRANTY **DOES NOT** COVER

a) Damage, problems or unsatisfactory performance caused by:
   i) faulty or incorrect external electrical wiring, incorrect power supply, voltage fluctuations, over voltage transients or electromagnetic interference not originating within the equipment;
   ii) incorrect or poor installation;
   iii) the use of an accessory, component or equipment not supplied by Daikin Australia;
   iv) storm, fire, flood, vandalism, abuse, misuse, negligence, Acts of God, earthquake, war, vermin, foreign matter entering the equipment (e.g. dirt and moisture) or any other outside agency;
   v) operation of the equipment in an environment where the climatic comfort of humans is not the primary function of the equipment;
   vi) operation of the equipment outside the operating conditions specified by Daikin for the equipment; or
   vii) misapplication or modification of the equipment;

b) Damage or deterioration to the external surfaces or refrigeration coils caused by normal weathering or corrosive atmospheric conditions;

c) Any costs or additional labour associated with gaining acceptable service access to equipment installed in restricted or unsafe (e.g. high) locations;

d) Freight charges (including insurance) or travelling costs for repairs performed outside the area normally serviced by Daikin Australia or a repair agent authorised by Daikin Australia;

e) Equipment which has been installed or reinstalled in a transportable or mobile unit (e.g. caravan or boat);

f) Equipment which has been re-installed at a location other than the original location;

g) Any consumable item (e.g. batteries, filters, belts) supplied with the equipment unless the item is shown to be defective at the time of purchase; or

h) Liability for any direct, indirect or consequential loss or damage, which is expressly excluded.

OWNER'S RESPONSIBILITY

The Owner is responsible for the correct operation and regular maintenance of the equipment, including:

a) Operation and maintenance of the equipment in accordance with the operating instructions.

b) Regular cleaning of the air filter(s) and replacement where necessary.

c) Ensuring that the air inlet and outlet on the outdoor unit is kept clear of any obstructions (e.g. dirt, leaves, plants).

d) Ensuring that the condensate drain is kept clean.

e) Replacement of exhausted batteries.

f) The application of additional corrosion protection if the product is installed in a corrosive environment (e.g. Industrial pollution, sea air).

The correction of any non-equipment fault or problem is not covered by this Warranty.

OWNER'S STATUTORY RIGHTS

If this equipment is supplied to an owner (the Owner) who is a consumer (within the meaning of the Australian Consumer Law or ACL):

a) The Owner has the benefit of a number of statutory guarantees, rights and remedies that are in addition to this Warranty; and

(b) Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The Owner's Australian Consumer Law guarantees, and similar statutory rights and remedies, are called the "Owner's Statutory Rights" in this Warranty.

If the Owner is not a consumer, the Owner's rights are limited to this Warranty.

THE RIGHTS GIVEN BY THE DAIKIN AUSTRALIA 5 YEAR WARRANTY ARE IN ADDITION TO THE OWNER'S STATUTORY RIGHTS.

5 YEAR WARRANTY

The equipment listed on the back of this card is warranted by Daikin Australia Pty Ltd (ABN 62 000 172 967) ("Daikin Australia") against defects in design, materials and workmanship for a period of 5 years from the date the equipment is purchased by the original owner.

Subject to the Owner's Statutory Rights, equipment defects covered by this Warranty will be repaired or replaced (with the same equipment, if available or substitute equipment of a comparable value) at the discretion of Daikin Australia without cost to the Owner for parts or direct repair labour, or replacement parts or equipment. The repair or replacement shall be performed during normal business hours by Daikin Australia or a repair agent authorised by Daikin Australia.

Any Daikin parts or Daikin equipment replaced under this Warranty will be warranted in accordance with the provisions of this Warranty for the remainder of the original warranty period or 12 months from the completion of the repair, whichever is the greater.

12 MONTH (EQUIPMENT)/36 MONTH (COMPRESSOR) WARRANTY

This Warranty applies to equipment supplied to the Owner who is not a consumer (within the meaning of the ACL).

The Daikin equipment listed on the back of this card is warranted by Daikin Australia against defects in design, materials and workmanship for a period of 12 months and all compressors contained in that equipment are so warranted against defects in design, materials and workmanship for a period of 36 months, in each case from the date the equipment is purchased by the original owner.

Equipment defects covered by this Warranty will be repaired or replaced at the discretion of Daikin Australia without cost to the Owner for replacement parts or equipment. The repair or replacement shall be performed during normal business hours by Daikin Australia or a repair agent authorised by Daikin Australia.

Any Daikin parts or Daikin equipment replaced under this Warranty will be warranted in accordance with the provisions of this Warranty for the remainder of the original warranty period or 12 months from the completion of the repair, whichever is the greater.

In respect of any equipment supplied to the Owner who is not a consumer, within the meaning of the Australian Consumer Law, all liability of Daikin Australia for any loss or damage, direct and consequential, not covered under this Warranty is expressly excluded.

In respect of any equipment that is not of a kind ordinarily acquired for personal, domestic or household use or consumption, the liability of Daikin Australia for any defect of design, materials or workmanship will be limited to any of the following as determined by Daikin Australia:-

a) replacing the equipment or supplying equivalent equipment;

b) repairing the equipment;

c) paying the cost of replacing the equipment or acquiring equivalent equipment; or

d) paying the cost of having the equipment repaired, unless the Owner establishes that this limitation of liability is unfair or unreasonable.

Please complete the details below and store this card along with the purchase docket in a safe place. To receive repair under Warranty both this card and the purchase docket must be presented.

OUTDOOR UNIT

Model No. _____ Serial No. _____

INDOOR UNIT(S)

Model No. _____ Serial No. _____

Model No. _____ Serial No. _____

Model No. _____ Serial No. _____

Model No. _____ Serial No. _____

CONTROLLER(S)

Model No. _____

SUPPLIED BY **PHONE NO.**

_____ _____

INSTALLED BY **DATE**

_____ _____

OWNER'S NAME _____

ADDRESS _____

IMPORTANT NOTE

For repair of equipment under this Warranty it is recommended that the owner contact their Daikin Dealer / Installer. If the owner requests Daikin Australia to perform or arrange the service call, the owner will be liable for all associated costs if the problem is not covered by the provisions of this Warranty or the Owner's Statutory Rights.

Daikin Australia Pty Ltd ABN 62 000 172 967
62-66 Governor Macquarie Drive
Chipping Norton, NSW 2170
Phone 1300 362 438

Part No. DADW0203
Rev. No. 1709

daikin.com.au

DAIKIN

5 YEAR WARRANTY

THIS WARRANTY APPLIES TO DOMESTIC AND "SKY AIR" PRODUCTS PURCHASED AND INSTALLED IN AUSTRALIA.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Your Australian Consumer Law guarantees, and similar statutory rights, are called the "Owner's Statutory Rights" in this Warranty.

THE RIGHTS GIVEN BY THE DAIKIN AUSTRALIA 5 YEAR WARRANTY ARE IN ADDITION TO THE OWNER'S STATUTORY RIGHTS.

The Daikin equipment listed on the back of this card is warranted by Daikin Australia Pty Limited (ABN 62 000 172 967) ("Daikin Australia") against defects in design, materials and workmanship for a period of 5 years from the date the equipment is purchased by the original owner.

Equipment defects covered by this Warranty will be repaired or replaced at the discretion of Daikin Australia (subject to the Owner's rights under the Australian Consumer Law with respect to major failures) without cost to the owner for parts or direct repair labour. The repair or replacement shall be performed during normal business hours by Daikin Australia or a repair agent authorised by Daikin Australia.

Any Daikin parts or Daikin equipment replaced under this Warranty will be warranted in accordance with the provisions of this Warranty for the remainder of the original warranty period or 12 months from the completion of the repair, whichever is the greater.

Except where inconsistent with the Owner's Statutory Rights and the rights given by this Warranty, all other warranties and all liability of Daikin Australia for any loss or damage direct and consequential is expressly excluded.

THIS WARRANTY **DOES NOT** COVER

a) Damage or problems or unsatisfactory performance caused to the equipment by faulty or incorrect external electrical wiring, incorrect power supply, voltage fluctuations, over voltage transients or electromagnetic interference not originating within the equipment.

b) Damage or problems resulting from incorrect or poor installation.

c) Damage or problems caused by the use of an accessory, component or equipment not supplied by Daikin Australia.

d) Damage or problems caused by storm, fire, flood, vandalism, misuse, negligence, Acts of God, earthquake, war, vermin, foreign matter entering the equipment (e.g. dirt and moisture) or any other outside agency.

e) Damage or deterioration to the external surfaces or refrigeration coils caused by normal weathering or corrosive atmospheric conditions.

f) Any costs or additional labour associated with gaining acceptable service access to equipment installed in restricted or unsafe (e.g. high) locations.

g) Freight charges (including insurance) or travelling cost for repairs performed outside the area normally serviced by Daikin Australia or a repair agent authorised by Daikin Australia.

h) Equipment which has been installed in a transportable or mobile application (e.g. caravan or boat).

i) Equipment which has been re-installed in a transportable or mobile application (e.g. caravan or boat).

j) Equipment which has been re-installed at a location other than the original location.

k) Any consumable item (e.g. batteries, filters, belts) supplied with the equipment unless the item is shown to be defective at the time of purchase.

l) Damage or problems or unsatisfactory performance resulting from operation in an environment where the climatic comfort of humans is not the primary function of the equipment.

m) Damage or problems or unsatisfactory performance resulting from operations at conditions outside the operating conditions specified in the Daikin technical or sales literature applicable to the equipment.

n) Damage, problems or unsatisfactory performance resulting from misapplication of the equipment.

Where this Warranty does not apply, the Owner's rights are limited to the Owner's non-excludable Statutory Rights.

OWNER'S RESPONSIBILITY

The owner is responsible for the correct operation and regular maintenance of the equipment as listed below. The correction of any non product fault or problem is not covered by this Warranty.

a) Operation and maintenance of the equipment in accordance with the operating instructions.

b) Regular cleaning of the air filter(s) and replacement where necessary.

c) Ensuring that the air inlet and outlet on the outdoor unit is kept clear of any obstructions (e.g. dirt, leaves, plants)

d) Ensuring that the condensate drain is kept clean.

e) Replacement of exhausted batteries.

f) The application of additional corrosion protection if the product is installed in a corrosive environment (e.g. Industrial pollution, sea air).

LIMITATION OF OWNER'S STATUTORY RIGHTS

In respect of any goods supplied under the contract which are not of a kind ordinarily acquired for personal domestic or household use or consumption, unless the owner establishes the following limitation of liability would not be fair and reasonable, the liability of Daikin Australia for any defect of design, materials or workmanship will be limited to any of the following as determined by Daikin Australia:

a) Replacing the equipment or supplying equivalent equipment;

b) Repairing the equipment;

c) Paying the cost of replacing the equipment or acquiring equivalent equipment;

d) Paying the cost of having the equipment repaired.

GOODS AND WARRANTY

1. When supplying goods to a consumer, the following mandated statement applies:
   "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure."

2. The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.

3. Subject to the conditions and limitation below, the Company warrants products of its manufacture to be free of defects in workmanship and/or materials at the time of delivery to the Buyer.

4. Any part, assembly or portion thereof found to be defective within one year from the date of commissioning or eighteen (18) months from date of shipment from our factory, whichever is the sooner, unless expressly stated otherwise in the Company's Publications or Literature, will be repaired or exchanged F.O.B factory.

5. The Company reserves the right to replace defective parts of the goods with parts and components of similar quality, grade and composition where an identical component is not available.

6. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

7. Goods or parts that have been returned for repair (except where the repair is as a result of the Company's failure to comply with the statutory guarantees in the ACL) or warranty assessment are deemed to have been abandoned by the Buyer if not collected within 30 days after the Company has notified the Buyer in writing of the warranty assessment outcome or the completed repair.

8. The Company reserves the right to dispose or otherwise deal with an abandoned product or part at its discretion.

9. This warranty does not apply if:
   (i) the goods have not been paid for by the Buyer as per the credit terms provided; or
   (ii) the goods have not been installed in accordance with AS NZS 3000/2000 Australian/New Zealand Wiring rules; or
   (iii) the goods have been misused or neglected.

10. The Company assumes no responsibility under this warranty for the labour costs involved in the removal of defective parts, installation of new parts or service charges related thereto.

11. If a fault covered by this warranty occurs, the Buyer must first contact the Company at the contact address listed below.

12. Any warranty claim must be accompanied by:
    (i) proof of purchase;
    (ii) written details of the alleged defect; and
    (iii) appropriate documentation (such as installation and maintenance records etc).

13. The Company shall have the option of requiring the return of the defective part (transportation prepaid by the Buyer) to establish the claim.

14. The Company makes no warranties or representations other than set out in this clause 7.

15. The repair or exchange of the goods or part of the goods, is the absolute limit of the Company's liability under this express warranty.

FANTECH
Intelligent Ventilation

Fantech Contacts

Head Office
Victoria - Melbourne
A.B.N. 11 005 434 024
Ph: +61 (3) 9554 7845
Fax: +61 (3) 9554 7833
Email: info@fantech.com.au

Australia

Adelaide	(08) 8294 0530
Brisbane	(07) 3299 9888
Darwin	(08) 8947 0447
Melbourne H.O.	**(03) 9554 7845**
Perth	(08) 9209 4999
Sydney	(02) 8811 0400

New Zealand

Auckland H.O.	(09) 444 6266
Christchurch	(03) 379 8622
Wellington	(04) 566 0532

Asia
For agents in the Asian region
call (603) 7846 0340
or visit www.eltafantechasia.com

www.fantech.com.au

Section 6

CERTIFICATION

Please find included the following documents.

Mechanical form 15 & 12

Seismic form 15 & 12

Passive fire form 12

Fire Penetration register

Office: 2/30 Access Crescent, Coolum Beach, QLD 4573
Postal: PO Box 6017, Maroochydore, Qld 4558
Email: admin@portcityairconditioning.com.au
Phone: 1300 PORT CITY / 07 4972 3355 **Fax:** 07 4972 1791

After Hours Emergency Phone: 0439 665 398
Website: http://www.portcitygroup.com.au/

ABN: 99 717 077 615 / QBCC: 1184073 / ARCTICK: AU12994 / ELEC: 73329

Form 15—Compliance Certificate for building Design or Specification

NOTE

This is to be used for the purposes of section 10 of the *Building Act 1975* and/or section 46 of the *Building Regulation 2006.*
RESTRICTION: A building certifier (class B) can only give a compliance certificate about whether building work complies with the BCA or a provision of the QDC. A building certifier (Class B) can not give a certificate regarding QDC boundary clearance and site cover provisions.

1. Property description
This section need only be completed if details of street address and property description are applicable.
EG. In the case of (standard/generic) pool design/shell manufacture and/or patio and carport systems this section may not be applicable. The description must identify all land the subject of the application.The lot & plan details (eg. SP / RP) are shown on title documents or a rates notice. If the plan is not registered by title, provide previous lot and plan details.

Street address *(include no., street, suburb / locality & postcode)*

3-15 Archer St

Toowong Postcode **4066**

Lot & plan details *(attach list if necessary)*

Lots 3 RP 70716

In which local government area is the land situated?

Brisbane City Council

2. Description of component/s certified
Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.

1) Ventilation to basement and mezzanine carpark levels including podium levels enclosed ramps.
2) General ventilation to ground floor pump/garbage/MSB rooms.
3) Apartment ventilation to bathrooms, ensuites, laundries and kitchen ranges.

Excludes: all air conditioning and stairwell pressurisation systems (Fire engineered out)

3. Basis of certification
Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon.

NCC2019, Section J5 for podium, ground, mezzanine, and basement 1 & 2.
BCA2009 section J5 for apartment levels,
NCC2019 Sections F6.3, F4.5, J3.5

AS 1668.2, AS1668.1

OMNI FER 5766102 (Rev C dated 24 May 2021)

4. Reference documentation
Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

Drawings as follows:

Drawing Reference:	Revision
#05788 PORTCITY 211224 The Patterson-M000	2
#05788 PORTCITY 211224 The Patterson-M001	2
#05788 PORTCITY 211224 The Patterson-M100	6
#05788 PORTCITY 211224 The Patterson-M101	6
#05788 PORTCITY 211224 The Patterson-M102	6
#05788 PORTCITY 211224 The Patterson-M103	7
#05788 PORTCITY 211224 The Patterson-M104	6
#05788 PORTCITY 211224 The Patterson-M105	6
#05788 PORTCITY 211224 The Patterson-M106	5
#05788 PORTCITY 211224 The Patterson-M107	5
#05788 PORTCITY 211224 The Patterson-M108	5
#05788 PORTCITY 211224 The Patterson-M109	5
#05788 PORTCITY 211224 The Patterson-M110	5
#05788 PORTCITY 211224 The Patterson-M111	5
#05788 PORTCITY 211224 The Patterson-M112	5
#05788 PORTCITY 211224 The Patterson-M113	5
#05788 PORTCITY 211224 The Patterson-M114	5
#05788 PORTCITY 211224 The Patterson-MS1	4

21-05-21_HVAC Alliance SID report

5. Building certifier reference number	Building certifier reference number -
6. Competent person details **A competent person for building work, means a person who is assessed by the building certifier for the work as competent to practise in an aspect of the building and specification design, of the building work because of the individual's skill, experience and qualifications in the aspect. The competent person must also be registered or licensed under a law applying in the State to practice the aspect.** **If no relevant law requires the individual to be licensed or registered to be able to give the help, the certifier must assess the individual as having appropriate experience, qualifications or skills to be able to give the help.** **If the chief executive issues any guidelines for assessing a competent person, the building certifier must use the guidelines when assessing the person.**	Name (in full) **Peter Logovik for an on behalf of Port City Air Conditioning** Company name (if applicable) Contact person **HVAC Alliance Pty Ltd** / **Peter Logovik** Phone no. business hours Mobile no. Fax no. **Nil** / Nil / **0433160350** Email address **peterl@hvacalliance.solutions** Postal address **1 Prince St** **Virginia** **Postcode 4014** Licence or registration number (if applicable) **RPEQ 21430**
7. Signature of competent person **This certificate must be signed by the individual assessed by the building certifier as competent.**	Signature Date  / **25 / 06 / 2021**

LOCAL GOVERNMENT USE ONLY

Date received		Reference Number/s	

Form 12 Aspect Inspection Certificate (Appointed Competent Person)

Queensland Government

This form is to be used for the purposes of sections 74 and 77 of the Building Regulation 2021 (appointed competent person statement that an aspect of work has been completed and complies with the building development approval).

Information about how to complete this form is in the Appendix at the end of the form.

1. Indicate the aspect of the building work

Examples of aspects of the stage of building work (and not limited to the examples provided below):

waterproofing, tiling, glazing, energy efficiency, emergency lights, exit signs, smoke detection, air-conditioning.

Aspect of building work (indicate the aspect)
Mechanical Air Conditioning and Ventilation

2. Property description

The description must identify all land the subject of the application.

The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.

If the plan is not registered by title, provide previous lot and plan details.

Street address	3 – 15 Archer Street		
		Suburb/locality	Toowong
State	QLD	Postcode	4066

Lot and plan details *(attach list if necessary)*
L2 & L3 on RP.70716
Local government area the land is situated in
Brisbane City Council

3. Building/structure description

Building/structure description
Apartment and Basement Car Park

Class of building/structure
Class 2 & 7a

4. Description of the extent of aspect/s certified

Clearly describe the extent of work covered by this certificate, i.e. all structural aspects of the steel roof beams and location i.e. what floors the work was on, the parts of a room.

Mechanical (Air Conditioning, Smoke exhaust, Carpark exhaust, Dampers, Zones, Ventilation, Toilet exhaust)

5. Basis of certification

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.

Mechanical Ventilation for exhaust air systems compliant with part F4 of the BCA
Mechanical Ventilation and/or AC Systems compliant with part F4.5 of the BCA, AS1668.2-1991 and AS/NZS-as applicable
Energy efficiency requirement compliant with Part J5 Air Conditioning and Ventilation systems of the BCA
B1.2, B1.4
AS1668 1 & 2
AS/NZS 3666.1
NCC Clause F6.2
AS1170.4
Tested system under C3.15 (Passive fire form 12)
NCC Specification C2.5 (Passive fire form 12)

6. Reference documentation

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

M100, M101, M102, M103, M104, M105, M106, M107, M108, M109, M110, M111, M112, M113, M114.

7. Building certifier reference number and building development approval number

Building certifier's name *(in full)*			
Building certifier reference number		Development approval number	A005708978

8. Details of appointed competent person

Name *(in full)*	Daine Ross Smith		
Company name *(if applicable)*	Port City Air Conditioning Pty Ltd		
Contact person	Daine Ross Smith		
Business phone number	07 5443 4095	Mobile	0439 665 398
Email address	daine@portcityair.com.au		
Postal address	PO Box 6017		
		Suburb/locality	Maroochydore
State	QLD	Postcode	4558
Licence class or registration type *(if applicable)*	Refrigeration, Air conditioning & Mechanical Services incl Limited Design		
Licence class or registration number *(if applicable)*	1184073		
Date request to inspect received from building certifier	9/03/2023		

9. Signature of appointed competent person

Signature		Date	9/03/2023

LOCAL GOVERNMENT USE ONLY

Date received	Click or tap to enter a date.	Reference number/s	

Appendix – explanatory information

IMPORTANT NOTE: a competent person who knowingly or reasonably suspects the information they are giving to the building certifier is false or misleading, including the information contained in this certificate (Form 12), commits an offence and is liable to a maximum penalty of 100 penalty units.

When is this certificate needed? (sections 10 of the *Building Act 1975* (Building Act) and 75 of Building Regulation 2021 (BR 2021))

When performing a building certification function, a building certifier may accept and rely on ***an aspect inspection certificate*** from an appointed competent person to satisfy themselves that an aspect of work has been completed and complies with the building development approval.

For a single detached class 1a building a building certifier can only accept this form for an aspect of work that is for

- boundary clearance if the appointed competent person is a cadastral surveyor, and,
- the reinforcement of footing systems if the appointed competent person is the appropriate registered professional engineer.

For further information about inspections for detached class 1a and 10 buildings or structures, refer to **Guideline for inspections of class 1 and 10 buildings and structures.**

Who can sign this certificate (Form 12)? (Part 9, Division 2, Section 74 of the BR 2021)

A person assessed and appointed as a competent person (inspections) must complete the approved form (Form 12) and give it to the building certifier after they (1) inspect the aspect of work; and (2) are satisfied the aspect of work has been completed and complies with the building development approval.

Competent person (section 10 Part 6 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can, as a competent person, give inspection help or design-specification help. The building certifier is required to keep detailed records about what was considered when appointing a competent person.

A competent person cannot give inspection help to a building certifier until they have been appointed by the building certifier. For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons.**

Inspection help (section 34 of the BR 2021)

A building certifier must be satisfied that an individual is competent to give the type of inspection help having regard to the individual's experience, qualifications and skills and if required by law to hold a licence or registration, that the individual is appropriately registered or licensed.

For further information about conducting inspections for class 2 to 9 buildings, refer to the **Guideline for inspection of class 2 to 9 buildings.**

How to complete this form

Section 1 – Aspect of building work

An aspect of building work means a component of a stage of the building work, for example water proofing. A stage of assessable building work (requires a building development approval) is a stage of the work, prescribed by regulation, that may be inspected, or stated in a building development approval by the relevant building certifier.

Section 2 – Property description

The property description must identify all the land the subject of the application. The lot and plan details (e.g. SP/RP) can be found on title documents or a rates notice. If the plan is not registered by title, provide previous lot and plan details.

Section 3 – Building / structure description

Describe the type of building or structures and provide the classification determined under the National Construction Code (NCC). The NCC can be accessed at the Australian Building Codes Board's website.

Section 4 – Describe the extent or location of the aspect work inspected.

Clearly describe the extent of work covered by this certificate, i.e. all structural aspects of the steel roof beams and location i.e. what floors the work was on, the parts of a room.

Sections 5 – Basis for the certification and section 6 Reference documentation (section 77 of BR 2021)

The appointed competent person (inspections) must state the basis for giving the certificate (Form 12) including the extent to which the competent person has relied on tests, specifications, rules, standards, codes of practice or other publications to make their decision that the aspect of work has been completed and complies with the building development approval.

Under the regulation (section 76) the appointed competent person (inspections) may accept and rely on a certificate (Form 12) from another appointed competent person (inspections) without inspecting the work. Although this can only be done if the inspection was carried out in accordance with best industry practice.

Other relevant inspection / aspect forms

Aspect work – assessable building work: Form 43 – Aspect certificate (completed by a QBCC licensee) for aspect work for a single detached class 1a building and class 10 buildings and structures.

Aspect work not subject to a building development approval - accepted development (self-assessable): Form 30 – (completed by a QBCC licensee) given to either the builder or building owner of the building, stating the subject aspect work complies with the relevant provisions, standards and codes.

Stages of work: Form 16 – Inspection certificate (completed by a building certifier or competent person) for a stage of work.

Building design – specification: Form 15 – Compliance certificate for building design or specification (completed by the appointed competent person (design – specification)) - for an aspect of stating a building design – specification will, if installed or carried out to the detail under this Form will comply with the building assessment provisions.

For all other building forms and guidelines visit the Business Queensland website.

PRIVACY NOTICE

The Department of Energy and Public Works is collecting personal information as required under the *Building Act 1975*. This information may be stored by the Department, and will be used for administration, compliance, statistical research and evaluation of building laws. Your personal information will be disclosed to other government agencies, local government authorities and third parties for purposes relating to administering and monitoring compliance with the *Building Act 1975*. Personal information will otherwise only be disclosed to third parties with your consent or unless authorised or required by law.

Form 12 Aspect Inspection Certificate (Appointed Competent Person)

Queensland Government

This form is to be used for the purposes of sections 74 and 77 of the Building Regulation 2021 (appointed competent person statement that an aspect of work has been completed and complies with the building development approval).

Information about how to complete this form is in the Appendix at the end of the form.

1. Indicate the aspect of the building work

Examples of aspects of the stage of building work (and not limited to the examples provided below):

waterproofing, tiling, glazing, energy efficiency, emergency lights, exit signs, smoke detection, air-conditioning.

Aspect of building work (indicate the aspect)

The inspection for Port City Air Conditioning of the installation of air conditioning services penetrating fire rated elements in the construction of this building.

2. Property description

The description must identify all land the subject of the application.

The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.

If the plan is not registered by title, provide previous lot and plan details.

Street address *(include number, street, suburb/locality and postcode)*

3 - 15 Archer Street,

Toowong. State QLD Postcode 4066

Lot and plan details *(attach list if necessary)*

Lot 2 & 3 on RP 70716

Local government area the land is situated in

Brisbane City Council

3. Building/structure description

Building/structure description	Class of building/structure
New multi-storey residential apartment building	2
New Ancillary car parking	7a

4. Description of the extent of aspect/s certified

Clearly describe the extent of work covered by this certificate, i.e. all structural aspects of the steel roof beams and location i.e. what floors the work was on, the parts of a room.

The inspection of the installation of mechanical air conditioning pipe work penetrating fire rated concrete slabs and fire walls in accordance with the requirements of the BCA.

5. Basis of certification Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.	The inspection of penetrations in accordance with the requirements of Section C3.12 & 3.15 and C2.5 of the N.C.C. 2019, volume 1 . The products installed have been tested to meet the requirements of A.S. 1530 part 4, 2014 and A.S. 4072.1, 2005 where applicable.

6. Reference documentation Clearly identify any relevant documentation, e.g. numbered structural engineering plans.	Test Certificates included. PCA Penetration Register. FER 5766102 Rev. D

7. Building certifier reference number and building development approval number	Building certifier's name *(in full)* Building certifier reference number Building development approval number

8. Details of appointed competent person	Name *(in full)* James Barrie Macleod Paterson Company name *(if applicable)* Passive Fire Services (Qld) Pty Ltd Contact person Jim Business phone number 0438745419 Mobile number 0438745419 Email address jim@pfsqld.com.au Postal address PO Box 3305 Bracken Ridge State QLD Postcode 4017 Licence class or registration type *(if applicable)* Passive Fire Protection - fire collars, penetrations & joint sealing Licence class or registration number *(if applicable)* 15194016 Date request to inspect received from building certifier

9. Signature of appointed competent person	Signature Date 10/03/2023

LOCAL GOVERNMENT USE ONLY

Date received		**Reference number/s**	

Appendix – explanatory information

IMPORTANT NOTE: a competent person who knowingly or reasonably suspects the information they are giving to the building certifier is false or misleading, including the information contained in this certificate (Form 12), commits an offence and is liable to a maximum penalty of 100 penalty units.

When is this certificate needed? (sections 10 of the *Building Act 1975* (Building Act) and 75 of Building Regulation 2021 (BR 2021))
When performing a building certification function, a building certifier may accept and rely on ***an aspect inspection certificate*** from an appointed competent person to satisfy themselves that an aspect of work has been completed and complies with the building development approval.

For a single detached class 1a building a building certifier can only accept this form for an aspect of work that is for

- boundary clearance if the appointed competent person is a cadastral surveyor, and,
- the reinforcement of footing systems if the appointed competent person is the appropriate registered professional engineer.

For further information about inspections for detached class 1a and 10 buildings or structures, refer to **Guideline for inspections of class 1 and 10 buildings and structures**.

Who can sign this certificate (Form 12)? (part 9, division 2, section 74 of the BR 2021)
A person assessed and appointed as a competent person (inspections) must complete the approved form (Form 12) and give it to the building certifier after they (1) inspect the aspect of work; and (2) are satisfied the aspect of work has been completed and complies with the building development approval.

Competent person (section 10, Part 6 of the BR 2021)
A building certifier must assess and decide to appoint an individual as a competent person before they can, as a competent person, give inspection help or design-specification help. The building certifier is required to keep detailed records about what was considered when appointing a competent person.

A competent person cannot give inspection help to a building certifier until they have been appointed by the building certifier. For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons**.

Inspection help (section 34 of the BR 2021)
A building certifier must be satisfied that an individual is competent to give the type of inspection help having regard to the individual's experience, qualifications and skills and if required by law to hold a licence or registration, that the individual is appropriately registered or licensed.

For further information about conducting inspections for class 2 to 9 buildings, refer to the **Guideline for inspection of class 2 to 9 buildings**.

How to complete this form

Section 1 – Aspect of building work
An aspect of building work means a component of a stage of the building work, for example water proofing. A stage of assessable building work (requires a building development approval) is a stage of the work, prescribed by regulation, that may be inspected, or stated in a building development approval by the relevant building certifier.

Section 2 – Property description
The property description must identify all the land the subject of the application. The lot and plan details (e.g. SP/RP) can be found on title documents or a rates notice. If the plan is not registered by title, provide previous lot and plan details.

Section 3 – Building / structure description
Describe the type of building or structures and provide the classification determined under the National Construction Code (NCC). The NCC can be accessed at the Australian Building Codes Board's website.

Section 4 – Describe the extent or location of the aspect work inspected.
Clearly describe the extent of work covered by this certificate, i.e. all structural aspects of the steel roof beams and location i.e. what floors the work was on, the parts of a room.

Sections 5 – Basis for the certification and section 6 Reference documentation (section 77 of BR 2021)
The appointed competent person (inspections) must state the basis for giving the certificate (Form 12) including the extent to which the competent person has relied on tests, specifications, rules, standards, codes of practice or other publications to make their decision that the aspect of work has been completed and complies with the building development approval.

Under the regulation (section 76) the appointed competent person (inspections) may accept and rely on a certificate (Form 12) from another appointed competent person (inspections) without inspecting the work. Although this can only be done if the inspection was carried out in accordance with best industry practice.

Other relevant inspection / aspect forms

Aspect work – assessable building work: Form 43 – Aspect certificate (completed by a QBCC licensee) - for aspect work for a single detached class 1a building and class 10 buildings and structures .

Aspect work not subject to a building development approval - accepted development (self-assessable): Form 30 – (completed by a QBCC licensee) - given to either the builder or the owner of the building, stating the subject aspect work complies with the relevant provisions, standards and codes.

Stages of work: Form 16 – Inspection certificate (completed by a building certifier or competent person) for a stage of work.

Building design – specification: Form 15 – Compliance certificate for building design or specification (completed by a competent person (design – specification)) for an aspect of stating a building design – specification will, if installed or carried out to the detail under this Form will comply with the building assessment provisions.

For all other building forms and guidelines visit the Business Queensland website.

PRIVACY NOTICE

The Department of Energy and Public Works is collecting personal information as required under the *Building Act 1975*. This information may be stored by the Department, and will be used for administration, compliance, statistical research and evaluation of building laws. Your personal information will be disclosed to other government agencies, local government authorities and third parties for purposes relating to administering and monitoring compliance with the *Building Act 1975*. Personal information will otherwise only be disclosed to third parties with your consent or unless authorised or required by law.

Port City Air Conditioning Fire Penetration Register
3-15 Archer St, Toowong, Brisbane, 4066

Lot & Plan Details: L2 & L3 on RP.70716
Building Description / Class: Class 2 & 7a

Development Approval
A005708978

Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
1 FD	Level 1 Switch Room	120 / 120	Fire Damper / Core Filled wall	400 x 400 x 200	Holyoake / EWFA 2358000.5	M103
2 FD	Level 1 Switch Room	120 / 120	Fire Damper / Core Filled wall	350 x 350 x 200	Holyoake / EWFA 2358000.5	M103
3 FD	Level 1 Ramp	120 / 120	Fire Damper / Formed concrete	500 x 500 x 200	Holyoake / EWFA 2358000.5	M103
4 FD	Level 1 Fire Escape	120 / 120	Fire Damper / Fire Wall	1200 x 1800 x 90	Holyoake / EWFA 2358000.5	M103
1A	Level 1 Fire Stair	120 / 120	FyrePEX / Core Filled wall	110Ø	Trafalgar / FAR4849	M103
1B	Level 1 Fire Stair	120 / 120	FyrePEX / Formed concrete	110Ø	Trafalgar / FAR4849	M103
1C	Level 1 Fire Stair	120 / 120	FyrePEX / Formed concrete	110Ø	Trafalgar / FAR4849	M103

Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
5 FD	Level 3 Ramp	120 / 120	Fire Damper / Formed concrete	1250 x 1700 x 200	Holyoake / EWFA 2358000.5	M105

Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
400 A	Level 4 Riser	120 / 120	FyreBox cast in / Concrete Slab	350 x 125	Trafalgar / FC10266-001	M106
400 B	Level 4 Riser	120 / 120	FyreBox cast in / Concrete Slab	650 x 125	Trafalgar / FC10266-001	M106
401 A & 401 B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M106
402 A & 402 B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M106
403 A & 403 B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M106
404 A & 404 B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M106
405 A & 405 B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M106
406 A & 406 B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M106

Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
501, 601, 701, 801, 901 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M107
502, 602, 702, 802, 902 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M107
503, 603, 703, 803, 903 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M107
504, 604, 704, 804, 904 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M107
505, 605, 705, 805, 905 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M107
506, 606, 706, 806, 906 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M107
500 A1	Level 5 Riser	120 / 120	FyreBox cast in / Concrete Slab	350 x 125	Trafalgar / FC10266-001	M107
500 A2	Level 5 Riser	120 / 120	FyreBox cast in / Concrete Slab	650 x 125	Trafalgar / FC10266-001	M107
500 B, BB	Level 6 Riser	120 / 120	FyrePEX / In Slab	110Ø	Trafalgar / FAR4849	M107
500 C, CC	Level 6 Riser	120 / 120	FyrePEX / In Slab	110Ø	Trafalgar / FAR4849	M107
600	Level 6 Riser	120 / 120	FyreBox cast in / Concrete Slab	350 x 125	Trafalgar / FC10266-001	M107
600 A, B, C	Level 6 Riser	120 / 120	FyrePEX / In Slab	110Ø	Trafalgar / FAR4849	M107
600 AA, BB, CC	Level 7 Riser	120 / 120	FyrePEX / In Slab	110Ø	Trafalgar / FAR4849	M107
800 A, B , C	Level 8 Riser	120 / 120	FyrePEX / In Slab	110Ø	Trafalgar / FAR4849	M107
800 AA, BB, CC	Level 9 Riser	120 / 120	FyrePEX / In Slab	110Ø	Trafalgar / FAR4849	M107

Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
1001 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M108
1003 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M108
1004 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M108
1005 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M108
1006 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M108
1000	Level 10 riser	120 / 120	FyreBox cast in / Concrete Slab	350 x 125	Trafalgar / FC10266-001	M108

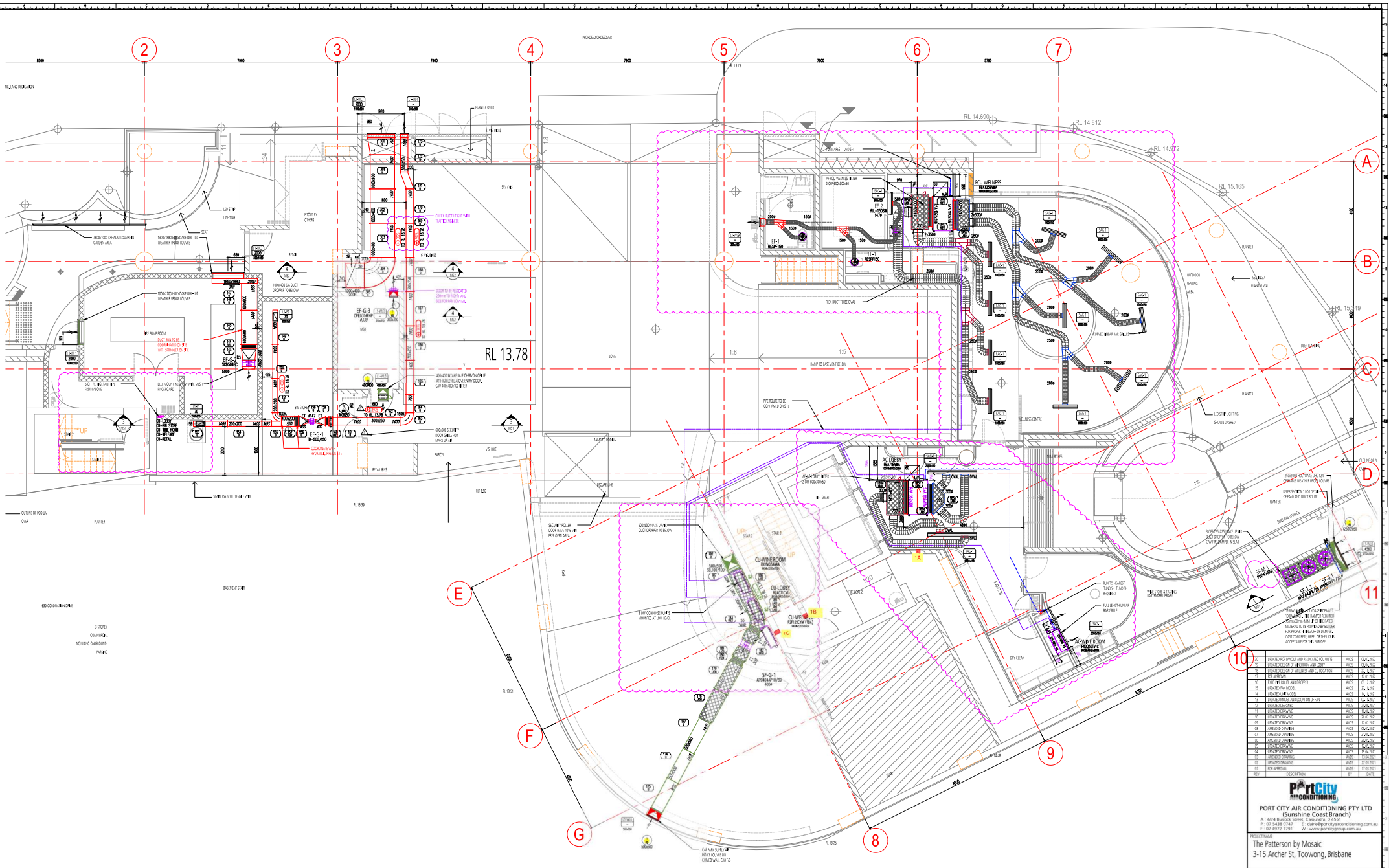
Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
1101 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M109
1102 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M109
1103 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M109
1104 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M109
1105 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M109
1106 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M109
1100	Level 11 riser	120 / 120	FyreBox cast in / Concrete Slab	350 x 125	Trafalgar / FC10266-001	M109

Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
1201 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M110
1202 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M110
1203 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M110
1204 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M110
1206 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M110
1200	Level 12 riser	120 / 120	FyreBox cast in / Concrete Slab	650 x 125	Trafalgar / FC10266-001	M110

Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
1301 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M111
1303 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M111
1304 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M111
1306 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M111
1300	Level 13 riser	120 / 120	FyreBox cast in / Concrete Slab	950 x 125	Trafalgar / FC10266-001	M111

Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
1401 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M112
1402 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M112
1403 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M112
1400	Level 14 riser	120 / 120	FyreBox cast in / Concrete Slab	950 x 125	Trafalgar / FC10266-001	M111

Penetration #	Location	FRL	Description / Material	Size	Manufacturer / Test Report #	Drawing #
1501 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M113
1502 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M113
1503 A & B	Above Apartment Door	-/60 /60	FyrePEX / Fire Board	110Ø	Trafalgar / FAR4849	M113



REV	DESCRIPTION	BY	DATE
20	UPDATED FCP LAYOUT AND RELOCATED FCU UNITS	AMDS	08.03.2022
19	UPDATED DUCTWORK IN WELLNESS AND LOBBY	AMDS	04.03.2022
18	UPDATED DETAILS OF WELLNESS AND CU LOCATION	AMDS	25.11.2021
17	FOR APPROVAL	AMDS	17.09.2021
16	UPDATED INLET DUCT AND DROPPER	AMDS	09.12.2021
15	UPDATED FAN MODEL	AMDS	07.12.2021
14	UPDATED LINE MODEL	AMDS	14.11.2021
13	UPDATED MODEL AND LOCATION OF FAN	AMDS	03.11.2021
12	UPDATED DETAILS	AMDS	26.08.2021
11	UPDATED DRAWING	AMDS	19.08.2021
10	UPDATED DRAWING	AMDS	29.07.2021
09	UPDATED DRAWING	AMDS	17.07.2021
08	AMENDED DRAWING	AMDS	08.07.2021
07	AMENDED DRAWING	AMDS	29.06.2021
06	AMENDED DRAWING	AMDS	29.06.2021
05	UPDATED DRAWING	AMDS	15.06.2021
04	UPDATED DRAWING	AMDS	18.04.2021
03	AMENDED DRAWING	AMDS	13.04.2021
02	UPDATED DRAWING	AMDS	22.03.2021
01	FOR APPROVAL	AMDS	17.03.2021

PORT CITY AIR CONDITIONING PTY LTD
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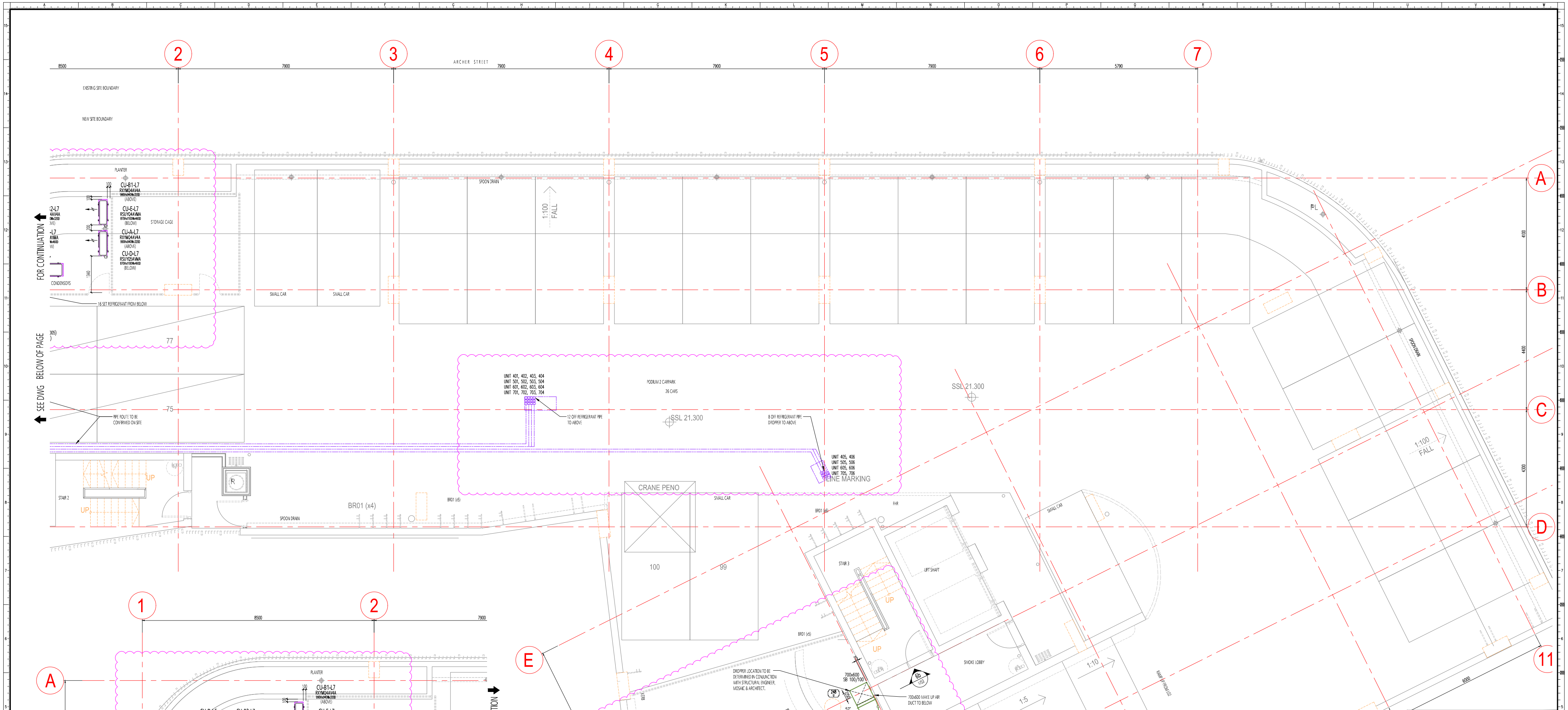
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL 1 FLOOR PLAN

DRAWN	AIR DRAFTING PTY. LTD.	DRG SIZE	A0
CHECK	CA	SCALE	1:50
APPROVE	MJB	DATE	17.03.2021

FOR APPROVAL

DRAWING M103 REVISION 20



REV	DESCRIPTION	BY	DATE
23	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	01.08.2022
22	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	19.07.2022
21	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
20	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	06.06.2022
19	UPDATED BACKGROUND	AVDS	11.05.2022
18	UPDATED BACKGROUND	AVDS	11.05.2022
17	CHANGED THE QUANTITY OF PIPE RISERS	AVDS	22.03.2022
16	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
15	FOR APPROVAL	AVDS	17.01.2022
14	FIXED PIPE ROUTE AND DROPPER	AVDS	03.12.2021
13	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
12	UPDATED UNIT MODEL	AVDS	14.10.2021
11	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
10	UPDATED LOUVRE SIZE	AVDS	12.09.2021
09	UPDATED DESIGNED	AVDS	24.08.2021
08	UPDATED DRAWING	AVDS	30.07.2021
07	UPDATED DRAWING	AVDS	17.07.2021
06	AMENDED DRAWING	AVDS	21.05.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021

PORT CITY AIR CONDITIONING PTY LTD
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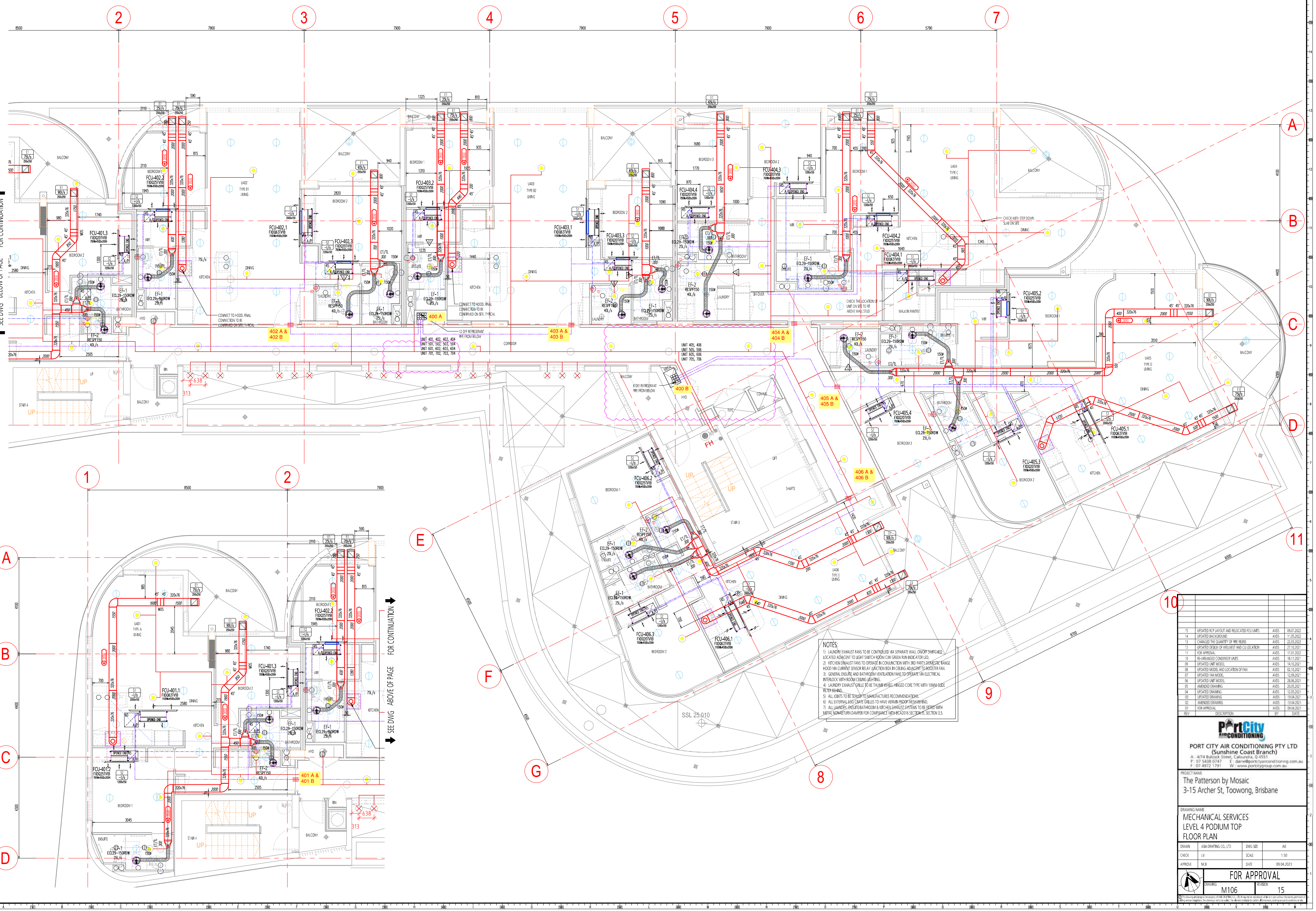
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL 3 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

FOR APPROVAL

DRAWING M105 REVISION 23



NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ON/OFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	CHANGED THE QUANTITY OF PIPE RISERS	AVDS	22.03.2022
12	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
11	FOR APPROVAL	AVDS	17.01.2022
10	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
09	UPDATED UNIT MODEL	AVDS	14.10.2021
08	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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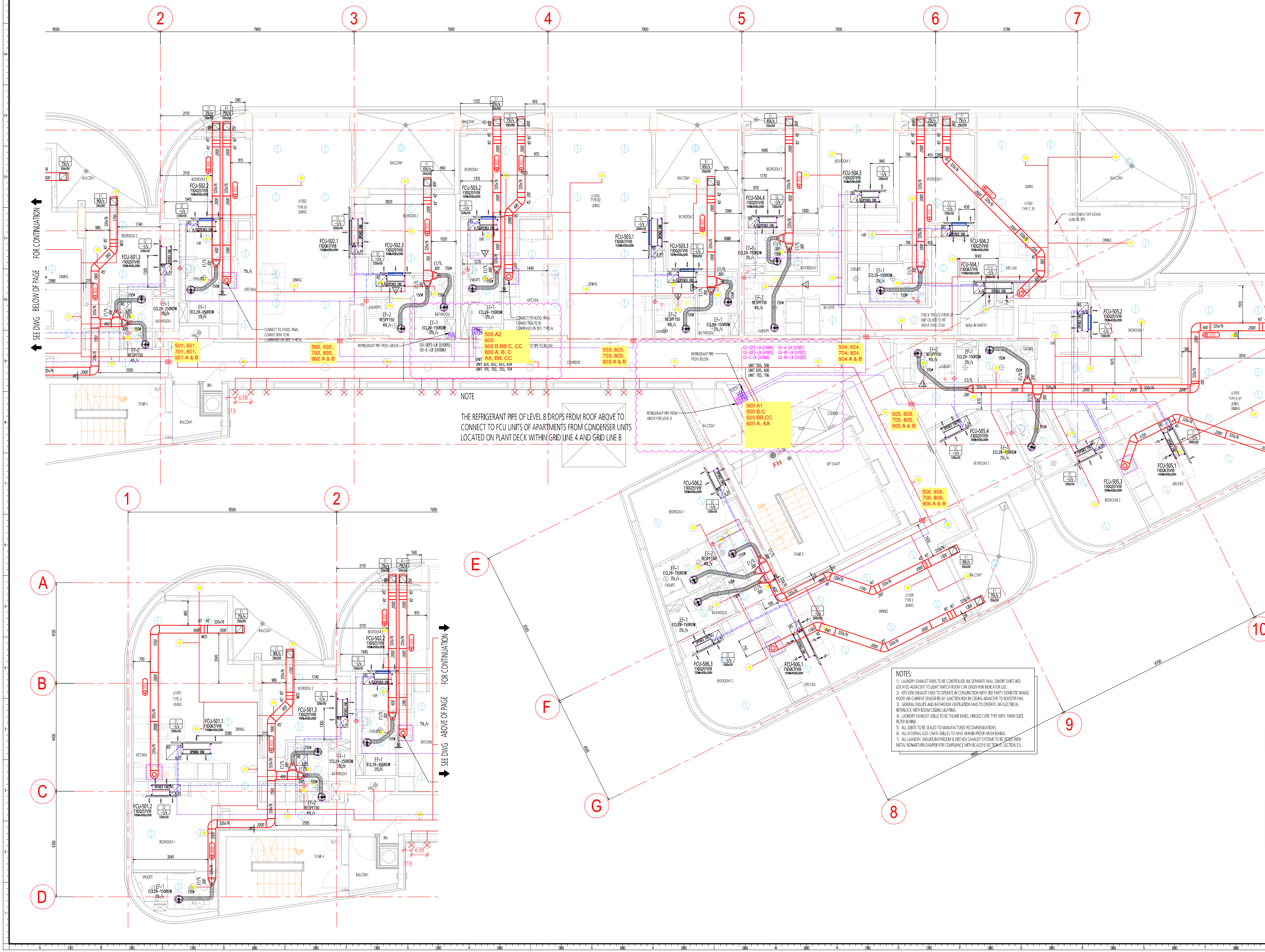
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL 4 PODIUM TOP
FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

FOR APPROVAL

DRAWING M106 REVISION 15



NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ON/OFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	CHANGED THE QUANTITY OF PIPE RISERS	AVDS	22.03.2022
12	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
11	FOR APPROVAL	AVDS	17.01.2022
10	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
09	UPDATED UNIT MODEL	AVDS	14.10.2021
08	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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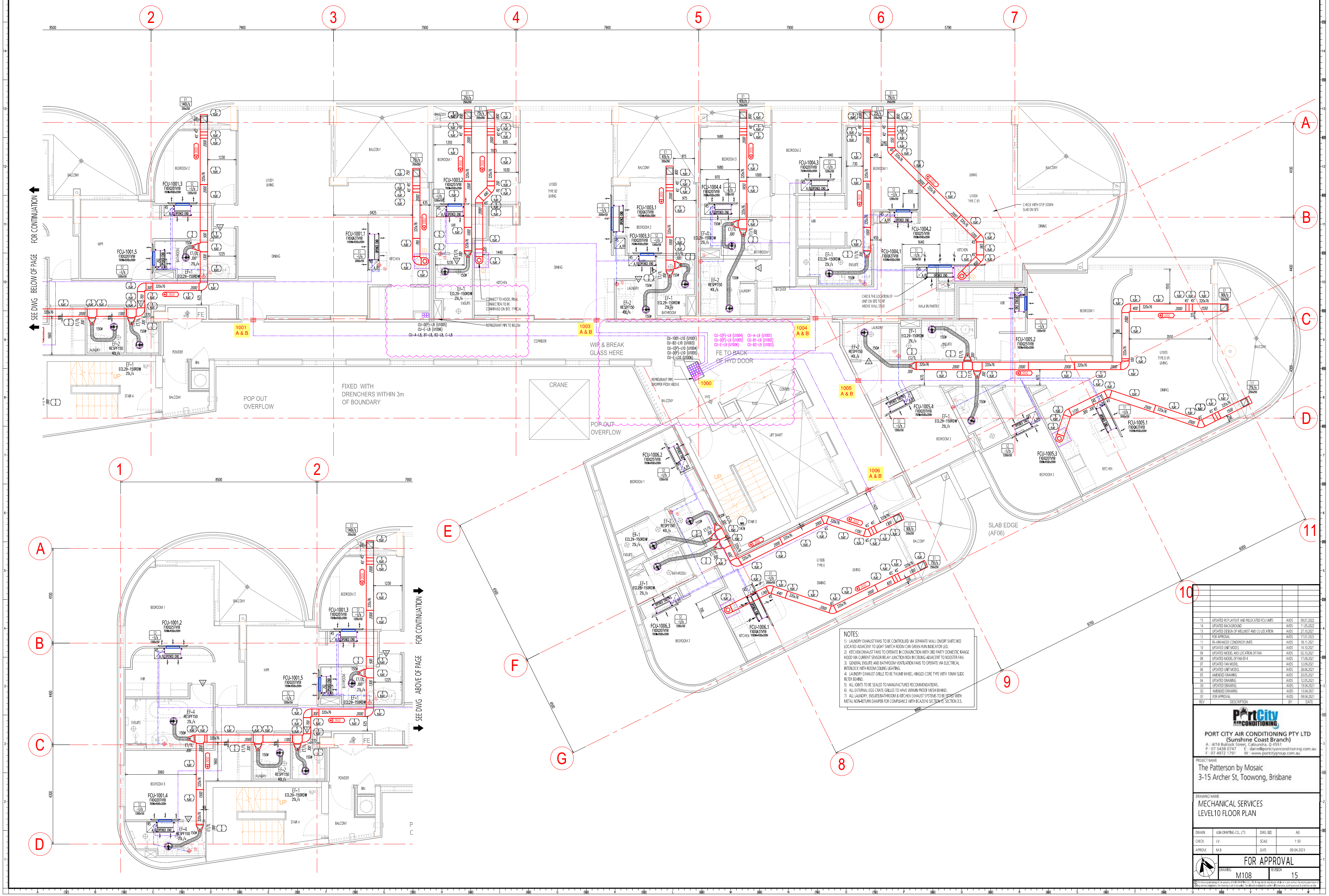
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL 5-9 TYPICAL
FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

FOR APPROVAL

DRAWING M107 REVISION 15



NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ON/OFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
12	FOR APPROVAL	AVDS	17.01.2022
11	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
10	UPDATED UNIT MODEL	AVDS	14.10.2021
09	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
08	UPDATED MODEL OF FAN EF-4	AVDS	17.09.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

PORT CITY AIR CONDITIONING PTY LTD
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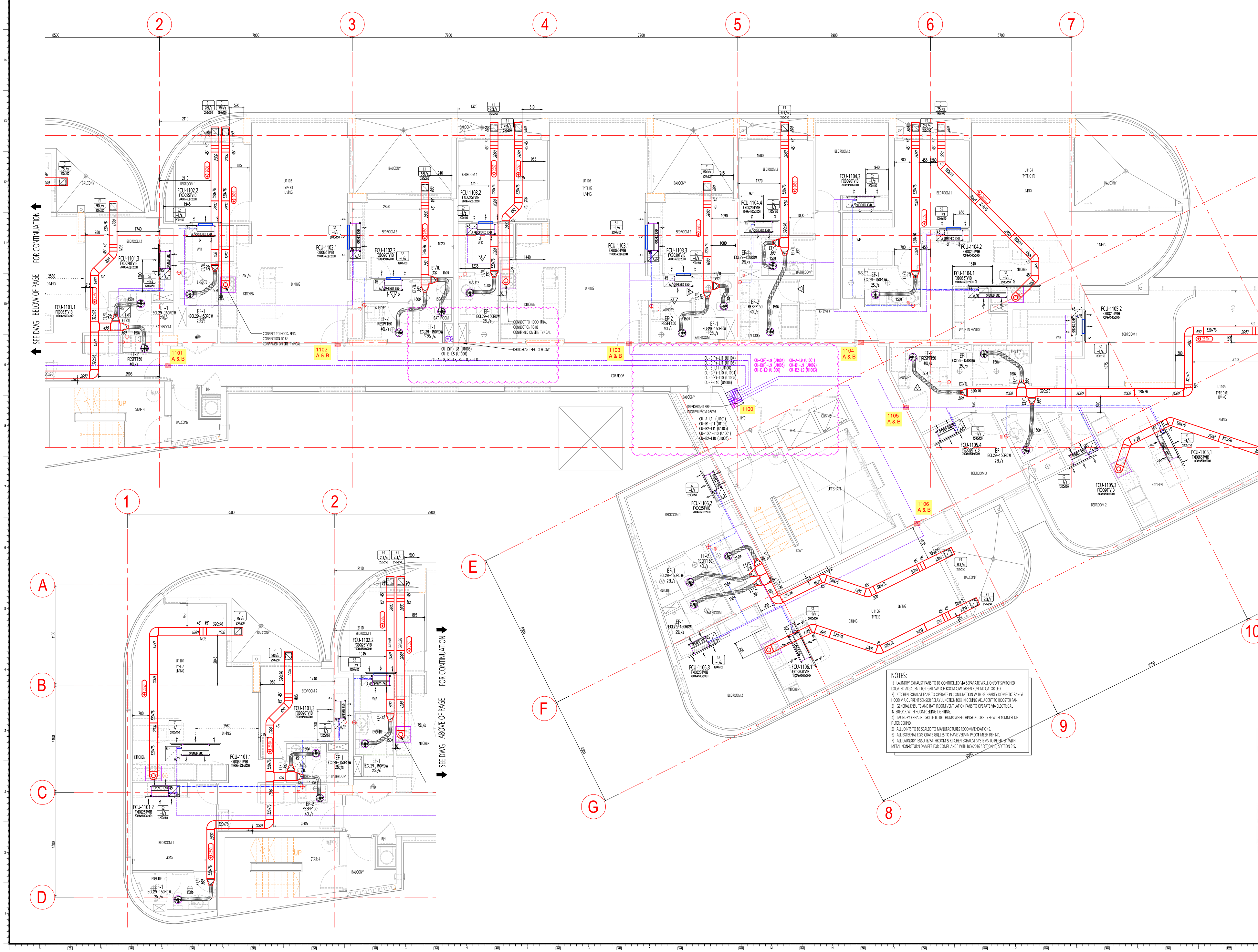
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL10 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

FOR APPROVAL

DRAWING M108 REVISION 15



NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ON/OFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
14	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
13	UPDATED BACKGROUND	AVDS	11.05.2022
12	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
11	FOR APPROVAL	AVDS	17.01.2022
10	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
09	UPDATED UNIT MODEL	AVDS	14.10.2021
08	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

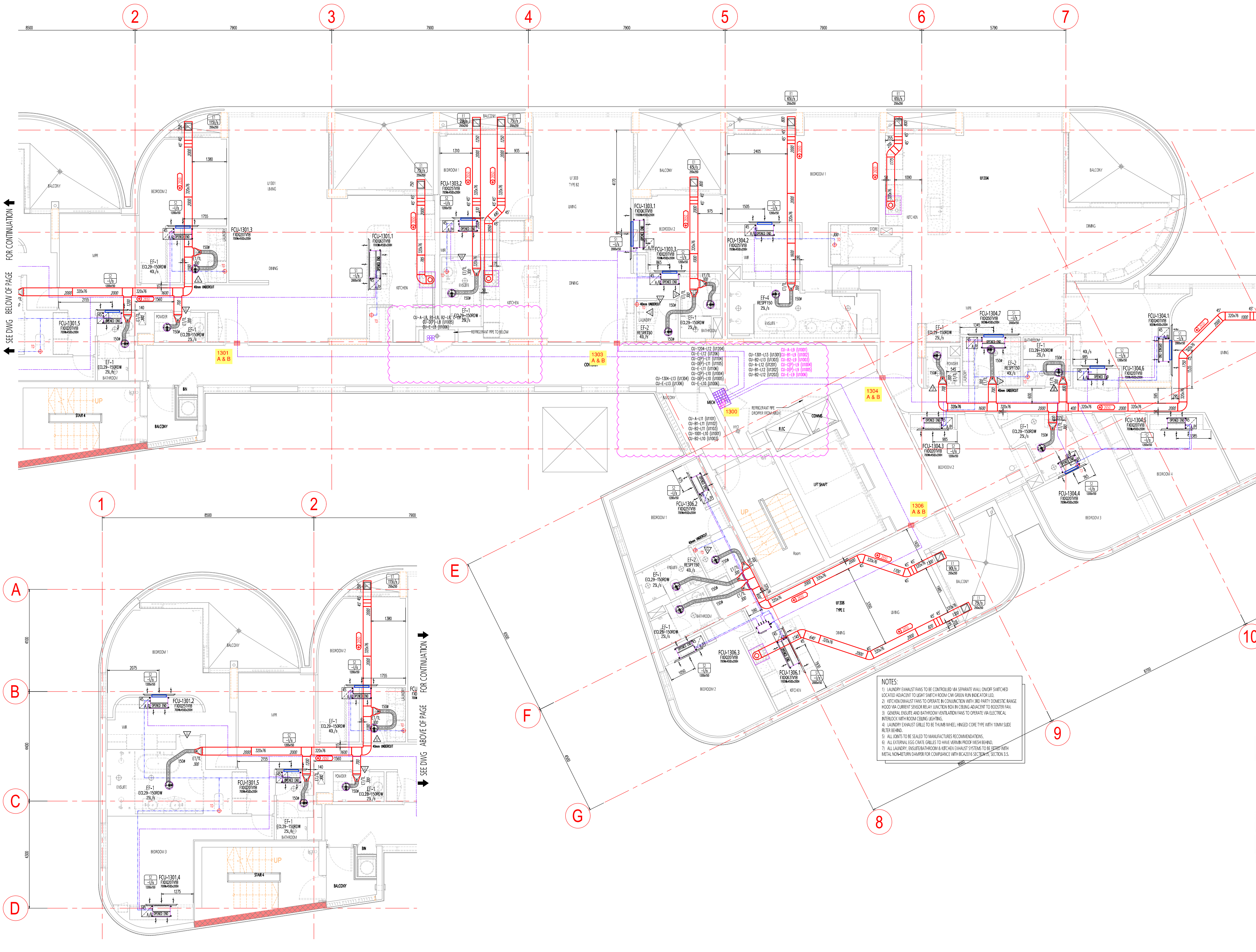
DRAWING NAME
MECHANICAL SERVICES
LEVEL11 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

FOR APPROVAL

DRAWING M109 REVISION 14

SEE DWG BELOW OF PAGE FOR CONTINUATION
SEE DWG ABOVE OF PAGE FOR CONTINUATION
POP OUT OVERFLOW
FIXED WITH DRENCHERS WITHIN 3m OF BOUNDARY
CRANE
WIR & BREAK GLASS HERE
FE TO BACK OF FHD DOOR
SLAB EDGE (AF06)
NOTES:
REV | DESCRIPTION | BY | DATE
01 | FOR APPROVAL | AVDS | 09.04.2021
02 | AMENDED DRAWING | AVDS | 13.04.2021
03 | UPDATED DRAWING | AVDS | 19.04.2021
04 | UPDATED DRAWING | AVDS | 12.05.2021
05 | AMENDED DRAWING | AVDS | 20.05.2021
06 | UPDATED UNIT MODEL | AVDS | 28.06.2021
07 | UPDATED FAN MODEL | AVDS | 12.09.2021
08 | UPDATED MODEL OF FAN EF-4 | AVDS | 17.09.2021
09 | UPDATED MODEL AND LOCATION OF FAN | AVDS | 02.10.2021
10 | UPDATED UNIT MODEL | AVDS | 14.10.2021
11 | RE-ARRANGED CONDENSER UNITS | AVDS | 18.11.2021
12 | FOR APPROVAL | AVDS | 17.01.2022
13 | UPDATED DESIGN OF WELLNEST AND CU LOCATION | AVDS | 27.10.2021
14 | UPDATED BACKGROUND | AVDS | 11.05.2022
15 | UPDATED RCP LAYOUT AND RELOCATED FCU UNITS | AVDS | 09.07.2022
PORT CITY AIR CONDITIONING PTY LTD
(Sunshine Coast Branch)
A : 4/74 Bulcock Street, Caloundra, Q 4551
P : 07 5438 0747
F : 07 4972 1791
E : daine@portcityairconditioning.com.au
W : www.portcitygroup.com.au
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane
DRAWING NAME
MECHANICAL SERVICES
LEVEL12 FLOOR PLAN
DRAWN ASIA DRAFTING CO., LTD
DWG SIZE A0
CHECK J.V
SCALE 1:50
APPROVE M.B
DATE 09.04.2021
FOR APPROVAL
DRAWING M110
REVISION 15



NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ON/OFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
12	FOR APPROVAL	AVDS	17.01.2022
11	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
10	UPDATED UNIT MODEL	AVDS	14.10.2021
09	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
08	UPDATED MODEL OF FAN EF-4	AVDS	17.09.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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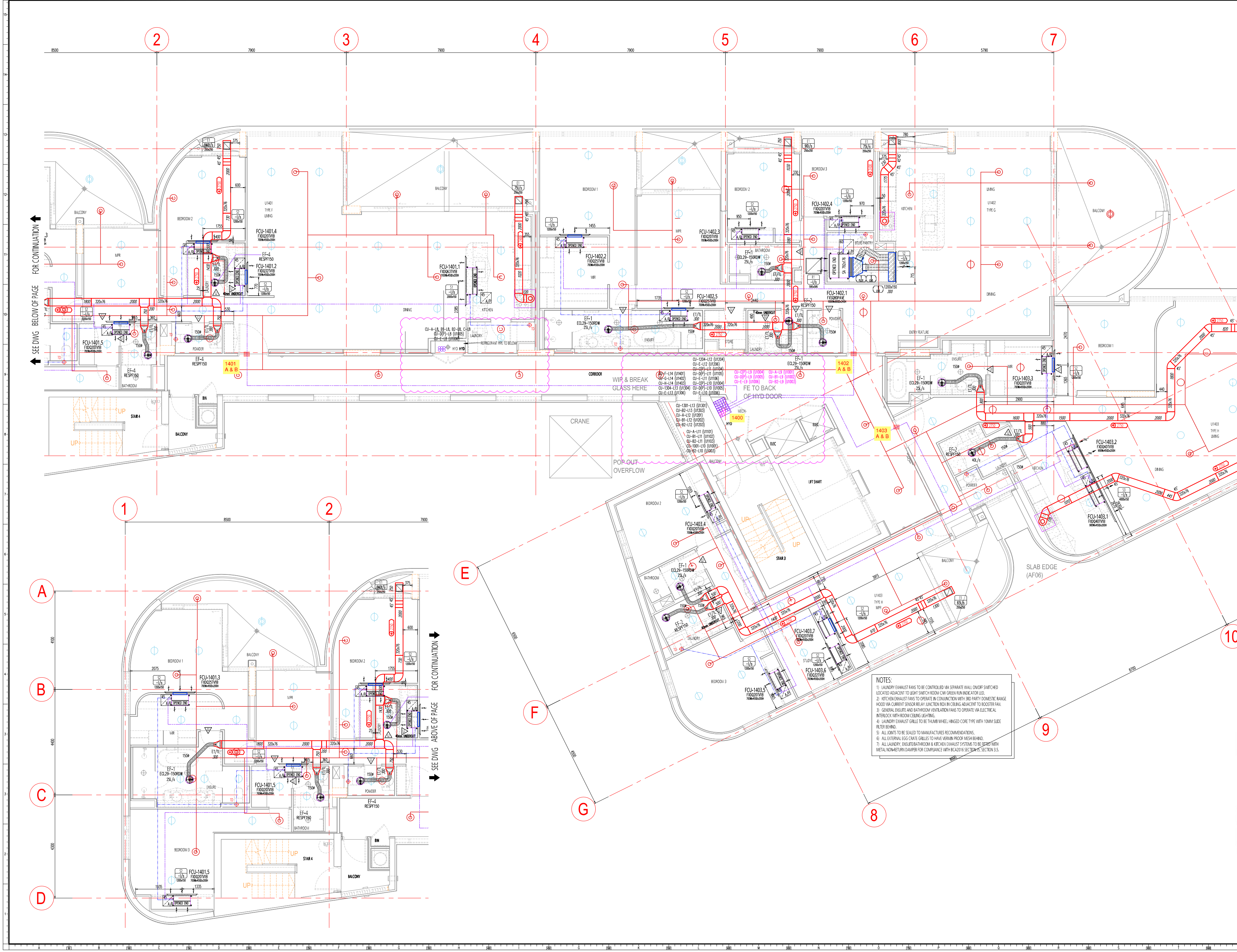
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL13 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

FOR APPROVAL

DRAWING M111 REVISION 15



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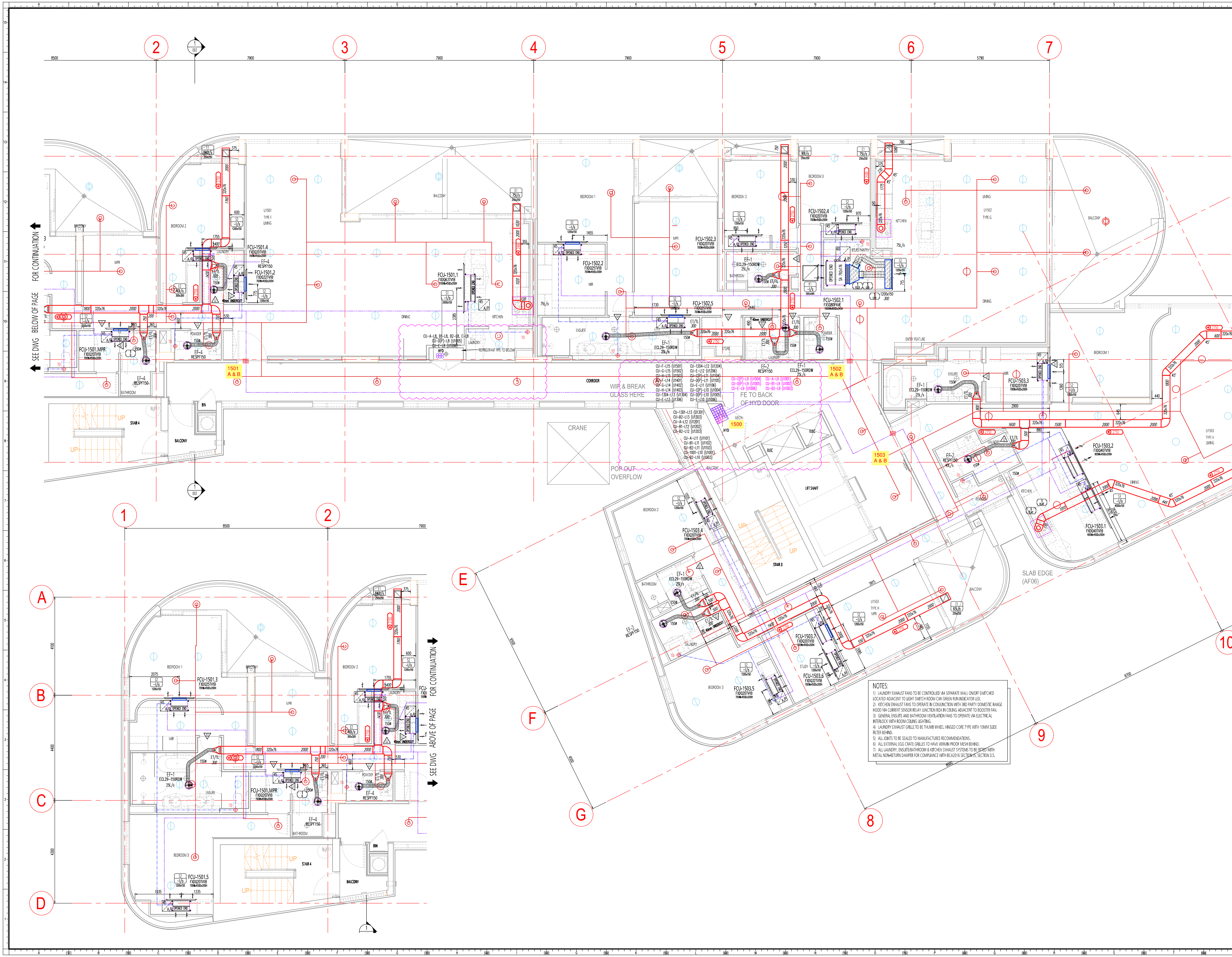
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL14
FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

FOR APPROVAL

DRAWING M112 REVISION 15



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A : 4/74 Bulcock Street, Caloundra, Q 4551
P : 07 5438 0747 E : daine@portcityairconditioning.com.au
F : 07 4972 1791 W : www.portcitygroup.com.au

PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL15
FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

FOR APPROVAL

DRAWING M113 REVISION 15

Form 12 Aspect Inspection Certificate (Appointed Competent Person)

Queensland Government

This form is to be used for the purposes of sections 74 and 77 of the Building Regulation 2021 (appointed competent person statement that an aspect of work has been completed and complies with the building development approval).

Information about how to complete this form is in the Appendix at the end of the form.

1. Indicate the aspect of the building work

Examples of aspects of the stage of building work (and not limited to the examples provided below):

waterproofing, tiling, glazing, energy efficiency, emergency lights, exit signs, smoke detection, air-conditioning.

Aspect of building work (indicate the aspect)
Mechanical Air Conditioning and Ventilation

2. Property description

The description must identify all land the subject of the application.

The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.

If the plan is not registered by title, provide previous lot and plan details.

Street address	3 – 15 Archer Street		
		Suburb/locality	Toowong
State	QLD	Postcode	4066

Lot and plan details *(attach list if necessary)*
L2 & L3 on RP.70716
Local government area the land is situated in
Brisbane City Council

3. Building/structure description

Building/structure description
Seismic restraint of suspended mechanical services, floor mounted equipment, refrigerant pipework

Class of building/structure
Class 2 & 7a

4. Description of the extent of aspect/s certified

Clearly describe the extent of work covered by this certificate, i.e. all structural aspects of the steel roof beams and location i.e. what floors the work was on, the parts of a room.

Mechanical (Air Conditioning, Smoke exhaust, Carpark exhaust, Dampers, Zones, Ventilation, Toilet exhaust)

5. Basis of certification

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.

AS/NZA1170.0 – 2002 General Principles AS/NZS 1170.4 – 2007 Earthquake Actions in Australia AS4100 – 1998 Steel Structures AS4600 – 2018 Cold Form Steel Structures FER 5766102 Rev. D

6. Reference documentation

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

Gripple Drawings: H1119-SR-1 to SR-14
SRD-1C, SRD-2B, SRD-5, SRD-5.2
Gripple Calcs: H1119-CW-1-1 to H1119-CW-1-18

7. Building certifier reference number and building development approval number

Building certifier's name *(in full)*			
Building certifier reference number		Development approval number	A005708978

8. Details of appointed competent person

Name *(in full)*	Daine Ross Smith		
Company name *(if applicable)*	Port City Air Conditioning Pty Ltd		
Contact person	Daine Ross Smith		
Business phone number	07 5443 4095	Mobile	0439 665 398
Email address	daine@portcityair.com.au		
Postal address	PO Box 6017		
		Suburb/locality	Maroochydore
State	QLD	Postcode	4558
Licence class or registration type *(if applicable)*	Refrigeration, Air conditioning & Mechanical Services incl Limited Design		
Licence class or registration number *(if applicable)*	11804073		
Date request to inspect received from building certifier	9/03/2023		

9. Signature of appointed competent person

Signature		Date	9/03/2023

LOCAL GOVERNMENT USE ONLY

Date received	Click or tap to enter a date.	Reference number/s	

Appendix – explanatory information

IMPORTANT NOTE: a competent person who knowingly or reasonably suspects the information they are giving to the building certifier is false or misleading, including the information contained in this certificate (Form 12), commits an offence and is liable to a maximum penalty of 100 penalty units.

When is this certificate needed? (sections 10 of the *Building Act 1975* (Building Act) and 75 of Building Regulation 2021 (BR 2021))

When performing a building certification function, a building certifier may accept and rely on ***an aspect inspection certificate*** from an appointed competent person to satisfy themselves that an aspect of work has been completed and complies with the building development approval.

For a single detached class 1a building a building certifier can only accept this form for an aspect of work that is for

- boundary clearance if the appointed competent person is a cadastral surveyor, and,
- the reinforcement of footing systems if the appointed competent person is the appropriate registered professional engineer.

For further information about inspections for detached class 1a and 10 buildings or structures, refer to **Guideline for inspections of class 1 and 10 buildings and structures.**

Who can sign this certificate (Form 12)? (Part 9, Division 2, Section 74 of the BR 2021)

A person assessed and appointed as a competent person (inspections) must complete the approved form (Form 12) and give it to the building certifier after they (1) inspect the aspect of work; and (2) are satisfied the aspect of work has been completed and complies with the building development approval.

Competent person (section 10 Part 6 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can, as a competent person, give inspection help or design-specification help. The building certifier is required to keep detailed records about what was considered when appointing a competent person.

A competent person cannot give inspection help to a building certifier until they have been appointed by the building certifier. For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons.**

Inspection help (section 34 of the BR 2021)

A building certifier must be satisfied that an individual is competent to give the type of inspection help having regard to the individual's experience, qualifications and skills and if required by law to hold a licence or registration, that the individual is appropriately registered or licensed.

For further information about conducting inspections for class 2 to 9 buildings, refer to the **Guideline for inspection of class 2 to 9 buildings.**

How to complete this form

Section 1 – Aspect of building work

An aspect of building work means a component of a stage of the building work, for example water proofing. A stage of assessable building work (requires a building development approval) is a stage of the work, prescribed by regulation, that may be inspected, or stated in a building development approval by the relevant building certifier.

Section 2 – Property description

The property description must identify all the land the subject of the application. The lot and plan details (e.g. SP/RP) can be found on title documents or a rates notice. If the plan is not registered by title, provide previous lot and plan details.

Section 3 – Building / structure description

Describe the type of building or structures and provide the classification determined under the National Construction Code (NCC). The NCC can be accessed at the Australian Building Codes Board's website.

Section 4 – Describe the extent or location of the aspect work inspected.

Clearly describe the extent of work covered by this certificate, i.e. all structural aspects of the steel roof beams and location i.e. what floors the work was on, the parts of a room.

Sections 5 – Basis for the certification and section 6 Reference documentation (section 77 of BR 2021)

The appointed competent person (inspections) must state the basis for giving the certificate (Form 12) including the extent to which the competent person has relied on tests, specifications, rules, standards, codes of practice or other publications to make their decision that the aspect of work has been completed and complies with the building development approval.

Under the regulation (section 76) the appointed competent person (inspections) may accept and rely on a certificate (Form 12) from another appointed competent person (inspections) without inspecting the work. Although this can only be done if the inspection was carried out in accordance with best industry practice.

Other relevant inspection / aspect forms

Aspect work – assessable building work: Form 43 – Aspect certificate (completed by a QBCC licensee) for aspect work for a single detached class 1a building and class 10 buildings and structures.

Aspect work not subject to a building development approval - accepted development (self-assessable): Form 30 – (completed by a QBCC licensee) given to either the builder or building owner of the building, stating the subject aspect work complies with the relevant provisions, standards and codes.

Stages of work: Form 16 – Inspection certificate (completed by a building certifier or competent person) for a stage of work.

Building design – specification: Form 15 – Compliance certificate for building design or specification (completed by the appointed competent person (design – specification)) - for an aspect of stating a building design – specification will, if installed or carried out to the detail under this Form will comply with the building assessment provisions.

For all other building forms and guidelines visit the Business Queensland website.

PRIVACY NOTICE

The Department of Energy and Public Works is collecting personal information as required under the *Building Act 1975*. This information may be stored by the Department, and will be used for administration, compliance, statistical research and evaluation of building laws. Your personal information will be disclosed to other government agencies, local government authorities and third parties for purposes relating to administering and monitoring compliance with the *Building Act 1975*. Personal information will otherwise only be disclosed to third parties with your consent or unless authorised or required by law.

Queensland Government

Department of Housing and Public Works

Form 15—Compliance certificate for building design or specification

Version 4 – July 2017

NOTE: This is to be used for the purposes of section 10 of the *Building Act 1975* and/or section 46 of the *Building Regulation 2006.*

RESTRICTION: A building certifier (class B) can only give a compliance certificate about whether building work complies with the BCA or a provision of the Queensland Development Code (QDC). A building certifier (Class B) can not give a certificate regarding QDC boundary clearance and site cover provisions.

1. Property description

This section need only be completed if details of street address and property description are applicable.

E.g. in the case of (standard/generic) pool design/shell manufacture and/or patio and carport systems this section may not be applicable.

The description must identify all land the subject of the application.

The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.

If the plan is not registered by title, provide previous lot and plan details.

Street address (include no., street, suburb/locality and postcode)

3-15 ARCHER ST, TOOWONG, BRISBANE

Lot and plan details (attach list if necessary)

In which local government area is the land situated?

Brisbane City Council

2. Description of component/s certified

Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.

Seismic restraint of suspended mechanical services, floor mounted equipment, refrigerant pipework

3. Basis of certification

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon.

- AS/NZS1170.0 - 2002 General Principles
- AS/NZS1170.4 - 2007 Earthquake Actions in Australia
- AS4100 - 1998 Steel Structures
- AS4600 - 2018 Cold Form Steel Structures

4. Reference documentation

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

- Gripple Drawings: H1119-SR-1 to SR-14 (ALL REV A)
- Gripple Drawings: SRD-1C, SRD-2B, SRD-5(REV A), SRD-5.2 (Rev A)
- Gripple Calcs: H1119-CW-1-1 to H1119-CW-1-18 (All REV A)

LOCAL GOVERNMENT USE ONLY

Date received		Reference Number/s	

5. Building certifier reference number

Building certifier reference number

6. Competent person details

A competent person for building work, means a person who is assessed by the building certifier for the work as competent to practice in an aspect of the building and specification design, of the building work because of the individual's skill, experience and qualifications in the aspect. The competent person must also be registered or licensed under a law applying in the State to practice the aspect.

If no relevant law requires the individual to be licensed or registered to be able to give the help, the certifier must assess the individual as having appropriate experience, qualifications or skills to be able to give the help.

If the chief executive issues any guidelines for assessing a competent person, the building certifier must use the guidelines when assessing the person.

Name (in full)
Lachlan Rhodes

Company name (if applicable)
Polyplas Intl.

Contact person

Phone no. (business hours)
03 9754 0333

Mobile no.
0400610942

Fax no.

Email address
lachlan@gripple.net.au

Postal address
3 Corporate Ave
Rowville, VIC **Postcode** 3178

Licence or registration number (if applicable)
RPEQ - 24401

7. Signature of competent person

This certificate must be signed by the individual assessed by the building certifier as competent.

Signature

Date
29/9/21

The *Building Act 1975* is administered by the Department of Housing and Public Works

Section 7

AS BUILT DRAWINGS

Office: 2/30 Access Crescent, Coolum Beach, QLD 4573
Postal: PO Box 6017, Maroochydore, Qld 4558
Email: admin@portcityairconditioning.com.au
Phone: 1300 PORT CITY / 07 4972 3355 **Fax:** 07 4972 1791

After Hours Emergency Phone: 0439 665 398
Website: http://www.portcitygroup.com.au/

ABN: 99 717 077 615 / QBCC: 1184073 / ARCTICK: AU12994 / ELEC: 73329

The Patterson by Mosaic

3-15 Archer St, Toowong, Brisbane

MECHANICAL SERVICES

GENERAL NOTE

Scope of Works
Provide & install a fully operational car park ventilation systems complete with control system, detectors, dampers and FIP interface as indicated.
Provide & install general ground floor ventilation systems to all base building areas such as switch rooms, garbage rooms, pump rooms and the like including controls interfacing and sensors.
Provide general ventilation systems to apartment levels in compliance with NCC2019 (which refers back to BCA2016).
Ensure correct maintenance records are kept for the the whole system in a hard copy manual in the controls cabinet referring documents to site traffolite labelling.

Builders Work
Concrete plinths for condensing units (Galvanised chamfer angles surrounds to be provided and installed by mechanical contractor, filled in by builder).
Access panels to and clear space in ceiling space for servicing of plant and equipment.
Installation only of door grilles, supplied by Mechanical Services and undercutting doors as shown on drawings.
Under flashing of wall and roof penetrations.
Drain points for condensate as indicated on drawings
Formed and trimmed openings through walls and ceilings for mechanical and electrical components.
Provision of core holes through floors and walls.
Co-ordination of the Mechanical Services installation to fit in with the construction programme.
Temporary light and power during construction.

Electrical Services
Single phase power supplies to isolators adjacent to all mechanical services plant as indicated on drawings (for final connection by Mechanical Services).
Three phase power supplies to isolator adjacent to the mechanical services plant as indicated on drawings (for final connection by mechanical contractor)

Codes & Standards
The whole of the work specified shall be in accordance with the current issue of the following:-
National Construction Code (NCC) 2019 for B1 B2, Mezzanine, ground floor, level 2 & level 3.
Building Code of Australia 2016 applies to only apartment levels, in particular with respect to ventilation.
NCC 2019 section J3.5, F6.3 apply to all apartment levels.
All ductwork to Comply with AS 4254 parts 1 & 2 (flexible duct and rigid respectively).
Fire and smoke damper selection shall be installed in compliance with AS1851
QDC MP4.1 – Queensland Development Mandatory Code Part 4.1 Sustainable Buildings.
AS 1470 Health and Safety at Work – Principle and Practices
AS 1668 – Part 1 (2015) Fire and Smoke Control Systems.
AS 1668 – Part 2: Mechanical ventilation for acceptable indoor air quality).
AS 5149 2016 – (2012) Refrigeration systems.
AS 3000 – Wiring Rules.
AS/NZS 3823 – Performance of electrical appliances – air conditioners and heat pumps.
AS 3666.– Air Handling and Water Systems of Buildings
AS/NZS 3823.2 (MEPS)
AS/NZS 4755.3.1 (DRM1, 2 and 3)
AS1170.4-2007 - Seismic Restraint
All other relevant Acts and Regulations, Local Authority Requirements, Australian Standards and Codes having jurisdiction.

Roof Space Mounted Exhaust Fan
Fans mounted in the roof space shall be directly driven by external rotor/motors. Provide directional arrows for rotation and air flow.
The fan shall be suspended from the roof structure by spring mounted supports complete with neoprene pads and grommets to prevent vibration transmission to the building structure.

Filters
Filters for ducted fan coil units shall be a 100mm disposed dry media (F5 rating to AS1342).

Air Distribution System
Rectangular ductwork construction
Ductwork shall be fabricated from first quality patent-flattened galvanised sheet steel.
Ductwork construction shall be based upon SMACNA Standards and AS4254.

Control dampers
Opposed blade control dampers shall be fitted in main duct branches, generally where shown on the drawing and as necessary for system balancing and in return air, exhaust air and outside air inlet ducts or openings where balancing is required. Individual flexible duct take off spigots shall be fitted with Quad Lock dampers where further balancing Is required.

Flexible Connections
Approved flexible connections shall be provided between the inlets and outlets of all fans to adjacent ductwork ensuring they are truly aligned ensuring smooth air flow.
Flexible connections shall be readily accessible for maintenance, removal, and shall be positively airtight under full fan pressure.

Circular flexible ductwork
All flexible ductwork shall comply with AS 4254 and AS 4508.
For ventilation and relief air applications the core shall be constructed with an aluminium / polyester film laminate incorporating a coated mechanical spring wire helix and solvent based adhesive as a minimum.
All bends made in flexible ducting shall be formed to manufacturer's recommendations and shall have a centre-line radius of not less than 1.5 times the diameter of the ducts.
Bends shall remain at full diameter throughout the length of the bend and all bends deformed or damaged in any way during installation shall be replaced with new bends.
Tee-pieces, Y-pieces and reducer/expander fitting shall be of galvanised metal exactly as specified for circular sheet metal ductwork.
Duct connections shall be taped and provided with bands as follows.
All joints shall be fixed with proprietary line duct bands. These shall be continuous type metal or PVC bands similar to "Jubilee" hose clips or approved equivalent may be used.
Self-tapping metal screws and rivets shall not be used.
All flexible ducts shall be adequately supported with hanger straps and half saddles of "gutter guard" located at 1500 maximum centres, to prevent undue sagging and strictly in accordance with the requirements of this section of the specification.
The ductwork shall have the following minimum indices when tested in accordance with AS 1530.
-Ignitability-0
-Spread of Flame-0
-Heat Evolved-0
-Smoke Developed-3

Controls & sequencing
Each level of car park ventilation shall operate independently via controls module on mezzanine adjacent to VSD units. Refer to AS1668.2 (2012) 4.11 for parameters for ventilation system operation, flow rate setbacks and off periods.
EF-1.1 & EF-1.2 shall operate together as one on a single VSD interlocked via controls programming to SF-1.1.
EF-2.1 shall operate via a separate VSD interlocked via controls to SF-0-1
SF-M-1 shall operate via a stand alone VSD
SF-G-1 to operate matching avg frequency of other 3 supply air fans when any SF-M-1, SF-1.1 or SF-0.1 operate.
Note the carbon monoxide sensors shall be installed with modular sensor components that allows swap out procedure for detection components ensuring quick and economic ongoing testing for compliance purposes.

DRAWING LIST

NO.	DRAWING TITLE
M000	DRAWING LIST, LEGENDS, NOTES, SYMBOLS
M001	SCHEDULES SHEET
M100	BASEMENT 2 FLOOR PLAN
M101	BASEMENT 1 FLOOR PLAN
M102	BASEMENT MEZZANINE FLOOR PLAN
M103	LEVEL 1 FLOOR PLAN
M104	LEVEL 2 FLOOR PLAN
M105	LEVEL 3 FLOOR PLAN
M106	LEVEL 4 FLOOR PLAN
M107	LEVEL 5-9 TYPICAL FLOOR PLAN
M108	LEVEL 10 FLOOR PLAN
M109	LEVEL 11 FLOOR PLAN
M110	LEVEL 12 FLOOR PLAN
M111	LEVEL 13 FLOOR PLAN
M112	LEVEL 14 FLOOR PLAN
M113	LEVEL 15 TYPICAL FLOOR PLAN
M114	ROOF TERRACE FLOOR PLAN
MS1	SECTION 1 TO 3
MS2	SECTION 4 & 5
MS3	SECTION 6a, 6b & 6c
BW100	BASEMENT 2 FLOOR PLAN (BUILDER WORKS)
BW101	BASEMENT 1 FLOOR PLAN (BUILDER WORKS)
BW102	BASEMENT MEZZANINE FLOOR PLAN (BUILDER WORKS)
BW103	LEVEL 1 FLOOR PLAN (BUILDER WORKS)
BW104	LEVEL 2 FLOOR PLAN (BUILDER WORKS)
BW105	LEVEL 3 FLOOR PLAN (BUILDER WORKS)
BW106	LEVEL 4 FLOOR PLAN (BUILDER WORKS)
BW107	LEVEL 5-9 TYPICAL FLOOR PLAN (BUILDER WORKS)
BW108	LEVEL 10 FLOOR PLAN (BUILDER WORKS)
BW109	LEVEL 11 FLOOR PLAN (BUILDER WORKS)
BW110	LEVEL 12 FLOOR PLAN (BUILDER WORKS)
BW111	LEVEL 13 FLOOR PLAN (BUILDER WORKS)
BW112	LEVEL 14 FLOOR PLAN (BUILDER WORKS)
BW113	LEVEL 15 FLOOR PLAN (BUILDER WORKS)
BW114	ROOF TERRACE PLAN (BUILDER WORKS)

GENERAL NOTES

1	ALL DIMENSIONS ARE IN MILLIMETERS (mm) U.N.O.
2	DO NOT SCALE THIS DRAWING REFER TO WRITTEN DIMENSIONS ONLY
3	ALL DUCTWORK DIMENSIONS ARE EXTERNAL SHEETMETAL SIZES, WITH WIDTH IN CURRENT VIEW SHOWN FIRST, BY DEPTH IN CURRENT VIEW. DUCT FLANGES AND HANGERS TO BE CONSIDERED WHEN CO-ORDINATING OTHER SERVICES AND STRUCTURE.
4	ALL OF FLEXIBLE CONNECTION FROM UNIT TO FIRST DUCT HAVE 1 TDF END & 1 RE END U.N.O.
5	ALL DUCTWORK TO BE MADE FROM GALVANISED SHEETMETAL U.N.O.
6	ALL DUCT TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARD "AS 4254 - DUCTWORK FOR AIRHANDLING SYSTEMS IN BUILDINGS."
7	ALL INTERNAL SURFACES THAT ARE VISIBLE THROUGH AN AIR DIFFUSER, GRILLE OR LOUVRE SHALL BE PAINTED MATT BLACK.
8	VERMIN PROOF MESH TO BE FITTED TO ALL LOUVRES AND RELIEF VENTS.
9	RUN ALL CONDENSATE DRAINS TO TUNDISHES PROVIDED BY BUILDER (MINIMUM 1:40 FALL)
10	REFRIGERANT PIPING AND CONDENSATE PIPING ARE DESIGNED INDICATIVELY AND SHALL BE COORDINATED ON SITE WITH OTHER TRADES AT SITE
11	CO-ORDINATE ACCESS PANEL LOCATIONS ON SITE WITH BUILDER.
12	ALL DUCTWORK EXPOSED TO WEATHER TO BE CROSS-BROKEN ON TOP
13	UNINSULATED DUCTWORK THAT REQUIRES REINFORCEMENT SHALL BE CROSS-BROKEN ON ALL SIDES.
14	ALL WALL AND ROOF PENETRATIONS & UPSTAND UNDERFLASHINGS BY BUILDER. OVERFLASHINGS BY MECHANICAL CONTRACTOR
15	THERMOSTAT LOCATIONS TO BE CONFIRMED BY ARCHITECT & SERVICES ENGINEER BEFORE INSTALLATION.
16	VERIFY ALL DIMENSIONS FROM MECHANICAL WORKSHOP DRAWINGS AND ACTUAL SITE MEASUREMENTS, REVISE ON ANY DISCREPANCIES BEFORE PROCEEDING WITH WORKS
17	WORKSHOP DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL OTHER TRADES DRAWINGS AND PROJECT CORRESPONDENCES
18	CONFIRM DUCTWORK SIZES ON SITE FOR CO-ORDINATED FIT PRIOR TO ORDERING EQUIPMENT OR MANUFACTURE.

DUCTWORK LEGENDS

Symbol	Description
2 ### AxB C	"A" mm VIEWED SIZE, "B" mm NOT VIEWED SIZE, "C" LONG INCLUDED 5mm GROWING CAUSE OF ACTUAL SITE INSTALLATION
2 U	UNINSULATED DUCT
3 KE	KITCHEN EXHAUST DUCTWORK
4 *X	TOP CROSS-BROKEN DUCTWORK
5 L25	25mm EXTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
6 LA25	25mm INTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
7 L38	38mm EXTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
8 LA38	38mm INTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
9 L50	50mm EXTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
10 LA50	50mm INTERNAL INSULATION WITH INTERNAL PERFORATED SHEET METAL LINING (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
11 L75	75mm EXTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
12 LA75	75mm INTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
13 L100	100mm EXTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
14 LA100	100mm INTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
H 1000 BU415 L	H DENOTES HIGH DUCT BOTTOM SIDE. L DENOTES LOW DUCT BOTTOM SIDE. BU (BOTTOM UP) BD (BOTTOM DOWN) REFER ABBREVIATION LIST
	SLIP DRIVE JOINT
	DENOTES TDF, TDC, DUCTMATE OR SIMILAR
(W/2)R. 45° 45° W 50 50	STANDARD RADIUS BEND WITH RADIUS IS HALF DUCT WIDTH / EXTEND 50mm EACH RADIUS END U.N.O. / R. DENOTES BEND RADIUS / NO RADIUS AND ANGLE SUPPLY MEAN 90 DEGREES BEND.
SB X/Y X Y	STANDARD SQUARE BEND 150mm EXTENDED U.N.O WITH DIMENSION / TURNING VALVES SHOWN DENOTES REQUIREMENTS FOR AIR FLOW
25mm T/O 300 100 150	STANDARD BRANCH DUCT, 300mm LONG, 150mm LEG U.N.O.
	PLAIN SUPPLY DUCTWORK RISER
	PLAIN SUPPLY DUCTWORK DROPPER
	INSULATED SUPPLY DUCTWORK RISER
	INSULATED SUPPLY DUCTWORK DROPPER
	PLAIN RETURN DUCTWORK RISER
	PLAIN RETURN DUCTWORK DROPPER
	INSULATED RETURN DUCTWORK RISER
	INSULATED RETURN DUCTWORK DROPPER
	BRANCH TAKE-OFF WITH ADJUST BLADE
1 PVC 200ø LENGTH	PVC DUCTWORK
1 FLAT 350x90 LENGTH	PVC FLAT PACK DUCTWORK
1 SPIRO 200ø LENGTH	SPIRO DUCTWORK
1 FLEX	FLEXIBLE CONNECTION. 150mm LONG NOMINAL
(−) DIM	HEIGHT FROM U/S OF BARE DUCT TO SLAB ABOVE
(+) DIM	HEIGHT FROM U/S OF BARE DUCT DUCT TO FLOOR LEVEL
305ø	DUCTWORK POP WITH BUTTERFLY DAMPER FOR FLEXIBLE DUCTWORK CONNECTION

GRILLE / LOUVRE LEGENDS

Symbol	Description
S1 l/s 450/595	GRILLE NO. / AIRFLOW / NECK SIZE OF CUSHION HEAD / FACE SIZE OF SUPPLY GRILLE
R1 l/s 600x1200	GRILLE NO. / AIRFLOW / WIDTH x LENGTH NECK SIZE (USE SIMILAR CUSHION HEAD OPENING SIZE
	SUPPLY GRILLE, 4 WAY
	SUPPLY GRILL, 4 WAYS, BLANK OFF 1 WAY, CONFIRM WITH CONSULTANT BEFORE INSTALLATION
	SUPPLY GRILLE, SWIRL TYPE
	SUPPLY GRILLE, ROUND TYPE
	EXHAUST, RETURN, RELIEF OR FRESH AIR EGGCRATE GRILLE.
DIA.	BUTTERFLY DAMPER OPERATED THROUGH GRILLE FACE
60 A/P	600x600 CEILING ACCESS PANEL
45 A/P	450x450 CEILING ACCESS PANEL

CONTROL LEGENDS

Symbol	Description
T	SENSOR OR THERMOSTAT (1100 ABOVE FFL U.N.O)
C	WALL MOUNTED CONTROL SWITCH (1100 ABOVE FFL U.N.O)
H	HUMIDISTAT
MG	MAGNAHELIC GAUGE
AH	AFTER HOURS SWITCH
CP	CONTROL PANEL
S	SMOKE SENSOR
CO	CARBON MONOXIDE SENSOR
FC	FAN SWITCH WITH SPEED CONTROLLER
A	600x150 DOOR GRILLE
B	600x300 DOOR GRILLE
C	600x450 DOOR GRILLE
D	600x600 DOOR GRILLE
E	500x250 DOOR GRILLE
U	25mm DOOR UNDERCUT BY BUILDER

PIPING LEGENDS

Symbol	Description
REF — REF	REFRIGERANT PIPE
DR — DR	CONDENSATE DRAIN PIPE
CHW — CHW	CHILLED WATER PIPE
HHW — HHW	HOT WATER PIPE
GAS — GAS	GAS PIPE

MANUFACTURE / BUILDERWORK

Symbol	Description
1110	BUILDER WORK DIMENSIONS
1110	MANUFACTURING DIMENSIONS
1110	STANDARD INSTALLATION DIMENSIONS
1 W 500x300 H=2450 (T/C/B)	WALL PENETRATIONS H= (+/-) 2415 (TOP/CENTRE/BOTTOM of penetration to soffit (-) or to FFL (+)
C	CEILING PENETRATION
1 R 500x300	ROOF PENETRATIONS
1 S 500x300	SLAB PENETRATIONS
1 P 500x300	PLATFORM PENETRATIONS
TD	TUNDISH-BY HYDRAULICS CONTRACTOR

DAMPER LEGENDS

Symbol	Description
1 MOT M	MOTORISED VOLUME CONTROL DAMPER- PLAN VIEW
1 MOT M	MOTORISED VOLUME CONTROL DAMPER- ELEVATION VIEW
1 OBD	VOLUME CONTROL DAMPER- PLAN VIEW
1 OBD	VOLUME CONTROL DAMPER- ELEVATION VIEW
1 NRD	NRD VOLUME CONTROL DAMPER- PLAN VIEW
1 NRD	NRD VOLUME CONTROL DAMPER- ELEVATION VIEW
1 FD	FD - FIRE DAMPER
1 SD	SD - SMOKE DAMPER

FLEXIBLE DUCTWORK LEGENDS

Symbol	Description
	INSULATED FLEXIBLE DUCT
	PLAIN / NUDE FLEXIBLE DUCT
	ACOUSTIC FLEXIBLE DUCT

EXPOSED DUCT WEATHERPROOFING

Symbol	Description
25 50 50	TYPICAL TOP HAT FRAME FLASHING DETAIL FLASHING TO COVER TOP AND SIDES OF DUCT EXPOSED TO WEATHER.
100	TYPICAL RECESSED FRAME FLASHING DETAIL FLASHING TO COVER TOP AND SIDES OF DUCT EXPOSED TO WEATHER.
MOS	TYPICAL FLEX. CONNECTION FLASHING DETAIL FLASHING TO COVER TOP AND SIDES OF DUCT EXPOSED TO WEATHER.

ABBREVIATIONS

E/A	EXHAUST AIR
S/A	SUPPLY AIR
R/A	RETURN AIR
O/A	OUTSIDE AIR
PCH	PLAIN CUSHION HEAD
ICH	25mm INSULATION CUSHION HEAD
PENO	PENETRATION
R	RELOCATE
T/A	TO ABOVE
F/A	FROM ABOVE
T/B	TO BELOW
F/B	FROM BELOW
LF	LOOSE FRAME
MOT	MOTORISED DAMPER
A/P	ACCESS PANEL
DD	DOUBLE DEFLECTION
WL	WEATHER LOURVE
MOS	MEASURE ON SITE
OBD	OPPOSED BLADE DAMPER
NRD	NON RETURN DAMPER
SBD	SINGLE BLADE DAMPER
FD	FIRE DAMPER
BG	BAR GRILLE
ECG	EGGCRATE
SS	STREAM SPLITTER
XD	BUTTERFLY DAMPER
MSSB	MECHANICAL SERVICE SWITCHBOARD
SSD	STREAM SPLITTER DAMPER
U.N.O	UNLESS NOTED OTHERWISE
T.D.	TUNDISH

DUCTWORK ABBREVIATIONS

H	HIGH END OF DUCT BOTTOM
L	LOW END OF DUCT BOTTOM
BU	BOTTOM UP
BD	BOTTOM DOWN
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
ET	EQUAL TAPER
BW	BOTH WAYS
SL	SIDE FLAT LEVEL
BL	BOTTOM FLAT LEVEL
TL	TOP FLAT LEVEL
RE	RAW EDGE
T/O	TURN OUT
T/I	TURN IN
SE	STOP END
ST	SITE TRIM
SD	SET DOWN ON BOTTOM IN DIRECTION OF AIR FLOW
SU	SET UP ON BOTTOM IN DIRECTION OF AIR FLOW
SB	SQUARE BEND

REV	DESCRIPTION	BY	DATE
06	AS BUILT	AVDS	17.03.2023
05	UPDATED UNIT MODEL	AVDS	14.10.2021
04	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
03	UPDATED DRAWING	AVDS	17.07.2021
02	UPDATED DRAWING	AVDS	22.03.2021
01	FOR APPROVAL	AVDS	17.03.2021

PORT CITY AIR CONDITIONING PTY LTD
(Sunshine Coast Branch)
A : 4/74 Bulcock Street, Caloundra, Q 4551
P : 07 5438 0747 E : daine@portcityairconditioning.com.au
F : 07 4972 1791 W : www.portcitygroup.com.au

PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
DRAWING LIST, LEGENDS, NOTES, SYMBOLS

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

FOR APPROVAL

DRAWING M000 REVISION 06

A/C EQUIPMENT SCHEDULE

REF. NO.	MAKE	MODEL	TYPE	TOTAL COOLING	SENSIBLE COOLING	HEATING CAPACITY	DB/WB	S/A	PHASE	PIPE	SOUND	MCA	DIMENSIONS	WEIGHT	NOTE
				Kw		Kw	°C	L/s	ph / V / Hz	mm	dB(A)	A	HxWxD	Kg	
CU-A-L4 TO L8 & L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.8(-18.8%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L8 & L11
FCU-401.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.7	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L8 & L11
FCU-401.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L8 & L11
FCU-401.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L8 & L11
CU-A-L9	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.6 (-20.7%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L9
FCU-901.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.6	4.6	7.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-901.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.2	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-901.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-B1-L4 TO L8 & L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10 (-17.6%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L8 & L11
FCU-402.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.8	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L8 & L11
FCU-402.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L8 & L11
FCU-402.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L8 & L11
CU-B1-L9	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.7 (-19.6%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L9
FCU-902.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.7	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-902.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.3	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-902.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-B2-L4 TO L6	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.9 (-18%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L6
FCU-403.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.8	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L6
FCU-403.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L6
FCU-403.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L6
CU-B2-L7	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.6 (-18%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L7
FCU-703.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.6	4.6	7.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L7
FCU-703.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.2	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L7
FCU-703.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
CU-B2-L8	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.9 (-18.5%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L8
FCU-803.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.7	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L8
FCU-803.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L8
FCU-803.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L8
CU-B2-L9	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.7 (-18%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L9
FCU-903.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.6	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-903.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.3	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-903.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-B2-L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.3 (-18%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L11
FCU-1103.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	6	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L11
FCU-1103.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L11
FCU-1103.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
CU-C-L4 & L6 & L8	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.5(-26.7%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 & L6 & L8
FCU-404.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.1	4.5	6.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 & L6 & L8
FCU-404.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.1	2	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 & L6 & L8
FCU-404.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 & L6 & L8
FCU-404.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 & L6 & L8
CU-C-L5	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.5(-26.7%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L5
FCU-504.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.2	4.5	6.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L5
FCU-504.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.1	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L5
FCU-504.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L5
FCU-504.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L5
CU-C-L7	DAIKIN	RSUYQ5AVMA	CONDENSING UNIT	11 (-22.9%)	-	15.3	-	-	240V 1ph	9.5x15.9	-	27	870x1100x460	98	L7
FCU-704.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.4	4.3	7.5	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L7
FCU-704.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.1	1.7	3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L7
FCU-704.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.4	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
FCU-704.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.4	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
CU-C-L9	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.4 (-27.2%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L9
FCU-904.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5	4.4	6.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-904.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2	1.9	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-904.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.6	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
FCU-904.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.6	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-C-L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	-	12.7	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L11
FCU-1104.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.5	4.6	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L11
FCU-1104.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.2	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L11
FCU-1104.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
FCU-1104.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
CU-D-L4 TO 6	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.4 (-27%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L6
FCU-405.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.1	4.5	6.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L6
FCU-405.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2	2	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L6
FCU-405.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L6
FCU-405.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L6
CU-D-L7	DAIKIN	RSUYQ5AVMA	CONDENSING UNIT	10.9 (-23.9%)	-	15.3	-	-	240V 1ph	9.5x15.9	-	27	870x1100x460	98	L7
FCU-705.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.3	4.3	7.5	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L7
FCU-705.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.1	1.7	3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L7
FCU-705.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.3	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
FCU-705.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.3	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7
CU-D-L8 & L9	DAIKIN	RSUYQ5AVMA	CONDENSING UNIT	12.9 (-9.4%)	-	13	-	-	240V 1ph	9.5x15.9	-	27	870x1100x460	98	L8 & L9
FCU-804.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.4	4.3	7.5	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L8 & L9
FCU-804.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.1	1.7	3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L8 & L9
FCU-804.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.4	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L8 & L9
FCU-804.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.4	2.4	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L8 & L9
CU-D-L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	12.9 (-9.4%)	-	13	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L11
FCU-1104.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.4	4.6	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L11
FCU-1104.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.2	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L11
FCU-1104.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
FCU-1104.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
CU-E-L4 TO L5	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	9.6 (-21%)	-	12.3	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L4 TO L5
FCU-406.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.6	4.6	7.1	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L4 TO L5
FCU-406.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.2	2	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L4 TO L5
FCU-406.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L4 TO L5
CU-E-L6	DAIKIN	RSUYQ4AVMA	CONDENSING UNIT	9.1(-25.2%)	-	12	-	-	240V 1ph	9.5x15.9	-	20	870x1100x460	95	L6
FCU-606.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.3	4.3	7	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L6
FCU-606.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.1	1.7	2.8	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L6
FCU-606.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.3	2.2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L6
CU-E-L7 & L8	DAIKIN	RSUYQ4AVMA	CONDENSING UNIT	8.8 (-27.2%)	-	11.9	-	-	240V 1ph	9.5x15.9	-	16.5	870x1100x460	95	L7 & L8
FCU-706.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.1	4.2	6.9	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L7 & L8
FCU-706.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2	1.6	2.8	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L7 & L8
FCU-706.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	2.2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L7 & L8
CU-E-L9	DAIKIN	RSUYQ4AVMA	CONDENSING UNIT	8.9 (-0.6%)	-	12	-	-	240V 1ph	9.5x15.9	-	16.5	870x1100x460	95	L9
FCU-906.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.2	4.3	7	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L9
FCU-906.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.1	1.7	2.8	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L9
FCU-906.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.3	2.2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L9
CU-E-L11	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.1 (-16.8%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	L11
FCU-1106.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.9	4.7	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	L11
FCU-1106.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.3	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	L11
FCU-1106.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	L11
CU-1001-L10	DAIKIN	RXYMQ5BVM	CONDENSING UNIT	12.6 (-23.5%)	-	14.7	-	-	240V 1ph	9.5x15.9	-	27	990x940x320	78	LEVEL 10
FCU-1001.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.4	4.5	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1001.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.1	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1001.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
FCU-1001.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
FCU-1001.5	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
CU-B2-L10	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	12.0 (-0.6%)	-	12.8	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 10
FCU-1003.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	6.1	4.8	7.3	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1003.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1003.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.8	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
CU-C-L10	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.3 (-21.1%)	-	12.7	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 10
FCU-1004.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.5	4.6	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1004.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.2	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1004.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
FCU-1004.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.8	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
CU-D-L10	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.1 (-22.4%)	-	12.6	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 10
FCU-1005.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.4	4.6	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1005.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.2	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1005.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
FCU-1005.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
CU-E-L10	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.1 (-16.4%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 10
FCU-1006.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.9	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 10
FCU-1006.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 10
FCU-1006.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 10
CU-A-L12	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.1 (-16.4%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 12
FCU-1201.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.9	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 12
FCU-1201.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1201.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
CU-B1-L12	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.2 (-15.4%)	-	12.4	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 12
FCU-1202.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.9	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 12
FCU-1202.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1202.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
CU-B2-L12	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.6 (-12.4%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 12
FCU-1203.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	6.2	4.9	7.3	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 12
FCU-1203.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.5	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1203.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	2	1.8	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
CU-1204-L12	DAIKIN	RSUYQ6AVMA	CONDENSING UNIT	15.4	-	17.8	-	-	400V 3ph	9.5x19.1	-	18.5	870x1100x460	98	LEVEL 12
FCU-1204.1	DAIKIN	FXDQ40TV1B	DUCTED UNIT	3.2	2.8	5.8	27.0 / 19.0	210	220V 1ph	6.4x12.7	29-34	1.9	900×200×450	21	LEVEL 12
FCU-1204.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2	1.6	2.3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1204.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
FCU-1204.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
FCU-1204.5	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
FCU-1204.6	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
FCU-1204.7	DAIKIN	FXDQ50TV1B	DUCTED UNIT	4	3.4	4.6	27.0 / 19.0	250	220V 1ph	6.4x12.7	30-35	2.1	900×200×450	21	LEVEL 12
CU-E-L12	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.3 (-14.7%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 12
FCU-1206.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	6	4.8	7.3	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 12
FCU-1206.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 12
FCU-1206.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 12
CU-1301-L13	DAIKIN	RXYMQ5BVM	CONDENSING UNIT	12.5 (-24.5%)	-	14.7	-	-	240V 1ph	9.5x15.9	-	27	990x940x320	78	LEVEL 13
FCU-1301.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.3	4.5	6.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 13
FCU-1301.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.1	2	2.5	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 13
FCU-1301.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1301.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1301.5	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.6	2	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
CU-B2-L13	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.4 (-14.1%)	-	12.5	-	-	240V 1ph	9.5x15.9	-	16.5	940×990×320	71	LEVEL 13
FCU-1303.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	6	4.8	7.3	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 13
FCU-1303.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 13
FCU-1303.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
CU-1304-L13	DAIKIN	RSUYQ6AVMA	CONDENSING UNIT	15.3	-	17.7	-	-	400V 3ph	9.5x19.1	-	18.5	870x1100x460	98	LEVEL 13
FCU-1304.1	DAIKIN	FXDQ40TV1B	DUCTED UNIT	3.1	2.8	3.6	27.0 / 19.0	210	220V 1ph	6.4x12.7	29-34	1.9	900×200×450	21	LEVEL 13
FCU-1304.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2	1.6	2.3	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 13
FCU-1304.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1304.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1304.5	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1304.6	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
FCU-1304.7	DAIKIN	FXDQ50TV1B	DUCTED UNIT	3.9	3.4	4.5	27.0 / 19.0	250	220V 1ph	6.4x12.7	30-35	1.8	900×200×450	21	LEVEL 13
CU-E-L13	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	10.2 (-15.6%)	-	12.4	-	-	240V 1ph	6.4x12.7	-	16.5	940×990×320	71	LEVEL 13
FCU-1306.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.9	4.8	7.2	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 13
FCU-1306.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 13
FCU-1306.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	2.3	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 13
CU-F-L14 & L15	DAIKIN	RXYMQ6BVM	CONDENSING UNIT	15.5(-23%)	-	16	-	-	240V 1ph	9.5x19.1	-	27	990x940x320	80	LEVEL 14 &15
FCU-1401.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	5.4	4.6	5.6	27.0 / 19.0	325	220V 1ph	9.5x15.9	33-37	1.8	1100×200×450	24	LEVEL 14 &15
FCU-1401.2	DAIKIN	FXDQ32TV1B	DUCTED UNIT	2.7	2.4	2.8	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.9	700×200×450	18	LEVEL 14 &15
FCU-1401.3	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.2	2	2.2	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 14 &15
FCU-1401.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1401.5	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1401.6	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.7	1.7	1.8	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
CU-G-L14 & L15	DAIKIN	RXYMQ6BVM	CONDENSING UNIT	16 (-15.8%)	-	16.1	-	-	240V 1ph	9.5x19.1	-	27	990x940x320	80	LEVEL 14 &15
FCU-1402.1	DAIKIN	FXSQ80PAVE	DUCTED UNIT	7.5	5.8	7.6	27.0 / 19.0	383	220V 1ph	9.5x15.9	30-37.5	1.8	1000×245×800	37	LEVEL 14 &15
FCU-1402.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 14 &15
FCU-1402.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1402.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.9	1.7	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1402.5	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.4	2.1	2.4	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.8	700×200×450	18	LEVEL 14 &15
CU-H-L14 & L15	DAIKIN	RSUYQ6AVMA	CONDENSING UNIT	15.2	-	17.7	-	-	400V 3ph	9.5x19.1	-	18.5	870x1100x460	98	LEVEL 14 &15
FCU-1403.1	DAIKIN	FXDQ40TV1B	DUCTED UNIT	3.2	2.8	3.7	27.0 / 19.0	210	220V 1ph	6.4x12.7	29-34	1.9	900×200×450	21	LEVEL 14 &15
FCU-1403.2	DAIKIN	FXDQ40TV1B	DUCTED UNIT	3.2	2.8	3.7	27.0 / 19.0	210	220V 1ph	6.4x12.7	29-34	1.9	900×200×450	21	LEVEL 14 &15
FCU-1403.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1403.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1403.5	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15
FCU-1403.6	DAIKIN	FXDQ32TV1B	DUCTED UNIT	2.5	2.1	2.9	27.0 / 19.0	150	220V 1ph	6.4x12.7	28-33	0.9	700×200×450	18	LEVEL 14 &15
FCU-1403.7	DAIKIN	FXDQ20TV1B	DUCTED UNIT	1.6	1.3	1.9	27.0 / 19.0	135	220V 1ph	6.4x12.7	28-32	0.6	700×200×450	18	LEVEL 14 &15

AC UNIT SCHEDULE - WELLNEST AREA

REF. NO.	MAKE	MODEL	SERVED AREA	TOTAL COOLING	SENSIBLE COOLING	HEATING COOLING	S/A	POWER	PIPE SIZE	DIMENSIONS	WEIGHT
				Kw	Kw	Kw	L/s		mm	HxWxD	Kg
FCU-WELNESS	DAIKIN	FBA125BVMA	Wellnest area	12.5	-	-	-	1PH / 220V / 50Hz	9.5Ø/15.9Ø	245x1400x800	47
CU-WELNESS	DAIKIN	RZF125CYM (TBA)	-	12.5	-	-	-	1PH / 220V / 50Hz	9.5Ø/15.9Ø	990x940x320	64

FAN SCHEDULE - BASEMENT TO LEVEL 3

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	
EF-1.1	FANTECH	SCE454	SHORT CASE SERIES	1	1000	80	1320	0.25	240 / 1 / 50	51	14	BASEMENT 1
EF-1.2	FANTECH	SCE454	SHORT CASE SERIES	1	1000	80	1320	0.25	240 / 1 / 50	51	14	BASEMENT 1
EF-2.1	FANTECH	AP0636LP12/26	AP SERIES IN-LINE DIRECT DRIVE	1	2070	120	960	0.83	415 / 3 / 50	52	50.3	BASEMENT 1
EF-G1	FANTECH	TD-500/150 (HI SPEED)	MIXVENT SERIES	1	130	120	2500	0.05	415 / 3 / 50	46	2.7	LEVEL 1
EF-G2	FANTECH	SCD504SC	SHORT CASE SERIES	1	2000	120	1400	0.55	415 / 3 / 50	54	20	LEVEL 1
EF-G3	FANTECH	CPE0314FHP	COMPACT 2000 SERIES	1	400	80	1267	0.09	415 / 3 / 50	49	10	LEVEL 1
SF-G-1	FANTECH	AP0404AP10/39	AP Series In-Line Direct Drive	1	1200	120	1440	0.55	415 / 3 / 50	55	33.5	LEVEL 1
SWPF-B1	TO BE DELETED											
EF-1	FANTECH	RESPF150	Response Series	2	-	120	960	0.06	240 / 1 / 50	37	3.25	LEVEL 1
EF-2	FANTECH	RIL-150SW	IN-LINE FAN	1	-	+	2520	0.05	240 / 1 / 50	42	2.7	LEVEL 1
CPEF-3	FANTECH	SCD504SC	SHORT CASE SERIES	1	2000	120	1400	0.55	415 / 3 / 50	54	20	LEVEL 1
SF-M.1	FANTECH	AP0504JP6/25	AP SERIES IN-LINE DIRECT DRIVE	1	1540	120	1440	0.41	415 / 3 / 50	54	28.3	SECTION 1
SF-01	FANTECH	AP0504KP9/20	AP SERIES IN-LINE DIRECT DRIVE	1	1500	120	1440	0.61	415 / 3 / 50	54	36.9	SECTION 1
SF-1.1	FANTECH	AP0504JP6/25	AP SERIES IN-LINE DIRECT DRIVE	1	1540	120	1440	0.41	415 / 3 / 50	54	28.3	SECTION 1
SF-P1	FANTECH	AP0634LP9/31	AP SERIES IN-LINE DIRECT DRIVE	1	4000	180	1440	2.2	415 / 3 / 50	61	59	LEVEL 3

SF-P1	FANTECH	AP0634LP9/31	AP SERIES IN-LINE DIRECT DRIVE	1	4000	180	1440	2.2	415 / 3 / 50	61	59	LEVEL 3

FAN SCHEDULE - LEVEL 4 TO 9 & 11

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
EF-1	FANTECH	ECL29-150RDW	Velocity Series	84	25	120	950	0.04	220 / 1 / 50	39	3	ENSUITES/BATHROOMS
EF-2	FANTECH	RESPF150	Response Series	42	40	120	960	0.06	240 / 1 / 50	37	3.25	ENSUITES/BATHROOMS

FAN SCHEDULE - LEVEL 10

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	
EF-2	FANTECH	RESPF150	Response Series	5	40	120	960	0.06	240 / 1 / 50	37	3.25	ENSUITES/BATHROOMS
EF-4	FANTECH	RESPF150	Response Series	2	25	150	1920	0.06	240 / 1 / 50	39	2.2	ENSUITES/BATHROOMS

FAN SCHEDULE - LEVEL 12

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	
EF-2	FANTECH	RESPF150	Response Series	6	40	120	1920	0.06	240 / 1 / 50	39	2.2	ENSUITES/BATHROOMS
EF-4	FANTECH	RESPF150	Response Series	1	25	150	1920	0.06	240 / 1 / 50	39	2.2	ENSUITES/BATHROOMS

FAN SCHEDULE - LEVEL 13

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	

FAN SCHEDULE - LEVEL 14 & 15

REF. NO.	MAKE	MODEL	TYPE	QTY.	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	r/min	Kw	V / Ph / Hz	dBA @ 3m	Kg	
EF-1	FANTECH	ECL29-150RDW	Velocity Series	14	25	40	950	0.04	220 / 1 / 50	39	3	ENSUITES/BATHROOMS
EF-2	FANTECH	RESPF150	Response Series	6	40	120	950	0.06	220 / 1 / 50	38	3.3	ENSUITES/BATHROOMS
EF-4	FANTECH	RESPF150	Response Series	8	25	120	950	0.06	220 / 1 / 50	38	3.3	ENSUITES/BATHROOMS

GRILLE SCHEDULE -BASEMENT 1 FLOOR

REF. NO.	AIR TYPE	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
B1-S1	SUPPLY	200	800x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-G-1	-
B1-S2	SUPPLY	130	400x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-1.1	-
B1-S3	SUPPLY	130	400x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-1.1	-
B1-S4	SUPPLY	130	400x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-1.1	-
B1-S5	SUPPLY	300	1000x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-1.1	-
B1-S6	SUPPLY	375	1000x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-1.1	-
B1-S7	SUPPLY	375	1000x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-1.1	-
B1-E1	EXHAUST	500	1000x150 OBD	-	-	YES	EGG CRATE C/W OBD BEHIND	EF-2.1	-
B1-E2	EXHAUST	500	1000x150 OBD	-	-	YES	EGG CRATE C/W OBD BEHIND	EF-2.1	-
B1-E3	EXHAUST	500	600x350 OBD	-	-	YES	EGG CRATE C/W OBD BEHIND	EF-1.2	-
B1-E4	EXHAUST	500	600x350 OBD	-	-	YES	EGG CRATE C/W OBD BEHIND	EF-1.2	-
B1-WL1	EXHAUST	4050	4600x1000	-	-	-	WEATHER LOUVRE	-	VERMIN PROOF MESH

GRILLE SCHEDULE -BASEMENT MEZZANINE FLOOR

REF. NO.	AIR TYPE	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
BM-S1	SUPPLY	200	800x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SWPF-B1	-
BM-S2	SUPPLY	250	350x350	-	-	-	4 WAY CURVED BLADE DIFFUSER C/W OBD BEHIND	SF-M.1	-
BM-S3	SUPPLY	250	350x350	-	-	-	4 WAY CURVED BLADE DIFFUSER C/W OBD BEHIND	SF-M.1	-
BM-S4	SUPPLY	250	350x350	-	-	-	4 WAY CURVED BLADE DIFFUSER C/W OBD BEHIND	SF-M.1	-
BM-S5	SUPPLY	250	350x350	-	-	-	4 WAY CURVED BLADE DIFFUSER C/W OBD BEHIND	SF-M.1	-
BM-S6	SUPPLY	250	350x350	-	-	-	4 WAY CURVED BLADE DIFFUSER C/W OBD BEHIND	SF-M.1	-
BM-S7	SUPPLY	250	1200x100	-	-	-	EGG CRAGE C/W OBD BEHIND	SF-M.1	-
BM-E1	EXAHUST	1000	900x900	-	-	-	EGG CRAGE C/W OBD BEHIND	CPEF-3	-
BM-E2	EXAHUST	1000	900x900	-	-	-	EGG CRAGE C/W OBD BEHIND	CPEF-3	-

GRILLE SCHEDULE - LEVEL 14 TO 15

REF. NO.	AIR TYPE	QTY.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
E1	EXHAUST	16	-	250x250	-	-	-	EGG CRATE	-	-
E2	EXHAUST	10	-	300x300	-	150	-	EGG CRATE	-	THUMB WHEEL & SLIDE LINT FILTER BEHIN
E3	EXHAUST	4	-	150DIA	-	150	-	-	-	-
S1	SUPPLY	2	-	2000x150	-	-	-	LINEAR BAR GRILLE	-	-
S2	SUPPLY	30	-	1200x150	-	-	-	LINEAR BAR GRILLE	-	-
S3	SUPPLY	2	-	4000x150	-	-	-	LINEAR BAR GRILLE	-	-
R1	RETURN	2	-	595x595	-	-	-	EGG CRATE	-	-

GRILLE SCHEDULE -BASEMENT 2 FLOOR

REF. NO.	AIR TYPE	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
B2-S1	SUPPLY	60	400x100	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-0.1	-
B2-S2	SUPPLY	130	400x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-0.1	-
B2-S3	SUPPLY	70	400x100	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-0.1	-
B2-S4	SUPPLY	130	400x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-0.1	-
B2-S5	SUPPLY	130	400x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-0.1	-
B2-S6	SUPPLY	170	400x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-0.1	-
B2-S7	SUPPLY	270	800x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-0.1	-
B2-S8	SUPPLY	270	800x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-0.1	-
B2-S9	SUPPLY	270	800x150	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-0.1	-
B2-S10	SUPPLY	400	800x153	-	-	YES	EGG CRATE C/W OBD BEHIND	SF-G-1	-
B2-E1	EXHAUST	500	1000x150	-	-	YES	EGG CRATE C/W OBD BEHIND	EF-2.1	-
B2-E2	EXHAUST	500	200x800	-	-	YES	EGG CRATE C/W OBD BEHIND	EF-2.1	-
B2-E3	EXHAUST	500	600x350	-	-	YES	EGG CRATE C/W OBD BEHIND	EF-2.1	-
B2-E4	EXHAUST	500	600x350	-	-	YES	EGG CRATE C/W OBD BEHIND	EF-2.1	-

GRILLE SCHEDULE - LEVEL 1 FLOOR

REF. NO.	AIR TYPE	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
L1-E1	EXHAUST	70	200x200	-	-	-	EGG CRATE GRILLES	EF-G-1	-
L1-E2	EXHAUST	70	200x200	-	-	-	EGG CRATE GRILLES	EF-G-1	-
L1-WL1	SUPPLY	2000	1000x2200	-	-	-	WEATHER LOUVRE	-	-
L1-WL2	EXHAUST	2000	1300x1880	-	-	-	WEATHER LOUVRE	EF-G-2	-
L1-WL3	EXHAUST	-	350x350	-	-	-	WEATHER LOUVRE	EF-G-3	-
L1-WL4	EXHAUST	-	300x250	-	-	-	WEATHER LOUVRE	EF-G-1	-
L1-WL5	SUPPLY	-	400x400	-	-	-	WEATHER LOUVRE	-	-
L1-WL6	EXHAUST	-	500x500	-	-	-	WEATHER LOUVRE	SF-G-1	-
L1-WL7	EXHAUST	2000	1100x800	-	-	-	WEATHER LOUVRE	CPEF-3	-
L1-WL8	EXHAUST	4560	1250x2050	-	-	-	WEATHER LOUVRE	-	-
L1-WL9	EXHAUST	-	300x200	-	-	-	WEATHER LOUVRE	-	-
6 off SAG-1	SUPPLY	-	1000x150	-	-	200	CURVED LINEAR GRILLE	FCU-WELNESS	-
4 off SAG-2	RETURN	-	1000x150	-	-	250	CURVED LINEAR GRILLE	FCU-WELNESS	-

GRILLE SCHEDULE - LEVEL 2

REF. NO.	AIR TYPE	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
L2-O1	SUPPLY	2000	1200x500	-	-	-	CHEVRON GRILLE	SF-P1	C/W OBD

GRILLE SCHEDULE - LEVEL 3

REF. NO.	AIR TYPE	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
L3-O1	SUPPLY	2000	1200x900	-	-	-	CHEVRON GRILLE	SF-P1	C/W OBD
L3-WL1	SUPPLY	-	1700x1400	-	-	-	WEATHER PROOF LOUVRE	SF-P1	-

GRILLE SCHEDULE - LEVEL 4

REF. NO.	AIR TYPE	QTY.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
E1	EXHAUST	15	-	250x250	-	-	-	EGG CRATE	-	-
E2	EXHAUST	6	-	300x300	-	150	-	EGG CRATE	-	THUMB WHEEL & SLIDE LINT FILTER BEHIN
S1	SUPPLY	6	-	2000x150	-	-	-	LINEAR BAR GRILLE	-	-
S2	SUPPLY	14	-	1200x150	-	-	-	LINEAR BAR GRILLE	-	-

GRILLE SCHEDULE - LEVEL 5 TO 9

REF. NO.	AIR TYPE	QTY.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
E1	EXHAUST	75	-	250x250	-	-	-	EGG CRATE	-	-
E2	EXHAUST	30	-	300x300	-	150	-	EGG CRATE	-	THUMB WHEEL & SLIDE LINT FILTER BEHIN
S1	SUPPLY	30	-	2000x150	-	-	-	LINEAR BAR GRILLE	-	-
S2	SUPPLY	70	-	1200x150	-	-	-	LINEAR BAR GRILLE	-	-

GRILLE SCHEDULE - LEVEL 10

REF. NO.	AIR TYPE	QTY.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
E1	EXHAUST	12	-	250x250	-	-	-	EGG CRATE	-	-
E2	EXHAUST	5	-	300x300	-	150	-	EGG CRATE	-	THUMB WHEEL & SLIDE LINT FILTER BEHIN
S1	SUPPLY	5	-	2000x150	-	-	-	LINEAR BAR GRILLE	-	-
S2	SUPPLY	14	-	1200x150	-	-	-	LINEAR BAR GRILLE	-	-

GRILLE SCHEDULE - LEVEL 11

REF. NO.	AIR TYPE	QTY.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
E1	EXHAUST	15	-	250x250	-	-	-	EGG CRATE	-	-
E2	EXHAUST	6	-	300x300	-	150	-	EGG CRATE	-	THUMB WHEEL & SLIDE LINT FILTER BEHIN
S1	SUPPLY	6	-	2000x150	-	-	-	LINEAR BAR GRILLE	-	-
S2	SUPPLY	14	-	1200x150	-	-	-	LINEAR BAR GRILLE	-	-

GRILLE SCHEDULE - LEVEL 12

REF. NO.	AIR TYPE	QTY.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
E1	EXHAUST	13	-	250x250	-	-	-	EGG CRATE	-	-
E2	EXHAUST	6	-	300x300	-	150	-	EGG CRATE	-	THUMB WHEEL & SLIDE LINT FILTER BEHIN
E3	EXHAUST	1	-	150DIA	-	150	-		-	-
S1	SUPPLY	6	-	2000x150	-	-	-	LINEAR BAR GRILLE	-	-
S2	SUPPLY	13	-	1200x150	-	-	-	LINEAR BAR GRILLE	-	-

GRILLE SCHEDULE - LEVEL 13

REF. NO.	AIR TYPE	QTY.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	DIFFUSION	SYSTEM	COMMENTS
E1	EXHAUST	10	-	250x250	-	-	-	EGG CRATE	-	-
E2	EXHAUST	3	-	300x300	-	150	-	EGG CRATE	-	THUMB WHEEL & SLIDE LINT FILTER BEHIN
E3	EXHAUST	2	-	150DIA	-	150	-		-	-
S1	SUPPLY	5	-	2000x150	-	-	-	LINEAR BAR GRILLE	-	-
S2	SUPPLY	13	-	1200x150	-	-	-	LINEAR BAR GRILLE	-	-

NOTE

1) INTERNAL APARTMENT GRILLES SHOULD BE WHITE WHEN IN PLASTERBOARD AND BLACK WHEN IN JOINERY TIMBER LAMINATE.

2) EXTERIOR LOCATIONS SHOULD BE COLOUR MATCHED TO SURROUNDING SUBSTRATE MATERIAL. ALL NEED APPROVAL FROM MPG BEFORE INSTALLATION.

DAMPER SCHEDULE

REF. NO.	SIZE	QTY.	TYPE	SYSTEM
NRD-1	147DIA	75	NRD VOLUME CONTROL DAMPER	EF-2 & EF-4
NRD-3	300x250	1	NRD VOLUME CONTROL DAMPER	EF-G-1
MOT-5	625x625	1	MOTORISED VOLUME CONTROL DAMPER	SF-M1
MOT-6	625x625	1	MOTORISED VOLUME CONTROL DAMPER	SF-0.1
MOT-7	625x625	1	MOTORISED VOLUME CONTROL DAMPER	SF-1.1

FIRE DAMPER SCHEDULE

REF. NO.	SIZE	TYPE	SYSTEM
FD-1	400x400	FIRE DAMPER	-
FD-2	350x350	FIRE DAMPER	EF-G3
FD-3	500x500	FIRE DAMPER	-
FD-4	1250x2050	FIRE DAMPER	-
FD-5	1700x1400	FIRE DAMPER	SF-P1
FD-6	1700x1400	FIRE DAMPER	SF-P2

AC UNIT SCHEDULE - LOBBY AND WINEROOM

REF. NO.	MAKE	MODEL	SERVED AREA	TOTAL COOLING	SENSIBLE COOLING	HEATING COOLING	S/A	POWER	PIPE SIZE	DIMENSIONS	WEIGHT
				Kw	Kw	Kw	L/s		mm	HxWxD	Kg
AC-LOBBY	DAIKIN	FBA71BVMA	Lobby	7.1	-	-	-	1PH / 220V / 50Hz	9.5Ø/15.9Ø	245x1400x800	37
CU-LOBBY	DAIKIN	RZAC71CV1	-	7.1	-	-	-	1PH / 220V / 50Hz	9.5Ø/15.9Ø	595x845x300	41
AC-WINE ROOM	DAIKIN	FXDQ50TV1C	WINE ROOM	5.6	-	6.3	-	1PH / 220V / 50Hz	6.4Ø/12.7Ø	200x900x450	21
CU-WINE ROOM	DAIKIN	RXYMQ3AV4A	-	5.6	-	6.3	-	1PH / 220V / 50Hz	6.4Ø/12.7Ø	990x940x320	71

REV	DESCRIPTION	BY	DATE
17	AS BUILT	AVDS	17.03.2023
16	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	01.08.2022
15	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	19.07.2022
14	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	06.06.2022
13	UPDATED DESIGN OF WINEROOM AND LOBBY	AVDS	06.04.2022
12	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
11	UPDATED FAN MODEL	AVDS	27.10.2021
10	UPDATED UNIT MODEL	AVDS	14.10.2021
09	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
08	UPDATED FAN MODEL	AVDS	12.09.2021
07	UPDATED DRAWING	AVDS	10.08.2021
06	UPDATED DRAWING	AVDS	26.07.2021
05	UPDATED DRAWING	AVDS	17.07.2021
04	AMENDED DRAWING	AVDS	09.07.2021
03	UPDATED UNIT MODEL	AVDS	28.06.2021
02	AMENDED DRAWING	AVDS	21.05.2021
01	FOR APPROVAL	AVDS	20.05.2021

PortCity AIRCONDITIONING
PORT CITY AIR CONDITIONING PTY LTD
(Sunshine Coast Branch)
A : 4/74 Bulcock Street, Caloundra, Q 4551
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F : 07 4972 1791 W : www.portcitygroup.com.au

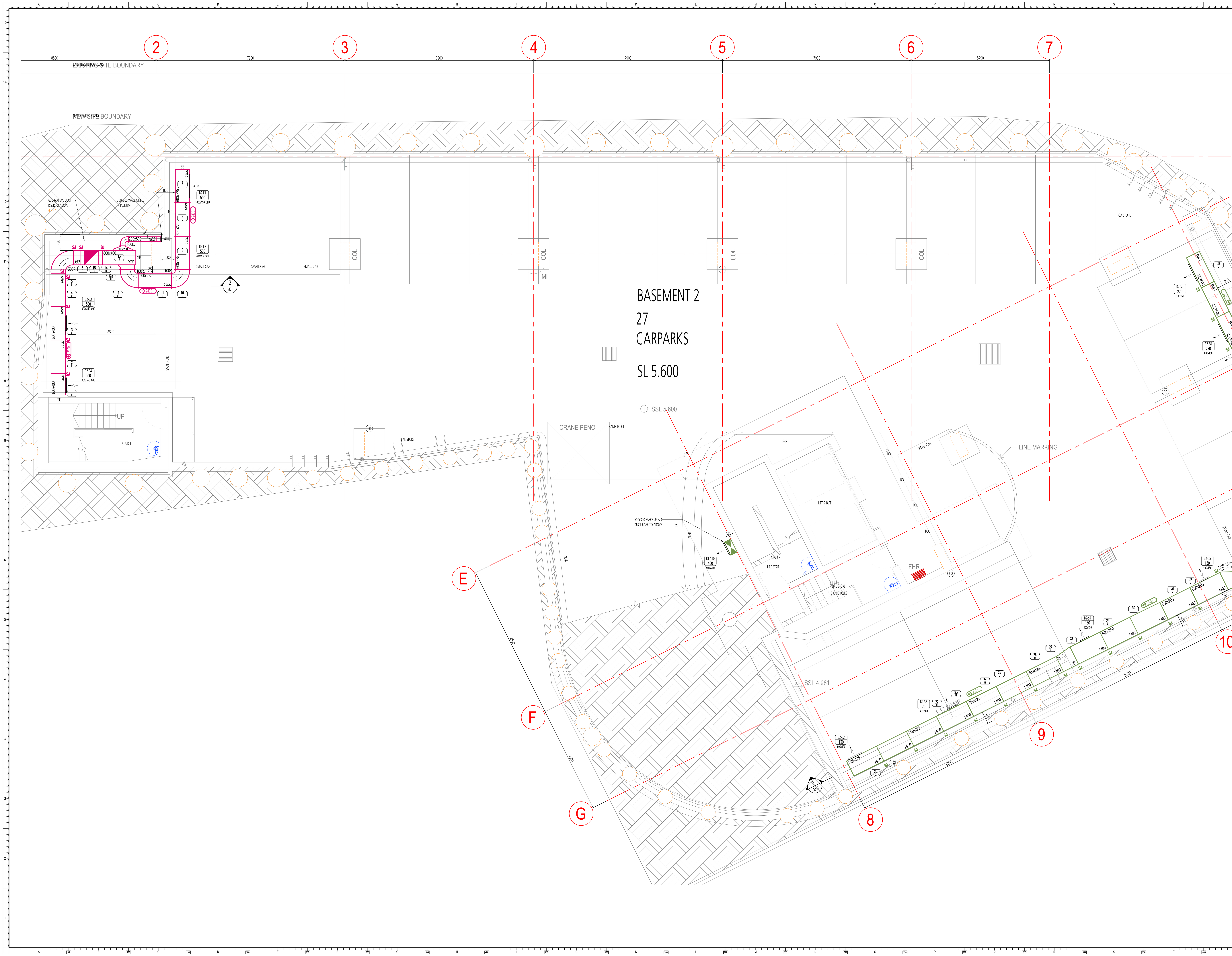
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
DRAWING LIST, LEGENDS, NOTES, SYMBOLS

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

AS BUILT

DRAWING M001 REVISION 17



REV	DESCRIPTION	BY	DATE
16	AS BUILT	AVDS	17.03.2023
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	FOR APPROVAL	AVDS	17.01.2022
12	UPDATED UNIT MODEL	AVDS	14.10.2021
11	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
10	UPDATED DRAWING	AVDS	10.08.2021
09	UPDATED DRAWING	AVDS	30.07.2021
08	UPDATED DRAWING	AVDS	17.07.2021
07	AMENDED DRAWING	AVDS	09.07.2021
06	AMENDED DRAWING	AVDS	21.05.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	UPDATED DRAWING	AVDS	22.03.2021
01	FOR APPROVAL	AVDS	17.03.2021

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PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
BASEMENT 2 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

AS BUILT

DRAWING M100 REVISION 16

REV	DESCRIPTION	BY	DATE
17	AS BUILT	AVDS	17.03.2023
16	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
15	UPDATED BACKGROUND	AVDS	11.05.2022
14	FOR APPROVAL	AVDS	17.01.2022
13	UPDATED UNIT MODEL	AVDS	14.10.2021
12	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
11	UPDATED DESIGNED	AVDS	24.08.2021
10	UPDATED DRAWING	AVDS	10.08.2021
09	UPDATED DRAWING	AVDS	26.07.2021
08	UPDATED DRAWING	AVDS	17.07.2021
07	AMENDED DRAWING	AVDS	09.07.2021
06	AMENDED DRAWING	AVDS	21.05.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	UPDATED DRAWING	AVDS	22.03.2021
01	FOR APPROVAL	AVDS	17.03.2021

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PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
BASEMENT 1 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

AS BUILT

DRAWING M101 REVISION 17

REV	DESCRIPTION	BY	DATE
17	AS BUILT	AVDS	17.03.2023
16	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
15	UPDATED BACKGROUND	AVDS	11.05.2022
14	FOR APPROVAL	AVDS	17.01.2022
13	UPDATED UNIT MODEL	AVDS	14.10.2021
12	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
11	UPDATED DESIGNED	AVDS	24.08.2021
10	UPDATED DRAWING	AVDS	10.08.2021
09	UPDATED DRAWING	AVDS	26.07.2021
08	UPDATED DRAWING	AVDS	17.07.2021
07	AMENDED DRAWING	AVDS	09.07.2021
06	AMENDED DRAWING	AVDS	21.05.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	UPDATED DRAWING	AVDS	22.03.2021
01	FOR APPROVAL	AVDS	17.03.2021

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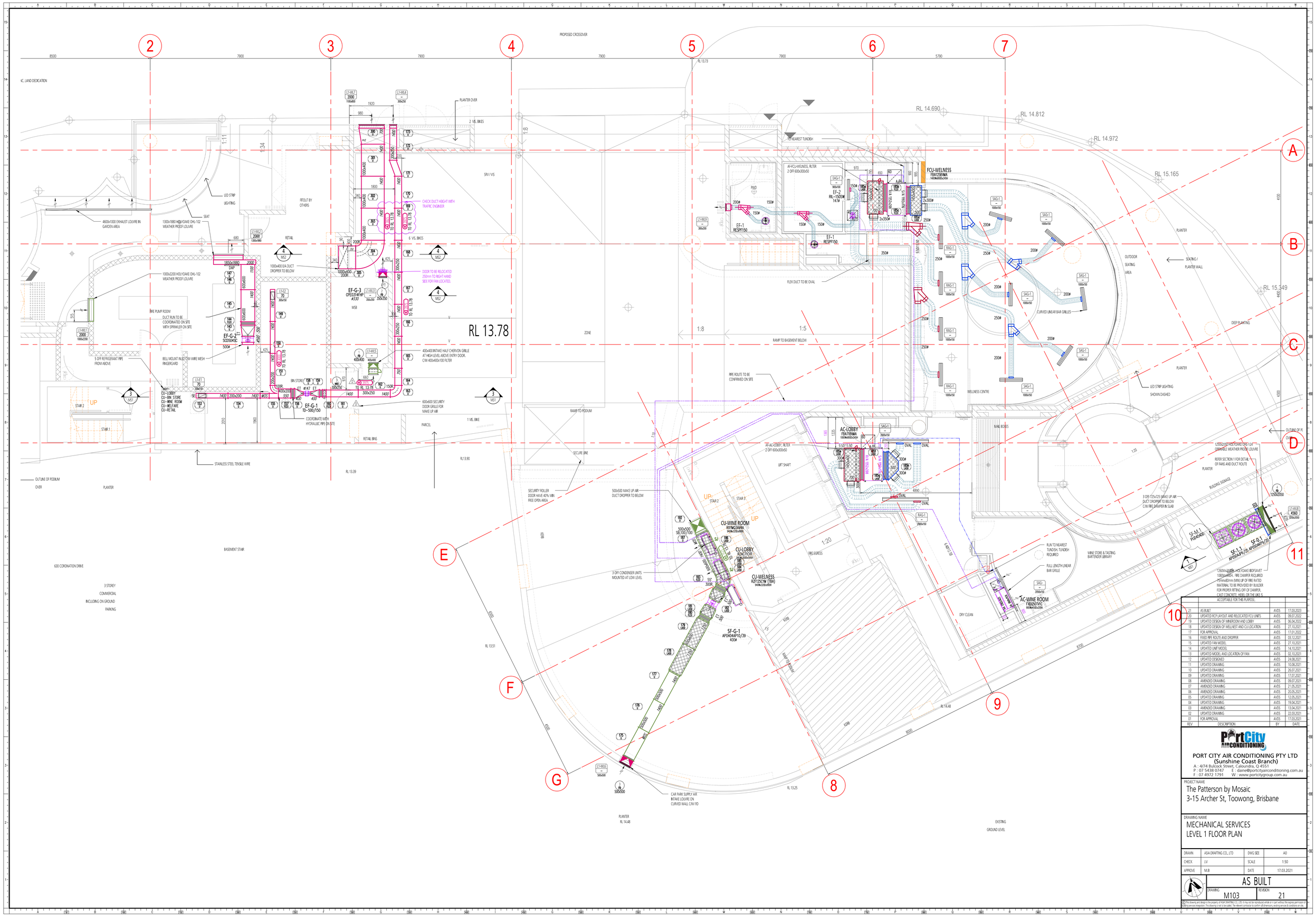
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
BASEMENT MEZZANINE FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

AS BUILT

DRAWING M102 REVISION 17



REV	DESCRIPTION	BY	DATE
21	AS BUILT	AVDS	17.03.2023
20	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
19	UPDATED DESIGN OF WINEROOM AND LOBBY	AVDS	06.04.2022
18	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
17	FOR APPROVAL	AVDS	17.01.2022
16	FIXED PIPE ROUTE AND DROPPER	AVDS	03.12.2021
15	UPDATED FAN MODEL	AVDS	27.10.2021
14	UPDATED UNIT MODEL	AVDS	14.10.2021
13	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
12	UPDATED DESIGNED	AVDS	24.08.2021
11	UPDATED DRAWING	AVDS	10.08.2021
10	UPDATED DRAWING	AVDS	26.07.2021
09	UPDATED DRAWING	AVDS	17.07.2021
08	AMENDED DRAWING	AVDS	09.07.2021
07	AMENDED DRAWING	AVDS	21.05.2021
06	AMENDED DRAWING	AVDS	20.05.2021
05	UPDATED DRAWING	AVDS	12.05.2021
04	UPDATED DRAWING	AVDS	19.04.2021
03	AMENDED DRAWING	AVDS	13.04.2021
02	UPDATED DRAWING	AVDS	22.03.2021
01	FOR APPROVAL	AVDS	17.03.2021

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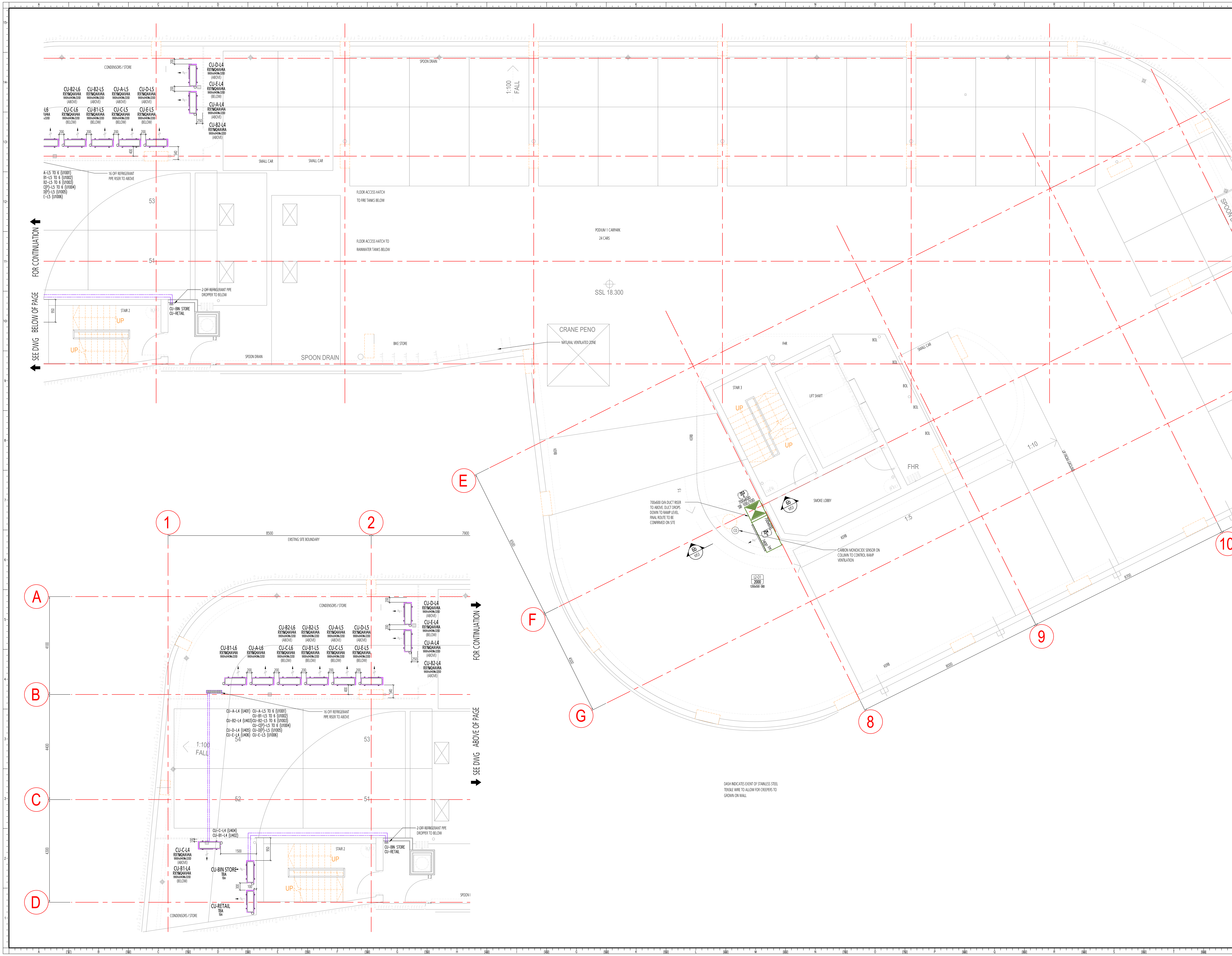
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL 1 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

AS BUILT

DRAWING M103
REVISION 21



REV	DESCRIPTION	BY	DATE
20	AS BUILT	AVDS	17.03.2023
19	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	01.08.2022
18	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	19.07.2022
17	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
16	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	06.06.2022
15	UPDATED BACKGROUND	AVDS	11.05.2022
14	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
13	FIXED PIPE ROUTE AND DROPPER	AVDS	03.12.2021
12	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
11	UPDATED UNIT MODEL	AVDS	14.10.2021
10	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
09	UPDATED DESIGNED	AVDS	24.08.2021
08	UPDATED DRAWING	AVDS	30.07.2021
07	UPDATED DRAWING	AVDS	17.07.2021
06	AMENDED DRAWING	AVDS	21.05.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	UPDATED DRAWING	AVDS	22.03.2021
01	FOR APPROVAL	AVDS	17.03.2021

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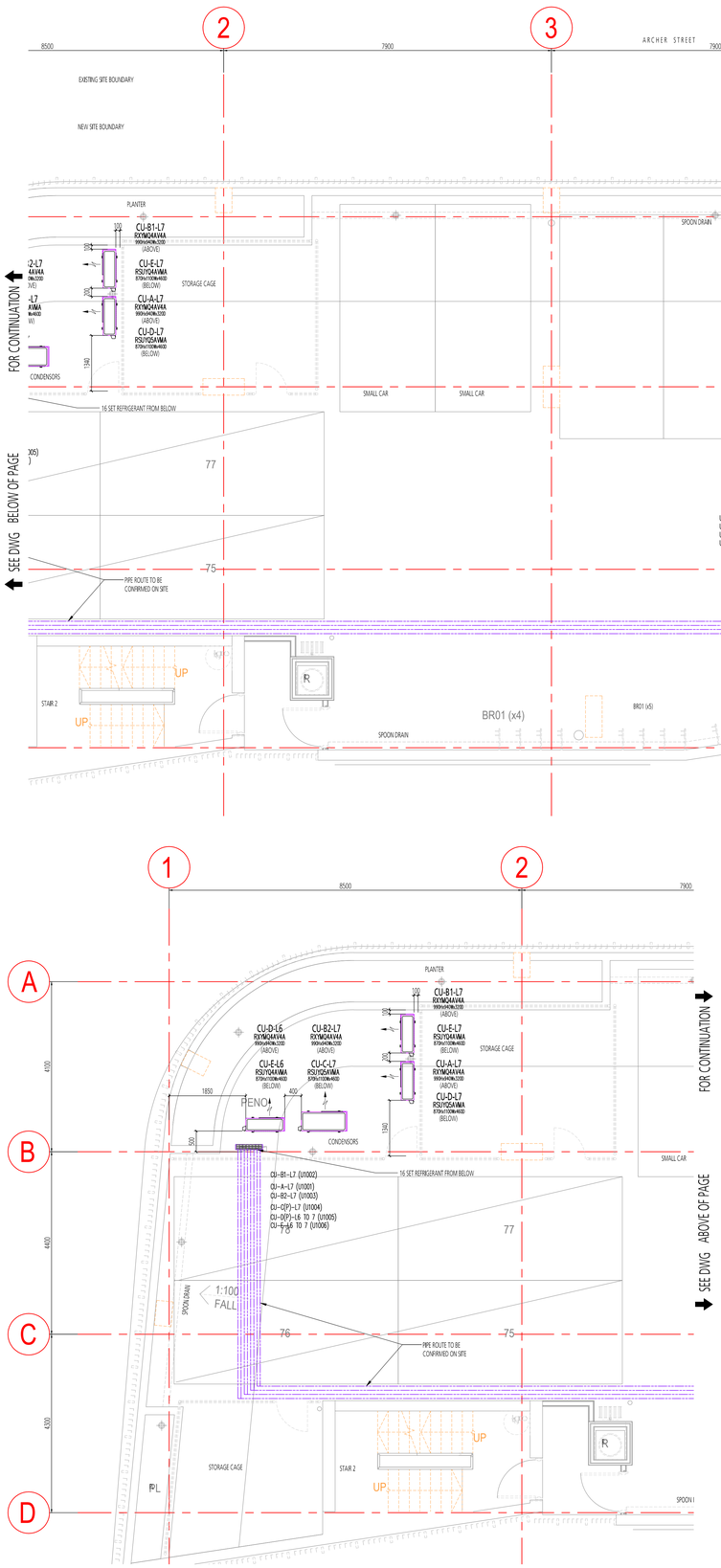
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

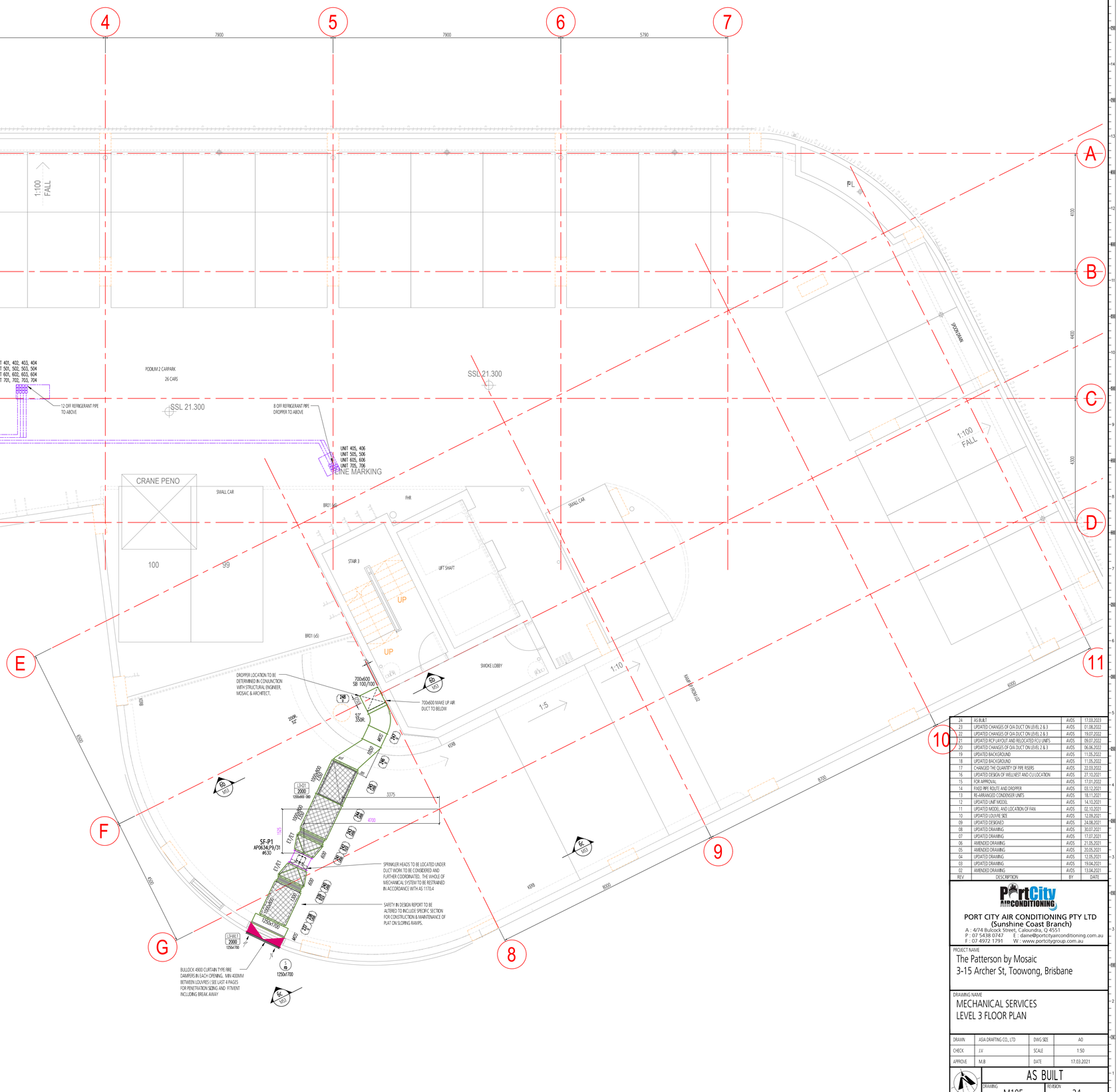
DRAWING NAME
MECHANICAL SERVICES
LEVEL 2 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

AS BUILT

DRAWING M104 REVISION 20





REV	DESCRIPTION	BY	DATE
24	AS BUILT	AVDS	17.03.2023
23	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	01.08.2022
22	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	19.07.2022
21	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
20	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	06.06.2022
19	UPDATED BACKGROUND	AVDS	11.05.2022
18	UPDATED BACKGROUND	AVDS	11.05.2022
17	CHANGED THE QUANTITY OF PIPE RISERS	AVDS	22.03.2022
16	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
15	FOR APPROVAL	AVDS	17.01.2022
14	FIXED PIPE ROUTE AND DROPPER	AVDS	03.12.2021
13	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
12	UPDATED UNIT MODEL	AVDS	14.10.2021
11	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
10	UPDATED LOUVRE SIZE	AVDS	12.09.2021
09	UPDATED DESIGNED	AVDS	24.08.2021
08	UPDATED DRAWING	AVDS	20.07.2021
07	UPDATED DRAWING	AVDS	17.07.2021
06	AMENDED DRAWING	AVDS	21.05.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021

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PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL 3 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

AS BUILT

DRAWING M105 REVISION 24

NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ON/OFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
16	AS BUILT	AVDS	17.03.2023
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	CHANGED THE QUANTITY OF PIPE RISERS	AVDS	22.03.2022
12	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
11	FOR APPROVAL	AVDS	17.01.2022
10	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
09	UPDATED UNIT MODEL	AVDS	14.10.2021
08	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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PROJECT NAME

The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME

MECHANICAL SERVICES LEVEL 4 PODIUM TOP FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

AS BUILT

DRAWING M106 REVISION 16

SEE DWG BELOW OF PAGE FOR CONTINUATION

FOR CONTINUATION SEE DWG ABOVE OF PAGE

NOTE

THE REFRIGERANT PIPE OF LEVEL 8 DROPS FROM ROOF ABOVE TO CONNECT TO FCU UNITS OF APARTMENTS FROM CONDENSER UNITS LOCATED ON PLANT DECK WITHIN GRID LINE 4 AND GRID LINE B

NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ON/OFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY JUNCTION BOX IN CEILING ADJACENT TO ROOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
16	AS BUILT	AVDS	17.03.2022
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	CHANGED THE QUANTITY OF PIPE RISERS	AVDS	22.03.2022
12	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
11	FOR APPROVAL	AVDS	17.01.2022
10	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
09	UPDATED UNIT MODEL	AVDS	14.10.2021
08	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
07	UPDATED FAN MODEL	AVDS	12.08.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

PORT CITY AIR CONDITIONING PTY LTD
(Sunshine Coast Branch)
A : 4/74 Bulcock Street, Caloundra, Q 4551
P : 07 5438 0747 E : daine@portcityairconditioning.com.au
F : 07 4972 1791 W : www.portcitygroup.com.au

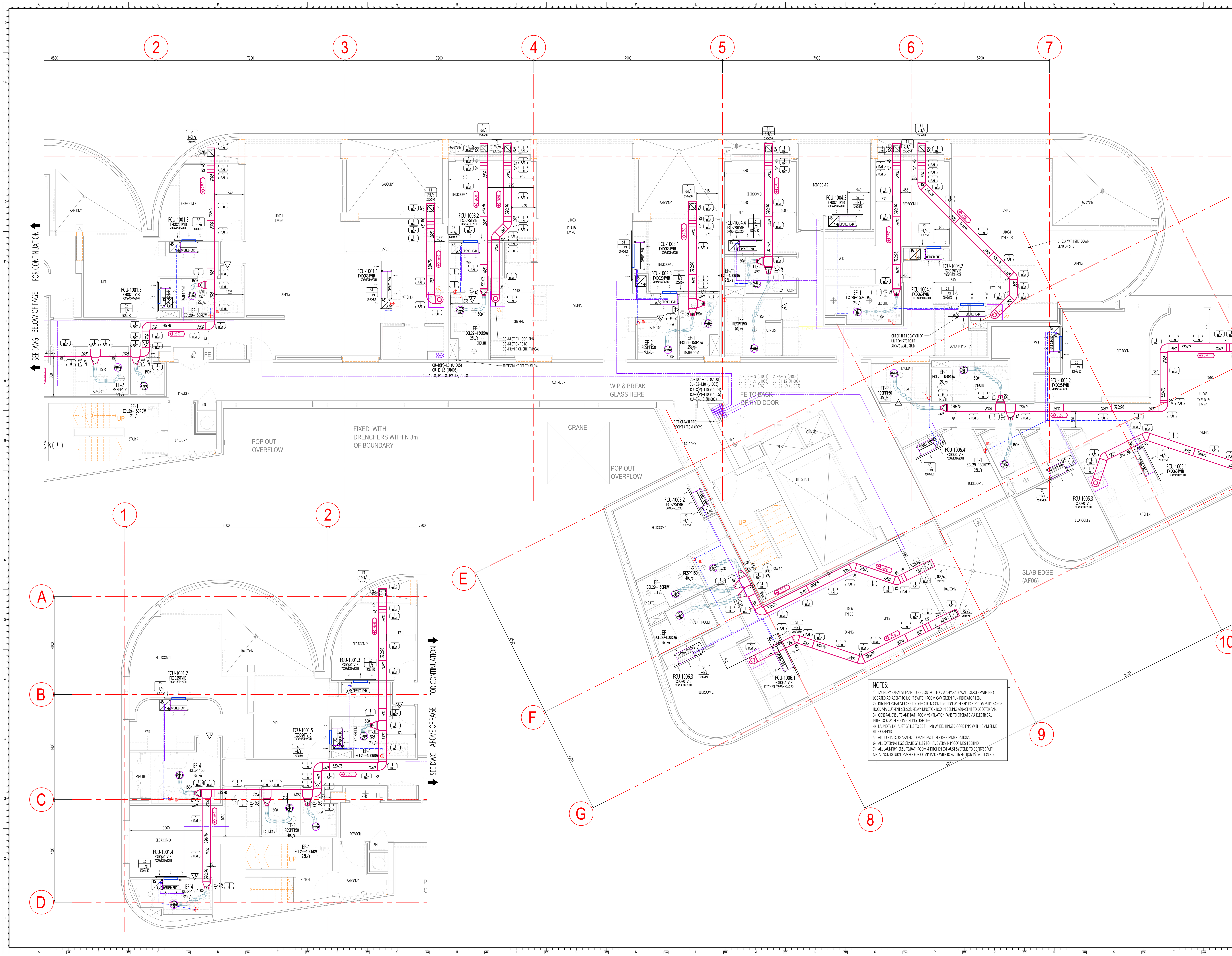
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL 5-9 TYPICAL
FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

AS BUILT

DRAWING M107 REVISION 16



NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ON/OFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
16	AS BUILT	AVDS	17.03.2023
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
12	FOR APPROVAL	AVDS	17.01.2022
11	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
10	UPDATED UNIT MODEL	AVDS	14.10.2021
09	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
08	UPDATED MODEL OF FAN EF-4	AVDS	17.09.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL10 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

AS BUILT

DRAWING M108 REVISION 16

SEE DWG BELOW OF PAGE FOR CONTINUATION

FOR CONTINUATION SEE DWG ABOVE OF PAGE

NOTES:
1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ON/OFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY JUNCTION BOX IN CEILING ADJACENT TO ROOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
15	AS BUILT	AVDS	17.03.2023
14	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
13	UPDATED BACKGROUND	AVDS	11.05.2022
12	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
11	FOR APPROVAL	AVDS	17.01.2022
10	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
09	UPDATED UNIT MODEL	AVDS	14.10.2021
08	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
07	UPDATED FAN MODEL	AVDS	12.08.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL11 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

AS BUILT

DRAWING M109 REVISION 15

NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ONJOFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM CAN GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY. JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
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REV	DESCRIPTION	BY	DATE
16	AS BUILT	AVDS	17.03.2023
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
12	FOR APPROVAL	AVDS	17.01.2022
11	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
10	UPDATED UNIT MODEL	AVDS	14.10.2021
09	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
08	UPDATED MODEL OF FAN EF-4	AVDS	17.09.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL12 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

AS BUILT

DRAWING M110 REVISION 16

SEE DWG BELOW OF PAGE FOR CONTINUATION

SEE DWG ABOVE OF PAGE FOR CONTINUATION

NOTES:
1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ONIOFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY. JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
3) GENERAL ENSUITE AND BATHROOM VENTILATION FANS TO OPERATE VIA ELECTRICAL INTERLOCK WITH ROOM CEILING LIGHTING.
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5) ALL JOINTS TO BE SEALED TO MANUFACTURES RECOMMENDATIONS.
6) ALL EXTERNAL EGG CRATE GRILLES TO HAVE VERMIN PROOF MESH BEHIND.
7) ALL LAUNDRY, ENSUITE/BATHROOM & KITCHEN EXHAUST SYSTEMS TO BE FITTED WITH METAL NON-RETURN DAMPER FOR COMPLIANCE WITH BCA2016 SECTION J5, SECTION 3.5.

REV	DESCRIPTION	BY	DATE
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	08.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
12	FOR APPROVAL	AVDS	17.01.2022
11	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
10	UPDATED UNIT MODEL	AVDS	14.10.2021
09	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
08	UPDATED MODEL OF FAN EF-4	AVDS	17.09.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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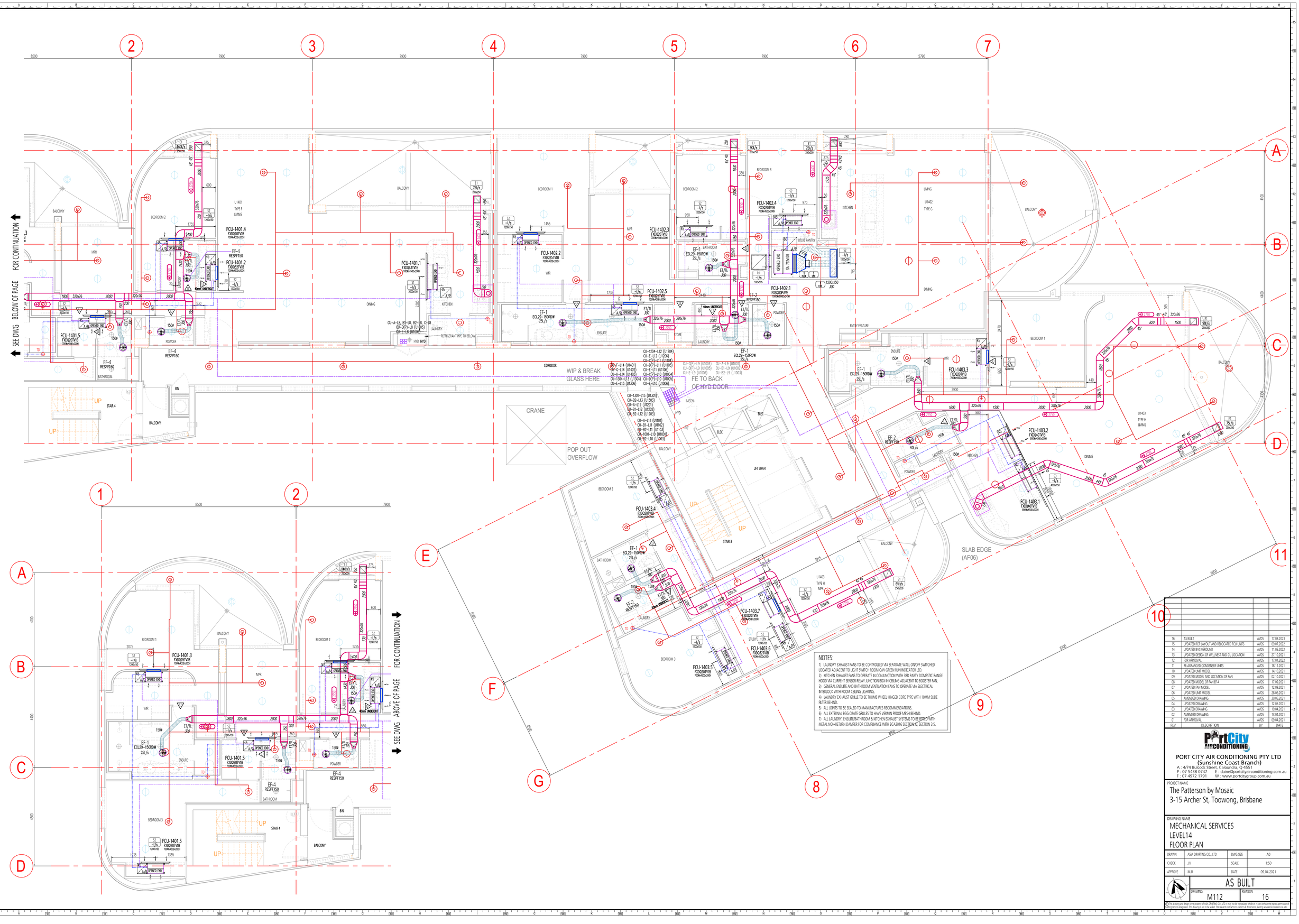
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL13 FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

AS BUILT

DRAWING M111 REVISION 15



NOTES:

1) LAUNDRY EXHAUST FANS TO BE CONTROLLED VIA SEPARATE WALL ONOFF SWITCHED LOCATED ADJACENT TO LIGHT SWITCH ROOM C/W GREEN RUN INDICATOR LED.
2) KITCHEN EXHAUST FANS TO OPERATE IN CONJUNCTION WITH 3RD PARTY DOMESTIC RANGE HOOD VIA CURRENT SENSOR RELAY. JUNCTION BOX IN CEILING ADJACENT TO BOOSTER FAN.
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4) LAUNDRY EXHAUST GRILLE TO BE THUMB WHEEL HINGED CORE TYPE WITH 10MM SLIDE FILTER BEHIND.
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REV	DESCRIPTION	BY	DATE
16	AS BUILT	AVDS	17.03.2023
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
12	FOR APPROVAL	AVDS	17.01.2022
11	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
10	UPDATED UNIT MODEL	AVDS	14.10.2021
09	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
08	UPDATED MODEL OF FAN EF-4	AVDS	17.09.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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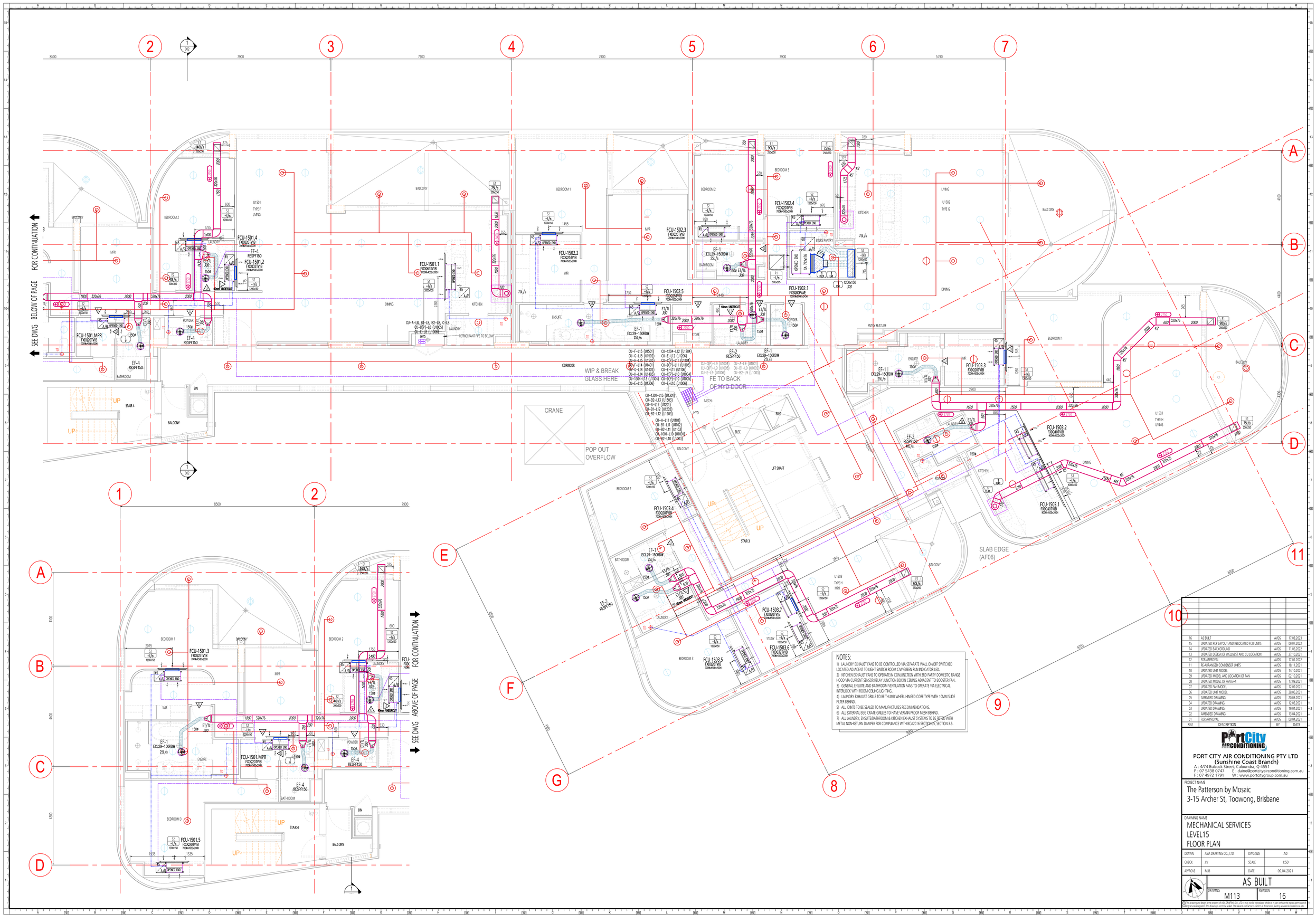
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL14
FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

AS BUILT

DRAWING: M112 REVISION: 16



REV	DESCRIPTION	BY	DATE
16	AS BUILT	AVDS	17.03.2023
15	UPDATED RCP LAYOUT AND RELOCATED FCU UNITS	AVDS	09.07.2022
14	UPDATED BACKGROUND	AVDS	11.05.2022
13	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
12	FOR APPROVAL	AVDS	17.01.2022
11	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
10	UPDATED UNIT MODEL	AVDS	14.10.2021
09	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
08	UPDATED MODEL OF FAN EF-4	AVDS	17.09.2021
07	UPDATED FAN MODEL	AVDS	12.09.2021
06	UPDATED UNIT MODEL	AVDS	28.06.2021
05	AMENDED DRAWING	AVDS	20.05.2021
04	UPDATED DRAWING	AVDS	12.05.2021
03	UPDATED DRAWING	AVDS	19.04.2021
02	AMENDED DRAWING	AVDS	13.04.2021
01	FOR APPROVAL	AVDS	09.04.2021

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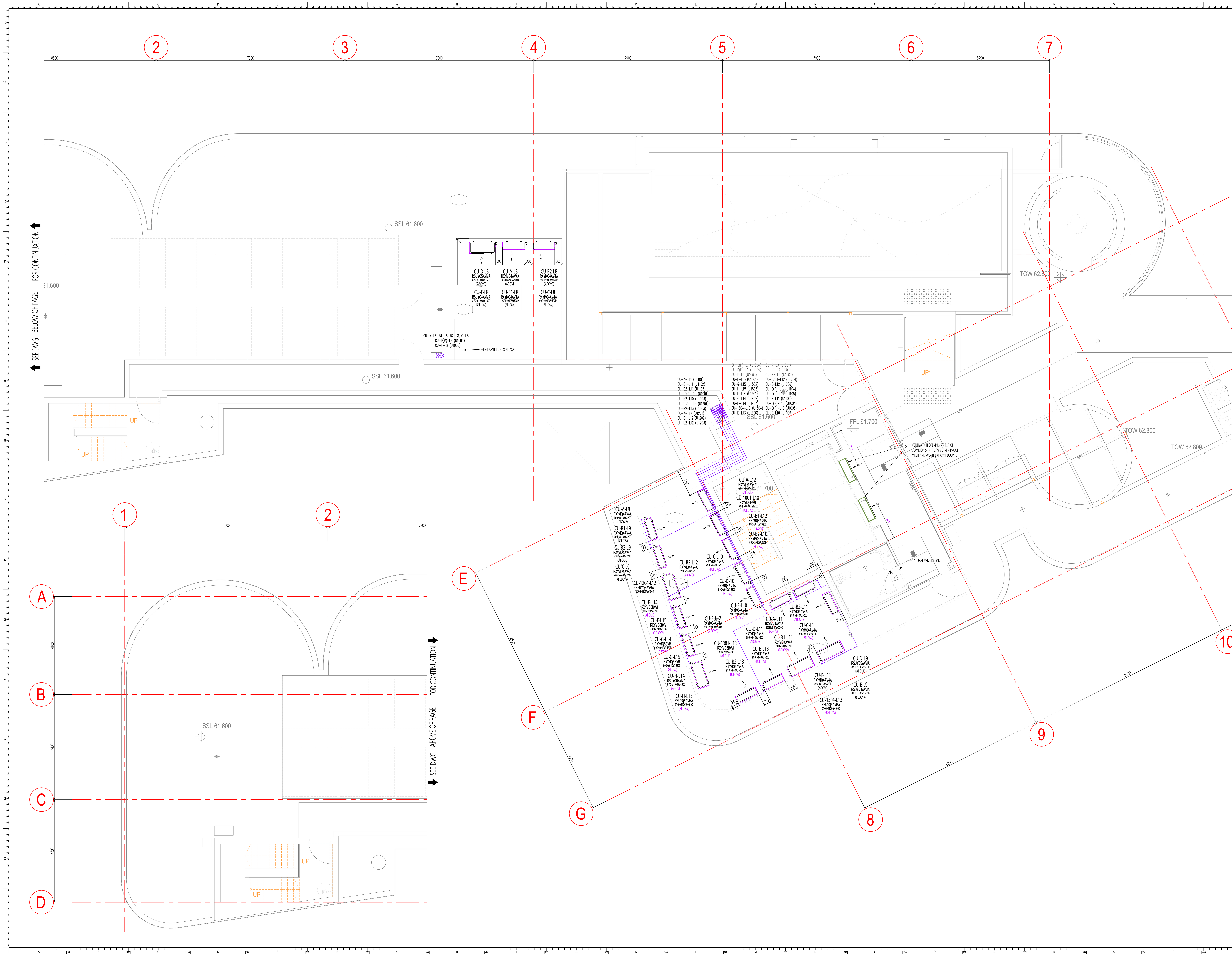
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
LEVEL15
FLOOR PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

AS BUILT

DRAWING M113 REVISION 16



REV	DESCRIPTION	BY	DATE
11	AS BUILT	AVDS	17.03.2023
10	UPDATED BACKGROUND	AVDS	11.05.2022
09	UPDATED DESIGN OF WELLNEST AND CU LOCATION	AVDS	27.10.2021
08	FOR APPROVAL	AVDS	17.01.2022
07	RE-ARRANGED CONDENSER UNITS	AVDS	18.11.2021
06	UPDATED UNIT MODEL	AVDS	14.10.2021
05	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
04	AMENDED DRAWING	AVDS	20.05.2021
03	UPDATED DRAWING	AVDS	12.05.2021
02	UPDATED DRAWING	AVDS	19.04.2021
01	FOR APPROVAL	AVDS	13.04.2021

PORT CITY AIR CONDITIONING PTY LTD
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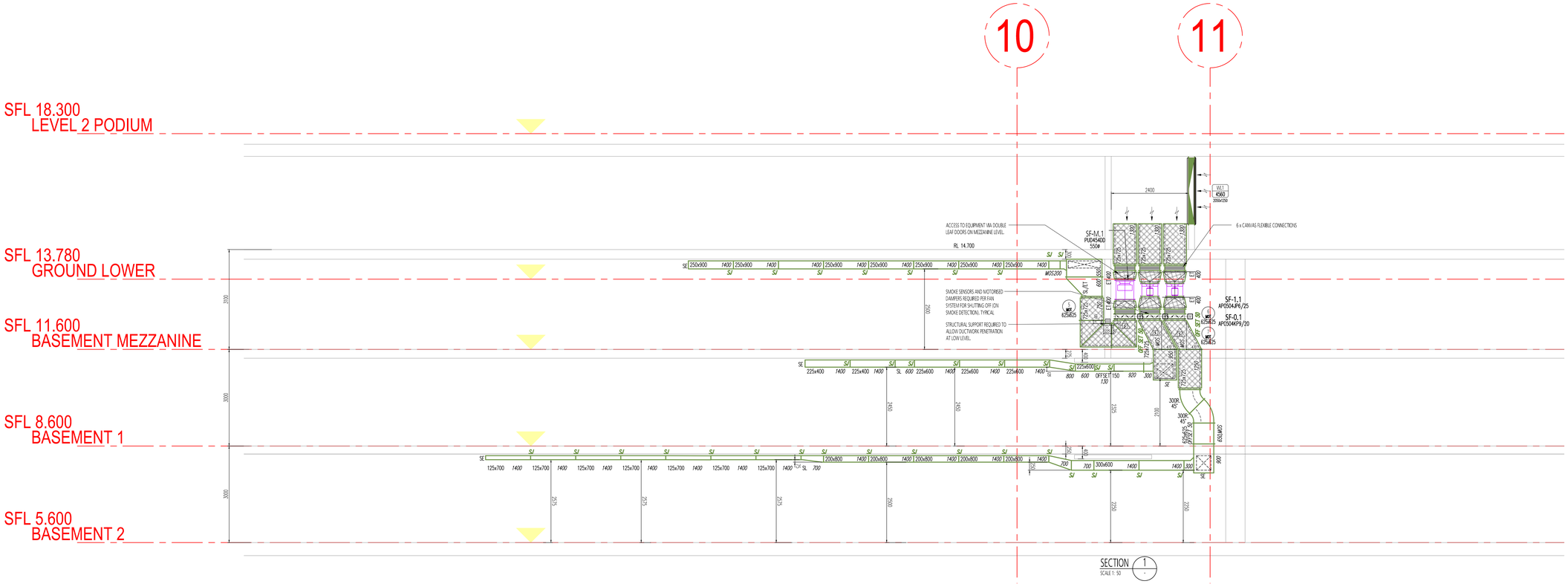
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

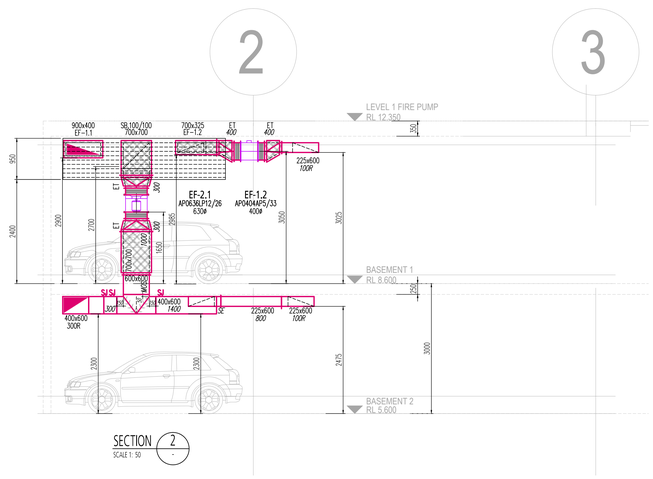
DRAWING NAME
MECHANICAL SERVICES
ROOF TERRACE PLAN

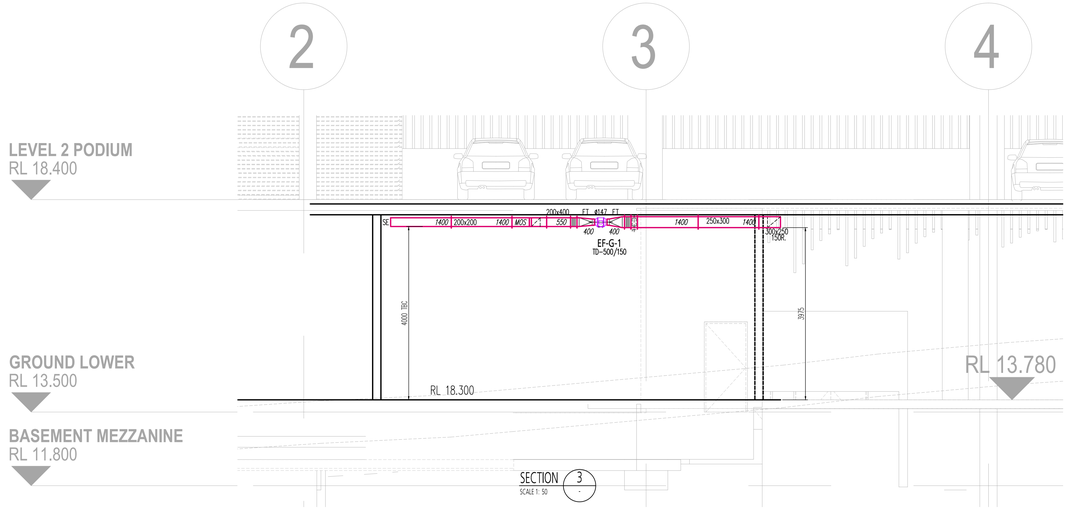
DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	09.04.2021

AS BUILT

DRAWING M114 REVISION 11







REV	DESCRIPTION	BY	DATE
11	AS BUILT	AVDS	17.03.2023
10	UPDATED FAN MODEL	AVDS	27.10.2021
09	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
08	UPDATED DERATED	AVDS	24.08.2021
07	UPDATED DRAWING	AVDS	10.08.2021
06	UPDATED DRAWING	AVDS	17.07.2021
05	AMENDED DRAWING	AVDS	09.07.2021
04	AMENDED DRAWING	AVDS	21.05.2021
03	UPDATED DRAWING	AVDS	20.05.2021
02	UPDATED DRAWING	AVDS	22.03.2021
01	FOR APPROVAL	AVDS	17.03.2021

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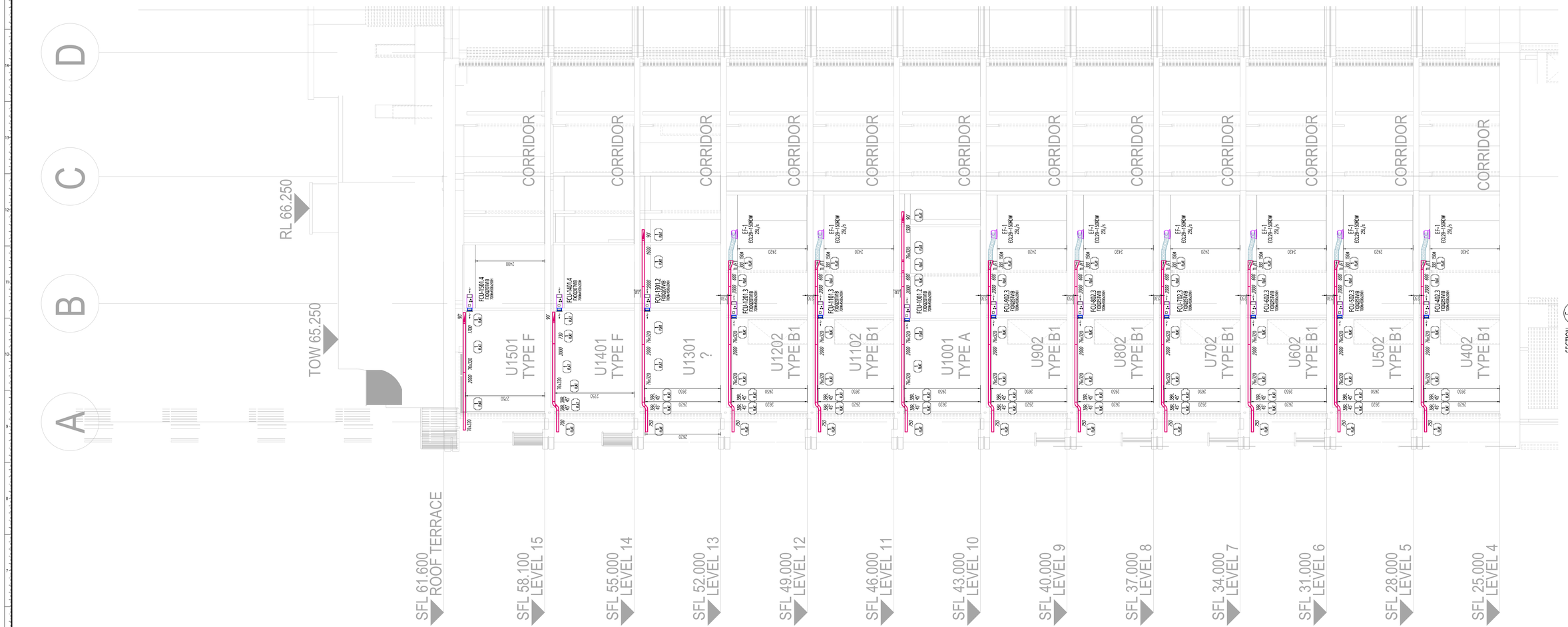
PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

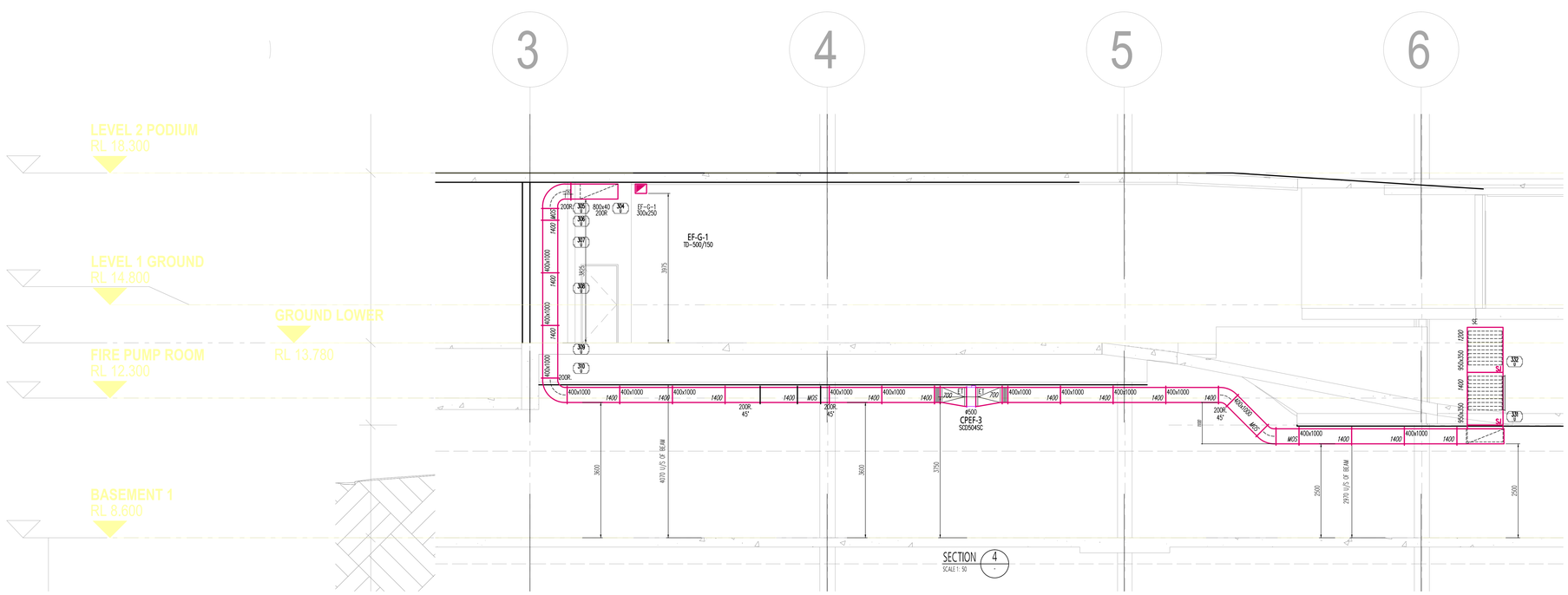
DRAWING NAME
MECHANICAL SERVICES
SECTION 1 TO 3

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

AS BUILT

DRAWING	REVISION
MS1	11





REV	DESCRIPTION	BY	DATE
05	AS BUILT	AVDS	17.03.2023
04	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
03	UPDATED DRAWING	AVDS	26.07.2021
02	UPDATED DRAWING	AVDS	17.07.2021
01	FOR APPROVAL	AVDS	09.07.2021

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PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

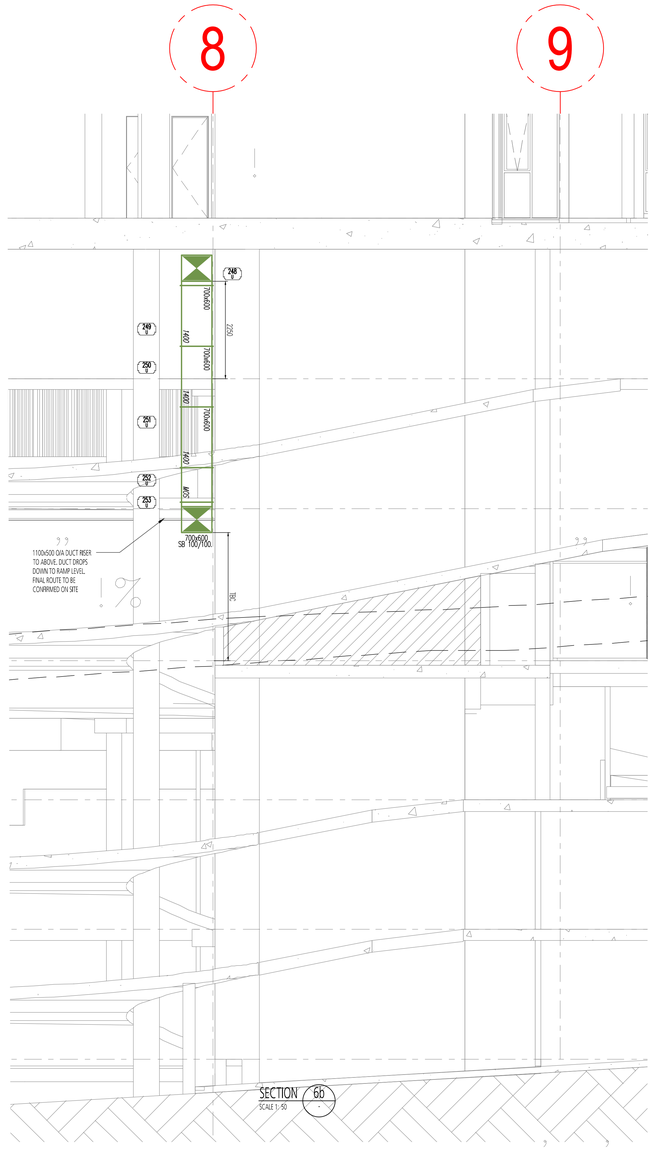
DRAWING NAME
MECHANICAL SERVICES
SECTION 4 & 5

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

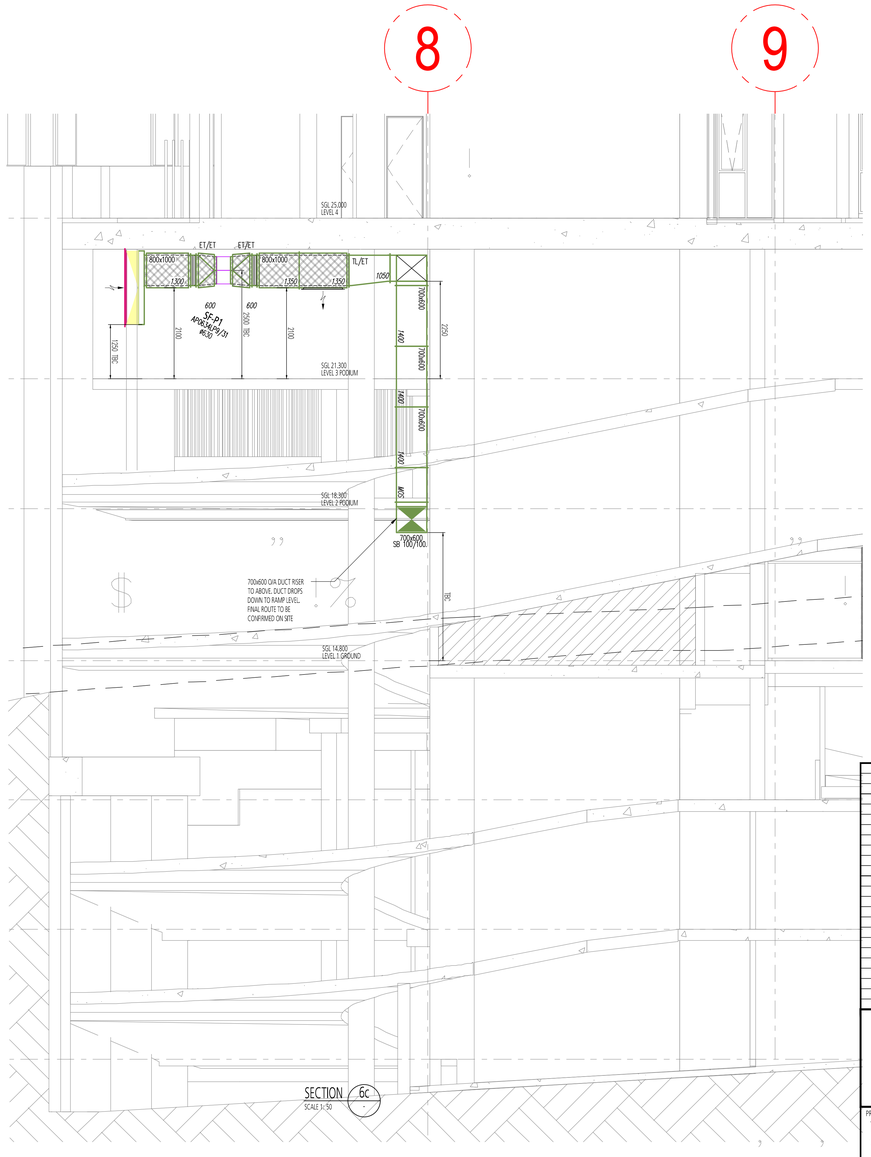
AS BUILT

DRAWING: MS1 REVISION: 05

SECTION 6a
SCALE 1: 50



SECTION 6b
SCALE 1: 50



SECTION 6c
SCALE 1: 50

REV	DESCRIPTION	BY	DATE
07	AS BUILT	AVDS	17.03.2023
06	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	01.08.2022
05	UPDATED CHANGES OF O/A DUCT ON LEVEL 2 & 3	AVDS	19.07.2022
04	UPDATED BACKGROUND	AVDS	11.05.2022
03	UPDATED MODEL AND LOCATION OF FAN	AVDS	02.10.2021
02	UPDATED DESIGNED	AVDS	24.08.2021
01	FOR APPROVAL	AVDS	17.07.2021

PORT CITY AIR CONDITIONING PTY LTD
(Sunshine Coast Branch)
A : 4/74 Bulcock Street, Caloundra, Q 4551
P : 07 5438 0747 E : dailne@portcityairconditioning.com.au
F : 07 4972 1791 W : www.portcitygroup.com.au

PROJECT NAME
The Patterson by Mosaic
3-15 Archer St, Toowong, Brisbane

DRAWING NAME
MECHANICAL SERVICES
SECTION 6a, 6b & 6c

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	M.B	DATE	17.03.2021

AS BUILT

DRAWING	REVISION
MS3	07