OPERATION AND MAINTANENCE MANUAL

First Bay
David Low way
Coolum

SUPPLIERS OF DOMESTIC AND COMMERCIAL AIR CONDITIONING AND COMMERCIAL REFRIGERATION

Arctic Cold

REFRIGERATION SALES AND SERVICE PTY LTD

ABN:50 010 150 802

ARCTIC COLD REFRIGERATION
SALES AND SERVICES
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SECTION 2 – GENERAL DESCRIPTION OF MECHANICAL SERVICES

The mechanical services installation generally consists of:

- Ducted systems
- VRV systems
- Carpark exhaust systems
- Wet area apartment ventilation
- Pipe work
- Drainage
- Controls
- One MSSB complete with carpark control

SECTION 3 – MAINTENANCE OF SYSTEMS

Systems should be maintained on a regular schedule of which Arctic Cold Refrigeration is responsible for 12 months after practical completion.
The maintenance visits will be arranged by Arctic Cold Refrigeration main office.

Servicing will be completed by authorized trained personnel and be in line with industry standards and manufacturers literature as outlined in section 7 user manuals.

AIR CONDITIONING MAINTENANCE

The following points should be checked on regular servicing as per schedule

- Filters cleaned one set per fan coil
- Zones checked for operation where applicable
- Grilles Cleaned
- All equipment and grilles checked for vibration or noise
- Refrigerant levels checked
- Flare nuts checked for tightness
- Electrical connections checked for tightness
- Condenser coils checked for any blockages and cleaned
- Condition report any surface rust or deterioration to be treated cleaned and reported
- Check for oil leaks

FANS

The following should be undertaken as a maintenance service for fans as per service schedule

- Fans checked for vibration
- Air flow checks
- Grilles cleaned
- Fans checked for excessive noise

MAINTENANCE SCHEDULE TABLE

AREA	INTERVAL
Air conditioning ➢ Common area Air conditioning ➢ Apartments	 Quarterly 12 Monthly
Fans ➢ Supply Air ➢ Toilet exhaust	12 Monthly
Carpark exhaust calibration	6 monthly

SECTION 4 – HELP AND SUPPPORT

ARCTIC COLD

OPERATIONS MANAGER - Matt Ramsay
PROJECT MANAGER - Bruce Maile
PROJECT MANAGER - Troy Maile

If Mechanical systems fail to operate, please contact in first instance Arctic Cold head office on 1300 729 889 to arrange for service mechanic to attend site.

SUPPLIERS

DAIKIN - QLD
PHONE: 07 3347 3636
ADDRESS: 6 McKechnie Drive, Eight Mile Plains

PACIFIC HVAC
PHONE: 1300 733 833 / (07) 3219 4222
ADDRESS: Unit 4/579 Kessels Road, Macgregor QLD 4109

AIR ADDITIONS
PHONE: 07 5493 9916
ADDRESS: 9 Machinery Ave, Warana QLD 4575

PRODUCT
PHONE: 07 54537411
ADDRESS: 46 Page Street Kunda Park

INNOTECH
PHONE: +61 7 3421 9100
ADDRESS: Brisbane Technology Park, 12 McKechnie Drive
Eight Mile Plains, Brisbane, Queensland, Australia, 4113

SECTION 5 – WARRANTY DETAILS

AIRCONDITIONING

Daikin Warranties as per manufacturer's Warranty

FANS

12 Month manufacturer warranty on fans.

SECTION 6– EQUIPEMENT SELECTIONS AND TECHNICAL DATA

SECTION 6.A – DAIKIN SELECTION DATA

Produced on 10 Dec 2020 with DASelection

Project name	First bay
Reference	66519.1
Client name	ARCTIC COLD REFRIGERATION
Prepared by	Juraj Gill
Daikin Opp. No.	

Only the data published in the data book is correct. This program uses close approximations of this data.

1. Summary

Model	Qty	Description	Dimensions HxWxD (mm)	Sound level (dBA)	MCA (amps)	MFA (amps)	Phase
RZAV100CV1	11	R32 Inv R/C ODU	1430x940x320	51/53	27.5	32	1
FBA100BVMA	11	R32 Inv Slim-Line Ducted R/C IDU	245x1400x800	38			1
BRC1E63	11	Nav-Ease Wired Controller	120x120x19				

2. Selection Details

Name	Models	Cooling						Heating				General			
		AFR (l/s)	EDB (°C)	EWB (°C)	AMBDB (°C)	TC (kW)	SHC (kW)	AFR (l/s)	EDB (°C)	AMBWB (°C)	TC (kW)	Pipe Len (m)	Max Pipe Len (m)	ESP (Pa)	Pipe size (mm/mm)
FCU-246	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-247	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-251	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-256	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-257	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-258	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-261	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-266	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-267	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-268	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9
FCU-269	FBA100BVMA + RZAV100CV1	533	27.0	19.0	35.0	10.00	7.84	533	20.0	6.0	11.20	7.5	75.0	50-150	9.5/15.9

3. Table of Abbreviations

Name	Logical name of the device, possibly preceded by room name
Model	Device model name
AFR	Air Flow Rate (litres/second)
AMBDB	Ambient Dry Bulb entry temperature (°C)
AMBWB	Ambient Wet Bulb entry temperature (°C)
EDB	Entering Dry Bulb temperature (°C)
ESP	External Static Pressure (Pa)
EWB	Entering Wet Bulb temperature (°C)
MCA	Minimum Circuit Amps (amps)
MFA	Maximum Fuse Amps (amps)
RC	Running Current (amps)
SHC	Sensible Heating Capacity (kW)
TC	Total Capacity (kW)

Produced on 10/12/2020 with Xpress Selection V9.0.1 - database DIL 16.0.2

Project name	First bay
Project address	Australia
Reference	J Gill
Client name	Arctic Cold

Selection parameters of the indoor units can be found under the chapter Indoor unit details
Selection parameters of the outdoor units can be found under the chapter Outdoor unit details
Only the data published in the data book are correct. This program uses close approximations of these data.

1. Material List

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	20	Heat pump VRV IV S AUS
	RXYMQ5AV4A	4	Heat pump VRV IV S AUS
	RXYMQ6AV4A	3	Heat pump VRV IV S AUS
Indoor unit	FXDQ20PBVE	4	VRV D - Slim Ceiling Mounted Duct
	FXDQ25PBVE	4	VRV D - Slim Ceiling Mounted Duct
	FXDQ25TV1B	19	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXDQ40NBVE	1	VRV D - Slim Ceiling Mounted Duct
	FXDQ50NBVE	3	VRV D - Slim Ceiling Mounted Duct
	FXDQ63TV1B	8	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	21	VRV S-PA - Ceiling Mounted Duct(MSP)
	FXSQ80PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	34	Refnet branch piping kit
Option or add-on	BRC1E63	61	Wired Remote Controller (Navigation Remote Controller)

2. Indoor Unit Details

2.1. Table of Abbreviations

Name	Logical name of the device
FCU	Device model name
Tmp C	Indoor conditions in cooling (dry bulb temp. / wet bulb temp.)
Rq TC	Required total cooling capacity
Max TC	Available total cooling capacity
TC	Total cooling capacity
Rq SC	Required sensible cooling capacity
Max SC	Available sensible cooling capacity
SC	Sensible cooling capacity
Tevap	Evaporating temperature of indoor unit coil
Tdis C	Indoor unit discharge air temperature in cooling
Tmp H	Indoor temperature in heating
Rq HC	Required heating capacity
Max HC	Available heating capacity
HC	Heating capacity
Tdis H	Indoor unit discharge air temperature in heating
Airflow	Supplied airflow
Sound	Sound pressure low and high
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
WxHxD	WidthxHeightxDepth
Wght	Weight of the device

2.2. CU-111 - RXYMQ5AV4A

Capacity data at conditions and connection ratio (100%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-111.1	FXDQ63TV1B	27.0 / 19.0	n/a	7.1	n/a	5.3	6.0	13.7	n/a	n/a	n/a	n/a	325
FCU-111.2	FXDQ63TV1B	27.0 / 19.0	n/a	7.1	n/a	5.3	6.0	13.7	n/a	n/a	n/a	n/a	325

Required cooling capacity towards the outdoor unit: 14.2kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-111.1	FXDQ63TV1B	27.0 / 19.0	7.0	5.2	n/a	7.0
FCU-111.2	FXDQ63TV1B	27.0 / 19.0	7.0	5.2	n/a	7.0
Σ			14.0			14.0

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-111.1	33-37	220V 1ph	1.8	1100×200×450	24
FCU-111.2	33-37	220V 1ph	1.8	1100×200×450	24

Outdoor unit placed at the same level as the indoor units.

2.3. CU-112 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-112.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-112.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-112.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-112.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-112.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-112.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.4. CU-121 - RXYMQ5AV4A

Capacity data at conditions and connection ratio (100%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-121.1	FXDQ63TV1B	27.0 / 19.0	n/a	7.1	n/a	5.3	6.0	13.7	n/a	n/a	n/a	n/a	325
FCU-121.2	FXDQ63TV1B	27.0 / 19.0	n/a	7.1	n/a	5.3	6.0	13.7	n/a	n/a	n/a	n/a	325

Required cooling capacity towards the outdoor unit: 14.2kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-121.1	FXDQ63TV1B	27.0 / 19.0	7.0	5.2	n/a	7.0
FCU-121.2	FXDQ63TV1B	27.0 / 19.0	7.0	5.2	n/a	7.0
Σ			14.0			14.0

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-121.1	33-37	220V 1ph	1.8	1100×200×450	24
FCU-121.2	33-37	220V 1ph	1.8	1100×200×450	24

Outdoor unit placed at the same level as the indoor units.

2.5. CU-122 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-122.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-122.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-122.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-122.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-122.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-122.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.6. CU-123 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-123.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-123.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-123.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-123.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-123.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-123.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.7. CU-131 - RXYMQ5AV4A

Capacity data at conditions and connection ratio (100%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-131.1	FXDQ63TV1B	27.0 / 19.0	n/a	7.1	n/a	5.3	6.0	13.7	n/a	n/a	n/a	n/a	325
FCU-131.2	FXDQ63TV1B	27.0 / 19.0	n/a	7.1	n/a	5.3	6.0	13.7	n/a	n/a	n/a	n/a	325

Required cooling capacity towards the outdoor unit: 14.2kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-131.1	FXDQ63TV1B	27.0 / 19.0	7.0	5.2	n/a	7.0
FCU-131.2	FXDQ63TV1B	27.0 / 19.0	7.0	5.2	n/a	7.0
Σ			14.0			14.0

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-131.1	33-37	220V 1ph	1.8	1100×200×450	24
FCU-131.2	33-37	220V 1ph	1.8	1100×200×450	24

Outdoor unit placed at the same level as the indoor units.

2.8. CU-132 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-132.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-132.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-132.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-132.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-132.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-132.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.9. CU-133 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-133.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-133.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-133.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-133.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-133.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-133.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.10.CU-141 - RXYMQ5AV4A

Capacity data at conditions and connection ratio (100%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-141.1	FXDQ63TV1B	27.0 / 19.0	n/a	7.1	n/a	5.3	6.0	13.7	n/a	n/a	n/a	n/a	325
FCU-141.2	FXDQ63TV1B	27.0 / 19.0	n/a	7.1	n/a	5.3	6.0	13.7	n/a	n/a	n/a	n/a	325

Required cooling capacity towards the outdoor unit: 14.2kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-141.1	FXDQ63TV1B	27.0 / 19.0	7.0	5.2	n/a	7.0
FCU-141.2	FXDQ63TV1B	27.0 / 19.0	7.0	5.2	n/a	7.0
Σ			14.0			14.0

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-141.1	33-37	220V 1ph	1.8	1100×200×450	24
FCU-141.2	33-37	220V 1ph	1.8	1100×200×450	24

Outdoor unit placed at the same level as the indoor units.

2.11.CU-142 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-142.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-142.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-142.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-142.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-142.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-142.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.12. CU-143 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-143.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-143.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-143.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-143.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-143.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-143.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.13.CU-D-L5 - RXYMQ6AV4A

Capacity data at conditions and connection ratio (123%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-D-1	FXDQ50NBVE	27.0 / 19.0	n/a	5.6	n/a	4.0	6.0	11.4	n/a	n/a	n/a	n/a	208
FCU-D-2	FXDQ50NBVE	27.0 / 19.0	n/a	5.6	n/a	4.0	6.0	11.4	n/a	n/a	n/a	n/a	208
FCU-D-3	FXDQ20PBVE	27.0 / 19.0	n/a	2.2	n/a	1.9	6.0	15.4	n/a	n/a	n/a	n/a	133
FCU-D-4	FXDQ40NBVE	27.0 / 19.0	n/a	4.5	n/a	3.3	6.0	11.7	n/a	n/a	n/a	n/a	175
FCU-D-5	FXDQ25PBVE	27.0 / 19.0	n/a	2.8	n/a	2.1	6.0	14.2	n/a	n/a	n/a	n/a	133

Required cooling capacity towards the outdoor unit: 20.7kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-D-1	FXDQ50NBVE	27.0 / 19.0	4.8	3.6	n/a	5.1
FCU-D-2	FXDQ50NBVE	27.0 / 19.0	4.8	3.6	n/a	5.1
FCU-D-3	FXDQ20PBVE	27.0 / 19.0	1.9	1.7	n/a	2.0
FCU-D-4	FXDQ40NBVE	27.0 / 19.0	3.9	3.0	n/a	4.1
FCU-D-5	FXDQ25PBVE	27.0 / 19.0	2.4	1.9	n/a	2.6
Σ			17.9			18.9

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-D-1	31-35	220V 1ph	1	900×200×620	28
FCU-D-2	31-35	220V 1ph	1	900×200×620	28
FCU-D-3	29-33	220V 1ph	0.8	700×200×620	23
FCU-D-4	30-34	220V 1ph	1	900×200×620	27
FCU-D-5	29-33	220V 1ph	0.8	700×200×620	23

Outdoor unit placed at the same level as the indoor units.

2.14.CU-241 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (100%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-241	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533

Required cooling capacity towards the outdoor unit: 11.2kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-241	FXSQ100PAVE	27.0 / 19.0	11.2	8.5	n/a	12.5
Σ			11.2			12.5

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-241	32-39	220V 1ph	2.5	1400×245×800	46

Outdoor unit placed at the same level as the indoor units.

2.15.CU-242 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-242.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-242.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-242.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-242.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-242.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-242.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.16.CU-243 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-243.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-243.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-243.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-243.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-243.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-243.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.17.CU-244 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-244.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-244.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-244.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-244.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-244.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-244.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.18.CU-245 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-245.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-245.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-245.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-245.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-245.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-245.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.19.CU-252 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-252.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-252.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-252.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-252.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-252.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-252.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.20.CU-253 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-253.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-253.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-253.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-253.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-253.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-253.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.21.CU-254 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-254.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-254.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-254.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-254.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-254.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-254.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.22. CU-255 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-255.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-255.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-255.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-255.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-255.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-255.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.23.CU-262 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-262.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-262.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-262.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-262.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-262.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-262.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.24.CU-263 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-263.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-263.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-263.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-263.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-263.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-263.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.25. CU-264 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-264.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-264.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-264.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-264.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-264.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-264.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.26. CU-265 - RXYMQ4AV4A

Capacity data at conditions and connection ratio (125%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-265.1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-265.2	FXDQ25TV1B	27.0 / 19.0	n/a	2.8	n/a	2.3	6.0	14.5	n/a	n/a	n/a	n/a	150

Required cooling capacity towards the outdoor unit: 14.0kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-265.1	FXSQ100PAVE	27.0 / 19.0	10.3	8.1	n/a	10.5
FCU-265.2	FXDQ25TV1B	27.0 / 19.0	2.6	2.2	n/a	2.6
Σ			12.9			13.2

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-265.1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-265.2	28-33	220V 1ph	0.8	700×200×450	18

Outdoor unit placed at the same level as the indoor units.

2.27.CU-O - RXYMQ6AV4A

Capacity data at conditions and connection ratio (127%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-O-1	FXSQ80PAVE	27.0 / 19.0	n/a	9.0	n/a	6.5	6.0	13.2	n/a	n/a	n/a	n/a	383
FCU-O-2	FXDQ50NBVE	27.0 / 19.0	n/a	5.6	n/a	4.0	6.0	11.4	n/a	n/a	n/a	n/a	208
FCU-O-3	FXDQ20PBVE	27.0 / 19.0	n/a	2.2	n/a	1.9	6.0	15.4	n/a	n/a	n/a	n/a	133
FCU-O-4	FXDQ20PBVE	27.0 / 19.0	n/a	2.2	n/a	1.9	6.0	15.4	n/a	n/a	n/a	n/a	133
FCU-O-5	FXDQ20PBVE	27.0 / 19.0	n/a	2.2	n/a	1.9	6.0	15.4	n/a	n/a	n/a	n/a	133

Required cooling capacity towards the outdoor unit: 21.2kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-O-1	FXSQ80PAVE	27.0 / 19.0	7.6	5.9	n/a	8.0
FCU-O-2	FXDQ50NBVE	27.0 / 19.0	4.7	3.6	n/a	5.0
FCU-O-3	FXDQ20PBVE	27.0 / 19.0	1.9	1.7	n/a	2.0
FCU-O-4	FXDQ20PBVE	27.0 / 19.0	1.9	1.7	n/a	2.0
FCU-O-5	FXDQ20PBVE	27.0 / 19.0	1.9	1.7	n/a	2.0
Σ			18.0			19.0

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-O-1	30-37.5	220V 1ph	1.8	1000×245×800	37
FCU-O-2	31-35	220V 1ph	1	900×200×620	28
FCU-O-3	29-33	220V 1ph	0.8	700×200×620	23
FCU-O-4	29-33	220V 1ph	0.8	700×200×620	23
FCU-O-5	29-33	220V 1ph	0.8	700×200×620	23

Outdoor unit placed at the same level as the indoor units.

2.28. CU-P - RXYMQ6AV4A

Capacity data at conditions and connection ratio (117%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC	Tdis H	Airflow
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW	°C	l/s
FCU-P-1	FXSQ100PAVE	27.0 / 19.0	n/a	11.2	n/a	8.5	6.0	14.0	n/a	n/a	n/a	n/a	533
FCU-P-2	FXDQ25PBVE	27.0 / 19.0	n/a	2.8	n/a	2.1	6.0	14.2	n/a	n/a	n/a	n/a	133
FCU-P-3	FXDQ25PBVE	27.0 / 19.0	n/a	2.8	n/a	2.1	6.0	14.2	n/a	n/a	n/a	n/a	133
FCU-P-4	FXDQ25PBVE	27.0 / 19.0	n/a	2.8	n/a	2.1	6.0	14.2	n/a	n/a	n/a	n/a	133

Required cooling capacity towards the outdoor unit: 19.6kW.

Simultaneous operation calculation

Name	FCU	Tmp C	TC	SC	Tmp H	HC
		°C	kW	kW	°C	kW
FCU-P-1	FXSQ100PAVE	27.0 / 19.0	10.1	8.0	n/a	10.8
FCU-P-2	FXDQ25PBVE	27.0 / 19.0	2.5	1.9	n/a	2.7
FCU-P-3	FXDQ25PBVE	27.0 / 19.0	2.5	1.9	n/a	2.7
FCU-P-4	FXDQ25PBVE	27.0 / 19.0	2.5	1.9	n/a	2.7
Σ			17.7			18.9

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).
The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght
	dBA		A	mm	kg
FCU-P-1	32-39	220V 1ph	2.5	1400×245×800	46
FCU-P-2	29-33	220V 1ph	0.8	700×200×620	23
FCU-P-3	29-33	220V 1ph	0.8	700×200×620	23
FCU-P-4	29-33	220V 1ph	0.8	700×200×620	23

Outdoor unit placed at the same level as the indoor units.

3. Outdoor Unit Details

3.1. Table of Abbreviations

Name	Logical name of the device
Model	Device model name
▼	Optimized selection: Smaller outdoor model selected than standard proposed model
Tmp C	Outdoor temperature in cooling
CC	Available cooling capacity
Rq CC	Required cooling capacity
EER	EER at nominal conditions for standard efficiency series (nominal temperatures, 100% connection ratio and without considering pipe length corrections)
Tmp H	Outdoor conditions in heating (dry bulb temp. / wet bulb temp.)
HC	Available heating capacity (integrated heating capacity)
Rq HC	Required heating capacity
COP	COP at nominal conditions for standard efficiency series (nominal temperatures, 100% connection ratio and without considering pipe length corrections)
Piping	Largest distance from indoor unit to outdoor unit
Bse Refr	Standard factory refrigerant charge (5m actual piping length) excluding extra refrigerant charge For calculation of extra refrigerant charge refer to the databook
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
WxHxD	WidthxHeightxDepth
Wght	Weight of the device

3.2. Outdoor Details

Name	Model	Comb	Tmp C	CC	Rq CC	EER (*)	Tmp H	HC	Rq HC	COP (*)
		%	°C	kW	kW	W/W	°C	kW	kW	W/W
CU-111	RXYMQ5AV4A ▼	100	35.0	14.0 (-1.4%)	14.2	3.6	7.0 / 7.0	14.0		4.6
CU-112	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-121	RXYMQ5AV4A ▼	100	35.0	14.0 (-1.4%)	14.2	3.6	7.0 / 7.0	14.0		4.6
CU-122	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-123	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-131	RXYMQ5AV4A ▼	100	35.0	14.0 (-1.4%)	14.2	3.6	7.0 / 7.0	14.0		4.6
CU-132	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-133	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-141	RXYMQ5AV4A ▼	100	35.0	14.0 (-1.4%)	14.2	3.6	7.0 / 7.0	14.0		4.6
CU-142	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-143	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-D-L5	RXYMQ6AV4A ▼	123	35.0	17.9 (-13.5%)	20.7	3.9	7.0 / 7.0	18.9		4.4
CU-241	RXYMQ4AV4A ▼	100	35.0	11.2 (0%)	11.2	3.9	7.0 / 7.0	12.5		4.8
CU-242	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-243	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-244	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-245	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-252	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-253	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-254	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-255	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-262	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-263	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-264	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-265	RXYMQ4AV4A ▼	125	35.0	12.9 (-7.9%)	14.0	3.9	7.0 / 7.0	13.2		4.8
CU-O	RXYMQ6AV4A ▼	127	35.0	18.0 (-15.1%)	21.2	3.9	7.0 / 7.0	19.0		4.4
CU-P	RXYMQ6AV4A ▼	117	35.0	17.7 (-9.7%)	19.6	3.9	7.0 / 7.0	18.9		4.4

(*) The EER and COP values are calculated at nominal conditions: nominal temperatures, 100% connection ratio and without considering pipe length corrections.

Name	Model	Piping	Refrigerant		
		m	Type	Bse Refr	Ex Refr
				kg	kg
CU-111	RXYMQ5AV4A	7.5	R410A	3.4	n/a
CU-112	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-121	RXYMQ5AV4A	7.5	R410A	3.4	n/a
CU-122	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-123	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-131	RXYMQ5AV4A	7.5	R410A	3.4	n/a
CU-132	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-133	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-141	RXYMQ5AV4A	7.5	R410A	3.4	n/a
CU-142	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-143	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-D-L5	RXYMQ6AV4A	7.5	R410A	3.6	n/a
CU-241	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-242	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-243	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-244	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-245	RXYMQ4AV4A	7.5	R410A	2.9	n/a

Name	Model	Piping	Refrigerant		
		m	Type	Bse Refr	Ex Refr
				kg	kg
CU-252	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-253	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-254	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-255	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-262	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-263	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-264	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-265	RXYMQ4AV4A	7.5	R410A	2.9	n/a
CU-O	RXYMQ6AV4A	7.5	R410A	3.6	n/a
CU-P	RXYMQ6AV4A	7.5	R410A	3.6	n/a

Name	Model	PS	MCA	WxHxD	Wght
			A	mm	kg
CU-111	RXYMQ5AV4A	240V 1ph	27	940×990×320	82
CU-112	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-121	RXYMQ5AV4A	240V 1ph	27	940×990×320	82
CU-122	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-123	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-131	RXYMQ5AV4A	240V 1ph	27	940×990×320	82
CU-132	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-133	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-141	RXYMQ5AV4A	240V 1ph	27	940×990×320	82
CU-142	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-143	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-D-L5	RXYMQ6AV4A	240V 1ph	27	900×1345×320	104
CU-241	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-242	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-243	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-244	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-245	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-252	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-253	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-254	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-255	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-262	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-263	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-264	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-265	RXYMQ4AV4A	240V 1ph	16.5	940×990×320	71
CU-O	RXYMQ6AV4A	240V 1ph	27	900×1345×320	104
CU-P	RXYMQ6AV4A	240V 1ph	27	900×1345×320	104

3.2.1. CU-111 - RXYMQ5AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ5AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ63TV1B	2	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.2. CU-112 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.3. CU-121 - RXYMQ5AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ5AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ63TV1B	2	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.4. CU-122 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.5. CU-123 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.6. CU-131 - RXYMQ5AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ5AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ63TV1B	2	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.7. CU-132 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.8. CU-133 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.9. CU-141 - RXYMQ5AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ5AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ63TV1B	2	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.10. CU-142 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.11. CU-143 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.12. CU-D-L5 - RXYMQ6AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ6AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ20PBVE	1	VRV D - Slim Ceiling Mounted Duct
	FXDQ25PBVE	1	VRV D - Slim Ceiling Mounted Duct
	FXDQ40NBVE	1	VRV D - Slim Ceiling Mounted Duct
	FXDQ50NBVE	2	VRV D - Slim Ceiling Mounted Duct
Branch unit	BHRP26A22TA	4	Refnet branch piping kit
Option or add-on	BRC1E63	5	Wired Remote Controller (Navigation Remote Controller)

3.2.13. CU-241 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Option or add-on	BRC1E63	1	Wired Remote Controller (Navigation Remote Controller)

3.2.14. CU-242 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.15. CU-243 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.16. CU-244 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.17. CU-245 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.18. CU-252 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.19. CU-253 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.20. CU-254 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.21. CU-255 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.22. CU-262 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.23. CU-263 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.24. CU-264 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.25. CU-265 - RXYMQ4AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ4AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25TV1B	1	VRV D(TV1B) - Slim Ceiling Mounted Duct(Compact)
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	1	Refnet branch piping kit
Option or add-on	BRC1E63	2	Wired Remote Controller (Navigation Remote Controller)

3.2.26. CU-O - RXYMQ6AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ6AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ20PBVE	3	VRV D - Slim Ceiling Mounted Duct
	FXDQ50NBVE	1	VRV D - Slim Ceiling Mounted Duct
	FXSQ80PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	4	Refnet branch piping kit
Option or add-on	BRC1E63	5	Wired Remote Controller (Navigation Remote Controller)

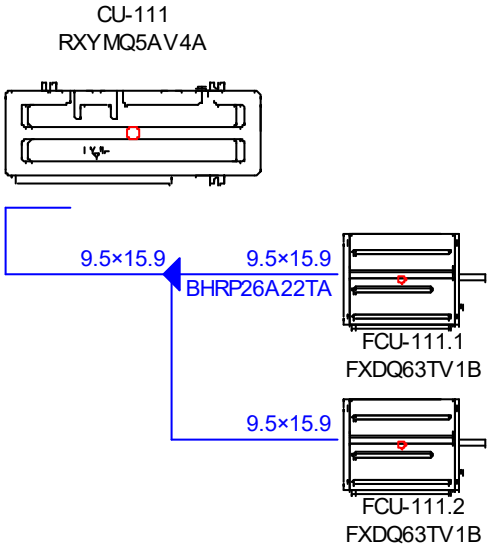
3.2.27. CU-P - RXYMQ6AV4A

Model Type	Model Name	Qty	Description
Outdoor unit	RXYMQ6AV4A	1	Heat pump VRV IV S AUS
Indoor unit	FXDQ25PBVE	3	VRV D - Slim Ceiling Mounted Duct
	FXSQ100PAVE	1	VRV S-PA - Ceiling Mounted Duct(MSP)
Branch unit	BHRP26A22TA	3	Refnet branch piping kit
Option or add-on	BRC1E63	4	Wired Remote Controller (Navigation Remote Controller)

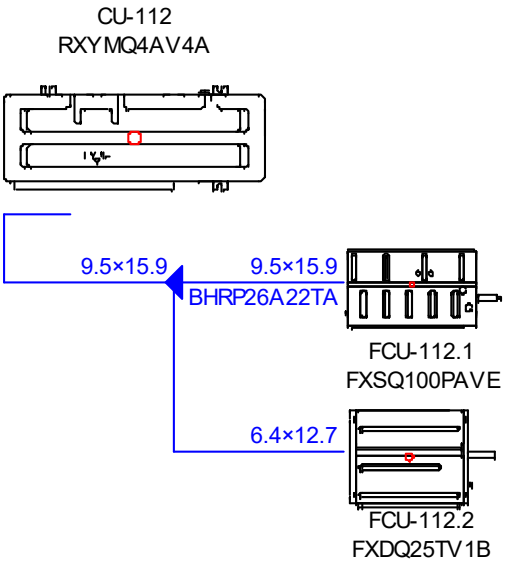
4. Piping Diagrams

Pipes marked with * in the diagrams must be connected to the device with a reducing joint.

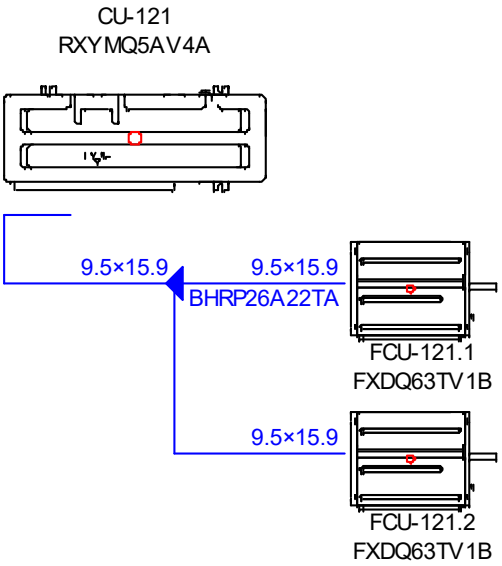
4.1. Piping CU-111



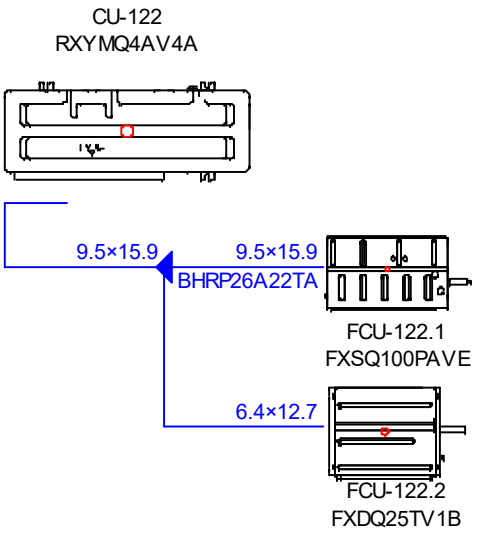
4.2. Piping CU-112



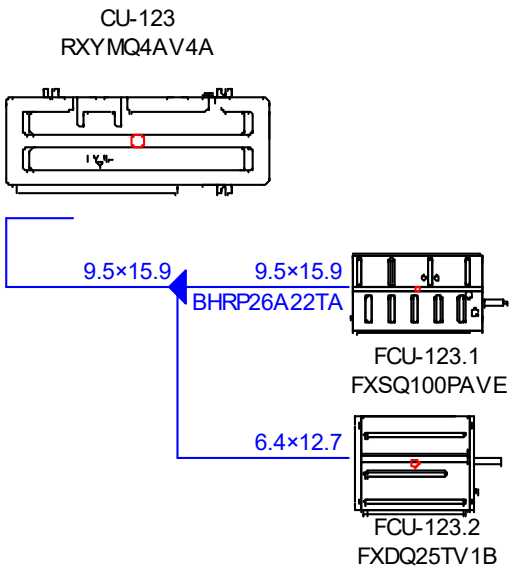
4.3. Piping CU-121



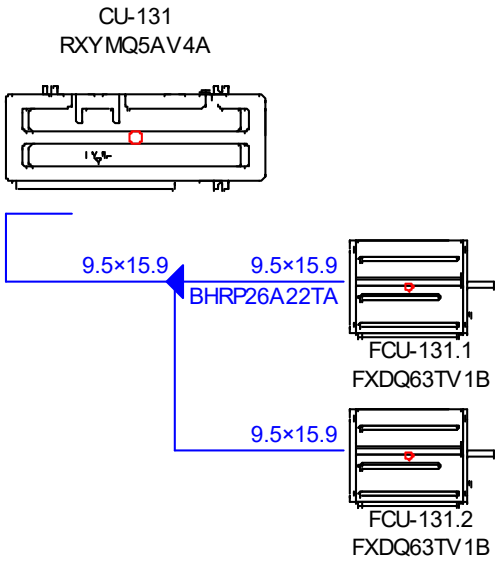
4.4. Piping CU-122



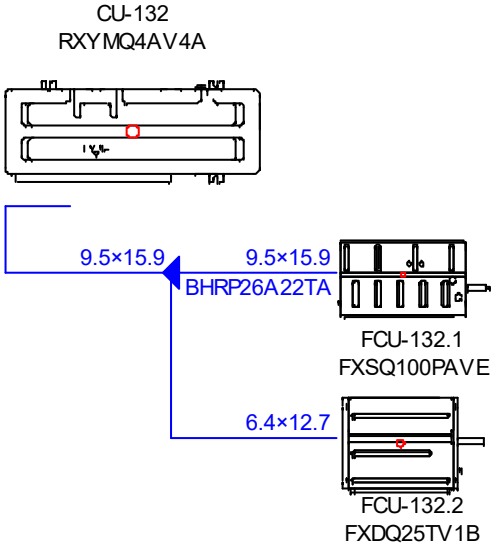
4.5. Piping CU-123



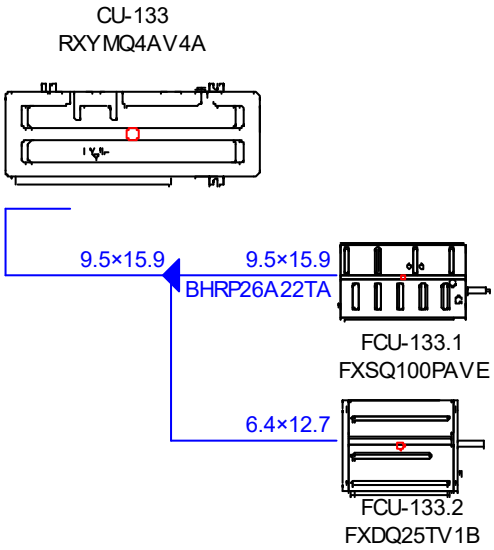
4.6. Piping CU-131



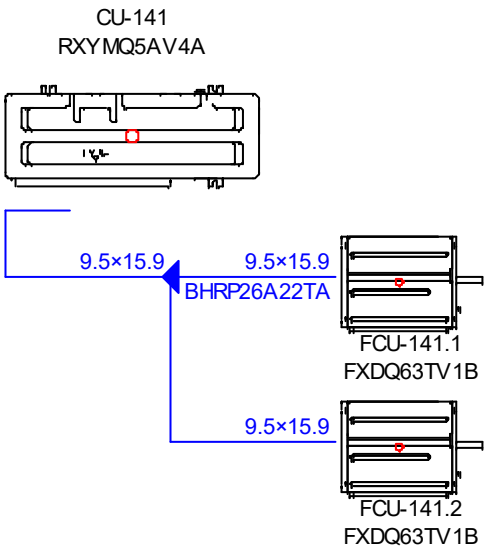
4.7. Piping CU-132



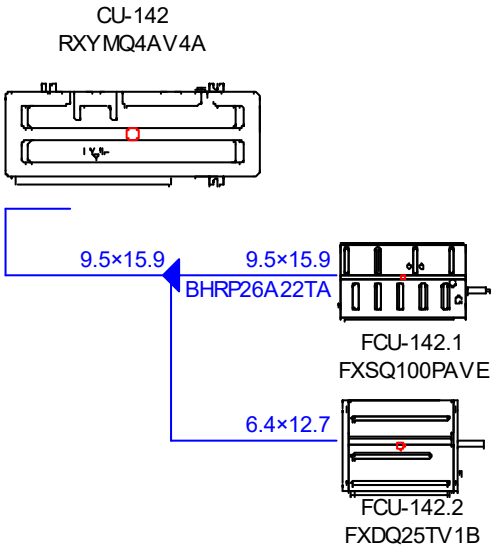
4.8. Piping CU-133



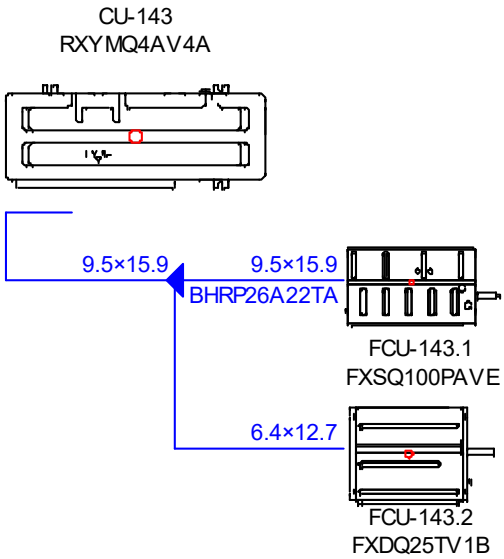
4.9. Piping CU-141



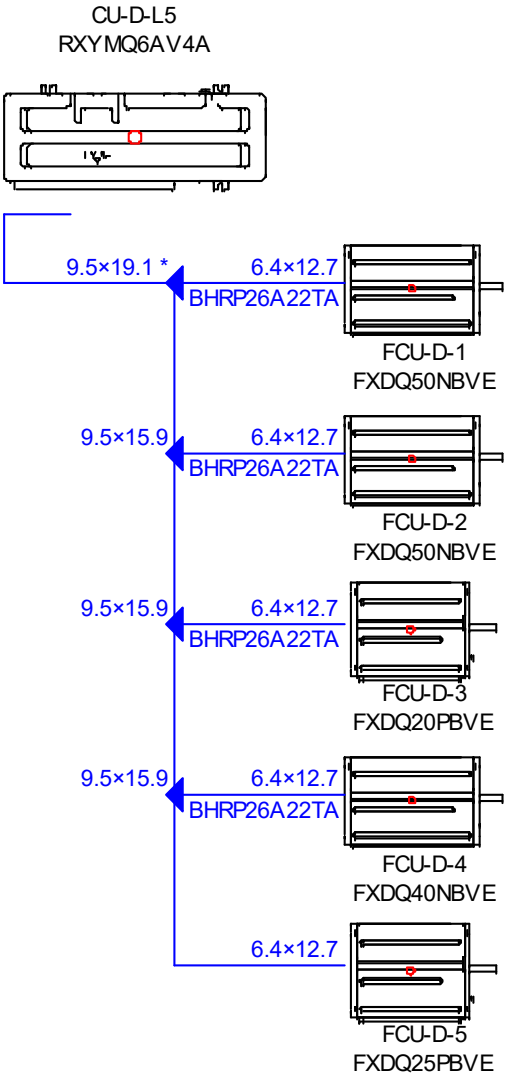
4.10.Piping CU-142



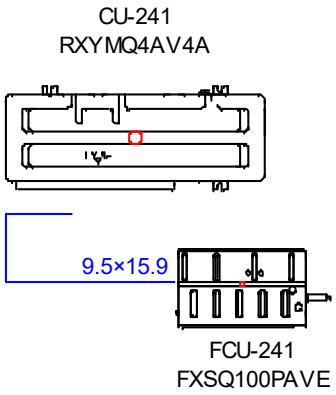
4.11.Piping CU-143



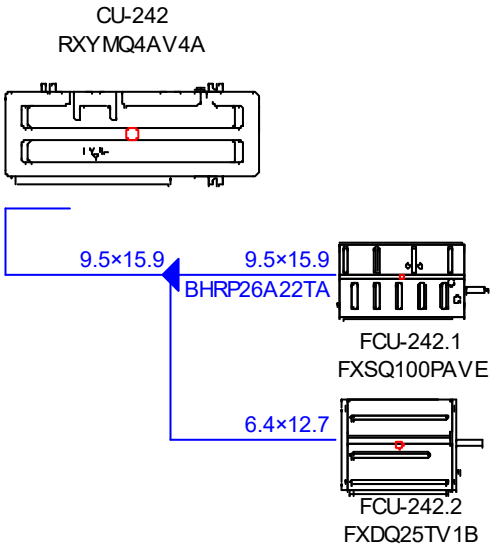
4.12.Piping CU-D-L5



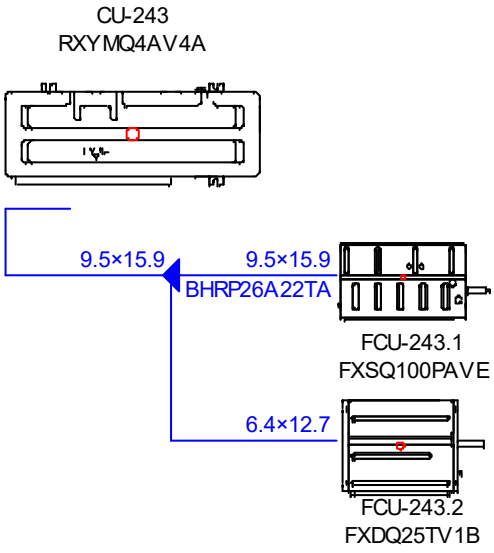
4.13.Piping CU-241



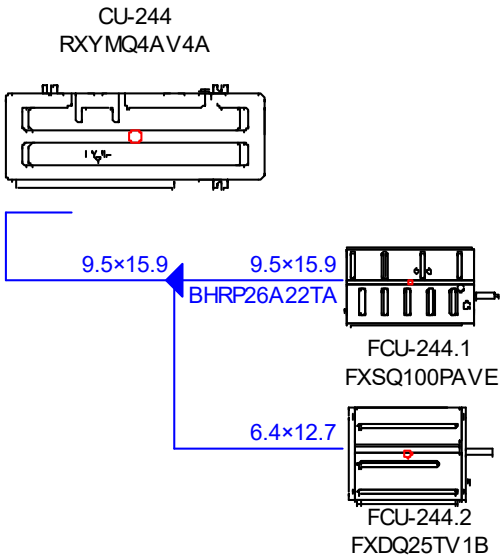
4.14.Piping CU-242



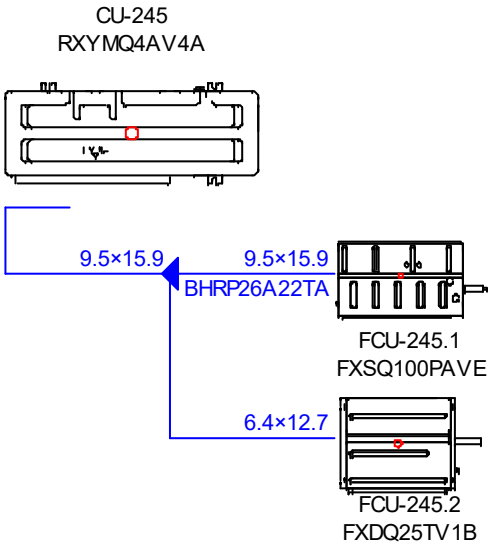
4.15.Piping CU-243



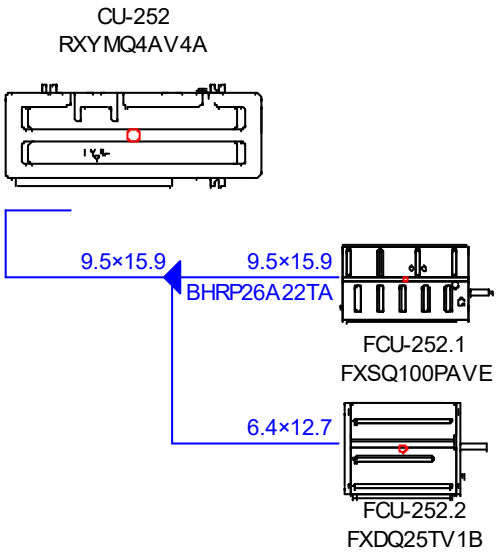
4.16.Piping CU-244



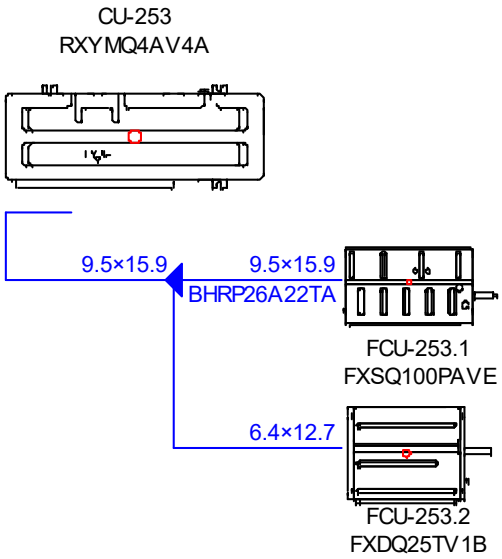
4.17.Piping CU-245



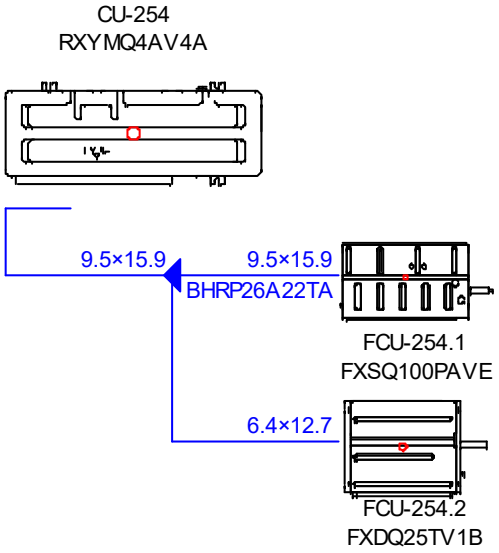
4.18.Piping CU-252



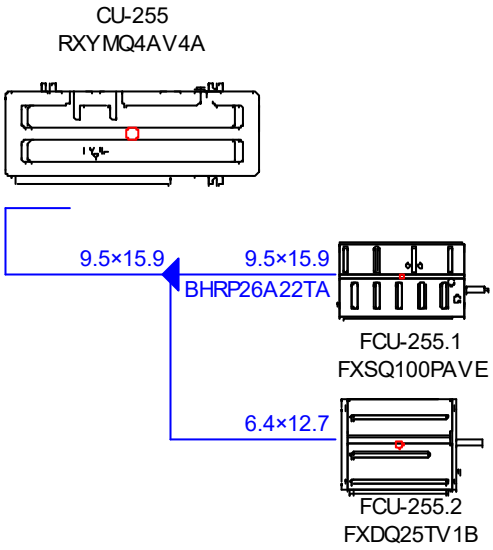
4.19.Piping CU-253



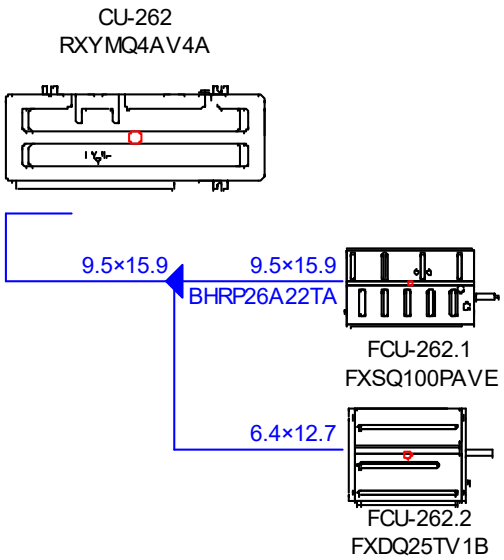
4.20.Piping CU-254



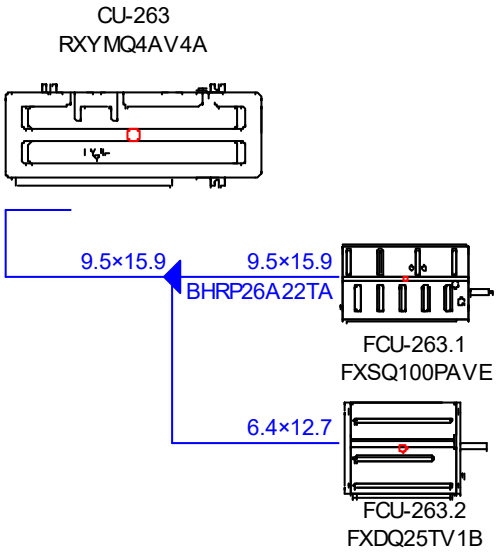
4.21.Piping CU-255



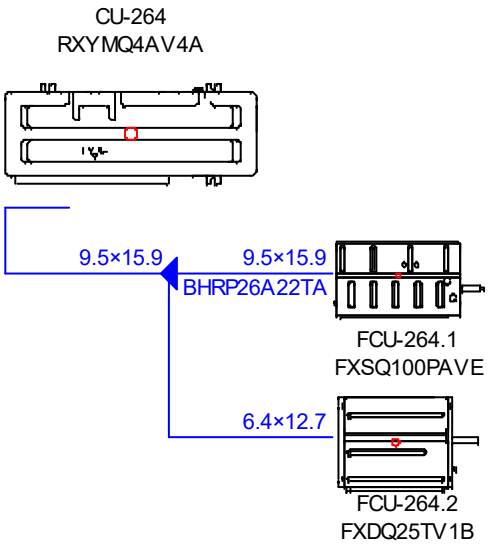
4.22.Piping CU-262



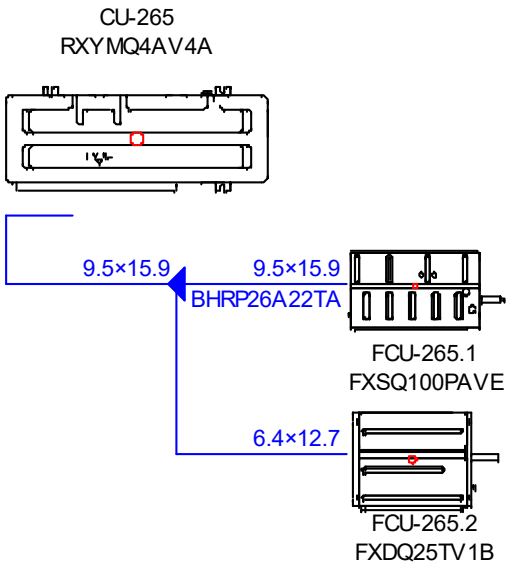
4.23.Piping CU-263



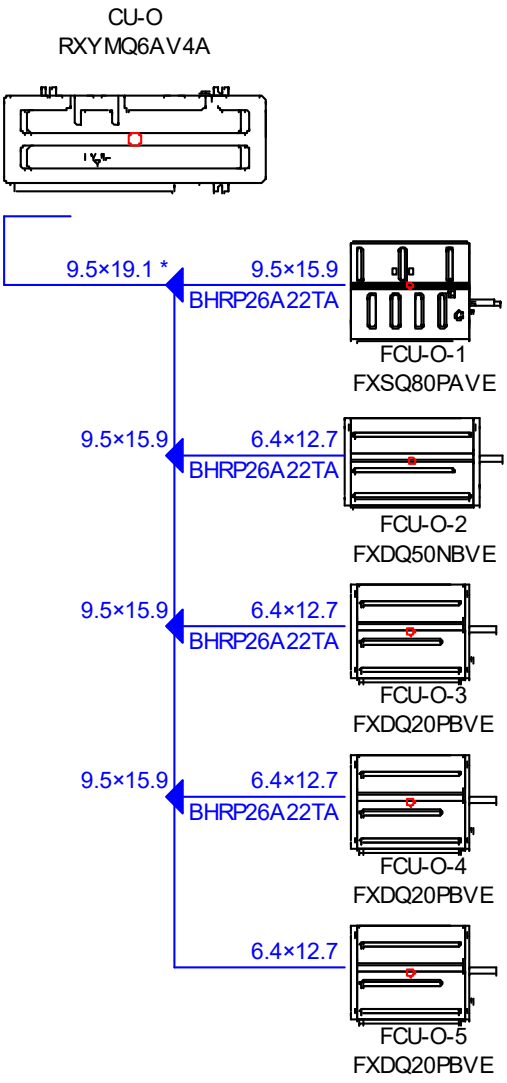
4.24.Piping CU-264



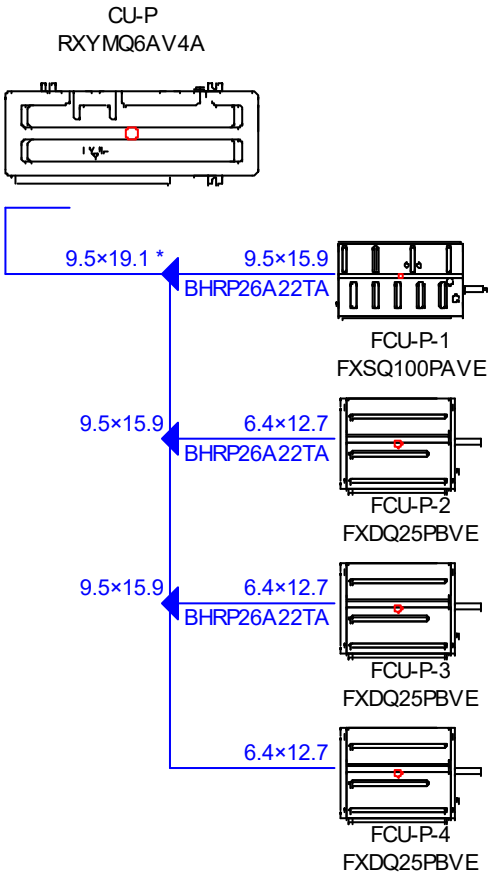
4.25.Piping CU-265



4.26.Piping CU-O



4.27.Piping CU-P



Warning: The pipe diameter values are purely indicative. Depending on the required pipe lengths, a different pipe diameter might be required.

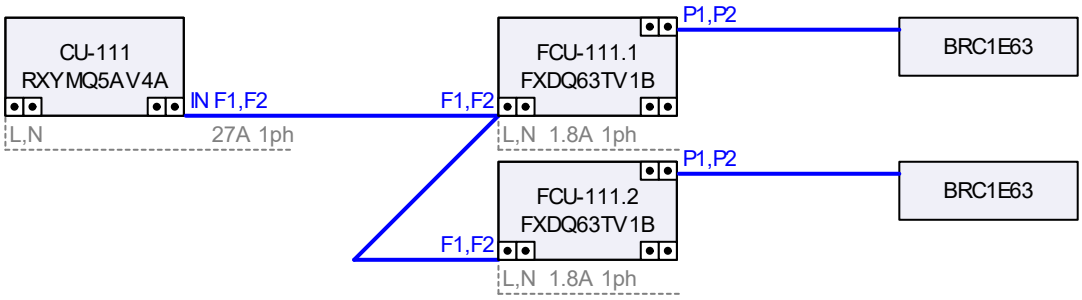
5. Wiring Diagrams

Recommended Wiring Type for: P1P2, F1F2, Q1Q2:

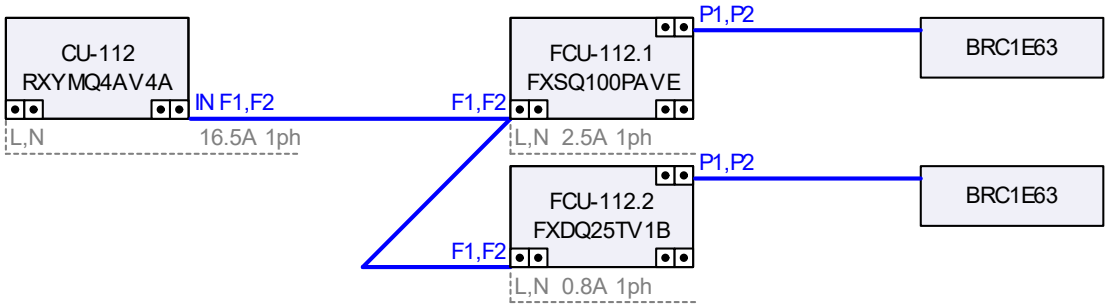
- Wiring Type:
  - Shielded
  - Between 0.75 to 1.25 square millimeters.
  - 2 cores only, 3 or more core is prohibited.
  - Do not bundle control wire
  - Ground only one end of shielded wire
- Control Wire Separation from Power Wire:
  - 50mm for Daikin units
  - From 300mm for 10A, up to 1500mm from 100A.
- Branching of Control Wire:
  - Series wiring recommended
  - Bus and star wiring not recommended

We recommend Electra Cables type EAS7401P or equivalent. Deviation from the above may result in chronic transmission faults. Rectification may require extensive re-wiring of the control system. P1, P2 (Wiring from Indoor unit to wall remote controller) = 16-2 AWG 2 core non screened stranded wire (non-polarity wiring system) only amendment allowed.

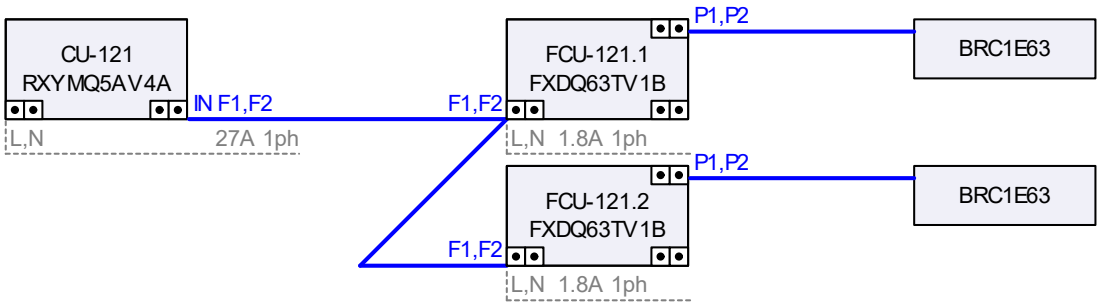
5.1. Wiring CU-111



5.2. Wiring CU-112



5.3. Wiring CU-121



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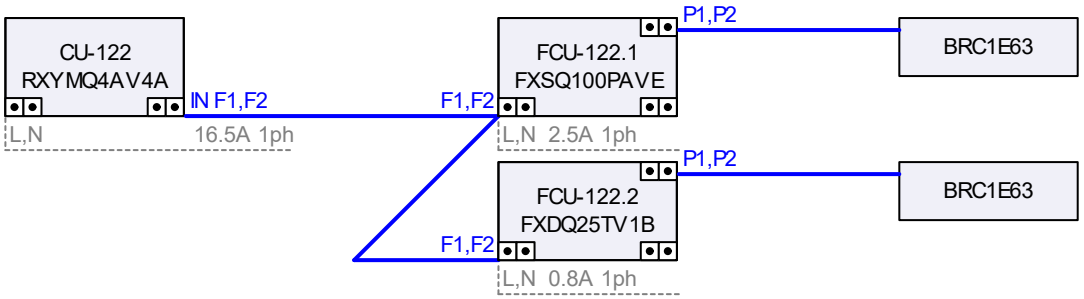

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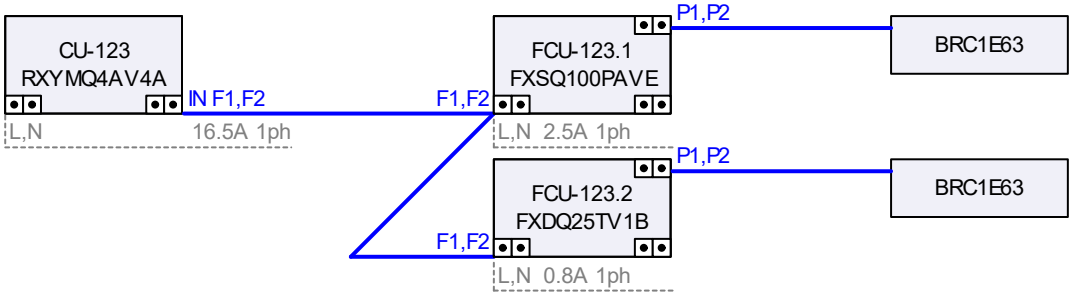

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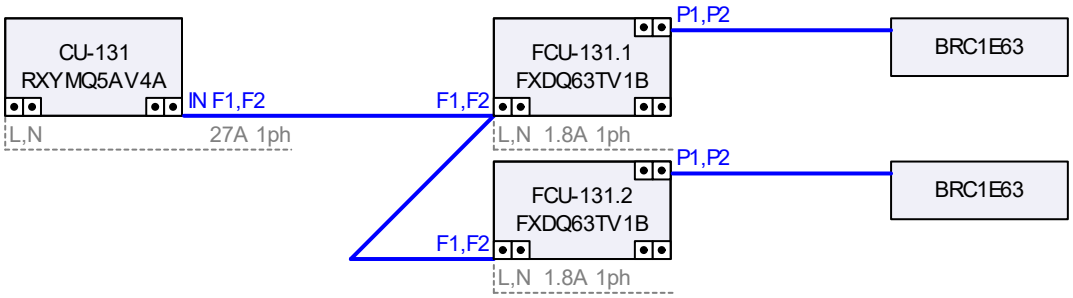

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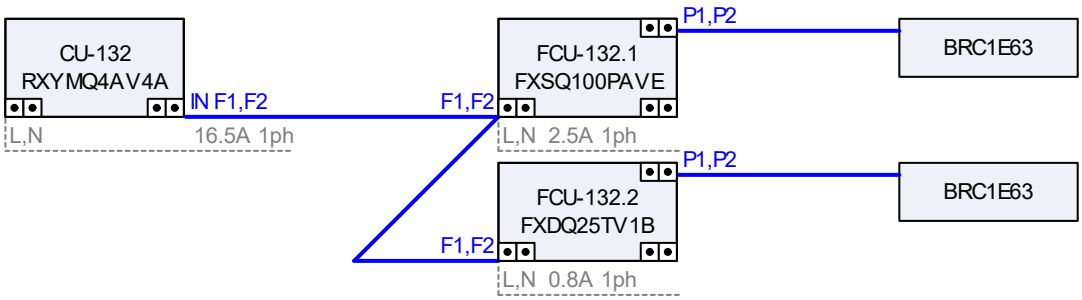

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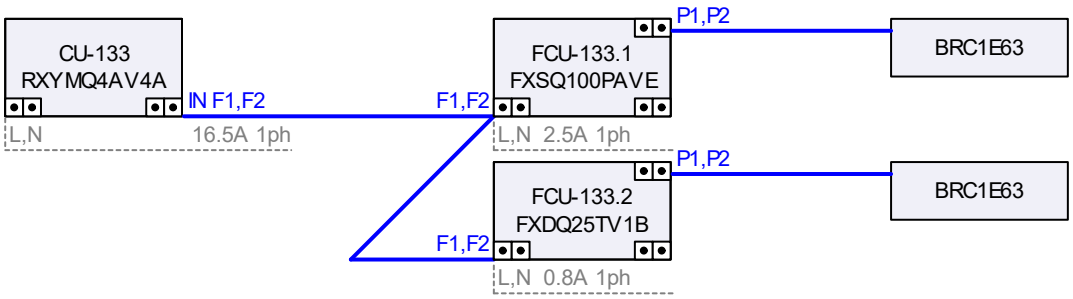

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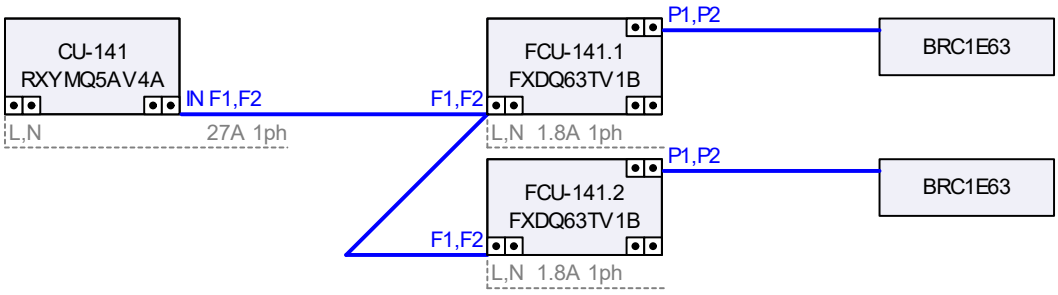

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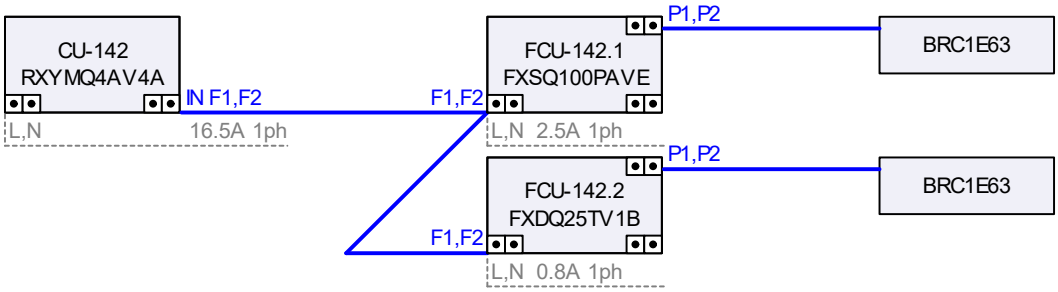

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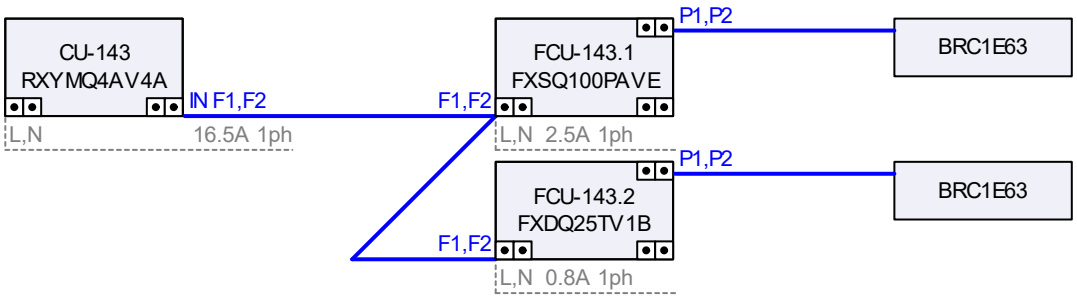
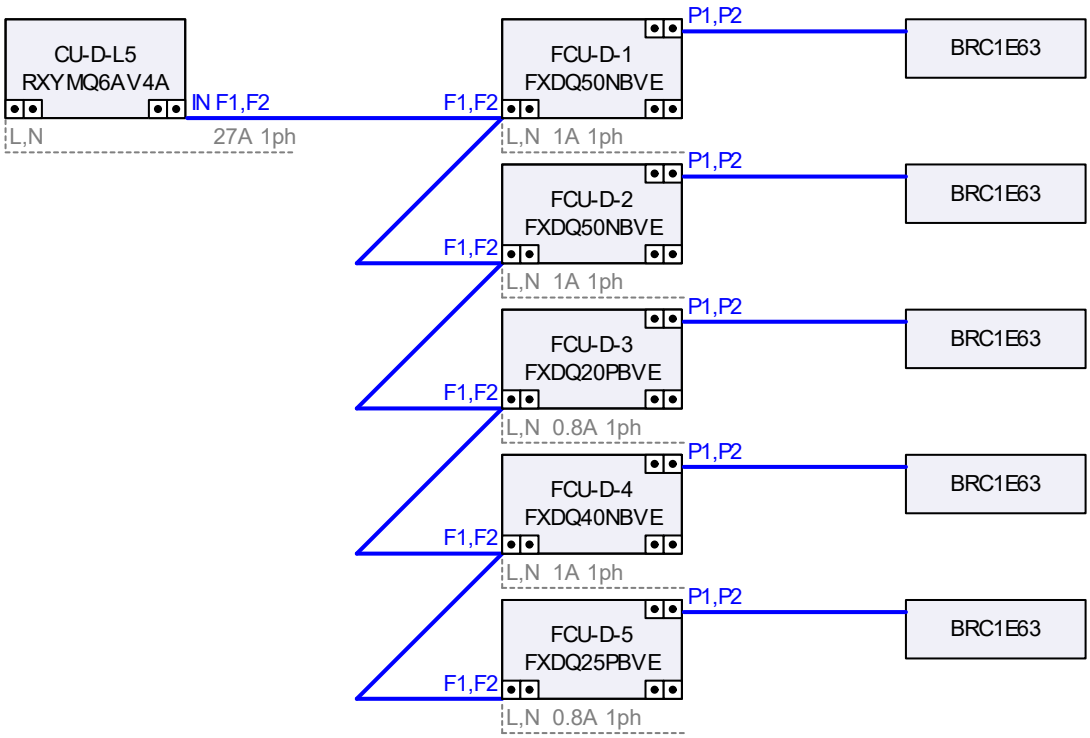
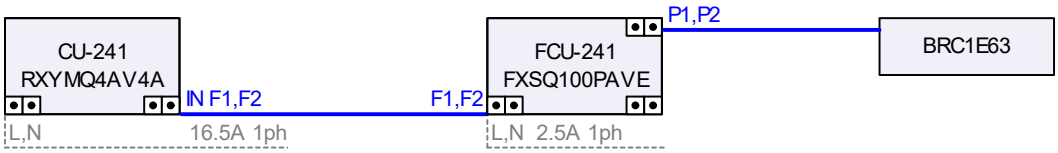


5.12.Wiring CU-D-L5



5.13.Wiring CU-241



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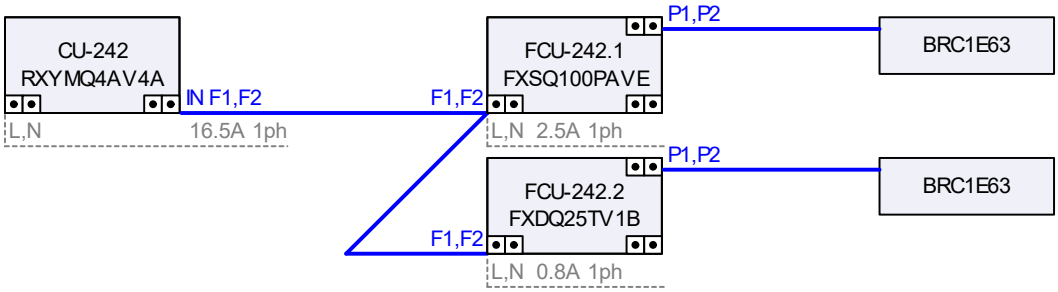

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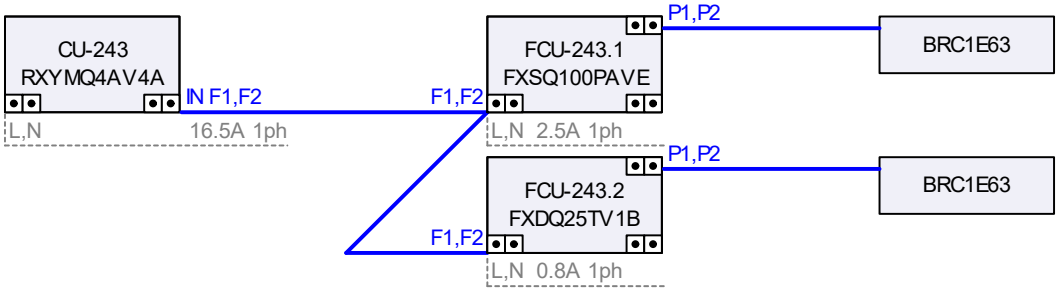

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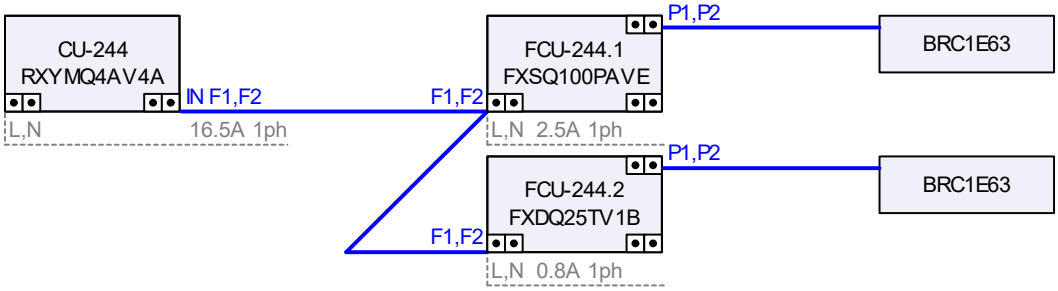

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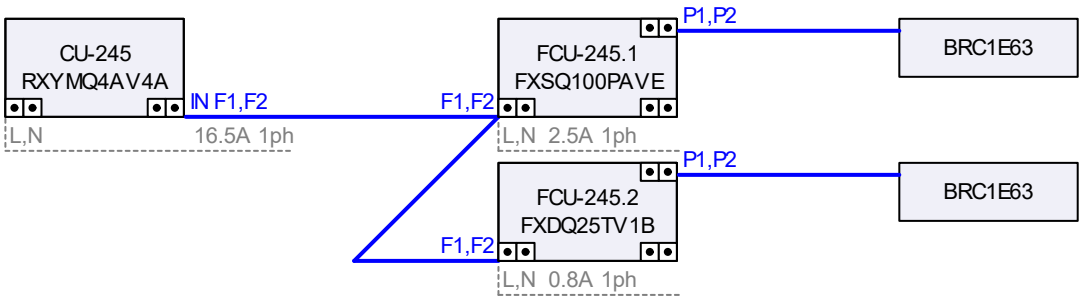

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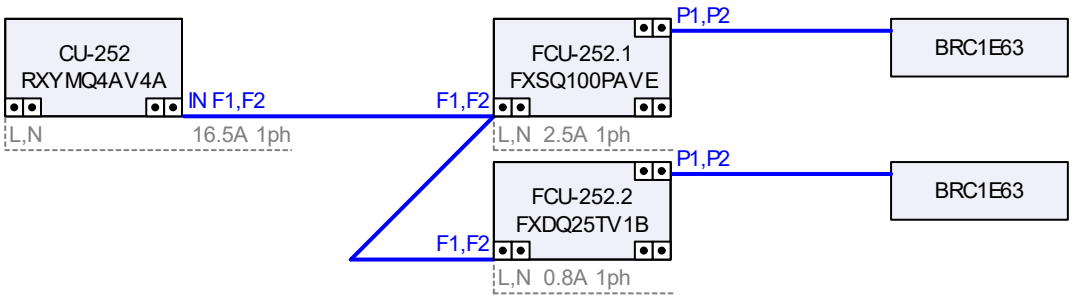
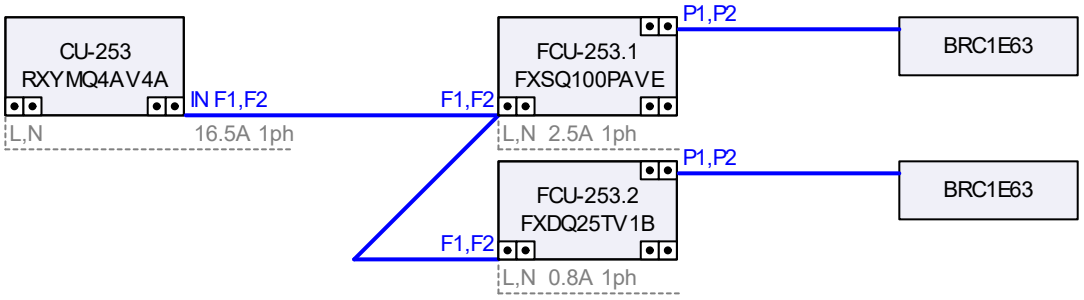


5.19.Wiring CU-253



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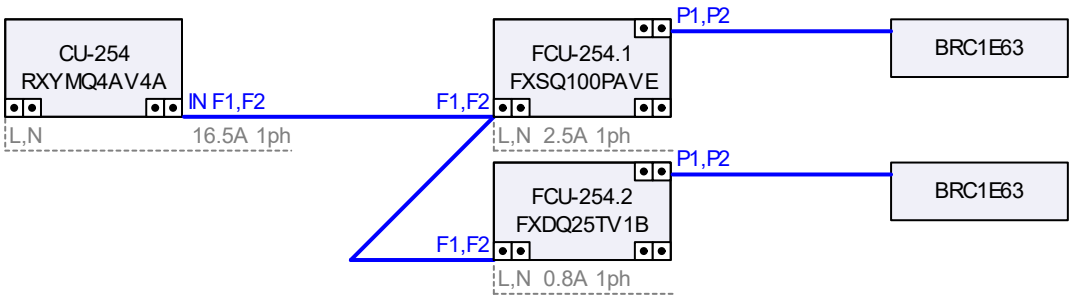

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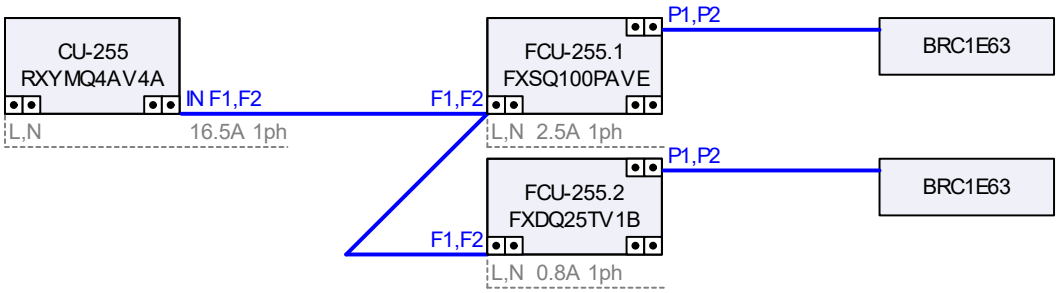

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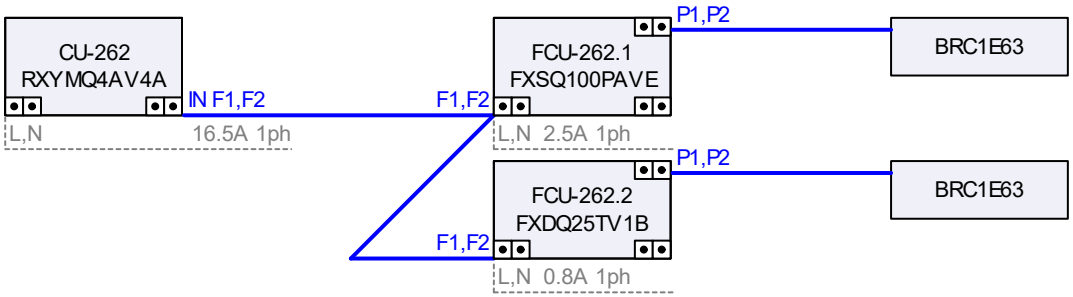

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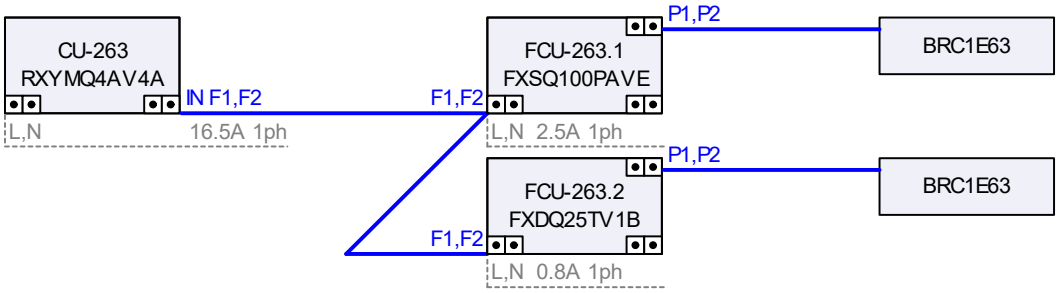

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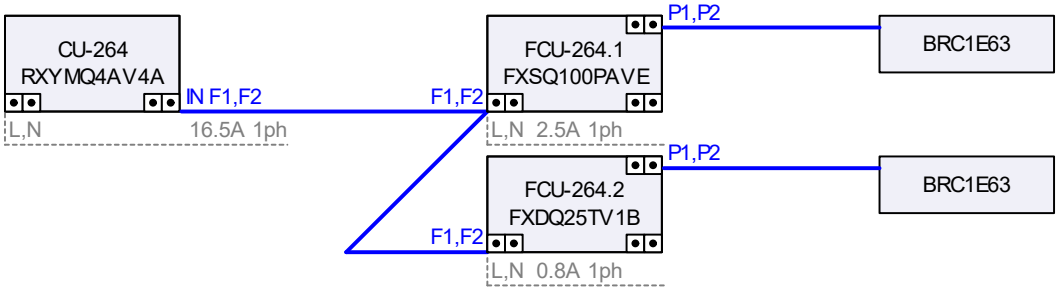

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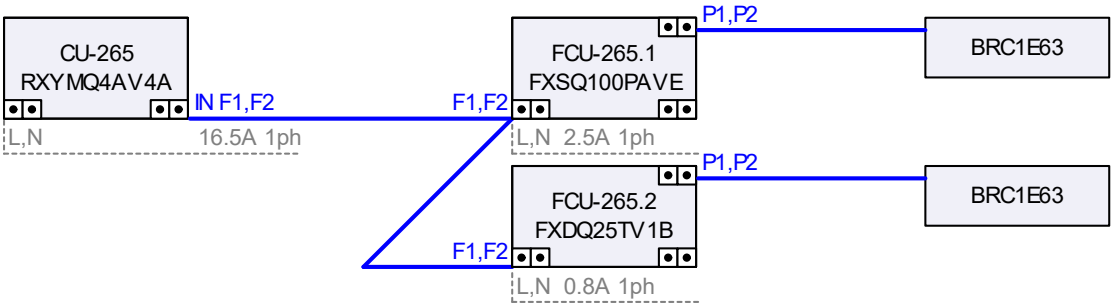
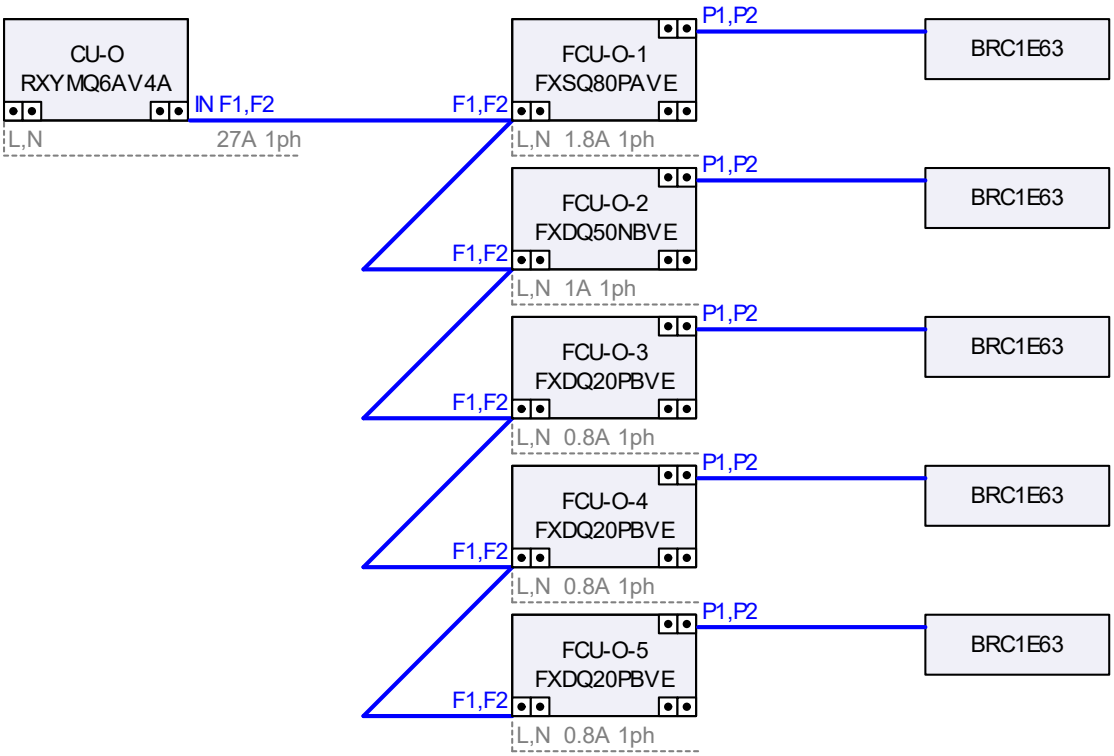
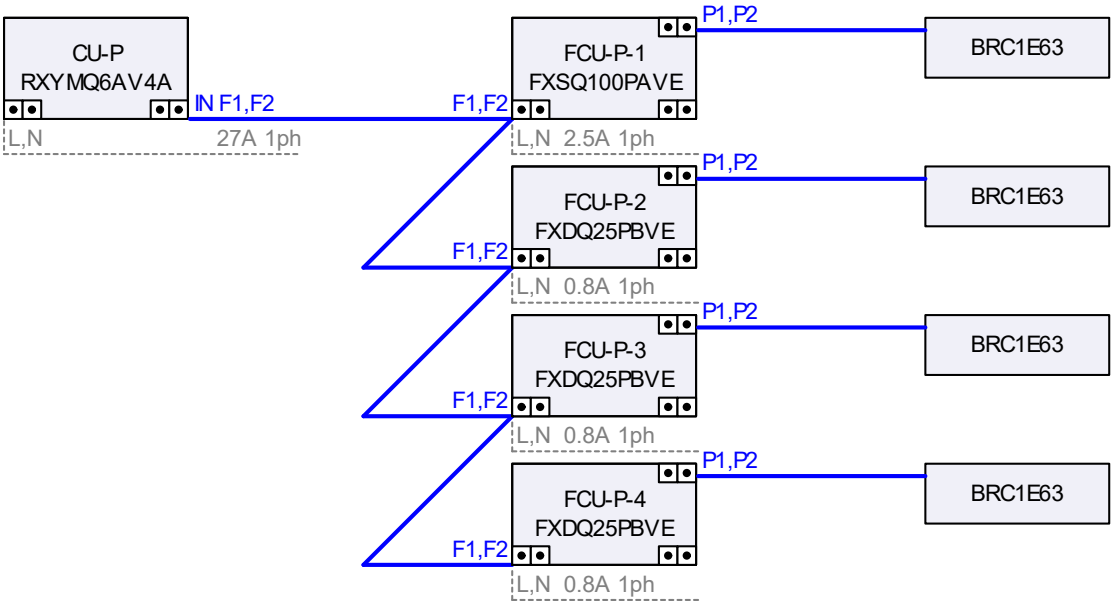


5.26. Wiring CU-O



5.27.Wiring CU-P



SECTION 6.B – FANS TECH DATA

Project Summary

Pacific Ventilation

FIRST BAY COOLUM REV B

Quote Nº VENTQLD-1120-0335B
Quote Date 13/07/2021
Tender Doc Ref
Revision

Account Mgr **Peter Morris**
Branch **Pacific Ventilation - Qld**
Phone 1300 733 833
Peter.Morris@pacificventilation.com

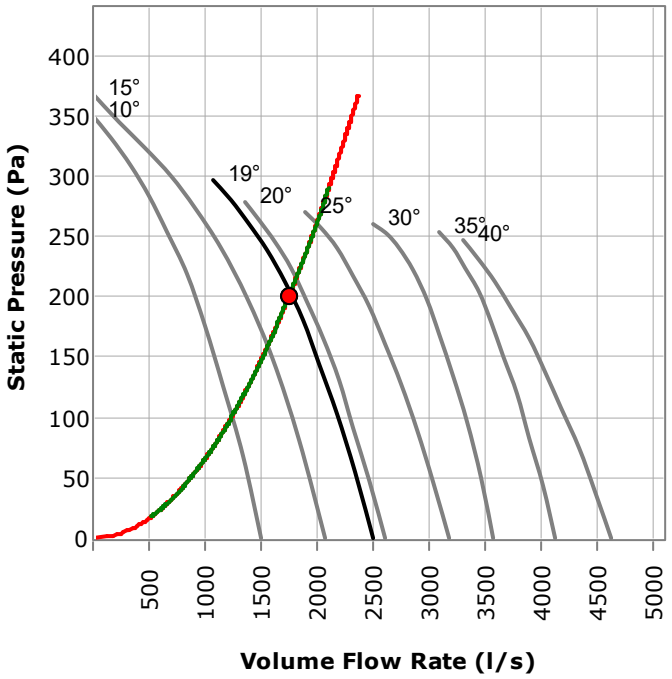
	Product ID Description	Qty	Mot (KW)/RPS V/Hz/Ph	Selected Vol Prs	Duty Vol Prs	Sound Spectrum (Khz) 63	125	250	500	1k	2k	4k	8k	dB(A) @
	Reference EF-1, 2		**Location**											
	AX56DB19A-4CSF	**2**	0.75/24	1,750 l/s	1,760 l/s	68	76	82	81	79	76	68	55	**62 @ 3m**
	Axial Circular 4 Pole		400/50/3	200 Pa	202 Pa									
	Reference SAF-1		**Location**											
	AX63DB19P-4ESF	**1**	1.50/24	2,650 l/s	2,685 l/s	63	67	77	87	82	74	68	61	**65 @ 3m**
	Axial Circular 4 Pole		400/50/3	200 Pa	205 Pa									
	Reference EF-4, EF-5		**Location**											
	AX56DB19A-4CSF	**2**	0.75/24	1,750 l/s	1,760 l/s	68	76	82	81	79	76	68	55	**62 @ 3m**
	Axial Circular 4 Pole		400/50/3	200 Pa	202 Pa									
	Reference GR EF 1		**Location**											
	MFP150-V-HIGH	**1**	0.05/41	100 l/s	105 l/s	59	56	63	65	61	59	55	44	**46 @ 3m**
	Inline Mixed Flow ERM		230/50/1	150 Pa	166 Pa									
	Reference MSB EF		**Location**											
	MFP200-V-HIGH	**1**	0.11/37	200 l/s	215 l/s	62	61	63	61	65	69	61	53	**51 @ 3m**
	Inline Mixed Flow ERM		230/50/1	100 Pa	115 Pa									

AX56DB19A-4CSF

AX Inline API Axial 560

Pacific Ventilation

Location	Reference EF-1, 2	
Performance Data	**Specified**	**Actual**
Design Flow (l/s)	1750	1760
Design Pressure (Pa)	200	202
Air Density (kg/m3)	1.204	
Temperature (C°)	20	
Altitude (m)	0	
Humidity (%)	0	

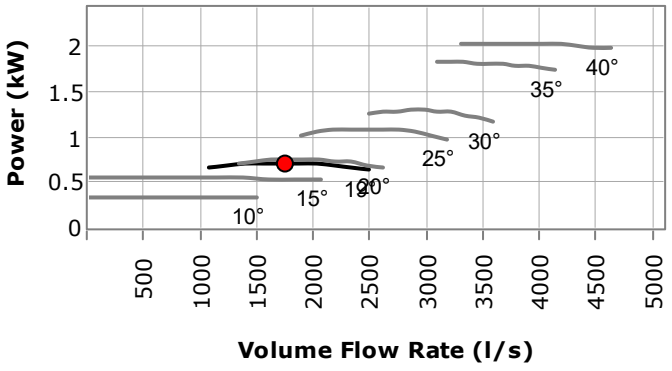


Fan Data

Part Number	AX56DB19A-4CSF		
Description	Axial Circular 4 Pole		
Fan Diameter (mm)	560	Hub (mm)	150
Impeller Type	Axial	Angle °	19
Impeller Material	Aluminium	Blades	10
Weight (Kg)	40.0		
Fan Speed (RPM)	1440		
Absorbed Power (kW)	0.71		
Peak Power (kW)	0.71		
Total Efficiency (%)	57.9		
Static Efficiency (%)	50.2		
Frequency (Hz)	50		

Motor Data

Rated (kW)	0.75
Motor Pole	4
Voltage (V)	400
Phase	3
Full Load Current (A)	1.80
Starting Current (A)	10.80
Class	Standard
Frame Size (mm)	80
Mount	Foot
Shaft Size (mm)	19



Complies with NCC/BCA Vol.1 Table J 5.2 2019

Sound Data

A weighted sound pressure value is spherical free field for comparison use only.

Sound Power Spectrum (dB)

The sound power level ratings are shown in decibels & referred to in 10 $^{-12}$ watts.

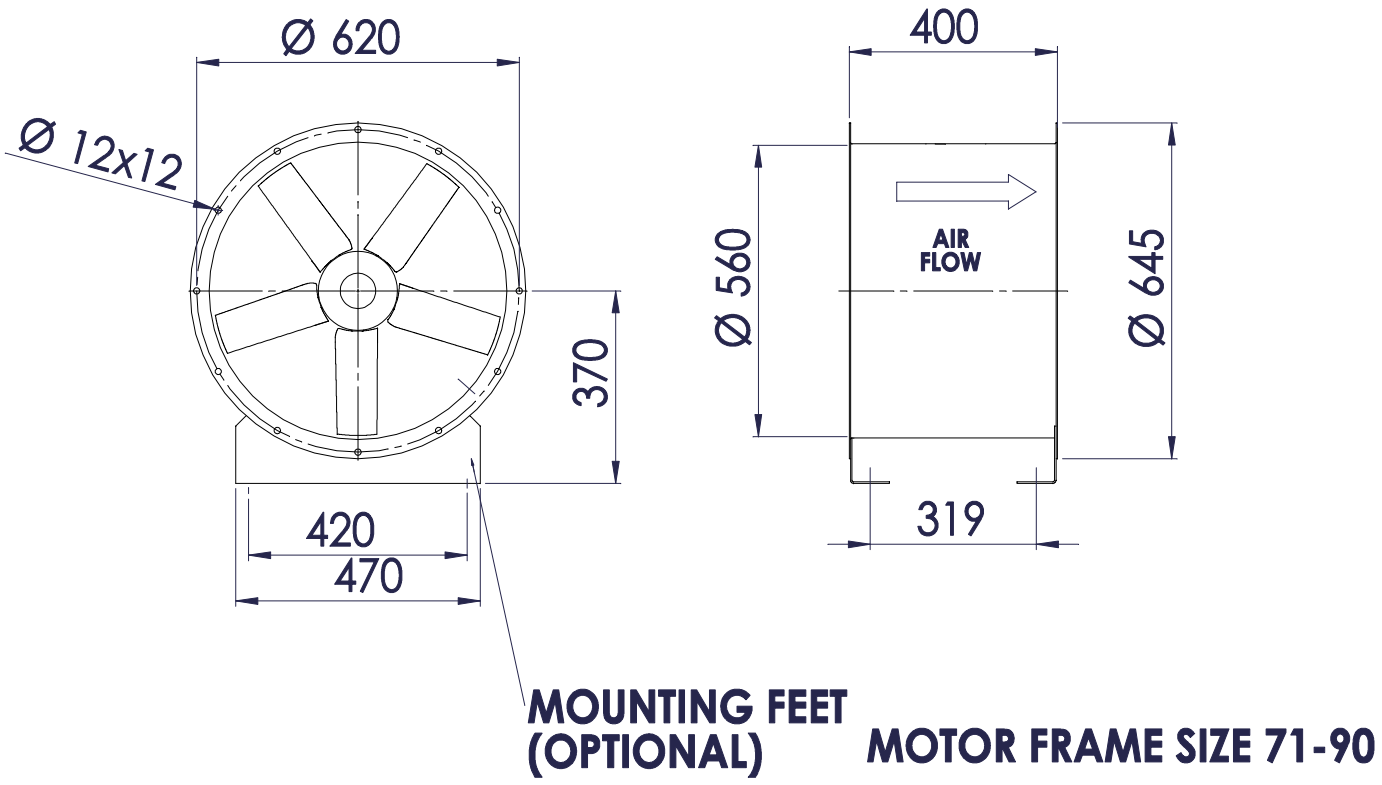
Spectrum (Hz)	63	125	250	500	1k	2k	4k	8k	Total SPL@3m dB(A)
LW Inlet (dB) In-duct	68	76	82	81	79	76	68	55	62
LW Inlet (dB) Free field	60	73	81	81	79	76	68	55	62

AX56DB19A-4CSF

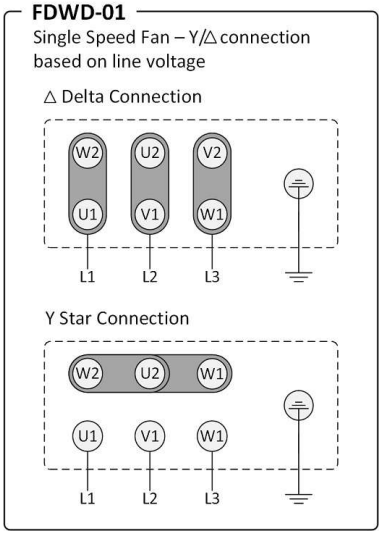
AX Inline API Axial 560

Pacific Ventilation

Dimensions



Wiring



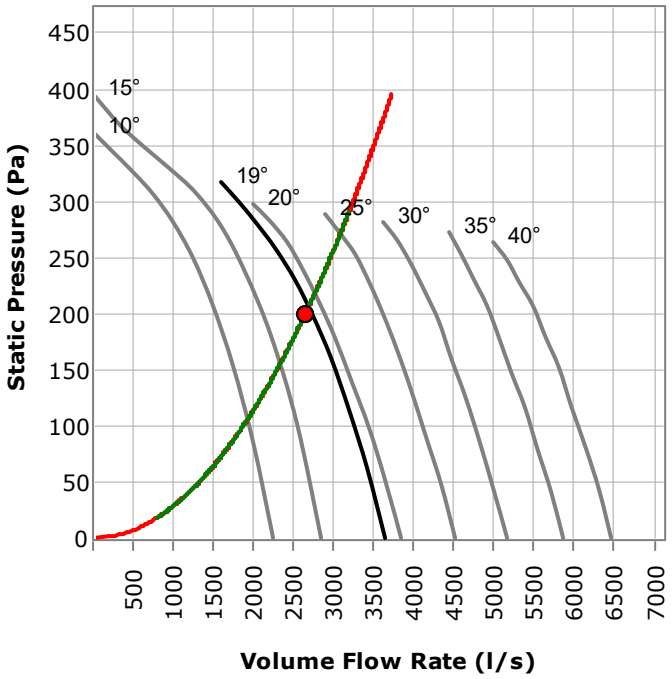
AX63DB19P-4ESF

AX Inline API Axial 630

Pacific Ventilation

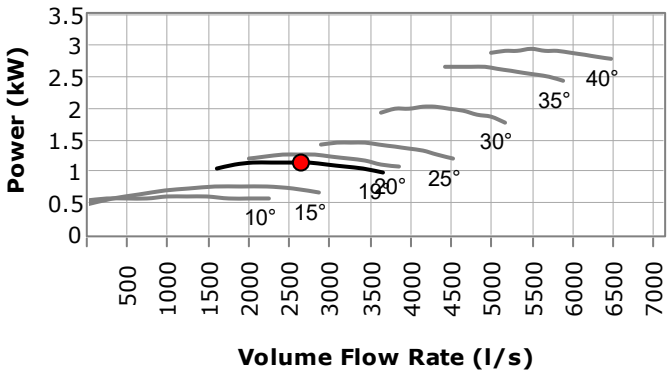
Location	Reference	SAF-1

Performance Data	Specified	Actual
Design Flow (l/s)	2650	2685
Design Pressure (Pa)	200	205
Air Density (kg/m3)	1.204	
Temperature (C°)	20	
Altitude (m)	0	
Humidity (%)	0	



Fan Data

Part Number	AX63DB19P-4ESF		
Description	Axial Circular 4 Pole		
Fan Diameter (mm)	630	Hub (mm)	150
Impeller Type	Axial	Angle °	19
Impeller Material	GRP	Blades	10
Weight (Kg)	60.0		
Fan Speed (RPM)	1440		
Absorbed Power (kW)	1.15		
Peak Power (kW)	1.15		
Total Efficiency (%)	58.6		
Static Efficiency (%)	48.1		
Frequency (Hz)	50		



Motor Data

Rated (kW)	1.50
Motor Pole	4
Voltage (V)	400
Phase	3
Full Load Current (A)	3.30
Starting Current (A)	19.80
Class	Standard
Frame Size (mm)	90
Mount	Foot
Shaft Size (mm)	24

Complies with NCC/BCA Vol.1 Table J 5.2 2019

Sound Data

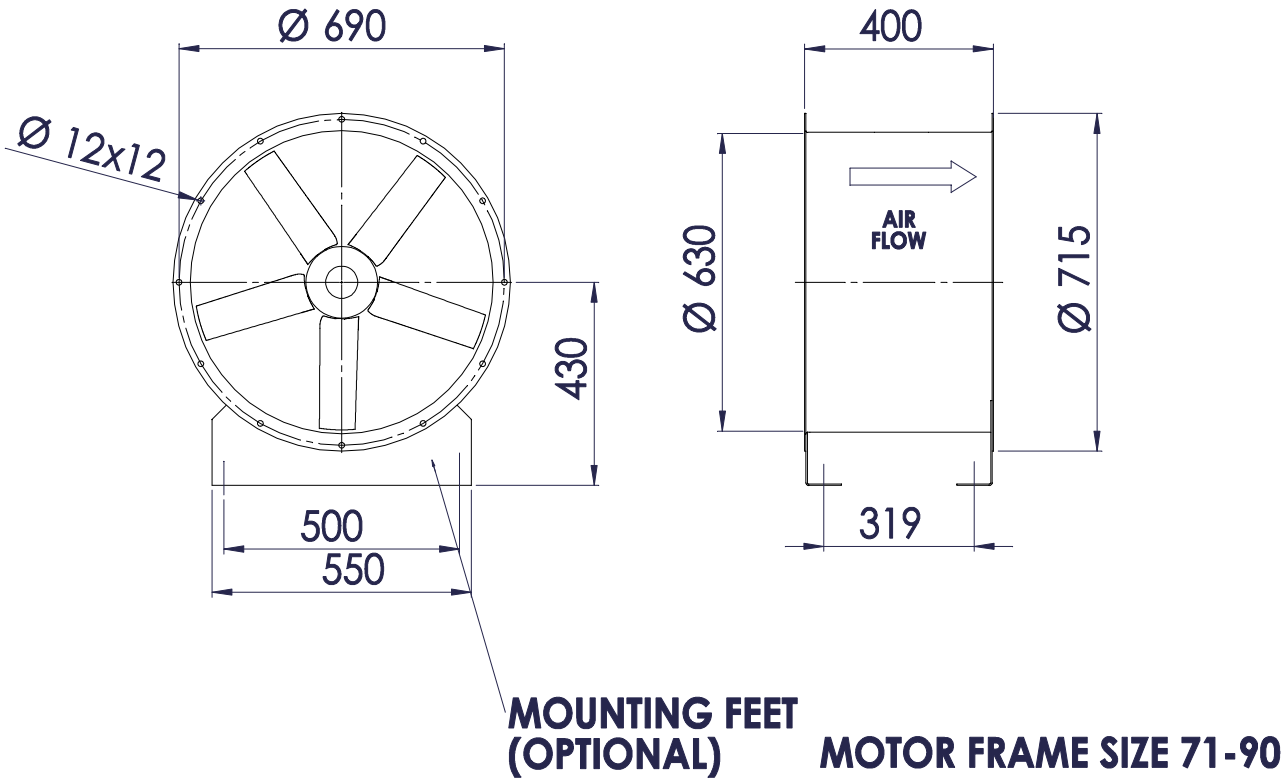
A weighted sound pressure value is spherical free field for comparison use only.

Sound Power Spectrum (dB)

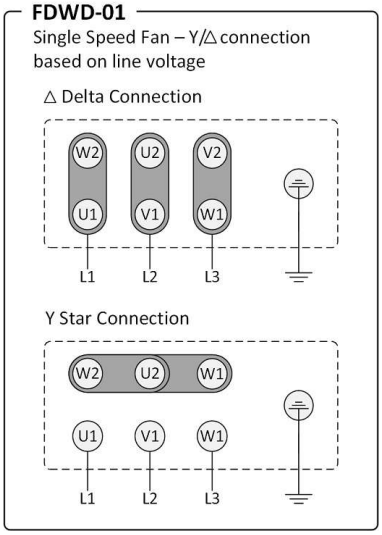
The sound power level ratings are shown in decibels & referred to in 10 $^{-12}$ watts.

Spectrum (Hz)	63	125	250	500	1k	2k	4k	8k	Total SPL@3m dB(A)
LW Inlet (dB) In-duct	63	67	77	87	82	74	68	61	65
LW Inlet (dB) Free field	56	64	76	87	82	74	68	61	65

Dimensions



Wiring



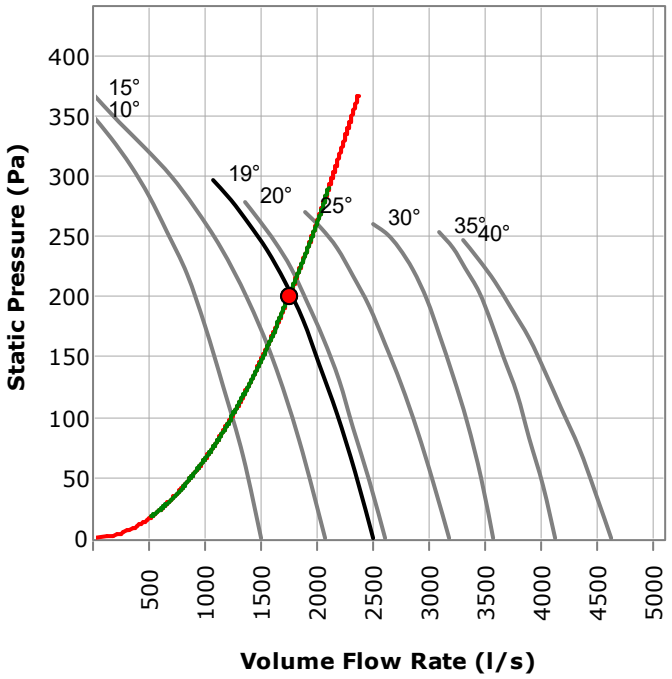
AX56DB19A-4CSF

AX Inline API Axial 560

Pacific Ventilation

Location	Reference	EF-4, EF-5

Performance Data	Specified	Actual
Design Flow (l/s)	1750	1760
Design Pressure (Pa)	200	202
Air Density (kg/m3)	1.204	
Temperature (C°)	20	
Altitude (m)	0	
Humidity (%)	0	

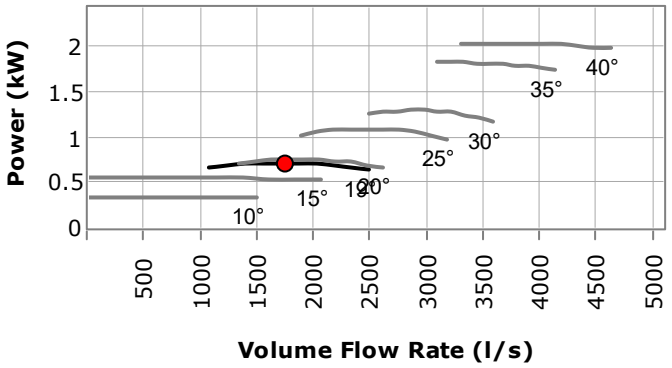


Fan Data

Part Number	AX56DB19A-4CSF		
Description	Axial Circular 4 Pole		
Fan Diameter (mm)	560	Hub (mm)	150
Impeller Type	Axial	Angle °	19
Impeller Material	Aluminium	Blades	10
Weight (Kg)	40.0		
Fan Speed (RPM)	1440		
Absorbed Power (kW)	0.71		
Peak Power (kW)	0.71		
Total Efficiency (%)	57.9		
Static Efficiency (%)	50.2		
Frequency (Hz)	50		

Motor Data

Rated (kW)	0.75
Motor Pole	4
Voltage (V)	400
Phase	3
Full Load Current (A)	1.80
Starting Current (A)	10.80
Class	Standard
Frame Size (mm)	80
Mount	Foot
Shaft Size (mm)	19



Complies with NCC/BCA Vol.1 Table J 5.2 2019

Sound Data

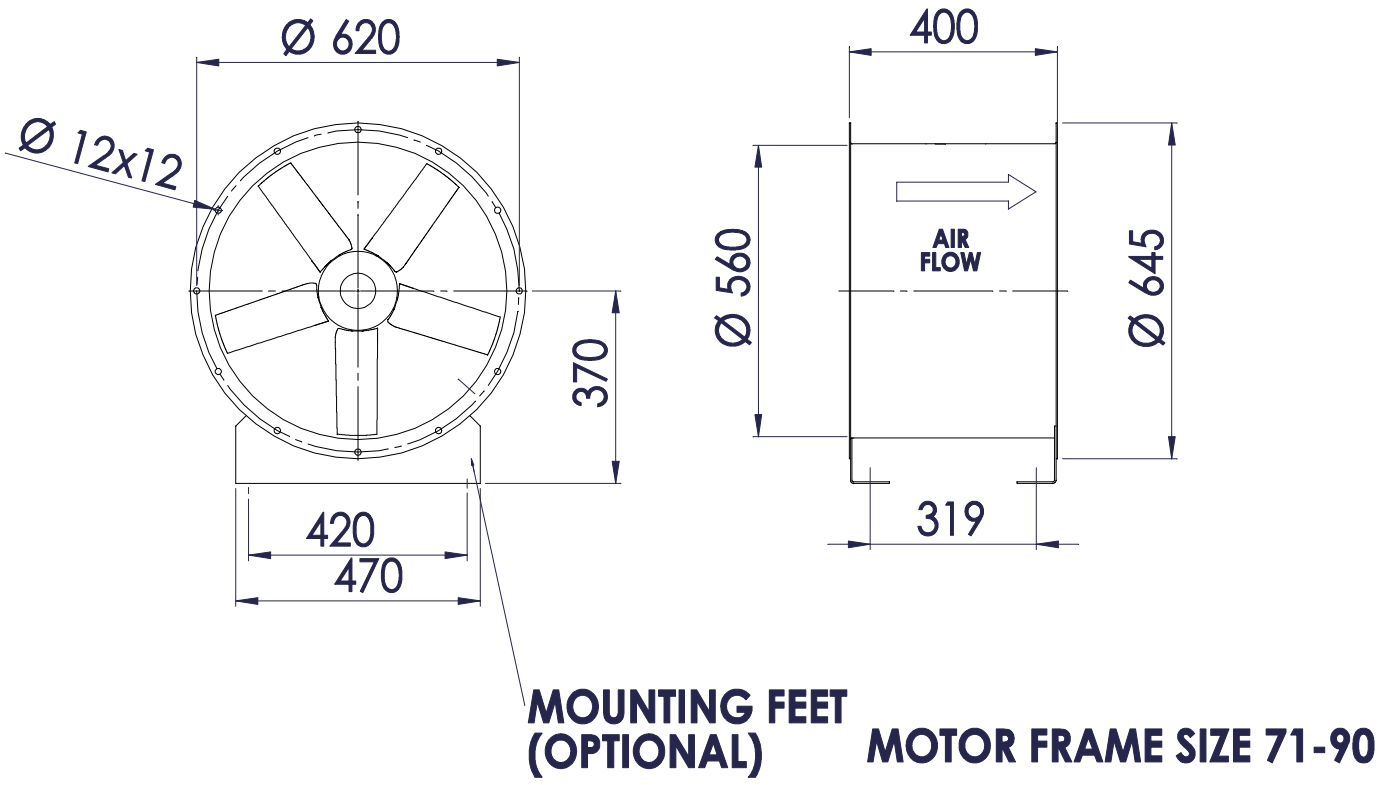
A weighted sound pressure value is spherical free field for comparison use only.

Sound Power Spectrum (dB)

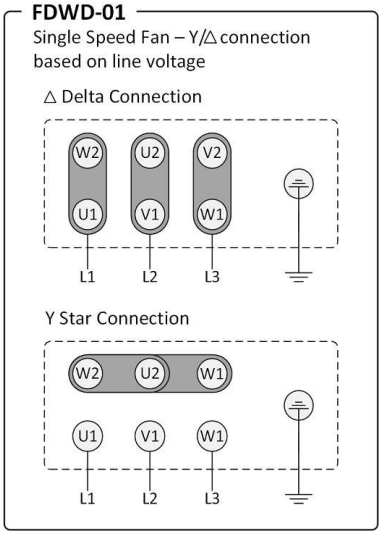
The sound power level ratings are shown in decibels & referred to in 10 $^{-12}$ watts.

Spectrum (Hz)	63	125	250	500	1k	2k	4k	8k	Total SPL@3m dB(A)
LW Inlet (dB) In-duct	68	76	82	81	79	76	68	55	62
LW Inlet (dB) Free field	60	73	81	81	79	76	68	55	62

Dimensions



Wiring



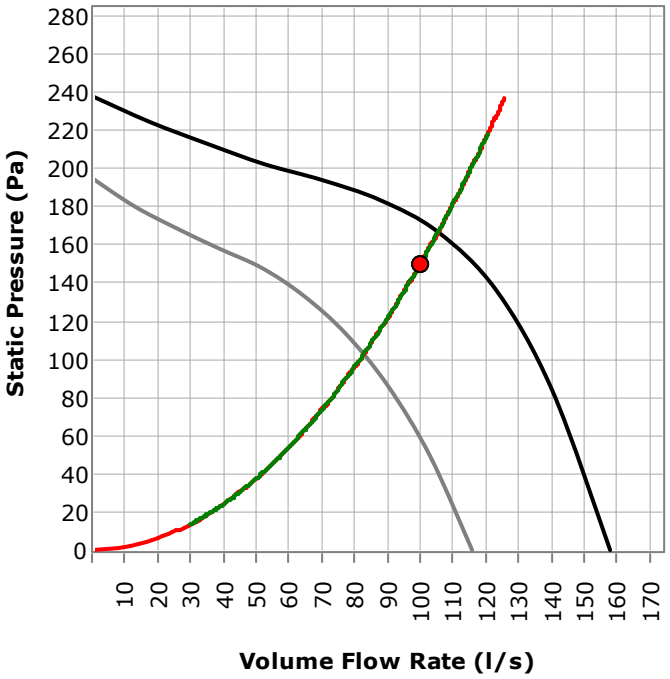
MFP150-V-HIGH

Inline Mixed Flow 2 Speed

Pacific Ventilation

Location **Reference** GR EF 1

Performance Data	**Specified**	**Actual**
Design Flow (l/s)	100	105
Design Pressure (Pa)	150	166
Air Density (kg/m3)	1.204	
Temperature (C°)	20	
Altitude (m)	0	
Humidity (%)	0	

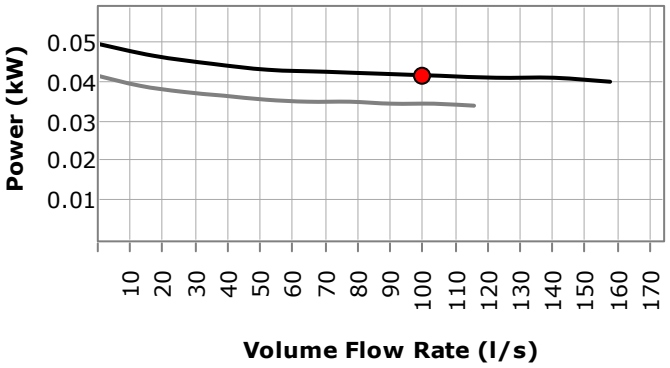


Fan Data

Part Number	MFP150-V-HIGH
Description	Inline Mixed Flow ERM
Fan Diameter (mm)	150
Impeller Type	Mixed Flow
Impeller Material	GRP
Weight (Kg)	3.3
Fan Speed (RPM)	2620
Absorbed Power (kW)	0.04
Peak Power (kW)	0.05
Total Efficiency (%)	47.8
Static Efficiency (%)	42.3
Frequency (Hz)	50

Motor Data

Rated (kW)	0.05
Motor Pole	2
Voltage (V)	230
Phase	1
Full Load Current (A)	0.22
Starting Current (A)	0.66
Class	Standard
Frame Size (mm)	
Mount	
Shaft Size (mm)	



Complies with NCC/BCA Vol.1 Table J 5.2 2019

Sound Data

A weighted sound pressure value is spherical free field for comparison use only.

Sound Power Spectrum (dB)

The sound power level ratings are shown in decibels & referred to in 10 $^{-12}$ watts.

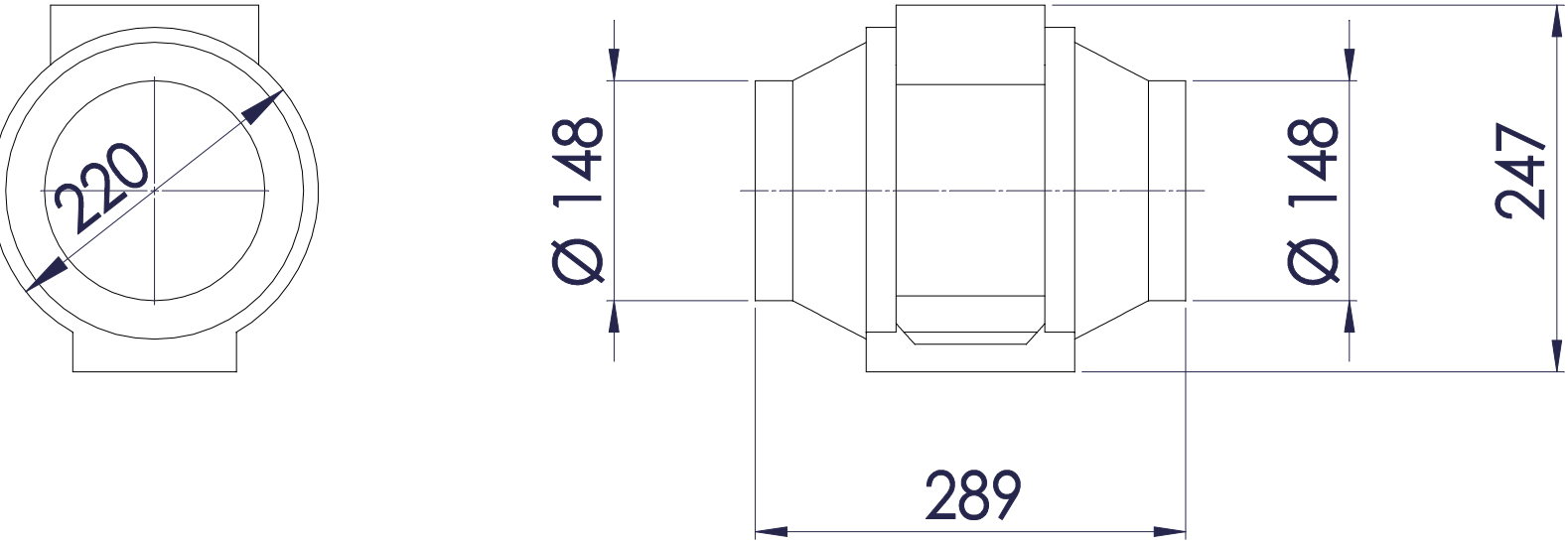
Spectrum (Hz)	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**	**Total SPL@3m dB(A)**
LW Inlet (dB) Free field	59	56	63	65	61	59	55	44	46
LW Outlet (dB) Free field	58	54	62	63	60	57	54	43	44

MFP150-V-HIGH

Inline Mixed Flow 2 Speed

Pacific Ventilation

Dimensions



Wiring

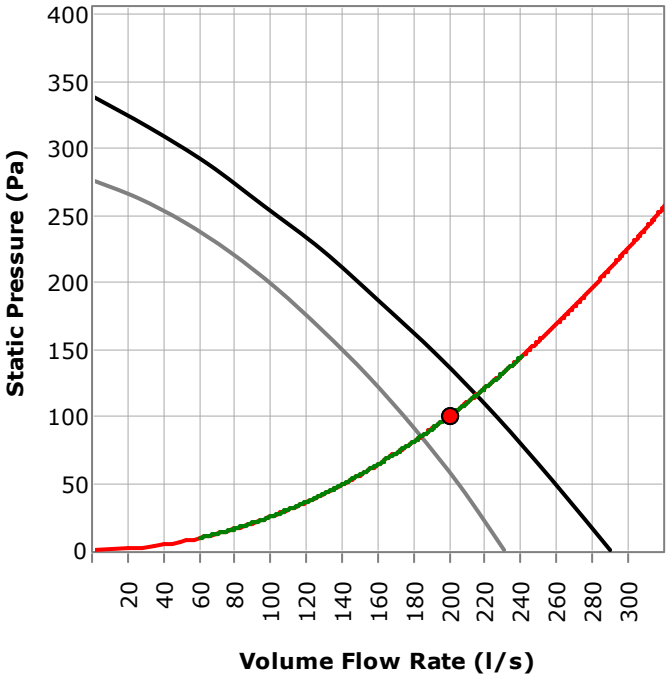
MFP200-V-HIGH

Inline Mixed Flow 2 Speed

Pacific Ventilation

Location	Reference	MSB EF

Performance Data	Specified	Actual
Design Flow (l/s)	200	215
Design Pressure (Pa)	100	115
Air Density (kg/m3)	1.204	
Temperature (C°)	20	
Altitude (m)	0	
Humidity (%)	0	

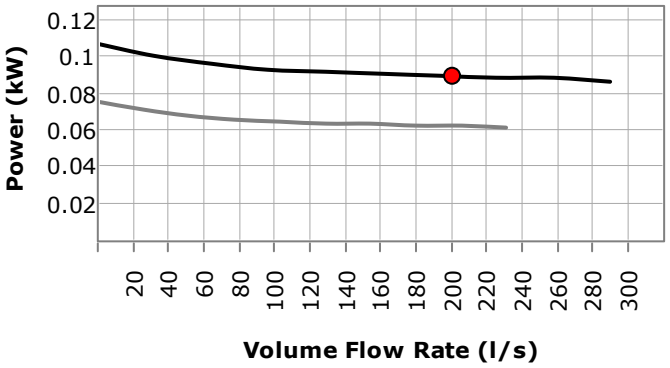


Fan Data

Part Number	MFP200-V-HIGH
Description	Inline Mixed Flow ERM
Fan Diameter (mm)	200
Impeller Type	Mixed Flow
Impeller Material	GRP
Weight (Kg)	6.5
Fan Speed (RPM)	2380
Absorbed Power (kW)	0.09
Peak Power (kW)	0.11
Total Efficiency (%)	34.6
Static Efficiency (%)	27.8
Frequency (Hz)	50

Motor Data

Rated (kW)	0.11
Motor Pole	2
Voltage (V)	230
Phase	1
Full Load Current (A)	0.48
Starting Current (A)	1.44
Class	Standard
Frame Size (mm)	
Mount	
Shaft Size (mm)	



Complies with NCC/BCA Vol.1 Table J 5.2 2019

Sound Data

A weighted sound pressure value is spherical free field for comparison use only.

Sound Power Spectrum (dB)

The sound power level ratings are shown in decibels & referred to in 10 $^{-12}$ watts.

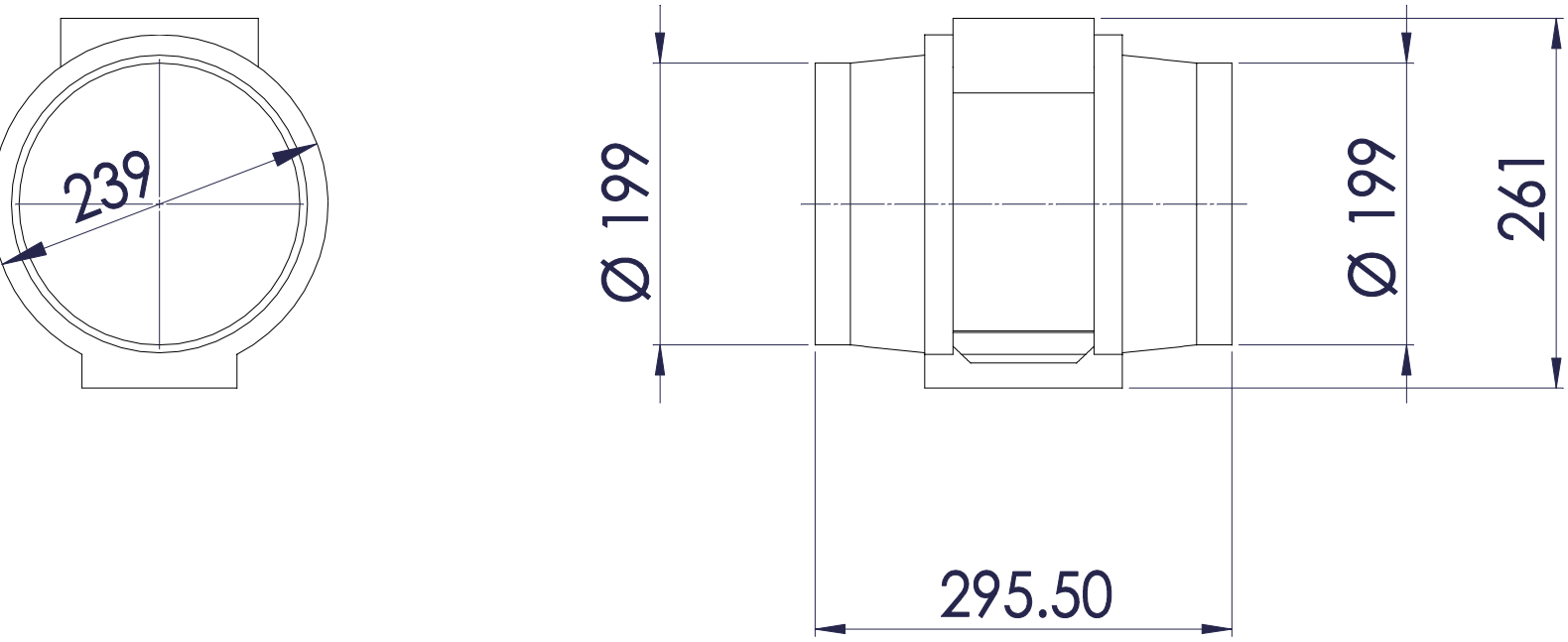
Spectrum (Hz)	63	125	250	500	1k	2k	4k	8k	Total SPL@3m dB(A)
LW Inlet (dB) Free field	62	61	63	61	65	69	61	53	51
LW Outlet (dB) Free field	61	60	62	60	62	68	60	51	50

MFP200-V-HIGH

Inline Mixed Flow 2 Speed

Pacific Ventilation

Dimensions



Wiring

SECTION 6.C – DAIKIN CONTROLS AND BROCHURE

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 – 2
Button Location and Descriptions 5
Names and Functions 7

Basic Operation (Use of Direct Buttons)

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Ventilation Operation 17
Setting the Cool/Heat Selection Eligibility 18
Key Lock 20

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Filter Auto Clean 49
Maintenance Information 50
Configuration 51
Current Settings 59
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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.

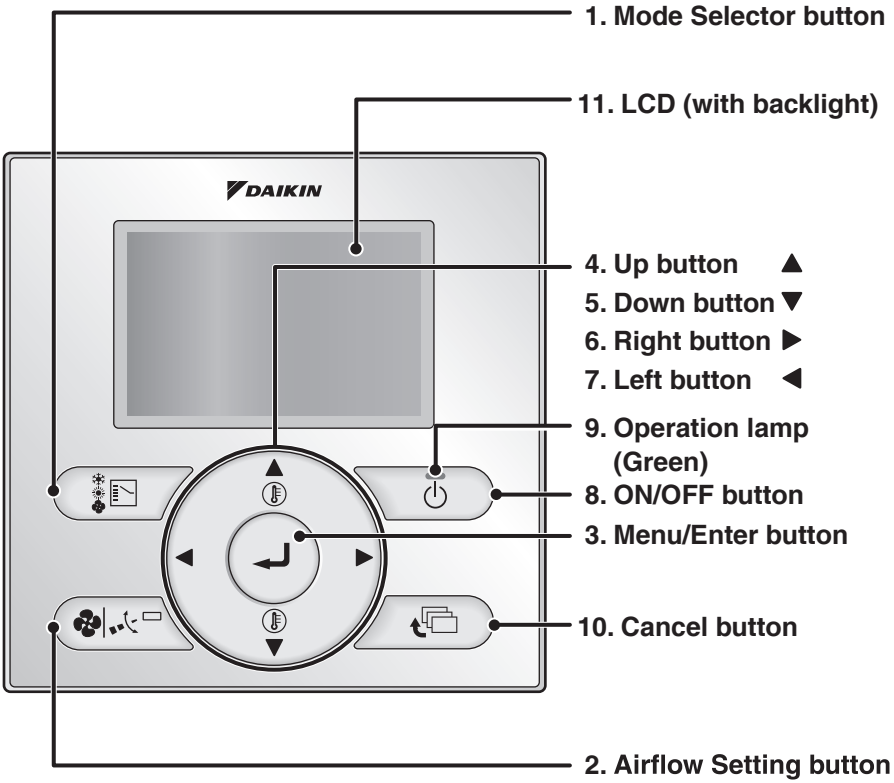
■ Disposal requirements

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)

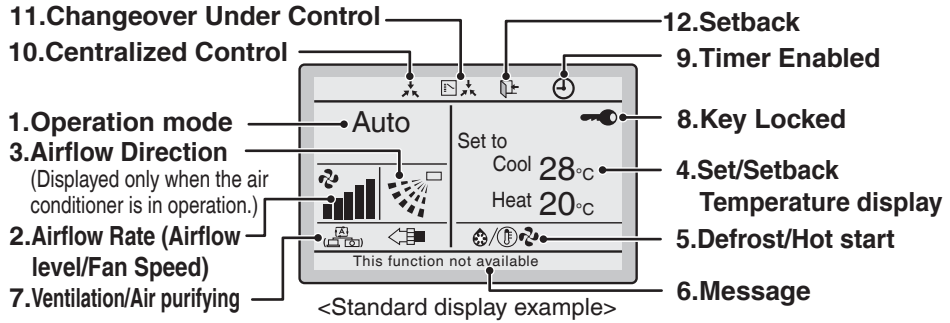
- The backlight will be lit for approximately 30 seconds by pressing any operation button. Press the button while the backlight is lit. (Excluding the ON/OFF button)
- If 2 remote controllers are used to control a single indoor unit, the backlight of the remote controller accessed first will be lit.

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.)

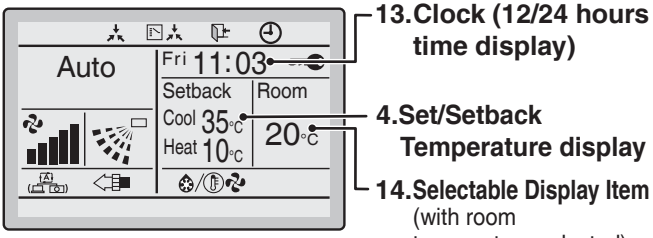
Standard display screen



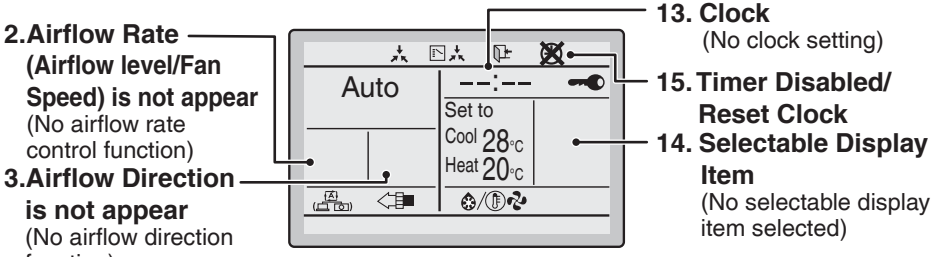
<Standard display example>

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

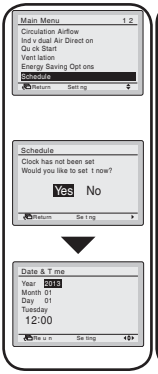
Describes the positions of buttons to be pressed.

Operation

Operation screen display

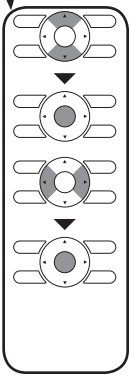
Describes screens that will be displayed on the remote controller.

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)



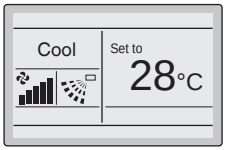
Cool/Heat/Auto/Fan Operation

Preparation

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

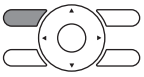
Operation

1



Basic screen

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

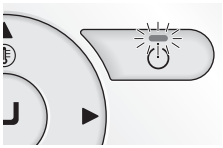


* Unavailable operation modes are not displayed.
* Only the Cool or Fan mode can be selected if the air conditioner is a cooling only model.

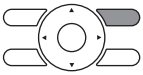
Note

- 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.

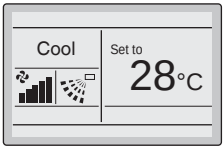
2



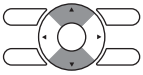
- Press ON/OFF button.
  The Operation lamp (green) will be lit and the system will start operating.



3

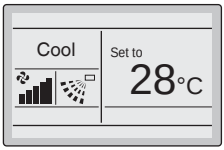


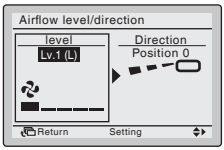
- The set temperature will increase by 1°C when "▲" button is pressed and decrease by 1°C when "▼" button is pressed.



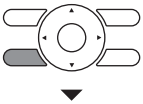
* No temperature settings are possible while operating in Fan mode.

4



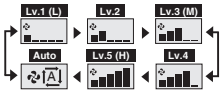


〈Airflow Rate (Airflow level/Fan Speed) or Airflow Direction Setting〉

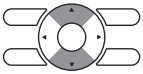


- Press Airflow setting button.
- To select Air volume or Direction setting, press "◀ ▶" buttons.

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.

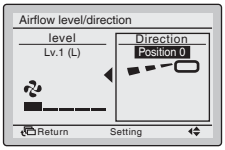
* Depending on the type of indoor unit, the adjustment levels may be two levels of **Lv.2** and **Lv.4** or three levels of **Lv.2**, **Lv.3 (M)**, and **Lv.4**. or five levels of **Lv.1 (L)**, **Lv.2**, **Lv.3 (M)**, **Lv.4**, and **Lv.5 (H)**

* 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.

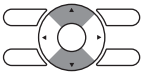
* It may take time until a change of the airflow rate is completed.

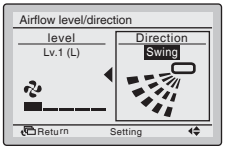
* In **Auto** setting, the airflow rate is adjusted automatically according to set temperature and room temperature. In Fan mode, the airflow rate setting is always at Lv.5 (H).



<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.



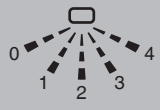


Airflow direction setting (up/down)

Note

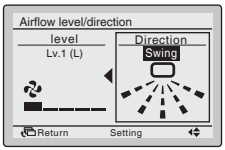
- Airflow direction appears on the screen as below.

Up/down direction



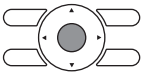
Left/right direction

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.

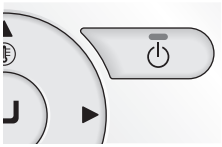


Movement of airflow direction flap (blade)

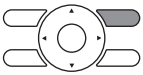
Under the operation conditions shown below, airflow direction is controlled automatically. Actual operation may thus be different from what is displayed on the remote controller.

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.

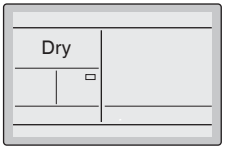
Dry Operation

Preparation

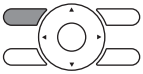
- For mechanical protection purposes, turn on the power to the air conditioner at least 6 hours before starting the operation.
- Dry mode may not be selected if the remote controller has no eligibility to select cooling/heating mode (Refer to page 19 for details).

Operation

1

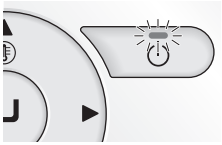


- Press Mode Selector button several times until Dry mode is selected.

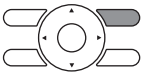


* Dry mode may not be available depending on the type of indoor unit.

2



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



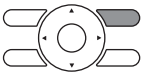
* The air conditioner controls temperature and airflow rate automatically. Therefore, set temperature or airflow rate settings are not available while the air conditioner is in operation.

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.

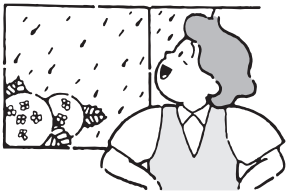


Note

- 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:

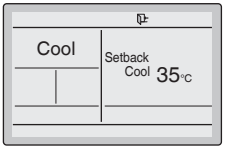
  [Setback temperature: cool 35°C, Heat 10°C
  Recovery Differential: cool -2°C, Heat +2°C]

  - 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.

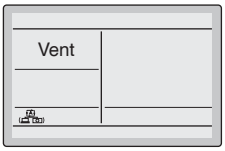
Ventilation Operation When Air Conditioner Interlocked with Heat Reclaim Ventilator

Preparation

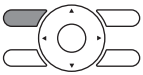
- For equipment protection purposes, turn on the power to the air conditioner at least 6 hours before starting the operation.

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).

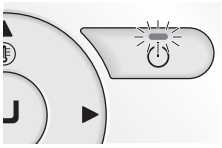
* Ventilation mode: Auto, Energy Reclaim Ventilation and Bypass

3

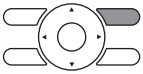
- The Ventilation rate can be changed from the Main Menu. (Refer to page 32).

* Ventilation rate: Low or High

4

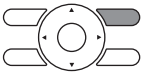


- Press ON/OFF button.
  The Operation lamp (green) will be lit and the Heat Reclaim Ventilator will start operating.



5

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



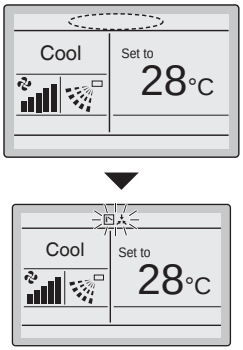
Setting the Cool/Heat Selection Eligibility

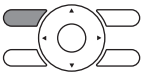
(VRV only)

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.

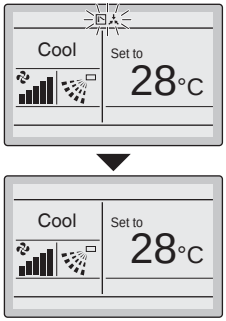
★Refer to the Operation Manual attached to the outdoor unit for the details of the “Cool/Heat selector”.

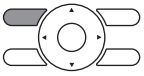
- Set a cool/heat selection elig bility as follows.

Selection Settings

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

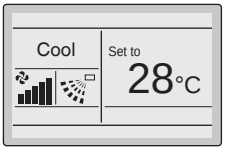
2



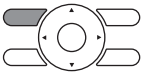


- Press Mode Selector button on the remote controller for which the selection eligibility to be set.
  Then the cool/heat selection eligibility will be set and the icon “ ” will disappear.
  The icon “ ” will appear on the other remote controllers.

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.

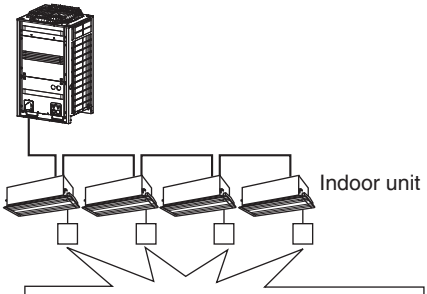
2. The remote controller with the selection elig bility (Icon " " (Changeover Under Control) is not displayed) → Set to "Fan" mode. → Other remote controllers (Icon " " (Changeover Under Control) is displayed)

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

Precautions for Setting Cool/Heat Selection Eligibility

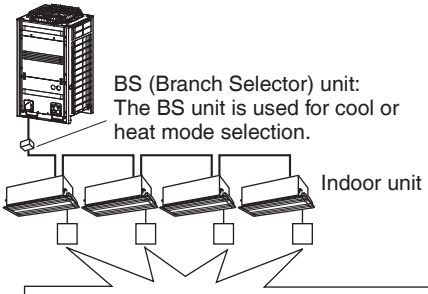
- The cool/heat selection eligibility needs to be set for a single remote controller in the following case.

(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)

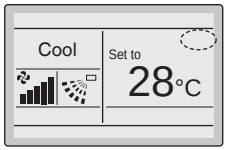


A number of indoor units are connected to a single BS unit.
Set the Cool/Heat/Auto/Fan mode selection eligibility in one of the remote controllers.

Key Lock

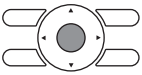
Operation Make settings and cancel settings in the Basic screen.

1

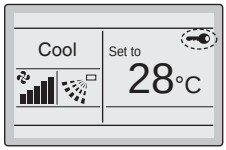


Basic screen

- 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

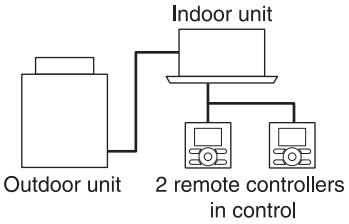
Setting and display items		Description	Reference page
Maintenance Information		**Used to display the service contact and model information.**	50
Configuration	**Quiet Operation Mode <Outdoor unit>** (sky air only)	**Setting period of time to operate priority on the quiet operation sound.** • Period of 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



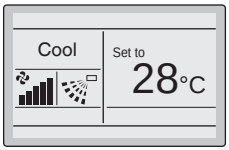
Menu Manipulation

Manipulating the Main Menu Screen

■Display Method for Main Menu

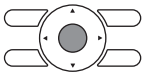
Operation

1

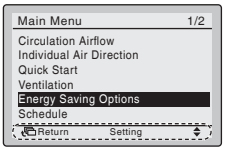


Basic screen

- Press Menu/Enter button.



2



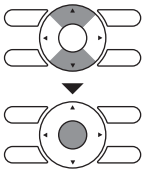
Main Menu screen

- The Main Menu screen will appear.

⇦ Instructions for manipulating the buttons will appear.

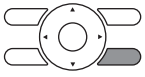
3

- 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.

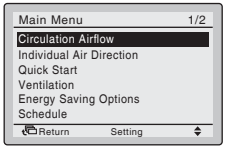
Circulation Airflow

■Circulation Airflow Setting Method

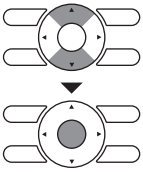
In case of air direction individual setting is disable, Circulation Airflow cannot be used.
Depends on model that does not have Circulation Airflow function and combination between option part, will not display the Circulation Airflow.

Operation

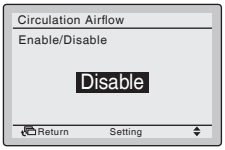
1



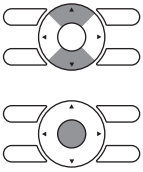
- Display the Main Menu screen (Refer to page 25).
- Press "▼▲" buttons to select **Circulation Airflow**. Press Menu/Enter button to display the Circulation Airflow screen.



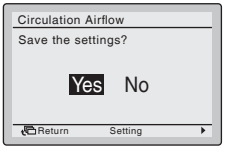
2



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

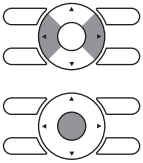


3

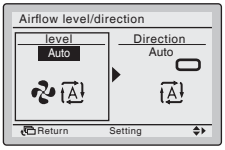


- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the settings and return to the Basic screen.

  ∗ 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:

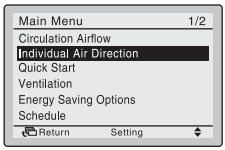
- Circulation Airflow when operation start, will be repeated mutually horizontal blow and downward blowing (Heating), swing (Cool/Heat).
  Unit will be judge automatically by temperature and time, and switch to normal the Airflow · Air Direction Auto operation.
  In this time, remote control screen will 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

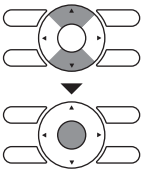
Operation

1

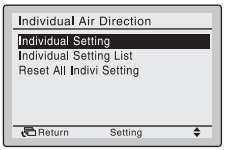


Main Menu screen

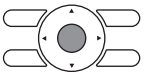
- Display the Main Menu screen (Refer to page 25).
- Select **Individual Air Direction** in the Main Menu.
- Press Menu/Enter button to display the Individual Air Direction settings screen.



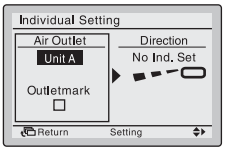
2



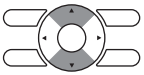
- Select **Individual setting**.
- Press Menu/Enter button.



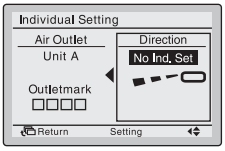
3



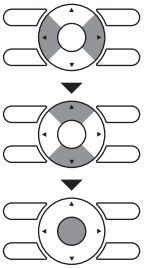
- Press "▼▲" buttons to select the unit and outlet mark.
- In case of four outlets, you can control each one of 4 flaps (ex. the following marks are beside each air outlet. □, □ □, □ □ □, □ □ □ □) individually.
- In case of SPLIT system, maximum 4 units (unit A, B, C, D) can be set.
  In case of VRV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



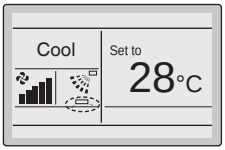
4



- 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



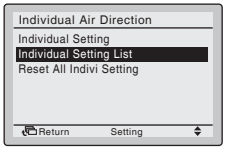
Basic screen

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

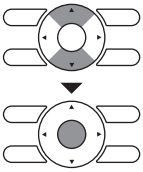
■Individual Setting List

Operation

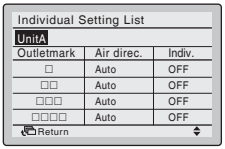
1



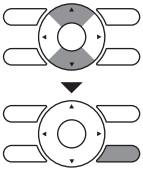
- Display the Individual Air Direction screen (Refer to page 27).
- Press "▼▲" buttons to select **Individual Setting List**.
- Press Menu/Enter button.



2



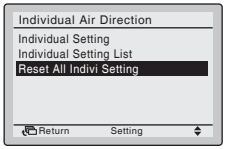
- A table shows the current settings.
  Press "▼▲" buttons to go to the next unit.
- Press Cancel button to return to the Main Menu screen.



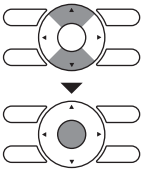
■ Reset All Indivi Setting

Operation

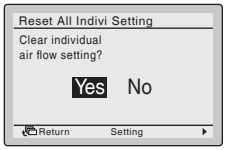
1



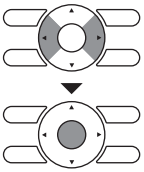
- Display the Individual Air Direction (Refer to page 27).
- Press "▼▲" buttons to select **Reset All Indivi Setting**.
- Press Menu/Enter button.



2

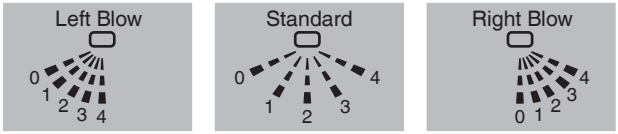


- Press "◀▶" buttons to select **Yes**.
- Press Menu/Enter button to confirm the reset and return to the Main Menu screen.



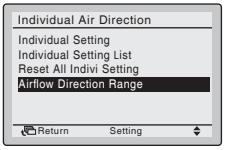
■ Airflow Direction Range (Floor standing type indoor unit only)

- 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.

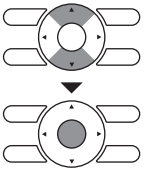


Operation

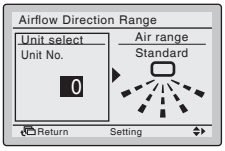
1



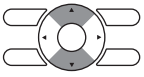
- Display the Individual Air Direction screen (Refer to page 27).
- Press "▼▲" buttons to select **Airflow Direction Range**.
- Press Menu/Enter button.



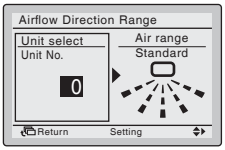
2



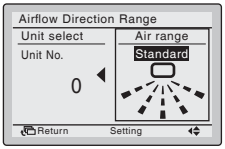
- Press "▼▲" buttons to select the unit No..
  *For simultaneous operation system, individual setup for each indoor unit is possible by connecting the remote controller to each unit at the time of installation.
  For the remote controllers with grouping connection, maximum 16 units (0-15 as unit number)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



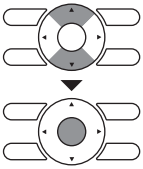
3

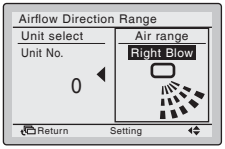


- Press "▶" button to select air range setting.

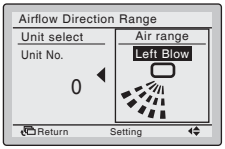


- Set the desired air range from **Standard**, **Right Blow** or **Left Blow** by using "▼▲" buttons.





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

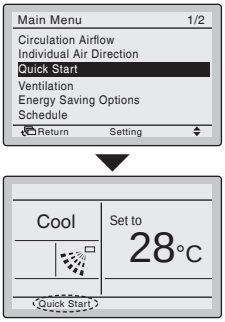


Quick Start (SPLIT system only)

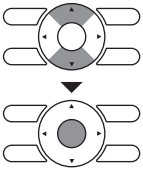
■Quick Start On

Operation

1



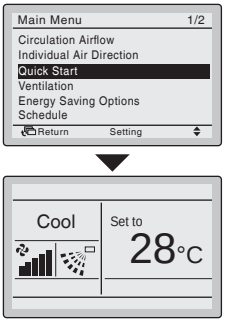
- While operating in Cooling, Heating, or Auto mode, display the Main Menu screen (Refer to page 25).
- Press "▼▲" buttons to select **Quick Start** on the Main Menu screen.
  Press Menu/Enter button to return to the Basic screen.
- "Quick Start" will appear on the Basic screen.
- Quick Start is now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



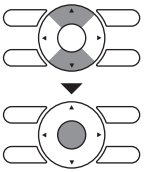
■Quick Start Off

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.

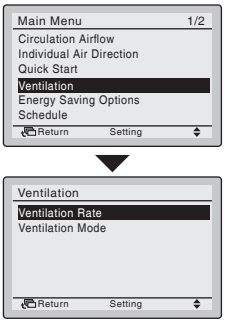
- Airflow rate display disappear and airflow rate can no longer be switched.
- Cannot be set when in fan and dry modes.
- Quick Start will operate for a maximum of 30 minutes before the air conditioner automatically returns to normal operation.
- Activating mode selector will return the air conditioner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

Ventilation

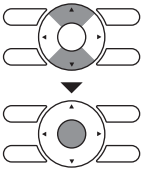
■Display Method for Ventilation Screen

Operation

1



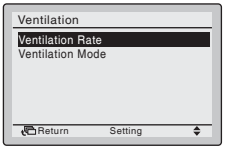
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Ventilation**. (For models with no ventilation function, **Ventilation** will not be displayed.) Press Menu/Enter button to display the Ventilation screen.



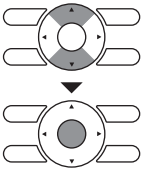
■Changing the Ventilation Rate

Operation

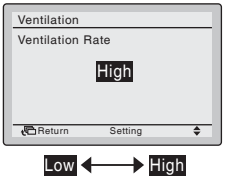
1



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

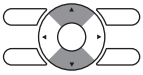


2

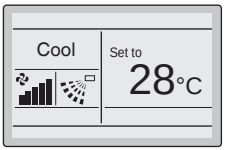


- Press "▼▲" buttons to change the setting to **Low** or **High**.

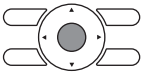
*Only modes that can be set are displayed.



3



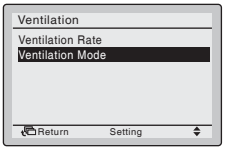
- Select the desired ventilation rate. Press Menu/Enter button to confirm the settings and return to the Basic screen. (Press Cancel button to return to the previous screen without changing the ventilation rate.)



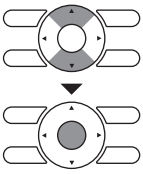
■Changing the Ventilation Mode

Operation

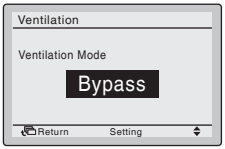
1



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

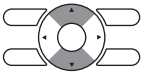


2



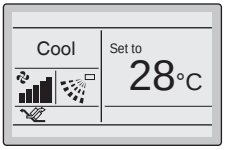
- Press "▼▲" buttons to change the settings in order as shown below.

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

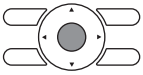


*Only modes that can be set are displayed.

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

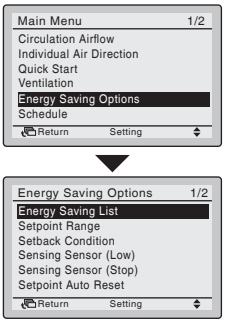
Outdoor air is supplied to the room without undergoing heat exchange.

Energy Saving Options

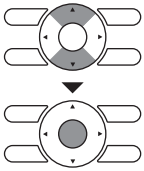
■Display Method for Energy Saving Options Screen

Operation

1



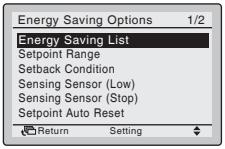
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Energy Saving Options**. Press Menu/Enter button to display the Energy Saving Options screen.



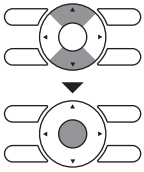
■Energy Saving List

Operation

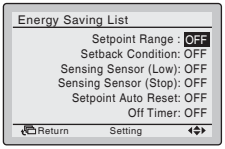
1



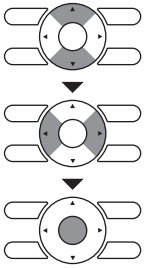
- Display the Energy Saving Options screen (Refer to above).
- Press "▼▲" buttons to select **Energy Saving List**. Press Menu/Enter button to display the Energy Saving List screen.



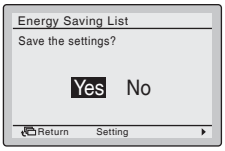
2



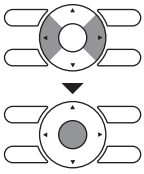
- Press "▼▲" buttons to change the setting to **ON** or **OFF**. (**ON** : Enable, **OFF** : Disable)
- Press "◀▶" buttons to move the cursor. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



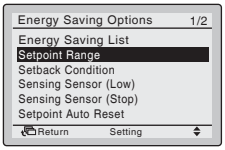
- Press "◀▶" buttons to select **Yes** on the confirmation screen. Press Menu/Enter button to confirm the settings and return to the Basic screen.



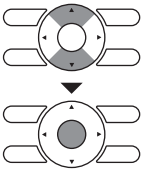
■Setpoint Range

Operation

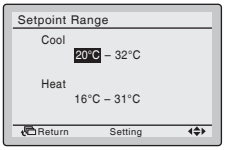
1



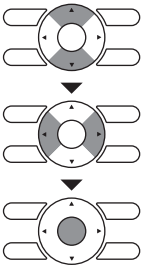
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Setpoint Range**. Press Menu/Enter button to display the Setpoint Range screen.



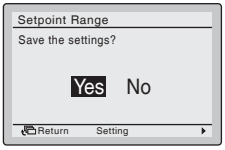
2



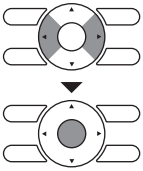
- Press "▼▲" buttons to change the temperature setting range of cooling and heating.
- Press "◀▶" buttons to move the cursor. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



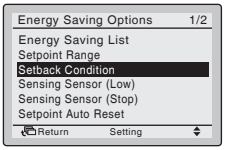
- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the settings and return to the Basic screen.



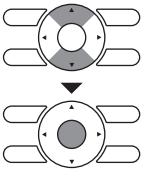
■Setback Condition

Operation

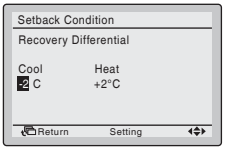
1



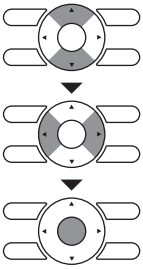
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Setback Condition**. Press Menu/Enter button to display the Setback Condition screen.



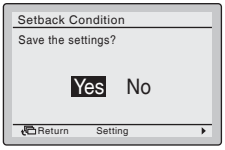
2



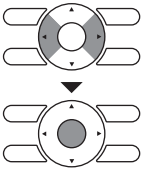
- Press "▼▲" buttons to change the temperature differential of the Setback.
- Press "◀▶" buttons to move the cursor. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



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

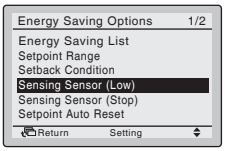


■Sensing Sensor (Low)

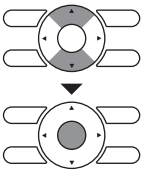
This function cannot be used at the time of group control.
In case of the simultaneous operation system, the system is controlled by the sensing sensor mounted in the master indoor unit.

Operation

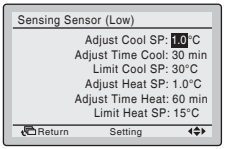
1



- 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.



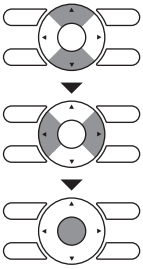
2



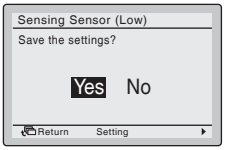
- Press "▼▲" buttons to change the setting value of saving energy operation when the sensor detects the absence.
- Press "◀▶" buttons to move the cursor.
  Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.
  (Example)

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

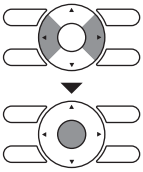
- If it is determined that there is no person in the room by sensor during Cooling Operation, the set temperature will automatically shift by 1°C every 30 minutes until the set temperature is 30°C. (On Basic screen, set temperature does not change.)



3



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

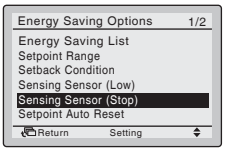


■Sensing Sensor (Stop)

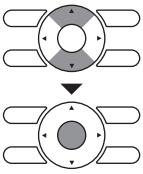
This function cannot be used at the time of group control.
In case of the simultaneous operation system, the system is controlled by the sensing sensor mounted in the master indoor unit.

Operation

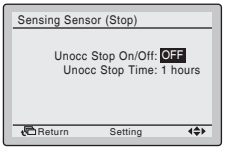
1



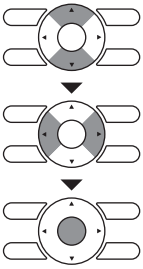
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Sensing Sensor (Stop)**.
  Press Menu/Enter button to display the Sensing Sensor (Stop) screen.



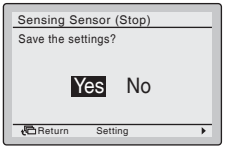
2



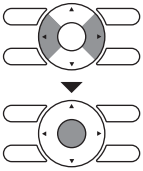
- Press "▼▲" buttons to set the saving energy operation when the sensor detects the absence.
- Press "◀▶" buttons to move the cursor.
  Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.



3



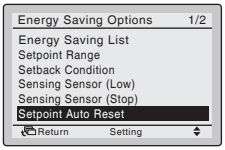
- Press "◀▶" buttons to select **Yes**.
  Press Menu/Enter button to confirm the settings and return to the Basic screen.



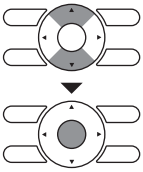
■Setpoint Auto Reset

Operation

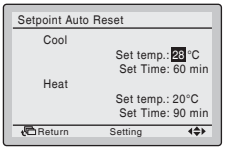
1



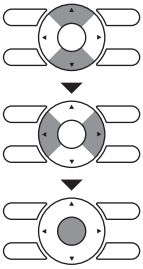
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Setpoint Auto Reset**.
  Press Menu/Enter button to display the Setpoint Auto Reset screen.



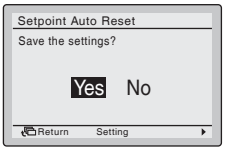
2



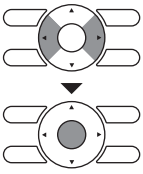
- Press "▼▲" buttons to set preset temperature and timing for the auto reset of the setpoint.
- Press "◀▶" buttons to move the cursor.
  Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.



3



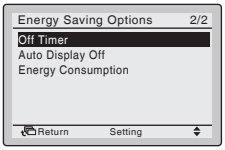
- Press "◀▶" buttons to select **Yes**.
  Press Menu/Enter button to confirm the settings and return to the Basic screen.



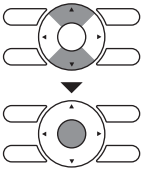
■Off Timer

Operation

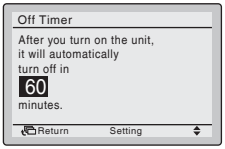
1



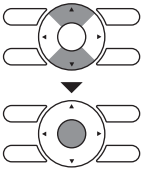
- Display the Energy Saving Options screen. (Refer to page 34.)
- Press "▼▲" buttons to select the **Off Timer**. Press Menu/Enter button to display the Off Timer screen.



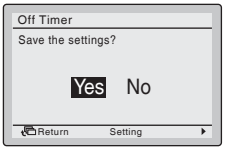
2



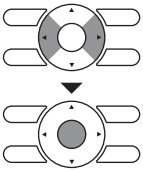
- Press "▼▲" buttons to set the time from operation start until the unit automatically stops. Selections can be made in increments of 10 minutes from 30 to 180 minutes. Holding down the button causes the number to change continuously.
- Select the desired time and press Menu/Enter button. The confirmation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



3



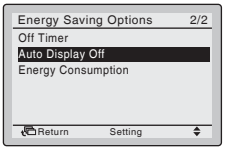
- Press "◀▶" button to select **Yes**. Press Menu/Enter button to confirm the Off Timer settings and return to the Basic screen.



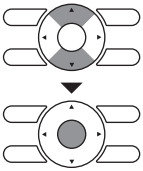
■ Auto Display Off

Operation

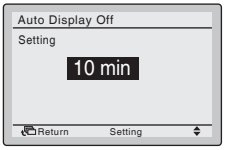
1



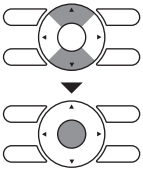
- Display the Energy Saving Options screen. (Refer to page 34.)
- Press "▼▲" buttons to select **Auto Display Off**. Press Menu/Enter button to display the Auto Display Off screen.



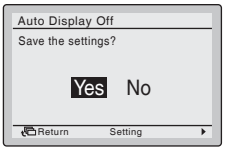
2



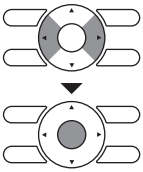
- Press "▼▲" buttons to set the Auto Display Off from **10 min**, **30 min**, **60 min** or **OFF**. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



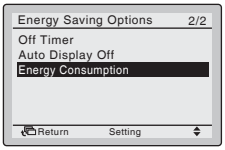
- Press "◀▶" button to select **Yes**. Press Menu/Enter button to confirm the settings and return to the Basic screen.



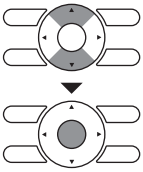
■Energy Consumption

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

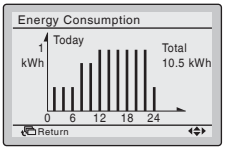
1

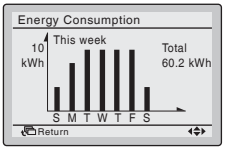


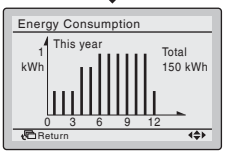
- Display the Energy Saving Options screen (Refer to page 34).
- Press "▼▲" buttons to select **Energy Consumption**.
  Press Menu/Enter button to display the Energy Consumption screen.



2

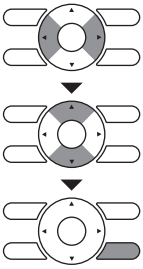






- Press "◀▶" buttons to move the indicating screen.
  Today > Yesterday > This week (1 week) > Last week (1 week) > This year (1 year) > Last year
  Change the items and values located in the upper right of the indication area using "▼▲" buttons.

  Press Cancel button to return to the previous screen.

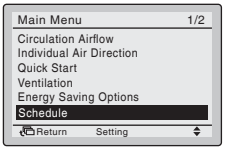


Schedule

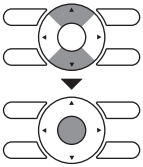
■Display Method for Schedule Screen

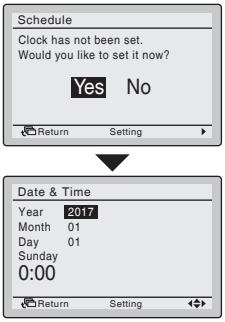
Operation The Schedule cannot be enabled when a centralized control equipment is connected.

1

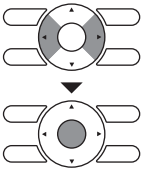


- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Schedule**. Press Menu/Enter button to display the Schedule screen.

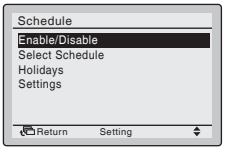




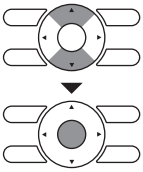
- Before setting the schedule, the clock must be set.
- If the clock has not been set, a screen like the one on the left will appear. Press "◀▶" buttons to select **Yes** and press Menu/Enter button.
- The Date & Time screen will appear.
- Set the current Year, Month, Day, and Time. (Refer to "Clock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



2



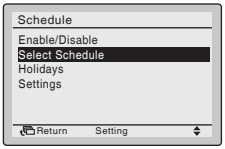
- Press "▼▲" buttons to select the desired item on the Schedule screen and press Menu/Enter button.



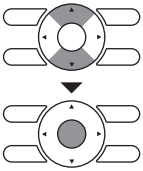
■Select Schedule

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

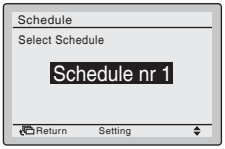
1



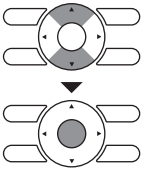
- Display the Schedule screen. (Refer to page 43.)
- Press "▼▲" buttons to select **Schedule nr set**. Press Menu/Enter button to display the Schedule nr set screen.



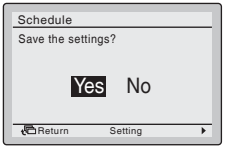
2



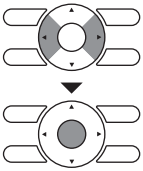
- Press "▼▲" buttons to select **Schedule nr 1**, **Schedule nr 2**, or **Schedule nr 3**.
  Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.



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.

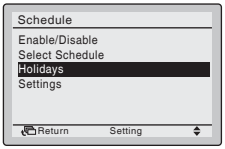


■Holidays

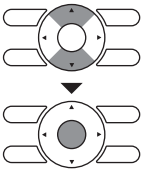
(The schedule timer will be disabled for days that have been set as holiday.)

Operation

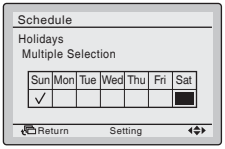
1



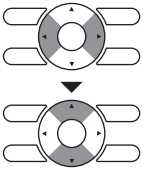
- Display the Schedule screen. (Refer to page 43.)
- Press "▼▲" buttons to select **Holidays**.
  Press Menu/Enter button to display the Holiday setting screen.



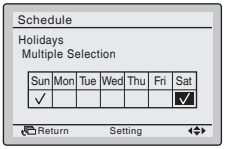
2



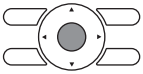
- Press "◀▶" buttons to select the desired day.
  Press "▼▲" buttons to display "✓" to make the holiday settings.
  Press "▼▲" buttons to switch the setting between set and release.
  Multiple days can be selected as holidays.
  Note: To enable the schedule timer for the day selected as a holiday, the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



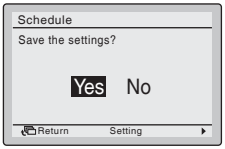
3



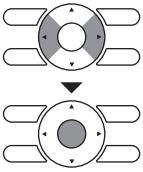
- To complete the holiday settings, press Menu/Enter button.
  The confirmation screen will appear.

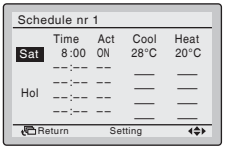


4



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





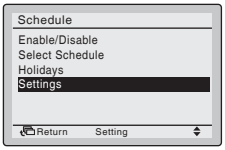
Note:

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

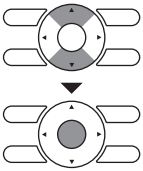
■Schedule Settings

Operation

1

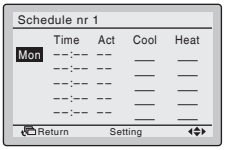


- Display the Schedule screen. (Refer to page 43.)
- Press "▼▲" buttons to select **Settings**. Press Menu/Enter button to display the Schedule screen.

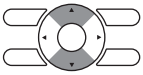


NOTE: The Schedule Settings of the selected schedule number can be changed. To change the schedule number refer to "Schedule Nr Set" on page 44.

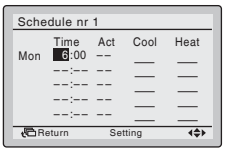
2

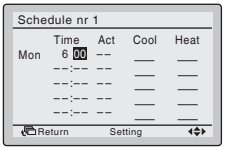


- Press "▼▲" buttons to select the day of the week to be set.

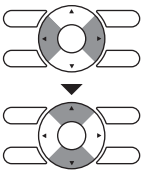


3

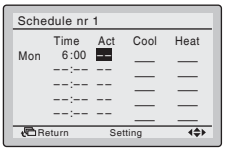


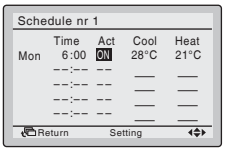


- Set the time for the selected day.
- Press "◀▶" buttons to move the highlighted item and press "▼▲" buttons to set the desired time. Each press of "▼▲" buttons moves the numbers by 1 hour or 1 minute.



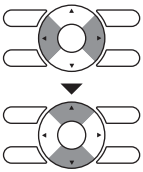
4

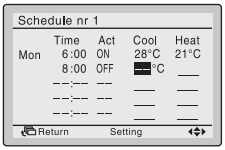




- Press the "◀▶" buttons to move the highlighted item and press "▼▲" buttons to configure ON/OFF/-- settings.
  --, ON, or OFF changes in sequence when "▼▲" buttons are pressed.

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





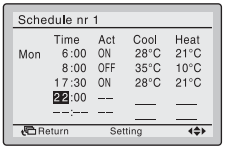
- The cooling and heating set temperature for both ON and OFF (Setback) are configured.

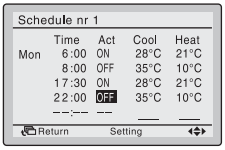
"Cool" and "Heat" column:

"__": 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.

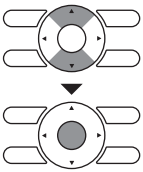
5

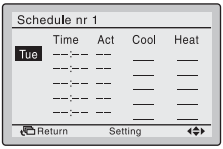


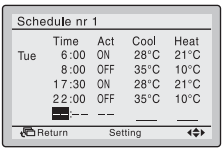


A maximum of 5 actions per day can be set.

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

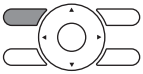




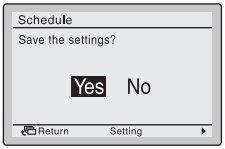


Note:

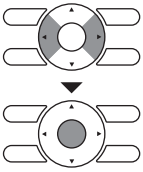
- To copy the settings for the previous day, press the Mode Selector button so that the existing settings will be copied.
  Example: The contents for Monday are copied by pressing the Mode Selector button after selecting Tuesday.



6



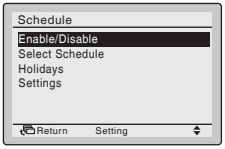
- Press "◀▶" buttons to select **Yes**.
  Press the Menu/Enter button to confirm the settings for each day and return to the Basic screen.



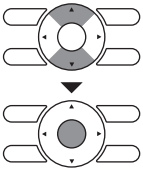
Enabling or disabling the schedule

Operation

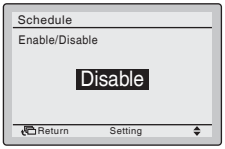
1



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

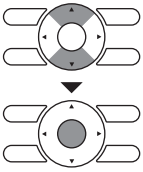


2

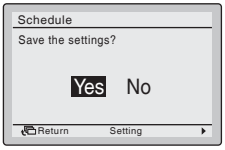


- Press "▼▲" buttons to select **Enable** or **Disable** on the Enable/Disable screen. Press Menu/Enter button after selecting the item. The confirmation screen will appear.

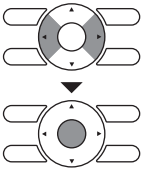
NOTE: The Schedule number selected is Enabled. To change the Schedule number see "Schedule Nr Set" on page 44.



3



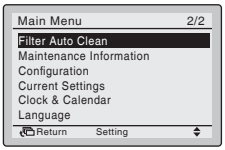
- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the Enable/Disable setting for the schedule and return to the Basic screen.



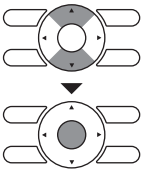
Filter Auto Clean

Operation

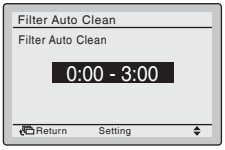
1



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



2



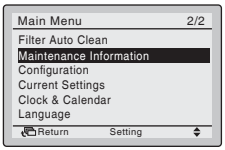
- Filter Auto Clean time zone setting can be set.
- This function is available only on the model whose panel has Filter Auto Clean function.
- For detailed operation, refer to the operation manual of these models.

Maintenance Information

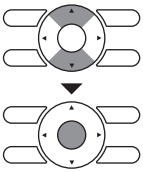
■Display Method for Maintenance Information

Operation

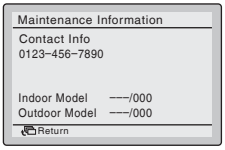
1



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



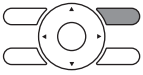
2



- 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.

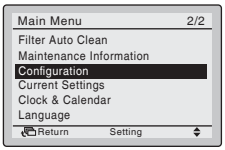


Configuration

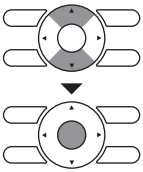
■Display Method for Configuration Screen

Operation

1



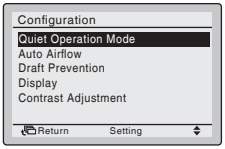
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Configuration**. Press Menu/Enter button to display the Configuration screen.



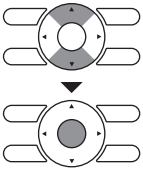
■Quiet Operation Mode <Outdoor unit> (SkyAir only)

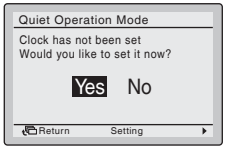
Operation

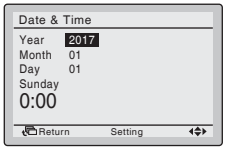
1



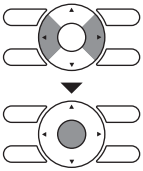
- Display the Configuration screen. (Refer to above.)
- Press "▼▲" buttons to select **Quiet Operation Mode**. Press Menu/Enter button to display the Quiet Operation Mode screen.



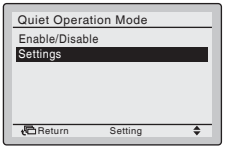




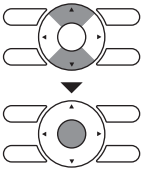
- Before setting the Quiet Operation Mode, the clock must be set.
- If the clock has not been set, a screen like the one on the left will appear. Press "◀▶" buttons to select **Yes** and press Menu/Enter button
- The Date & Time screen will appear.
- Set the current Year, Month, Day and Time. (Refer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



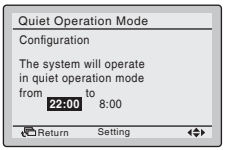
2



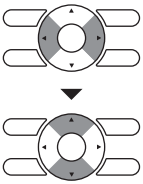
- Press "▼▲" buttons to select **Settings**. Press Menu/Enter button to display the Quiet Operation Mode screen.



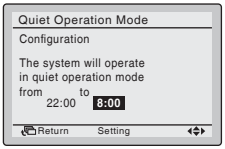
3



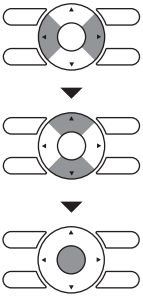
- Press "◀▶" buttons to select the Start time or Finish time.
  Press "▼▲" buttons to set the Start time, can set by unit of 30 minutes.
  If continue pressing, it will change continuously.



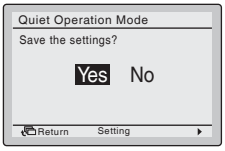
4



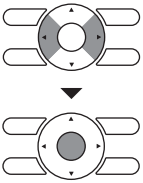
- Press "◀▶" buttons to select the Finish time.
  Press "▼▲" buttons to set the Finish time, can set by unit of 30 minutes.
  If continue pressing, it will change continuously.
- Press Menu/Enter button after selecting the item.
  The confirmation screen will appear.



5



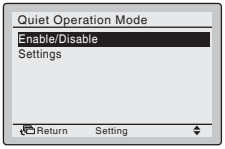
- Press "◀▶" buttons to select **Yes**.
  Press the Menu/Enter button to confirm the Quiet Operation Mode settings and return to the Basic screen.



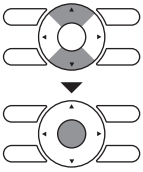
Enabling or disabling the Quiet Operation Mode

Operation

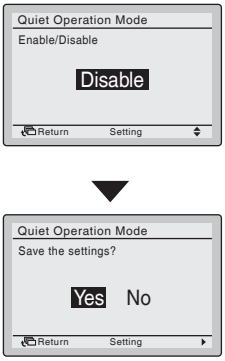
1



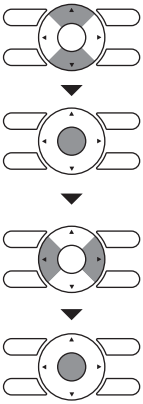
- Display the Quiet Operation Mode screen. (Refer to page 51.)
- Press "▼▲" buttons to select **Enable/Disable**. Press Menu/Enter button to display the Enable/Disable screen.



2



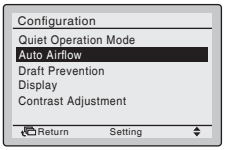
- Press "▼▲" buttons to select **Enable** or **Disable** on the Enable/Disable screen. Press Menu/Enter button after selecting the item. The confirmation screen will appear.
- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the Enable/Disable setting for the Quiet Operation Mode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



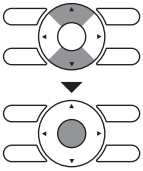
■Auto Airflow
Cool and Heat Condition setting method

Operation Menu will be displayed only corresponded model.

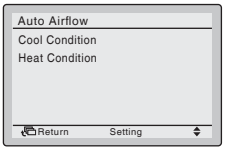
1



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

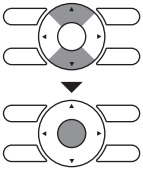


2

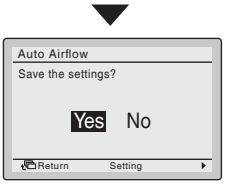


- Press "▼▲" buttons to select **Cool Condition**.
  Press Menu/Enter button to display the Condition Setting screen.

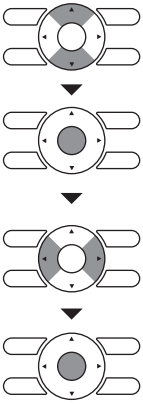
  * In case of heating, select the Heat Condition



3



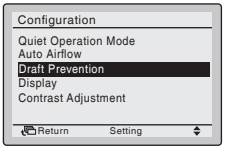
- Press "▼▲" buttons to select **OFF**, **Draft Prevention** or **Direct Air**.
  Press Menu/Enter button after selecting the item. The confirmation screen will appear.
- Press "◀▶" buttons to select **Yes**.
  Press Menu/Enter button to confirm the enable/disable setting for the Auto Airflow and return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



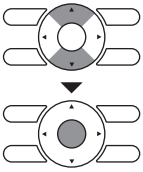
■Draft Prevention

Operation

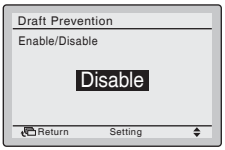
1



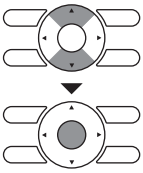
- Display the Configuration screen. (Refer to page 51.)
- Press "▼▲" buttons to select **Draft Prevention**. Press Menu/Enter button to display the Draft Prevention screen.



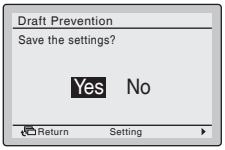
2



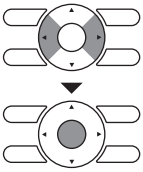
- Press "▼▲" buttons to select **Enable** or **Disable**. Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



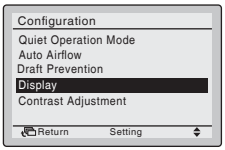
- Press "◀▶" buttons to select **Yes**. Press Menu/Enter button to confirm the Enable/ Disable setting for the Draft Prevention and return to the Basic screen.



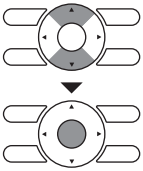
■Display
Display Mode

Operation

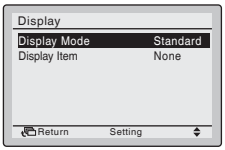
1



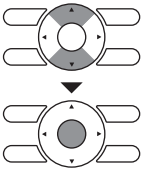
- Display the Configuration screen. (Refer to page 51.)
- Press "▼▲" buttons to select **Display**. Press Menu/Enter button to display the Display screen.



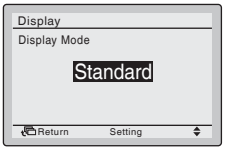
2



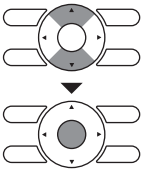
- Press "▼▲" buttons to select **Display Mode**. Press Menu/Enter button to display the Display Mode screen.



3



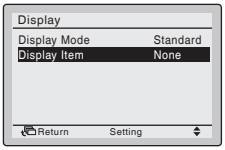
- Press "▼▲" buttons to select **Standard** or **Detailed**.
- Then, press Menu/Enter button to confirm settings and return to the Basic screen.



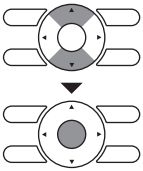
Setting the detailed display item selection

Operation

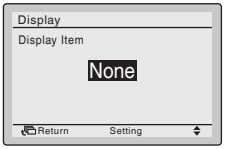
1



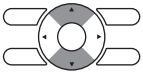
- Display the Display screen. (Refer to page 56.)
- Press "▼▲" buttons to select **Display Item**. Press Menu/Enter button to display the Display Item screen.



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.

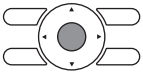
Room Temp

..... 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.

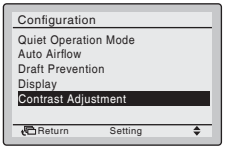
- After setting, press Menu/Enter button to confirm settings and return to the Basic screen.



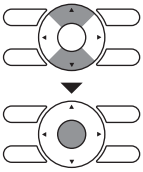
■Contrast Adjustment

Operation

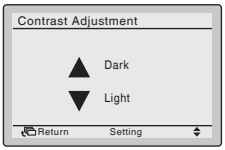
1



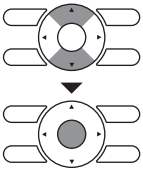
- Display the Configuration screen. (Refer to page 51.)
- Press "▼▲" buttons to select **Contrast Adjustment**.
  Press Menu/Enter button to display the Contrast Adjustment screen.



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.

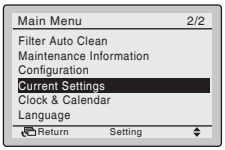


Current Settings

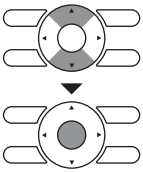
■Manipulating the Current Settings

Operation

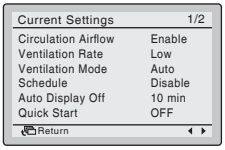
1



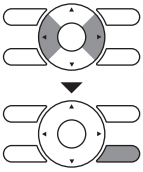
- Display the Main Menu screen. (See page 25.)
- Press "▼▲" buttons to select **Current Settings** and press Menu/Enter button.



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

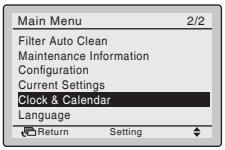
* Display items may differ depending on the model. Only the items that can be set are displayed.

Clock & Calendar

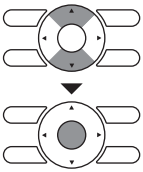
■Display Method for Clock & Calendar Screen

Operation

1



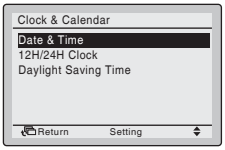
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Clock & Calendar**. Press Menu/Enter button to display the Clock & Calendar screen.



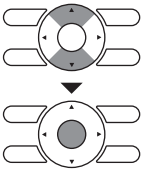
■Date & time

Operation

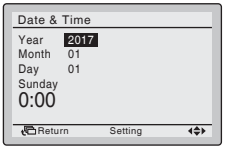
1



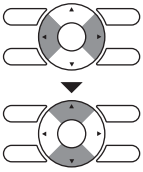
- Display the Clock & Calendar screen. (Refer to above.)
- Press "▼▲" buttons to select **Date & Time**. Press Menu/Enter button to display the Date & Time screen.



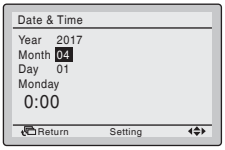
2



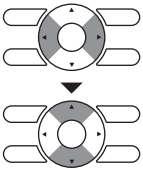
- Select "Year" with "◀▶" buttons. Change the year with "▼▲" buttons. Holding down the button causes the number to change continuously.



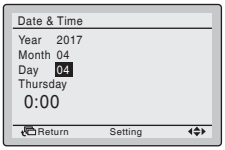
3



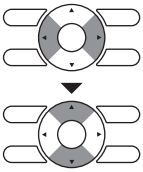
- Select "Month" with "◀▶" buttons. Change the month with "▼▲" buttons. Holding down the button causes the number to change continuously.



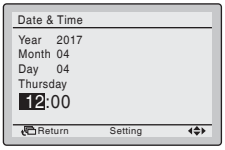
4



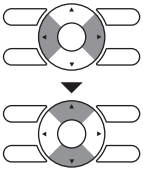
- Select “Day” with “◀▶” buttons.
  Change the day with “▼▲” buttons.
  Holding down the button causes the number to change continuously.
  Days of the week change automatically.



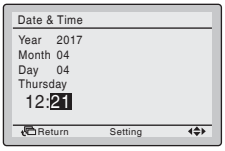
5



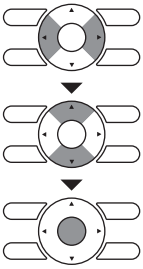
- Select “Hour” with “◀▶” buttons.
  Change the hour with “▼▲” buttons.
  Holding down the button causes the number to change continuously.



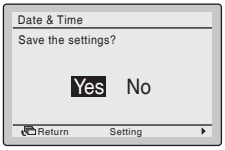
6



- 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.

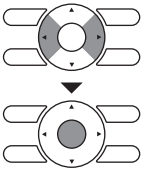


7



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

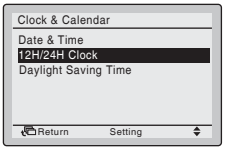
  * When setting the schedule, the display returns to the Schedule screen.



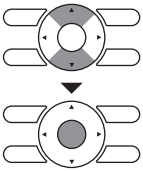
■12H/24H Clock

Operation

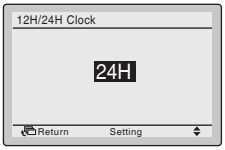
1



- 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.

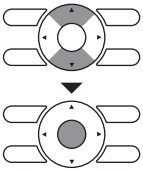


2

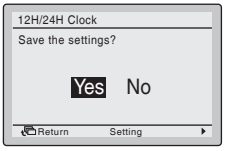


By default, the time display is set to the 24H format.

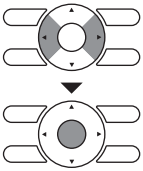
- Press "▼▲" buttons to select **12H** or **24H**.
- Press Menu/Enter button after selecting the item. The confirmation screen will appear.



3



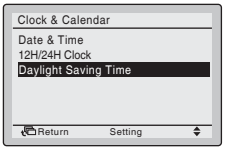
- Press "◀▶" buttons to select **Yes**. Press the Menu/Enter button to confirm the 12H or 24H and return to the Basic screen.



■Daylight Saving Time

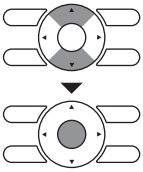
Operation

1



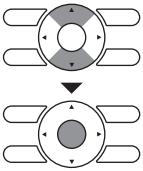
- Display the Clock & Calendar screen. (Refer to page 60.)
- Press "▼▲" buttons to select **Daylight Saving Time** .

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

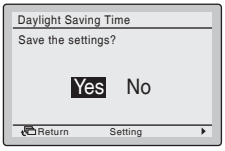


2

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

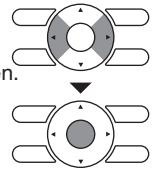


3



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

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

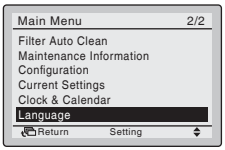


Language

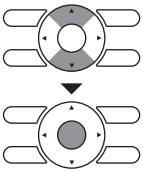
■Selectable Languages

Operation

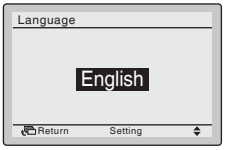
1



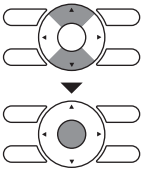
- Display the Main Menu screen. (Refer to page 25.)
- Press "▼▲" buttons to select **Language** and press the Menu/Enter button.



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.

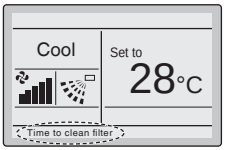


Maintenance

Reset Filter Indicator

Operation

1

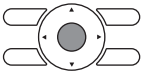


- When the time to clean the filter or element has come, one of the following messages will appear on the bottom of the Basic screen.
  "Time to clean filter"
  "Time to clean filter & element"
  "Time to clean element"

- 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.



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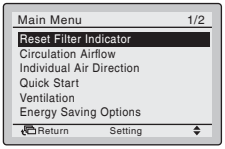
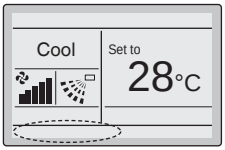
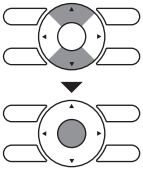




- Press "▼▲" buttons to select **Reset Filter Indicator** and press Menu/Enter button.



- 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

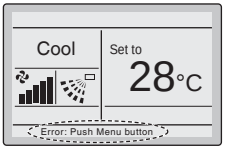
■Contact Your Dealer in the Following Cases

⚠ 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

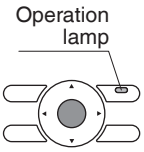


- If a malfunction occurs, either one of the following messages will appear on the Basic screen during operation.

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

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

- Press Menu/Enter button.



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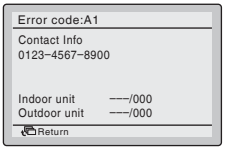


- The Error code blinks and the contact address and model name will appear.
- Notify your local dealer of the Error code and Model name.

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

DAIKIN

The best air anywhere.

DAIKIN AIRBASE

CONTROL AT YOUR FINGERTIPS

Daikin Airbase[1] puts your system's frequently used functions at your fingertips with an easy to use app.

In conjunction with Daikin's BRP15B61 wireless LAN adaptor, the Airbase app lets you use your smartphone or tablet[2] to operate your air conditioning unit via your in-home Wi-Fi or remotely with an internet connection.

Up to 10 systems[3] can be conveniently monitored and controlled on the app anywhere, anytime.

THREE WAYS TO CONNECT

1. DIRECT CONNECTION

For locations without a Wi-Fi network, the app can wirelessly connect directly to a WLAN adaptor equipped air conditioner, when in range.

2. WI-FI CONNECTION

A WLAN adaptor equipped air conditioner can easily be joined to a local Wi-Fi network. Once connected, the system can be controlled from any networked Android or iOS device.

3. INTERNET CONNECTION

Monitor and control your system from virtually anywhere, adjusting temperature and setting for a comfortable environment ready for when you arrive home. With no subscription costs from Daikin, all you need is a permanent internet connection for your Wi-Fi network, and an internet connection for your phone or tablet.

1 Airbase is compatible with SkyAir systems and VRV ducted models only
2 Only compatible with Android (≥ 5.0) & iOS (≥ 8.0) devices
3 Each ducted system requires a BRP15B61 adaptor and must be connected on the same Wi-Fi network

FEATURES

MODEL TYPE	DUCTED	DUCTED WITH ZONE CONTROLLER*	WALL MOUNTED CASSETTE CEILING SUSPENDED
COMPATIBLE MODELS	FDYQ(N)-D(L) FBA-B(A) FXDQ-P(N)D FXDQ-T^ FXDYQ-MA FXSQ-PA FXMQ-P(A)	FDYQ(N)-D(L) FBA-B(A)	FCA-C(A)# FFA-A2# FHA-B(A) FAA-B(A)
FUNCTION			
Start/Stop Operation	✓	✓	✓
Temperature Setting	✓	✓	✓
Fan Speed Settings	✓	✓	✓
Mode Selection (Cool/Heat/Fan/Dry)	✓	✓	✓
Zone On/Off	×	✓	×
Airflow Direction	×	×	✓
24 Hour On/Off Timer	✓	✓	✓
Enter Zone Names	×	✓	×
Error Notification	✓	✓	✓
Room Temperature Display	✓	✓	✓
Filter Clean Reminder	✓	✓	✓
Push Notification (On/Off Alerts)	✓	✓	✓
Automatic Adaptor Firmware Update	✓	✓	✓
Setup Wizard in App	✓	✓	✓

^ Not compatible with FXDQ-TV1BA model, 3D Auto Swing Discharge Grille or Auto Clean Air Filter Module
* Refers to BRC24(230)Z4(8)A
# Individual flap control is not available

Download on the App Store
GETIT ON Google Play

For more information, call **1300 368 300**
or visit **daikin.com.au**

Stay Connected!

SECTION 6.D – AIR DISTIBUTION

RAYFLOW™ grilles and diffusers

AIR ADDITIONS Adding Innovation to Air Movement

Bar Grille Removable Core

Technical Specification Sheet
Bar Grille Removable Core Range of Products

Features

- Used for supply or return air
- Ceiling, wall or floor mounted
- Aluminium construction
- Powdercoat finish
- Standard colour is white
- Available in fixed core
- Available in 30 degree deflection
- Available in flangeless (I Frame)

Stock Sizes

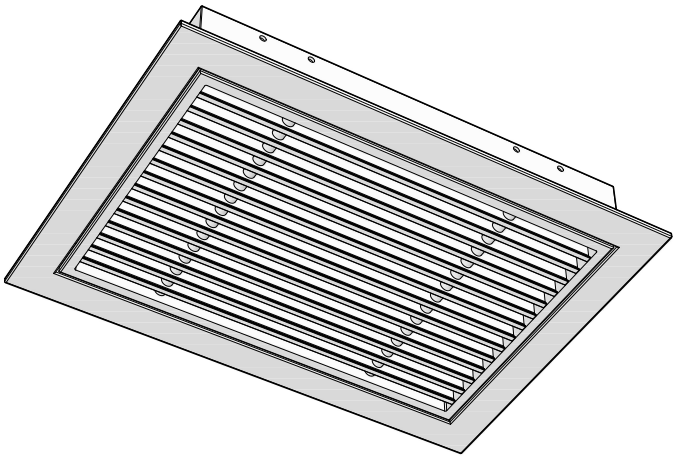
BGRC003515 (350 x 150)
BGRC004010 (400 x 100)
BGRC004015 (400 x 150)
BGRC006010 (600 x 100)
BGRC006015 (600 x 150)
BGRC008010 (800 x 100)

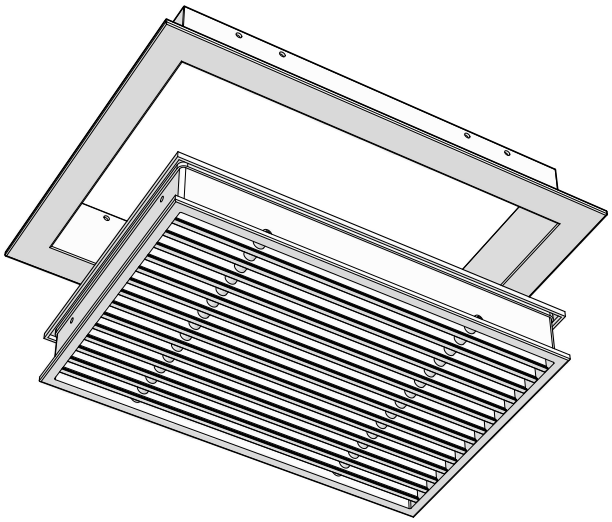
Explanation of Part Number Structure

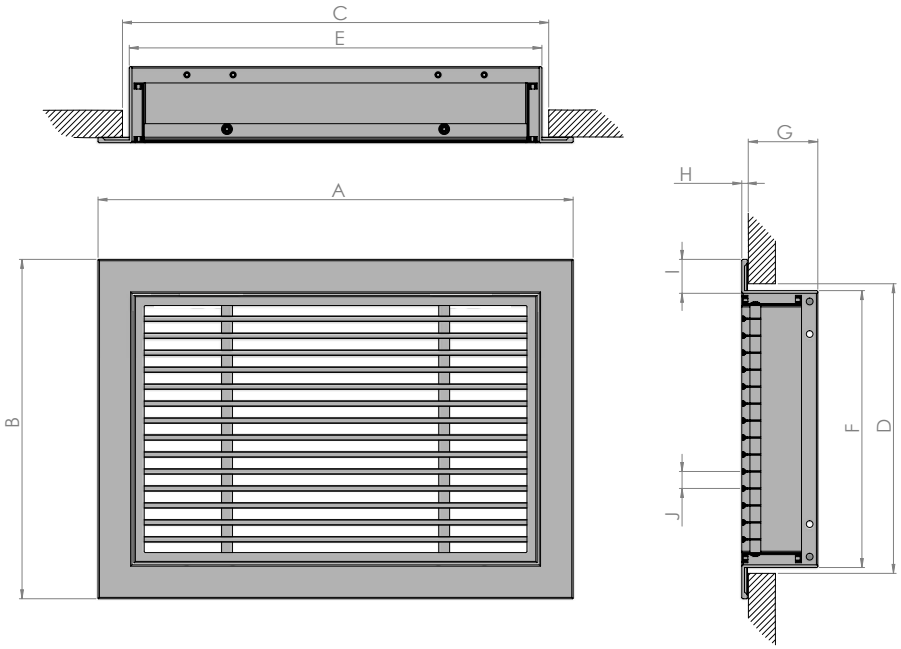
Product Group	Product Type		Size (A x B)
Bar Grille	Removable Core	0 Degree Deflection	350mm x 150mm
BG	RC	00	3515
BGRC003515			

RAYFLOW™ grilles and diffusers

AIR ADDITIONS Adding Innovation to Air Movement







Product Dimensions

	FACE		NOMINAL NECK		EXACT NECK		PENETRATION DEPTH	FLANGE THICKNESS	FLANGE	PITCH
PART NO.	A	B	C	D	E	F	G	H	I	J
BGRC003515	391	192	350	150	345	145	54	4	25	13
BGRC004010	442	142	400	100	395	95	54	4	25	13
BGRC004015	442	192	400	150	395	145	54	4	25	13
BGRC006010	642	142	600	100	595	95	54	4	25	13
BGRC006015	642	192	600	150	595	145	54	4	25	13
BGRC008010	842	142	800	100	795	95	54	4	25	13

Drawing dimensions in millimetres

**Note: Pitch dimensions are for standard product with 12mm spacings between blades. Product is also available upon request with 6mm spacings (7mm pitch) & 15mm spacings (16mm pitch).*

RAYFLOW™ grilles and diffusers

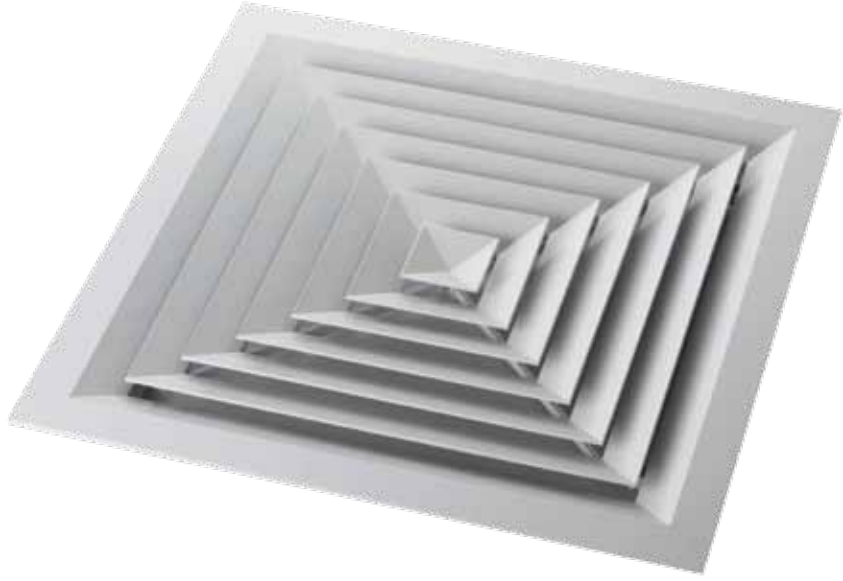
AIR ADDITIONS Adding Innovation to Air Movement

Ceiling Diffuser Flat Face

Technical Specification Sheet
Ceiling Diffuser Flat Face Range of Products

Features

- Used for heating & cooling air distribution
- Ceiling mounted
- All aluminium construction
- Powdercoat finish
- Standard colour is white
- Removable core to aid in installation & cleaning
- Complete with safety cable



Stock Sizes

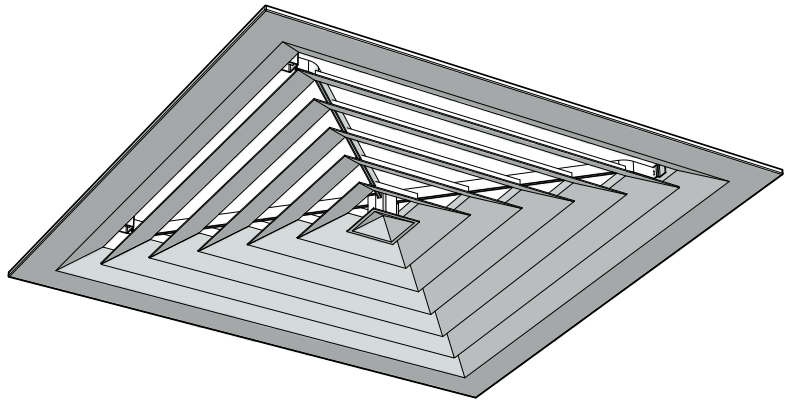
CDFF4W150 (150 neck/300 face)
CDFF4W225 (225 neck/375 face)
CDFF4W300 (300 neck/450 face)
CDFF4W375 (375 neck/525 face)
CDFF4W450 (450 neck/595 face)

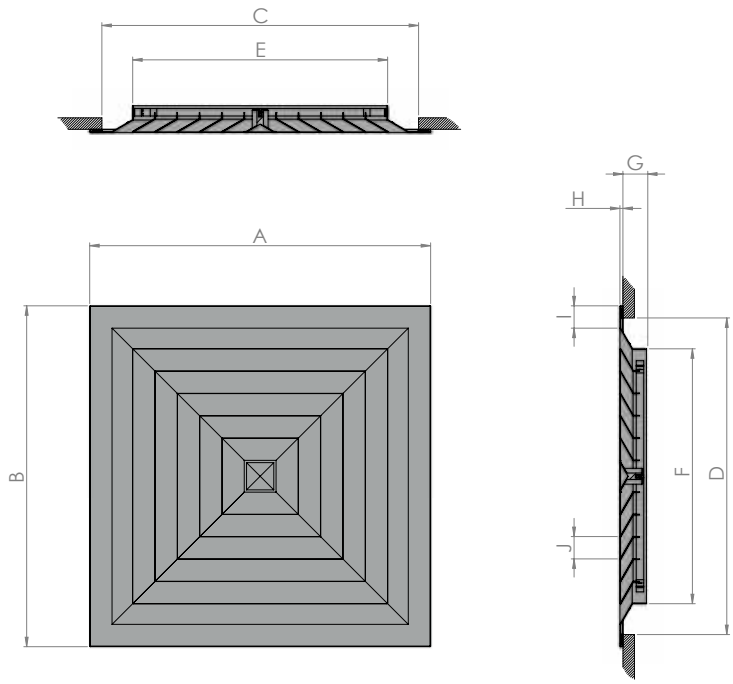
Explanation of Part Number Structure

Product Group	Product Type		Size (A x B)
Ceiling Diffuser	Flat Face	4 Way Blow Pattern	150 x 150mm
CD	FF	4W	150
CDFF4W150			

RAYFLOW™ grilles and diffusers

AIR ADDITIONS Adding Innovation to Air Movement





Product Dimensions

	FACE		NOMINAL NECK		EXACT NECK		PENETRATION DEPTH	FLANGE THICKNESS	FLANGE	PITCH
PART NO.	A	B	C	D	E	F	G	H	I	J
CDFF4W150	293	293	230	230	145	145	43	5.3	38	36
CDFF4W225	368	368	300	300	220	220	43	5.3	38	36
CDFF4W300	443	443	380	380	295	295	43	5.3	38	36
CDFF4W375	518	518	450	450	370	370	43	5.3	38	36
CDFF4W450	596	596	530	530	445	445	43	5.3	38	36

Drawing dimensions in millimetres

RAYFLOW™ grilles and diffusers

AIR ADDITIONS Adding Innovation to Air Movement

Door Grille

Technical Specification Sheet
Door Grille Range of Products

Features

- Used for relief air
- Door mounted
- Aluminium construction
- Standard finish is natural anodised
- Other colours available upon request
- Suits door thicknesses 32 to 45mm
- Screw-less fixing for aesthetically pleasing appearance
- Available in vandal proof (made to order)

Stock Sizes

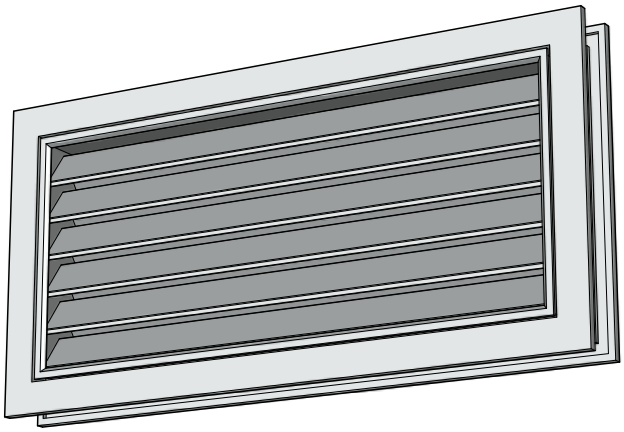
DG3015 (300 x 150)
DG6015 (600 x 150)
DG6020 (600 x 200)
DG6025 (600 x 250)
DG6030 (600 x 300)
DG6040 (600 x 400)
DG6045 (600 x 450)
DG6060 (600 x 600)

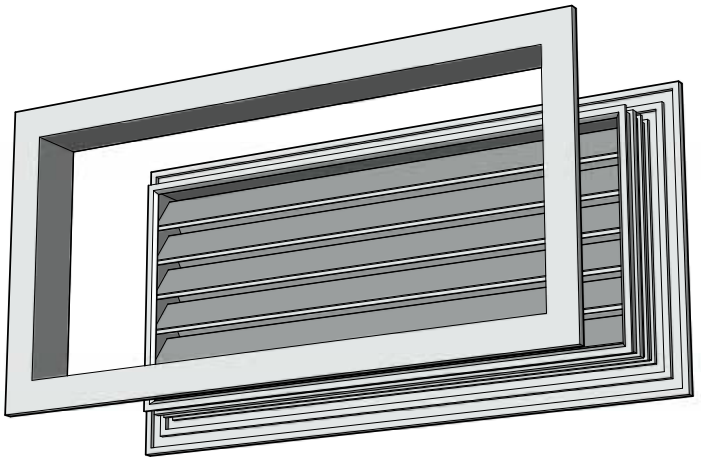
Explanation of Part Number Structure

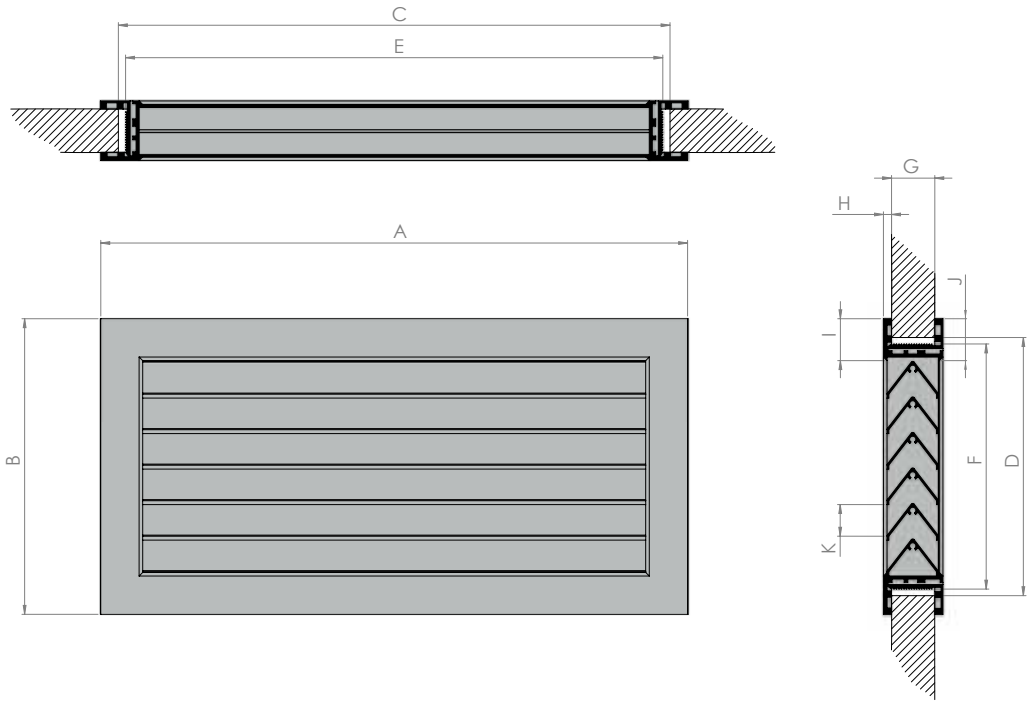
Product Group	Size (A x B)
Door Grille	300mm x 150mm
DG	3015
DG3015	

RAYFLOW™ grilles and diffusers

AIR ADDITIONS Adding Innovation to Air Movement







Product Dimensions

	FACE		NOMINAL NECK		EXACT NECK		DOOR THICKNESS	FRONT FLANGE	BACK FLANGE	PITCH
PART NO.	A	B	C	D	E	F	G	H	I	J
DG3015	323	172	300	150	285	135	30 - 40	22.5	20	20
DG6015	623	172	600	150	585	135	30 - 40	22.5	20	20
DG6020	623	223	600	200	585	185	30 - 40	22.5	20	20
DG6025	623	272	600	250	585	235	30 - 40	22.5	20	20
DG6030	623	323	600	300	585	285	30 - 40	22.5	20	20
DG6040	623	423	600	400	585	385	30 - 40	22.5	20	20
DG6045	623	472	600	450	585	435	30 - 40	22.5	20	20
DG6060	623	623	600	600	585	585	30 - 40	22.5	20	20

Drawing dimensions in millimetres

RAYFLOW grilles and diffusers

AIR ADDITIONS Adding Innovation to Air Movement

Egg Crate Grille Fixed Core

Technical Specification Sheet
Egg Crate Grilles Fixed Core Range of Products

Features

- Used for return air
- Ceiling and wall mounted
- Aluminium construction
- Powdercoat finish
- Standard colour is white
- 10 stock sizes
- Other sizes available upon request*
- Available loose and removable core
- Neck adapter available to suit in various sizes

Stock Sizes*

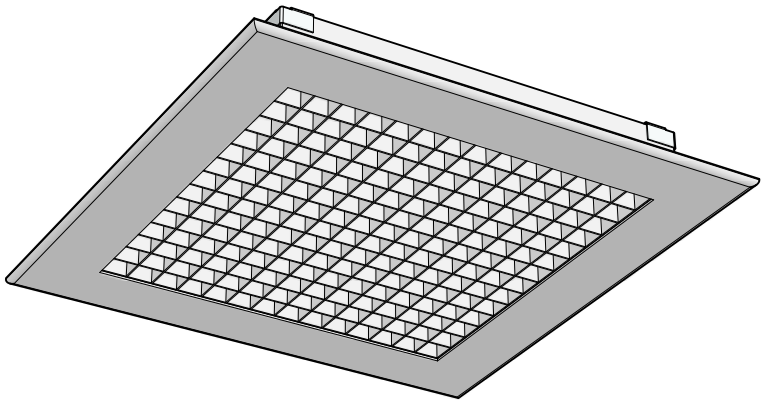
ECGFC1515 (150 x 150)
ECGFC2020 (200 x 200)
ECGFC2525 (250 x 250)
ECGFC3030 (300 x 300)
ECGFC3535 (350 x 350)
ECGFC4040 (400 x 400)
ECGFC5929 (595 x 295)
ECGFC5959 (595 x 595)
ECGFC6060 (600 x 600)
ECGFC1159 (1195 x 595)

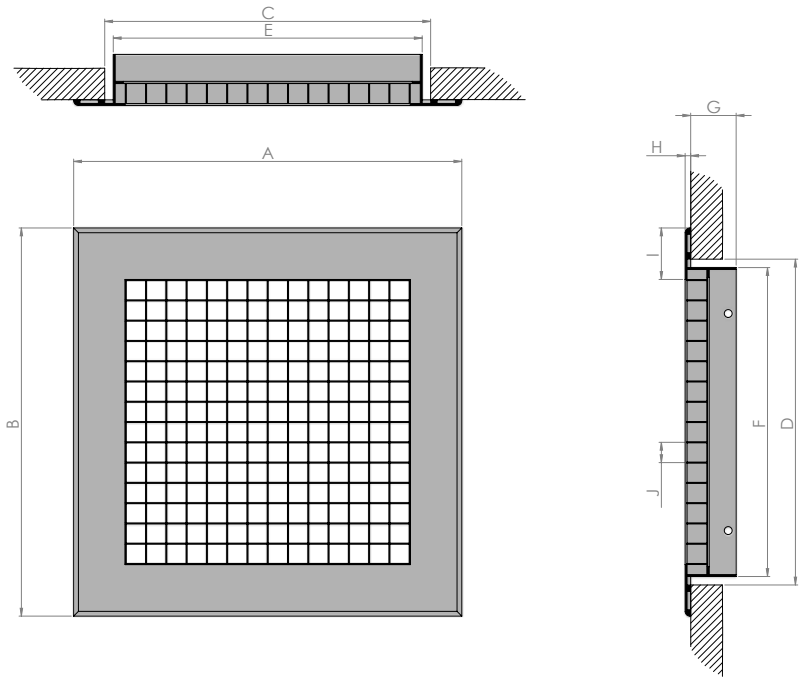
Explanation of Part Number Structure

Product Group	Product Type	Size (A x B)
Egg Crate Grille	Fixed Core	150mm x 150mm
ECG	FC	1515
ECGFC1515		

RAYFLOW™ grilles and diffusers

AIR ADDITIONS Adding Innovation to Air Movement





Product Dimensions

	FACE		NOMINAL NECK		EXACT NECK		PENETRATION DEPTH	FLANGE THICKNESS	FLANGE	PITCH
PART NO.	A	B	C	D	E	F	G	H	I	J
ECGFC1515	193	193	150	150	145	145	28	4	30	12.7
ECGFC2020	243	243	200	200	195	195	28	4	30	12.7
ECGFC2525	293	293	250	250	245	245	28	4	30	12.7
ECGFC3030	343	343	300	300	295	295	28	4	30	12.7
ECGFC3535	393	393	350	350	345	345	28	4	30	12.7
ECGFC4040	443	443	400	400	395	395	28	4	30	12.7
ECGFC5929	595	295	552	252	547	247	28	4	30	12.7
ECGFC5959	595	595	552	552	547	547	28	4	30	12.7
ECGFC6060	643	643	600	600	595	595	28	4	30	12.7
ECGFC1159	1195	595	1152	552	1147	547	28	4	30	12.7

Drawing dimensions in millimetres

RAYFLOW™ grilles and diffusers

AIR ADDITIONS Adding Innovation to Air Movement

Half Chevron Removable Core with Filter

Technical Specification Sheet
Half Chevron Removable Core with Filter Range of Products

Features

- Used for return air
- Ceiling and wall mounted
- Aluminium construction
- Powdercoat finish
- Standard colour is white
- Other colours available upon request
- 10 stock sizes
- Other sizes available upon request*
- Removable core/filter to aid in installation and cleaning

Stock Sizes*

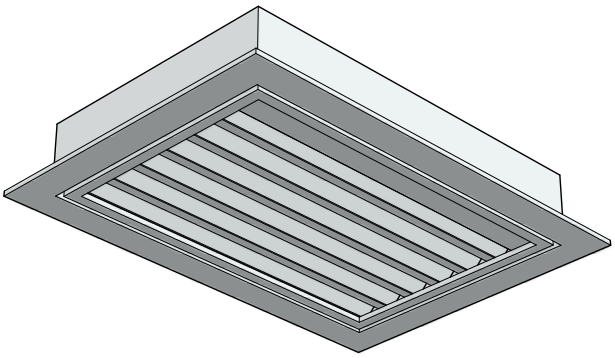
HCRCF4040 (400 x 400)
HCRCF4050 (400 x 500)
HCRCF4060 (400 x 600)
HCRCF4075 (400 x 750)
HCRCF4090 (400 x 900)
HCRCF6060 (600 x 600)
HCRCF6075 (600 x 750)
HCRCF6090 (600 x 900)
HCRCF6012 (600 x 1200)
HCRCF5959 (595 x 595)

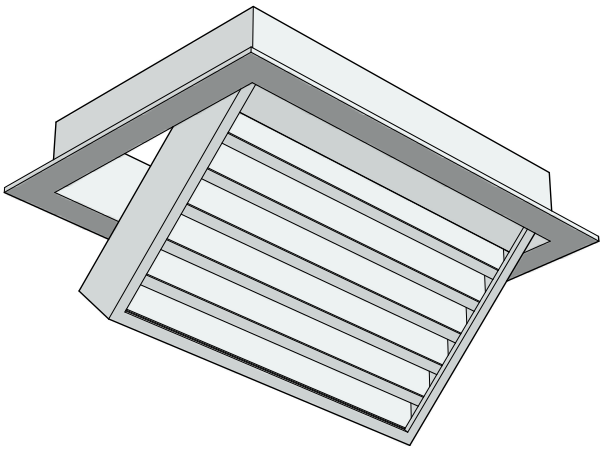
Explanation of Part Number Structure

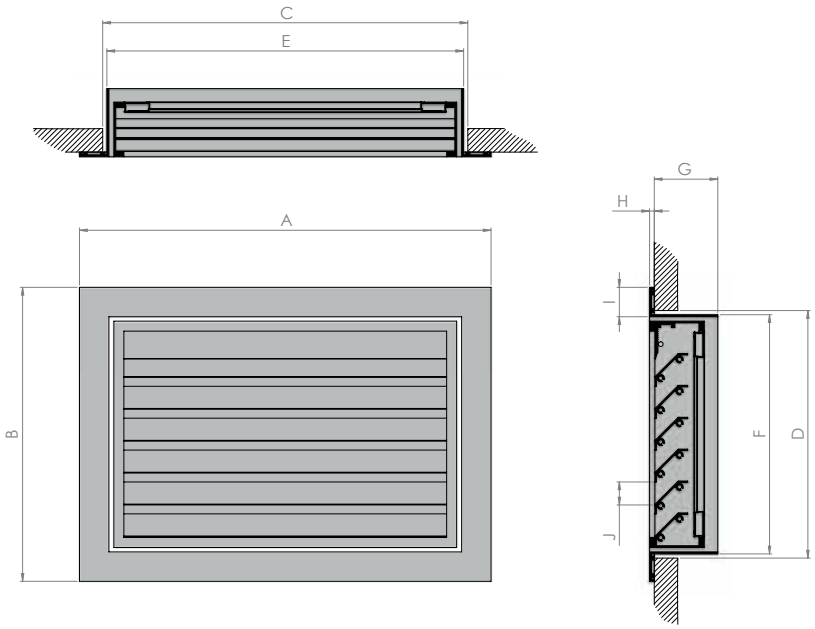
Product Group	Product Type		Size (A x B)
Half Chevron	Removable Core	Filtered	400mm x 400mm
HC	RC	F	4040
HCRCF4040			

RAYFLOW™ grilles and diffusers

AIR ADDITIONS Adding Innovation to Air Movement







Product Dimensions

	FACE		NOMINAL NECK		EXACT NECK		PENETRATION DEPTH	FLANGE THICKNESS	FLANGE	PITCH
PART NO.	A	B	C	D	E	F	G	H	I	J
HCRCF4040	442	442	400	400	395	395	54	4	25	27
HCRCF4050	442	542	400	500	395	495	54	4	25	27
HCRCF4060	442	642	400	600	395	595	54	4	25	27
HCRCF4075	442	792	400	750	395	745	54	4	25	27
HCRCF4090	442	942	400	900	395	895	54	4	25	27
HCRCF6060	642	642	600	600	595	595	54	4	25	27
HCRCF6075	642	792	600	750	595	745	54	4	25	27
HCRCF6090	642	942	600	900	595	895	54	4	25	27
HCRCF6012	642	1242	600	1200	595	1195	54	4	25	27
HCRCF5959	595	595	553	553	548	548	54	4	25	27

Drawing dimensions in millimetres

SECTION 7 – OPERATION

APARTMENTS

Air Conditioning

Each apartment has either one Ducted fan coil unit or a VRV system with 2 Fan coil units. Each fan coil unit will be controlled by a Daikin BRC1E63 controller as the user interface from this the on/off, mode fan etc. operation can be undertaken.
A full operations manual for controller is in Section 6.

Systems with 2 fan coils can only both heat or both cool at the one time.

Exhaust systems

Exhaust systems are interlocked with lighting for room so when bathroom lights are on Fans will operate.

CARPARK EXHASUT

A control system located in the MSSB in carpark controls the Carpark exhaust system for full operation of fans on CO sensor located in carpark. Fault indication is provided and if indication Arctic cold should be contacted.

Pump room exhaust systems are interlocked with Pump operation

SECTION 8 – WIRING DIAGRAMS

MSSB ESTIMATED
FLA - 20AMPS/PHASE

3 PHASE, NEUTRAL &
EARTH SUB-MAINS TO
MSSB BY OTHERS

MAIN ISOLATOR
63AMP

415VOLT

3 PHASE 100AMP COMB
BUSBAR - SCHNEIDER
A9XPH324

W.
C/B 10A

1

3

LV
C/B 10A

2

LVT-1
240V 24ACV
100VA

4

N

CARPARK EXHAUST FAN
EF-1

0.75KW
DANFOSS
FC 101
ISOLATOR
6A MCB
R.W.B.

CARPARK EXHAUST FAN
EF-1

0.75KW
DANFOSS
FC101
ISOLATOR
6A MCB
R.W.B.

415VOLT
1/240VAC
3/24VAC
4/0VAC
N

EF-1 RUN & FAULT STATUS
EF-2 RUN & FAULT STATUS
SAF-1 RUN & FAULT STATUS
EF-4 RUN & FAULT STATUS
EF-5 RUN & FAULT STATUS
PREF-1 RUN & FAULT STATUS
PRSF-1 RUN & FAULT STATUS

RR 1 · FR 1 · RR 2 · FR 2 · RR 3 · FR 3 · RR 4 · FR 4 · RR 5 · FR 5 · O/LOAD PREF-1 · O/LOAD PRSF-1

H708 H708

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

TO FIP - WIRING FROM
MSSB TERMINALS TO FIP BY OTHERS

TO FIP - WIRING FROM
MSSB TERMINALS TO FIP BY OTHERS

GENERAL FIRE ALARM RELAY · EF-1 START RELAY · EF-1 STOP RELAY · EF-2 START RELAY · EF-2 STOP RELAY · SAF-3 START RELAY · SAF-3 STOP RELAY · EF-4 START RELAY · EF-4 STOP RELAY · EF-5 START RELAY · EF-5 STOP RELAY · PREF-1 START RELAY · PREF-1 STOP RELAY · PRSF-1 START RELAY · PRSF-1 STOP RELAY

GFAR FAR1 FAR2 FAR3 FAR4 FAR5 FAR6 FAR7 FAR8 FAR9 FAR10 FAR11 FAR12 FAR13 FAR14

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

TO FIP - WIRING FROM
MSSB TERMINALS TO FIP BY OTHERS

TO FIP - WIRING FROM
MSSB TERMINALS TO FIP BY OTHERS

49 FAR2 R1 · FAR1 · FAR1

55 FAR4 R1 · FAR3 · FAR3

RR1 FR1 EF-1 FAULT RELAY EF-1 FAULT RELAY

RR2 FR2 EF-2 FAULT RELAY EF-2 FAULT RELAY

48 50 51 52 53 54 56 57 58 59

0-10VDC
FROM INNOTECH
CO CONTROLLER

12 15 17 01/04 02 05

DANFOSS FC101 VARIABLE SPEED DRIVE
CONTROL TERMINALS

53 55

VSD MOUNTED ADJACENT FAN

WIRING COLOUR CODE																
POWER WIRING	CONTROL WIRING	A	AMMETER	GFAR	GEN. FIRE ALARM RLY.	S	SWITCH	VT	VOLTAGE TRANSFORMER	HPT	HEATER PROTECTION T/STAT					
MINIMUM SIZE: 2.5mm²	MINIMUM SIZE: 1.5mm²	AHT	AFTER HOURS TIMER	HPR	HEAT PROTECT RELAY	SR	START RELAY			APS	AIR PRESSURE SWITCH					
A PHASE RED	LV ACTIVE WHITE	AMR	ALARM MUTE RELAY	HRM	HOUR RUN METER	TDR	TIME DELAY RELAY			RR	RUNRELAY					
B PHASE WHITE	LV NEUTRAL BLACK	AR	ALARM RELAY	KWH	KILOWATT HOUR METER	TR	TIMER RELAY			FR	FAULT RELAY					
C PHASE BLUE	ELV ACTIVE GREY	COR	CHANGE OVER RELAY	L	PILOT LAMP	TS	TIME SWITCH			CB	CIRCUIT BREAKER					
NEUTRAL BLACK	ELV NEUTRAL BROWN	CUR	CALL UP RELAY	LTR	LAMP TEST RELAY	TSR	TIME SWITCH RELAY			SSR	SOLID STATE RELAY					
EARTH GREEN/YELLOW	EARTH GREEN/YELLOW	FAR	FIRE ALARM RELAY	PFR	PHASE FAIL RELAY	TT	TRANSITION TIMER			H708	CURRENT SENSOR	A	A.S.	ORIGINAL FOR APPROVAL	13/7/21	
		FR	FAULT RELAY	RR	RUN RELAY	V	VOLTMETER		PHASE FAIL AUX RELAY	R	DDC RELAY	ISSUE	BY	AMENDMENTS	DATE	

Hallmont Electrical P.L.
ELECTRICAL ENGINEERS & CONTRACTORS
EWCB NO. : 87272

FIRST BAY, COOLUM
1674–1676 David Low Way, Coolum
MECHANICAL SERVICES: ELECTRICAL SCHEMATIC
MSSB–Car Park

DESIGN/DWN A.S.	CONTRACTOR Arctic Cold
CHECKED A.S	SCALE N.T.S.
PROJECT No E2085	SIZE A3 / SHEET OF
ACN 010644961	DRAWING NUMBER E2085–1

CARPARK SUPPLY FAN
SAF-1

3.3KW

DANFOSS
FC101

ISOLATOR

10A MCB
R.W.B.

CARPARK EXHAUST FAN
EF-4

0.75KW

DANFOSS
FC101

ISOLATOR

6A MCB
R.W.B.

CARPARK EXHAUST FAN
EF-5

0.75KW

DANFOSS
FC101

ISOLATOR

6A MCB
R.W.B.

FIRE PUMP ROON
EXHAUST FAN
PREF-1

0.55KW/1.4AMPS

ISOLATOR

OVERLOAD

PREF-1

10A MCB
6KA
R.W.B.

FIRE PUMP ROON
SUPPLY FAN
PRSF-1

0.55KW/1.4AMPS

ISOLATOR

OVERLOAD

PRSF-1

10A MCB
6KA
R.W.B.

GARBAGE ROOM
EXHAUST FAN
GREF-1

N

0.05KW/0.22AMPS

ISOLATOR

OVERLOAD

GREF-1

6A MCB
6KA
B.

415VOLT

415VOLT

1/240VAC

1/240VAC

3/24VAC

3/24VAC

GFAR

SR FAR11 80

SR FAR13 83

FAR12 81

FAR14 84

O/LOAD 82

O/LOAD 85

PREF-1

PRSF-1

DOL STARTER

DOL STARTER

O/LOAD 87

MSB-EF

DOL STARTER

61 FAR6 R2

FAR5

FAR5

RR3 SAF-1 FAULT RELAY

FR3 SAF-1 FAULT RELAY

67 FAR8 R2

FAR7

FAR7

RR4 EF-4 FAULT RELAY

FR4 EF-4 FAULT RELAY

73 FAR10 R2

FAR9

FAR9

RR5 EF-5 FAULT RELAY

FR5 EF-5 FAULT RELAY

SR PUMP ROOM START RELAY

4/0VAC

N

4/0VAC

N

60 62 63 64 65

59 60 61 51 62 63

12 15 17 01/04 02 05

53 55

DANFOSS FC101 VARIABLE SPEED DRIVE
CONTROL TERMINALS

VSD MOUNTED ADJACENT FAN

0-10VDC
FROM INNOTECH
CO CONTROLLER

66 68 69 70 71

64 65 66 51 67 68

12 15 17 01/04 02 05

53 55

DANFOSS FC101 VARIABLE SPEED DRIVE
CONTROL TERMINALS

VSD MOUNTED ADJACENT FAN

72 74 75 76 77

69 70 71 51 72 73

12 15 17 01/04 02 05

53 55

DANFOSS FC101 VARIABLE SPEED DRIVE
CONTROL TERMINALS

VSD MOUNTED ADJACENT FAN

78 79

74 75

LOCAL CONTROL PANEL
AND PUMP INTERLOCKS

78 86

74 76

LOCAL ELECTRIC
THERMOSTAT

WIRING COLOUR CODE		A	AMMETER	GFAR	GEN. FIRE ALARM RLY.	S	SWITCH	VT	VOLTAGE TRANSFORMER	HPT	HEATER PROTECTION T/STAT				
POWER WIRING	CONTROL WIRING	AHT	AFTER HOURS TIMER	HPR	HEAT PROTECT RELAY	SR	START RELAY			APS	AIR PRESSURE SWITCH				
MINIMUM SIZE: 2.5mm²	MINIMUM SIZE: 1.5mm²	AMR	ALARM MUTE RELAY	HRM	HOUR RUN METER	TDR	TIME DELAY RELAY			RR	RUNRELAY				
A PHASE RED	LV ACTIVE WHITE	AR	ALARM RELAY	KWH	KILOWATT HOUR METER	TR	TIMER RELAY			FR	FAULT RELAY				
B PHASE WHITE	LV NEUTRAL BLACK	COR	CHANGE OVER RELAY	L	PILOT LAMP	TS	TIME SWITCH			CB	CIRCUIT BREAKER				
C PHASE BLUE	ELV ACTIVE GREY	CUR	CALL UP RELAY	LTR	LAMP TEST RELAY	TSR	TIME SWITCH RELAY			SSR	SOLID STATE RELAY				
NEUTRAL BLACK	ELV NEUTRAL BROWN	FAR	FIRE ALARM RELAY	PFR	PHASE FAIL RELAY	TT	TRANSITION TIMER			H708	CURRENT SENSOR	A	A.S.	ORIGINAL FOR APPROVAL	13/7/21
EARTH GREEN/YELLOW	EARTH GREEN/YELLOW	FR	FAULT RELAY	RR	RUN RELAY	V	VOLTMETER		PHASE FAIL AUX RELAY	R	DDC RELAY	ISSUE	BY	AMENDMENTS	DATE

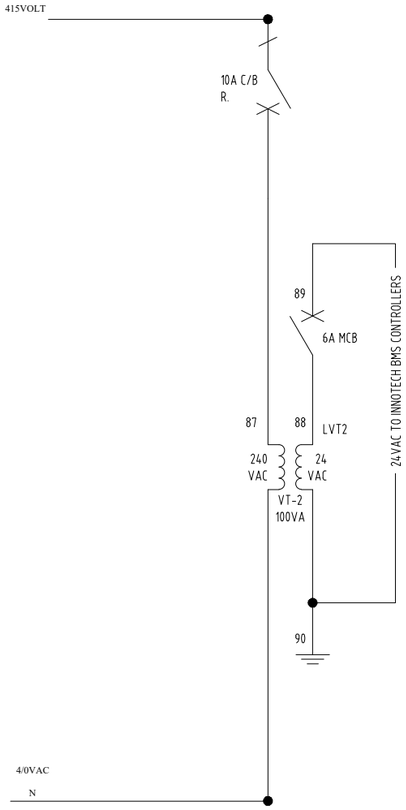
Hallmont Electrical P.L.
ELECTRICAL ENGINEERS & CONTRACTORS
EWCB NO. : 87272

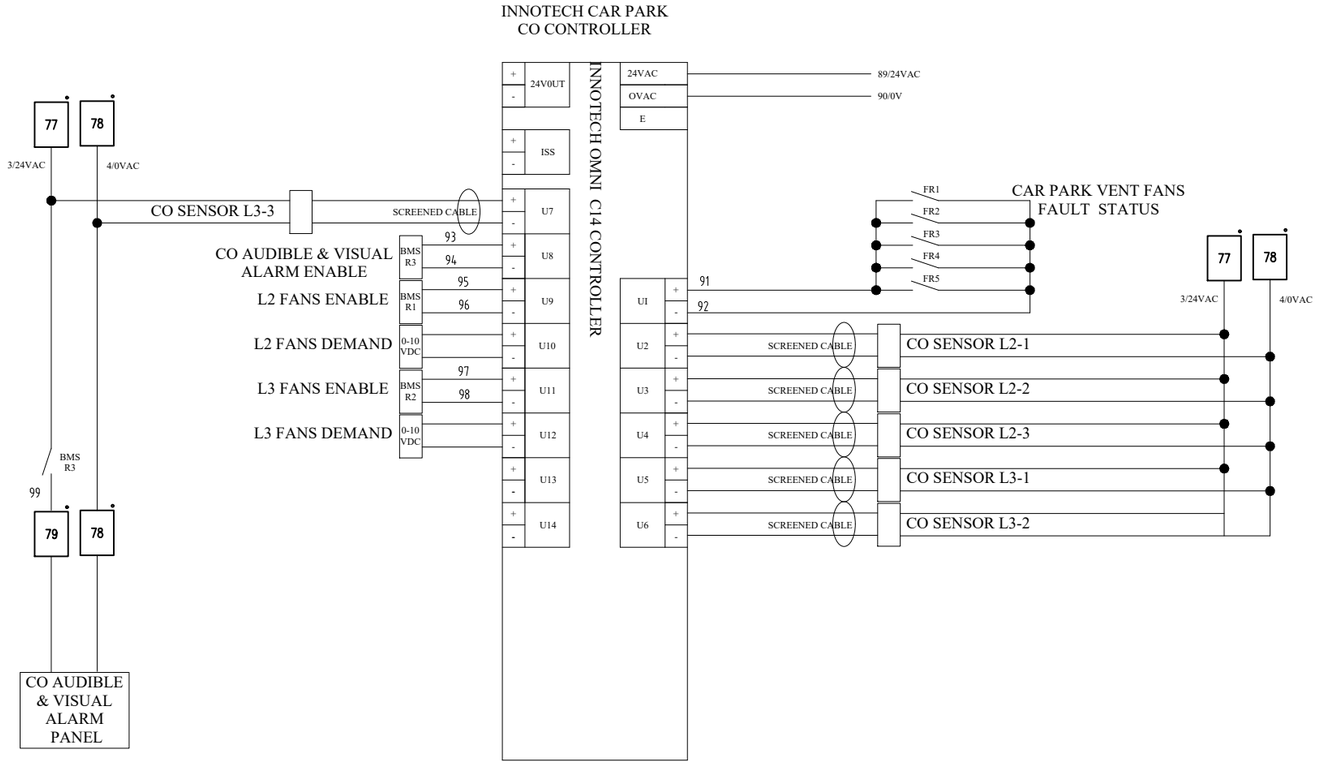
FIRST BAY, COOLUM
1674–1676 David Low Way, Coolum
MECHANICAL SERVICES: ELECTRICAL SCHEMATIC
MSSB–Car Park

DESIGN/DWN	CONTRACTOR
A.S.	Arctic Cold
CHECKED	SCALE
A.S	N.T.S.
PROJECT No	SIZE / SHEET
E2085	A3 / OF
ACN	DRAWING NUMBER
010644961	E2085–2

CUBICLE CONSTRUCTION:
DISTRIBUTION SECTION: SCHNEIDER MB200C - 580W x 750H x 235D N42 GREY
CONTROLS SECTION: SCHNEIDER MB200C - 580W x 750H x 235D N42 GREY
SWITCHGEAR: SCHNEIDER Acti 9 SYSTEM 6kA.

READ IN CONJUNCTION WITH INNOTECH POINTS LIST AND SCHEMATICS





CHECK LOCATION OF MSSB ONSITE
PERHAPS CO ALARM PANEL COULD MOUNT ON MSSB

WIRING COLOUR CODE		A	AMMETER	GFAR	GEN. FIRE ALARM RLY.	S	SWITCH	VT	VOLTAGE TRANSFORMER	HPT	HEATER PROTECTION T/STAT				
POWER WIRING	CONTROL WIRING	AHT	AFTER HOURS TIMER	HPR	HEAT PROTECT RELAY	SR	START RELAY			APS	AIR PRESSURE SWITCH				
MINIMUM SIZE: 2.5mm²	MINIMUM SIZE: 1.5mm²	AMR	ALARM MUTE RELAY	HRM	HOUR RUN METER	TDR	TIME DELAY RELAY			RR	RUNRELAY				
A PHASE RED	LV ACTIVE WHITE	AR	ALARM RELAY	KWH	KILOWATT HOUR METER	TR	TIMER RELAY			FR	FAULT RELAY				
B PHASE WHITE	LV NEUTRAL BLACK	COR	CHANGE OVER RELAY	L	PILOT LAMP	TS	TIME SWITCH			CB	CIRCUIT BREAKER				
C PHASE BLUE	ELV ACTIVE GREY	CUR	CALL UP RELAY	LTR	LAMP TEST RELAY	TSR	TIME SWITCH RELAY			SSR	SOLID STATE RELAY				
NEUTRAL BLACK	ELV NEUTRAL BROWN	FAR	FIRE ALARM RELAY	PFR	PHASE FAIL RELAY	TT	TRANSITION TIMER			H708	CURRENT SENSOR	A	A.S.	ORIGINAL FOR APPROVAL	13/7/21
EARTH GREEN/YELLOW	EARTH GREEN/YELLOW	FR	FAULT RELAY	RR	RUN RELAY	V	VOLTMETER		PHASE FAIL AUX RELAY	R	DDC RELAY	ISSUE	BY	AMENDMENTS	DATE

Hallmont Electrical P.L.
ELECTRICAL ENGINEERS & CONTRACTORS
EWCB NO. : 87272

FIRST BAY, COOLUM
1674-1676 David Low Way, Coolum
MECHANICAL SERVICES: ELECTRICAL SCHEMATIC
MSSB-Car Park

DESIGN/DWN A.S.		CONTRACTOR Arctic Cold	
CHECKED A.S	SCALE N.T.S.		
PROJECT No E2085	SIZE A3	SHEET OF	
ACN 010644961	DRAWING NUMBER E2085-3		

SECTION 9 – CERTIFICATION

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)
Installation of Fire Rated Penetrations

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	1674-1676 David Low Way		
		Suburb/locality	Coolum
State	QLD	Postcode	4573

Lot and plan details *(attach list if necessary)*
Lots 188-189 on RP 26899
Local government area the land is situated in
Sunshine Coast Council

3. Building/structure description

Building/structure description
New Construction of Unit Building & New Construction of Carpark Building - Commercial

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.

Installation of passive fire stopping products as per below Register
Max. FRL --/120/120

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.

AS1530.4-2014, AS 4072.1-2005
NCC (BCA) 2019 Volume 1, Amendment 1 – Part C3.15
Installed as per manufactures installation guidelines
Test reports as Registered

6. Reference documentation

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

Approved documents as listed in the Development Approval for Building Works associated with the Development
Arctic Cold – Fire Penetration Register First Bay and Location Plans

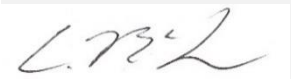
7. Building certifier reference number and building development approval number

Building certifier's name *(in full)*			
Building certifier reference number	00060020	Development approval number	MCU19 0123.03

8. Details of appointed competent person

Name *(in full)*	Craig Ian McLennan		
Company name *(if applicable)*	N/A		
Contact person	As above		
Business phone number	N/A	Mobile	0424 400 089
Email address	craig@ceasefirecertification.com.au		
Postal address	122 Cracknell Road		
		Suburb/locality	Tarragindi
State	QLD	Postcode	4121
Licence class or registration type *(if applicable)*	Passive Fire Protection – Fire Collars, Penetrations & Joint Sealing		
Licence class or registration number *(if applicable)*	QBCC 1182454		
Date request to inspect received from building certifier	Click or tap to enter a date.		

9. Signature of appointed competent person

Signature		Date	5/11/2021

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.

Arctic Cold
REFRIGERATION
SALES AND SERVICE
PTE LTD

ITEM No.	BUILDING ELEMENT PENETRATED	SERVICE TYPE	PENO SIZE	LOCATION	SYSTEM USED	TEST REPORT No.	CODE
BUILDING 2							
L4-P1	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 241	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P2	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 242	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P3	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 243	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P4	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 244	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P5	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 245	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P6	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 246	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P7	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 247	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-P1	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 251	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-P2	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 252	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-P3	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 253	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-P4	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 254	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-P5	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 255	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-P6	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 256	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-P7	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 257	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-P8	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 258	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-BOX-1	SLAB 310 THICK	INSULATED COPPER PIPE	600X125	FLOOR SERVICES RISER	TRAFALGAR FIRE BOX	FC10266-001	FB
L6-P1	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 261	UNI COLLAR & GRAFITEX	FCO-2458	FC
L6-P2	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 262	UNI COLLAR & GRAFITEX	FCO-2458	FC
L6-P3	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 263	UNI COLLAR & GRAFITEX	FCO-2458	FC
L6-P3	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 264	UNI COLLAR & GRAFITEX	FCO-2458	FC
L6-P4	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 265	UNI COLLAR & GRAFITEX	FCO-2458	FC
L6-P5	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 266	UNI COLLAR & GRAFITEX	FCO-2458	FC
L6-P6	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 267	UNI COLLAR & GRAFITEX	FCO-2458	FC
L6-P7	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 268	UNI COLLAR & GRAFITEX	FCO-2458	FC
L6-BOX -1	SLAB 310 THICK	INSULATED COPPER PIPE	600 X 125	FLOOR SERVICES RISER	TRAFALGAR FIRE BOX	FC10266-001	FB
L6-BOX-2	SLAB 310 THICK	INSULATED COPPER PIPE	600 X125	FLOOR SERVICES RISER	TRAFALGAR FIRE BOX	FC10266-001	FB
L7- P1	CORE FILLED BLOCK	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 271	UNI COLLAR & GRAFITEX	FCO-2458	FC
L7-P2	CORE FILLED BLOCK	INSULATED COPPER PIPE	80MM	STAIR WELL	UNI COLLAR & GRAFITEX	FCO-2458	FC
L7-P3	CORE FILLED BLOCK	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 272	UNI COLLAR & GRAFITEX	FCO-2458	FC
L7 - BOX-1	SLAB 310 THICK	INSULATED COPPER PIPE	600 X125	FLOOR SERVICES RISER	TRAFALGAR FIRE BOX	FC10266-001	FB
L7-BOX-1	SLAB 310 THICK	INSULATED COPPER PIPE	600 X125	FLOOR SERVICES RISER	TRAFALGAR FIRE BOX	FC10266-001	FB
L7 - P4	CORE FILLED BLOCK	INSULATED COPPER PIPE	80MM	STAIR CASE	UNI COLLAR & GRAFITEX	FCO-2458	FC
BUILDING 1							
B1-L1-P1	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 112	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L1-P2	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 121	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L1-P3	SLAB	INSULATED COPPER PIPE	80MM	SERVICES RISER	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L1-P4	SLAB	INSULATED COPPER PIPE	80MM	SERVICES RISER	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L2-P1	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 121	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L2-P2	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 122	UNI COLLAR & GRAFITEX	FCO-2485	FC
B1-L2- P3	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 123	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L2-BOX-1	SLAB	INSULATED COPPER PIPE	600X125	SERVICES RISER	TRAFALIGAR FIRE BOX	FC10266-001	FB
B1-L3-P1	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 131	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L3- P2	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 132	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L3-P3	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 133	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L3-BOX-1	SLAB	INSULATED COPPER PIPE	600X 125	SERVICES RISER	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L4-P1	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 141	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L4-P2	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 142	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L5-P1	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	ABOVE ENTRY WAY 143	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L4-P2	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	SERVICE RISER TO HALL WAY	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L4-P6	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	SERVICE RISER TO HALL WAY	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L4-P7	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	SERVICE RISER TO HALL WAY	UNI COLLAR & GRAFITEX	FCO-2458	FC
B1-L4-P8	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	SERVICE RISER TO HALL WAY	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P9	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	SERVICE RISER TO HALL WAY	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P10	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	SERVICE RISER TO HALL WAY	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P11	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	SERVICE RISER TO HALL WAY	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P12	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	SERVICE RISER TO HALL WAY	UNI COLLAR & GRAFITEX	FCO-2458	FC
L4-P13	FIRE RATED PLASTER BOARD	INSULATED COPPER PIPE	80MM	SERVICE RISER TO HALL WAY	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5-P1	CORE FILLED BLOCK	INSULATED COPPER PIPE	80MM	ABOVE ENTRY 111	UNI COLLAR & GRAFITEX	FCO-2458	FC
L5- BOX 1	SLAB 310 THICK	INSULATED COPPER PIPE	600 X 125	SERVICES RISER 2	TRAFALIGAR FIRE BOX	FC10266-001	FB
L5- BOX 2	SLAB 310 THICK	INSULATED COPPER PIPE	600 X 125	SERVICES RISER 2	TRAFALIGAR FIRE BOX	FC10266-001	FB
FD-1	CORE FILLED BLOCK WALL	AIR DUCT	700 X400	MECH RISER BASEMENT 2	HOLYOAKE IBD-V	FCO-3356	FD
FD-2	CORE FILLED BLOCK WALL	AIR DUCT	500 X500	MECH RISER BASEMENT 2	HOLYOAKE IBD-V	FCO-3356	FD
FD-3	CORE FILLED BLOCK WALL	AIR DUCT	350 X 200	MECH RISER BASEMENT 2	HOLYOAKE IBD-V	FCO-3356	FD
FD-4	CORE FILLED BLOCK WALL	AIR DUCT	1000X1000	MECH RISER BASEMENT 2	HOLYOAKE IBD-V	FCO-3356	FD
FD-5	CORE FILLED BLOCK WALL	AIR DUCT	350 X200	MECH RISER BASEMENT 2	HOLYOAKE IBD-V	FCO-3356	FD
FD-6	CORE FILLED BLOCK WALL	AIR DUCT	1000X1000	MECH RISER BASEMENT 2	HOLYOAKE IBD-V	FCO-3356	FD
FD-7	CORE FILLED BLOCK WALL	AIR DUCT	200 X 400	MECH RISER BASEMENT 1	HOLYOAKE IBD-V	FCO-3356	FD
FD-8	CORE FILLED BLOCK WALL	AIR DUCT	200 X400	MECH RISER BASEMENT 1	HOLYOAKE IBD-V	FCO-3356	FD
FD-9	CORE FILLED BLOCK WALL	AIR DUCT	550 X400	MECH RISER BASEMENT 1	HOLYOAKE IBD-V	FCO-3356	FD
FD-10	CORE FILLED BLOCK WALL	AIR DUCT	700X400	MECH RISER BASEMENT 1	HOLYOAKE IBD-V	FCO-3356	FD

Queensland Government

Department of Housing and Public Works

Form 16—Inspection Certificate/Aspect Certificate/QBCC Licensee Aspect Certificate

Version 5 – July 2017

NOTE: This form is to be used for the purposes of section 10(c) and 239 of the *Building Act 1975* and/or sections 32, 35B, 43, 44 and 47 of the *Building Regulation 2006*.

1. Indicate the type of certificate

The stages of assessable building work are listed in section 24 of the Building Regulation 2006 or as conditioned by the building certifier.

An aspect of building work is part of a stage (e.g. waterproofing).

☒ **Inspection Certificate** for

☐ Stage of building work (for single detached class 1a or class 10 building or structure)

(indicate the stage)

_____

☒ Aspect of building work

(indicate the aspect)

_____

☒ **QBCC Licensee Aspect Certificate**

Scope of the work

Scope of the work covered by the licence class under the *Queensland Building and Construction Commission Regulation 2003* for the aspect being certified, e.g. scope of work for a waterproofing licence is "installing waterproofing materials or systems for preventing moisture penetration". An aspect being certified may include "wet area sealing to showers".

Mechanical Services installation

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 no., street, suburb/locality and postcode)

1674-1676 David Low Way
Postcode 4573

Lot and plan details (attach list if necessary)

188-189 on RP 26899

In which local government area is the land situated?

Sunshine Coast Council

3. Building/structure description

Building/structure description	Class of building/structure
New Construction of Unit Building & New Construction of Carpark Building - commercial	2 & 7a

LOCAL GOVERNMENT USE ONLY

DATE RECEIVED		REFERENCE NUMBER/S	

4. 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.

Mechanical Services installation

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.

NCC 2016 Building Code of Australia – Section J5

AS 1668.2 and 1668.1

AS 4254 Part 1 and 2

AS 3000 - 2018

AS3666

6. Reference documentation

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

Cushway Blackford & Associates
Project No. 085-156-2
Arctic Cold Refrigeration Project – First Bay Apartments
Drawing Numbers;

M000-5, M100-5, M101-6, M200-5, M201-6 M300-5 M301-6 M400-5 M401-6 M500-5 M501-6, M600-5 M601-6, M700-5

7. Building certifier reference number and development approval number

Building certifier reference number: 00060020

Development approval number: MCU19 0123.03

8. Building certifier, competent person or QBCC licensee details

A **competent person** must be assessed as competent before carrying out the inspection.

The builder for the work cannot give a stage certificate of inspection.

A competent person is assessed by the building certifier for the work as competent to practice in an aspect of the building and specification design, because of the individual's skill, experience and qualifications. The competent person must 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, 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)
Bill Maile

Company name if applicable: **Arctic Cold Refrigeration**

Contact person: **Bruce Maile**

Phone no. (business hours):

Mobile no.: **0438048817**

Fax no.:

Email address
bruce@arcticcold.com.au

Postal address
PO Box 1629 Hervey bay Qld
Postcode 4655

Licence class: **Refrigeration and AC LD**

Licence number: **58833**

Date approval to inspect received from building certifier

9. Signature of building certifier, competent person or QBCC licensee

Note: A building certifier must sign this form for temporary swimming pool fencing under section 4 of Schedule 1 of QDC MP 3.4.

Signature

Date: 4/11/2021

SECTION 10 – AS CONSTRUCTED DRAWINGS

FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM
MECHANICAL SERVICES

DRAWING LIST

NO.	DRAWING TITLE
M000	MECHANICAL SERVICES DRAWING LIST, LEGENDS, NOTES, SYMBOLS
M001	MECHANICAL SERVICES SCHEDULES SHEET 1
M002	MECHANICAL SERVICES SCHEDULES SHEET 2
M100	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 1
M101	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 1
M200	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 2
M201	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 2
M300	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 3
M301	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 3
M400	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 4
M401	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 4
M500	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 5
M501	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 5
M600	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 6
M601	MECHANICAL SERVICES B1 ROOF PLAN
M700	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 7
BW100	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 1 (BUILDER WORKS)
BW101	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 1 (BUILDER WORKS)
BW200	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 2 (BUILDER WORKS)
BW201	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 2 (BUILDER WORKS)
BW300	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 3 (BUILDER WORKS)
BW301	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 3 (BUILDER WORKS)
BW400	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 4 (BUILDER WORKS)
BW401	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 4 (BUILDER WORKS)
BW500	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 5 (BUILDER WORKS)
BW501	MECHANICAL SERVICES B1 FLOOR PLAN - LEVEL 5 (BUILDER WORKS)
BW600	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 6 (BUILDER WORKS)
BW601	MECHANICAL SERVICES B1 ROOF PLAN (BUILDER WORKS)
BW700	MECHANICAL SERVICES B2 FLOOR PLAN - LEVEL 7 (BUILDER WORKS)
MS1	MECHANICAL SERVICES SECTIONS

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 A25	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 A38	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 A50	50mm INTERNAL INSULATION DUCTWORK (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 A75	75mm INTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
14 A100	100mm INTERNAL INSULATION DUCTWORK (REFER NOTES ON DUCT NUMBERING IN CASE NO HATCH)
13 FIRE	FIRE RATED DUCT
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° W 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	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
200ø LENGTH	PVC DUCTWORK
350x90 LENGTH	PVC FLAT PACK DUCTWORK
200ø LENGTH	SPIRO DUCTWORK
	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 DETECTOR
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	MOTORISED VOLUME CONTROL DAMPER- PLAN VIEW
1 MOT	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

NOTE

1. FAN/GRILLE SERVING THE TOILETS TO BE C/W NON-RETURN DAMPERS. TYPICAL.

2. ALL DUCTWORK TO BE MEASURED AND CHECKED ON SITE TO FIT STRUCTURE PRIOR TO MANUFACTURING

REV	DESCRIPTION	BY	DATE
09	UPDATED CEILING LAYOUT	AVDS	07.04.2021
08	AMENDED DRAWING	AVDS	01.12.2020
07	UPDATED DRAWING	AVDS	01.10.2020
06	UPDATED BACKGROUND	AVDS	18.08.2020
05	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
04	FIXED COMMENTS	AVDS	28.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

Suppliers of Domestic and Commercial Air Conditioning and Commercial Refrigeration
Arctic Cold Refrigeration Sales and Service
ARCTIC COLD REFRIGERATION PTY., LTD.
A : Unit 1-124 Beach Road, Hervey Bay, Queensland & 45A Walker Street, Bundaberg
P : 1300 729 889 E : bruce@arcticcold.com.au

PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
DRAWING LIST, LEGENDS, NOTES, SYMBOLS

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M000 REVISION 09

B2 - LEVEL 2 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
E1	350	600x250	-	-	-	-	EF-1	-
E2	350	600x250	-	-	-	-	EF-1	-
E3	350	600x250	-	-	-	-	EF-1	-
E4	350	600x250	-	-	-	-	EF-1	-
E5	350	600x250	-	-	-	-	EF-1	-
E6	350	600x250	-	-	-	-	EF-2	-
E7	350	600x250	-	-	-	-	EF-2	-
E8	350	600x250	-	-	-	-	EF-2	-
E9	350	600x250	-	-	-	-	EF-2	-
E10	350	600x250	-	-	-	-	EF-2	-
E11	100	400x150	-	-	-	-	EF-3	-
S1	375	600x250	-	-	-	-	SAF-1	-
S2	375	600x250	-	-	-	-	SAF-1	-
S3	375	600x250	-	-	-	-	SAF-1	-
S4	375	600x250	-	-	-	-	SAF-1	-
S5	375	600x250	-	-	-	-	SAF-1	-
S6	375	600x250	-	-	-	-	SAF-1	-
S7	375	600x250	-	-	-	-	SAF-1	-

B2 - LEVEL 3 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
E1	300	600x250	-	-	-	-	EF-3	-
E2	300	600x250	-	-	-	-	EF-3	-
E3	300	600x250	-	-	-	-	EF-3	-
E4	300	600x250	-	-	-	-	EF-3	-
E5	300	600x250	-	-	-	-	EF-3	-
E6	350	600x250	-	-	-	-	EF-4	-
E7	350	600x250	-	-	-	-	EF-4	-
E8	350	600x250	-	-	-	-	EF-4	-
E9	350	600x250	-	-	-	-	EF-4	-
E10	350	600x250	-	-	-	-	EF-4	-
E11	400	900x150	-	-	-	-	PF-1	-
S1	400	900x150	-	-	-	-	PF-2	-
WL1	-	400x150	-	-	-	WEATHER PROOF LOUVRE	TEF-1	-

B2 - LEVEL 4 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
WL1	-	400x250	-	-	-	WEATHER PROOF LOUVRE	EF-6	-
WL2	-	400x250	-	-	-	WEATHER PROOF LOUVRE	EF-6	-
E1	-	400x100	-	-	-	-	EF-6	-
S1	75	1000x100	-	200	-	-	FCU-241	APT 241
S2	75	1000x100	-	200	-	-	FCU-241	APT 241
S3	400	1000x100	-	400	-	-	FCU-241	APT 241
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 241
S1	75	1000x100	-	200	-	-	FCU-242.1	APT 242
S2	75	1000x100	-	200	-	-	FCU-242.1	APT 242
S3	75	1000x100	-	200	-	-	FCU-242.1	APT 242
S4	350	1000x100	-	350	-	-	FCU-242.1	APT 242
S5	150	1500x163	-	-	-	-	FCU-242.2	APT 242
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 242
S1	75	1000x100	-	200	-	-	FCU-243.1	APT 243
S2	75	1000x100	-	200	-	-	FCU-243.1	APT 243
S3	75	1000x100	-	200	-	-	FCU-243.1	APT 243
S4	350	1000x100	-	350	-	-	FCU-243.1	APT 243
S5	150	1500x163	-	-	-	-	FCU-243.2	APT 243
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 243
S1	75	1000x100	-	200	-	-	FCU-244.1	APT 244
S2	75	1000x100	-	200	-	-	FCU-244.1	APT 244
S3	350	1000x100	-	350	-	-	FCU-244.1	APT 244
S4	150	1500x163	-	-	-	-	FCU-244.2	APT 244
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 244
S1	75	1000x100	-	200	-	-	FCU-245.1	APT 245
S2	75	1000x100	-	200	-	-	FCU-245.1	APT 245
S3	350	1000x100	-	350	-	-	FCU-245.1	APT 245
S4	150	1500x163	-	-	-	-	FCU-245.2	APT 245
WL1	65	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 245
WL2	25	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 245
S1	100	1000x100	-	200	-	-	FCU-246.1	APT 246
S2	100	1000x100	-	200	-	-	FCU-246.1	APT 246
S3	350	1000x100	-	350	-	-	FCU-246.1	APT 246
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 246
247.1-S1	75	1000x150	-	200	-	LINEAR BAR	FCU-247	APT 247
247.1-R1	75	1000x150	-	200	-	LINEAR BAR	FCU-247	APT 247
247.2-S1	300	1060x153	-	-	-	-	FCU-247	APT 247
247.2-R1	300	950x150	-	-	-	-	FCU-247	APT 247
247.3-S1	100	600x150	-	200	-	-	FCU-247	APT 247
247.3-S1	100	600x150	-	200	-	-	FCU-247	APT 247
247.3-R1	200	900x500	-	-	-	EGG CRATE	FCU-247	APT 247
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 247

B2 - LEVEL 5 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
S1	75	1000x100	-	200	-	-	FCU-251	APT 251
S2	75	1000x100	-	200	-	-	FCU-251	APT 251
S3	400	1000x100	-	400	-	-	FCU-251	APT 251
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 251
S1	75	1000x100	-	200	-	-	FCU-252.1	APT 252
S2	75	1000x100	-	200	-	-	FCU-252.1	APT 252
S3	75	1000x100	-	200	-	-	FCU-252.1	APT 252
S4	350	1000x100	-	350	-	-	FCU-252.1	APT 252
S5	150	1500x163	-	-	-	-	FCU-252.2	APT 252
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 252
S1	75	1000x100	-	200	-	-	FCU-253.1	APT 253
S2	75	1000x100	-	200	-	-	FCU-253.1	APT 253
S3	75	1000x100	-	200	-	-	FCU-253.1	APT 253
S4	350	1000x100	-	350	-	-	FCU-253.1	APT 253
S5	150	1500x163	-	-	-	-	FCU-253.2	APT 253
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 253
S1	75	1000x100	-	200	-	-	FCU-254.1	APT 254
S2	75	1000x100	-	200	-	-	FCU-254.1	APT 254
S3	350	1000x100	-	350	-	-	FCU-254.1	APT 254
S4	150	1500x163	-	-	-	-	FCU-254.2	APT 254
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 254
S1	75	1000x100	-	200	-	-	FCU-255.1	APT 255
S2	75	1000x100	-	200	-	-	FCU-255.1	APT 255
S3	350	1000x100	-	350	-	-	FCU-255.1	APT 255
S4	150	1500x163	-	-	-	-	FCU-255.2	APT 255
WL1	65	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 255
WL2	25	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 255
S1	100	1000x100	-	200	-	-	FCU-256.1	APT 256
S2	100	1000x100	-	200	-	-	FCU-256.1	APT 256
S3	350	1000x100	-	350	-	-	FCU-256.1	APT 256
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 256
S1	75	1000x100	-	200	-	-	FCU-257	APT 257
S2	100	1000x100	-	200	-	-	FCU-257	APT 257
S3	150	1000x100	-	200	-	-	FCU-257	APT 257
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 257
S1	100	1000x100	-	200	-	-	FCU-258	APT 258
S2	75	1000x100	-	200	-	-	FCU-258	APT 258
S3	150	1000x100	-	200	-	-	FCU-258	APT 258
S4	150	1000x100	-	200	-	-	FCU-258	APT 258
WL1	65	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 258
WL2	25	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 258
WL3	-	1400x1400	-	-	-	WEATHER PROOF LOUVRE	-	APT 258
WL4	-	1400x1400	-	-	-	WEATHER PROOF LOUVRE	-	APT 258

B2 - LEVEL 6 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
S1	75	1000x100	-	200	-	-	FCU-261	APT 261
S2	75	1000x100	-	200	-	-	FCU-261	APT 261
S3	400	1000x100	-	400	-	-	FCU-261	APT 261
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 261
S1	75	1000x100	-	200	-	-	FCU-262.1	APT 262
S2	75	1000x100	-	200	-	-	FCU-262.1	APT 262
S3	75	1000x100	-	200	-	-	FCU-262.1	APT 262
S4	350	1000x100	-	350	-	-	FCU-262.1	APT 262
S5	150	1500x163	-	-	-	-	FCU-262.2	APT 262
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 262
S1	75	1000x100	-	200	-	-	FCU-263.1	APT 263
S2	75	1000x100	-	200	-	-	FCU-263.1	APT 263
S3	75	1000x100	-	200	-	-	FCU-263.1	APT 263
S4	350	1000x100	-	350	-	-	FCU-263.1	APT 263
S5	150	1500x163	-	-	-	-	FCU-263.2	APT 263
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 263
S1	75	1000x100	-	200	-	-	FCU-264.1	APT 264
S2	75	1000x100	-	200	-	-	FCU-264.1	APT 264
S3	350	1000x100	-	350	-	-	FCU-264.1	APT 264
S4	150	1500x163	-	-	-	-	FCU-264.2	APT 264
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 264
S1	75	1000x100	-	200	-	-	FCU-265.1	APT 265
S2	75	1000x100	-	200	-	-	FCU-265.1	APT 265
S3	350	1000x100	-	350	-	-	FCU-265.1	APT 265
S4	150	1500x163	-	-	-	-	FCU-265.2	APT 265
WL1	65	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 265
WL2	25	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 265
S1	100	1000x100	-	200	-	-	FCU-266.1	APT 266
S2	100	1000x100	-	200	-	-	FCU-266.1	APT 266
S3	350	1000x100	-	350	-	-	FCU-266.1	APT 266
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 266
S1	75	1000x100	-	200	-	-	FCU-267	APT 267
S2	100	1000x100	-	200	-	-	FCU-267	APT 267
S3	350	1000x100	-	350	-	-	FCU-267	APT 267
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 267
S1	100	1000x100	-	200	-	-	FCU-268	APT 268
S2	100	1000x100	-	200	-	-	FCU-268	APT 268
S3	350	1000x100	-	350	-	-	FCU-268	APT 268
WL1	65	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 268
WL2	25	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 268
S1	100	1000x100	-	200	-	-	FCU-269	APT 269
S2	75	1000x100	-	200	-	-	FCU-269	APT 269
S3	350	1000x100	-	350	-	-	FCU-269	APT 269
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 269

B2 - LEVEL 7 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
S1	100	1000x100	-	200	-	-	FCU-O-1	APT 271
S2	250	1000x100	-	2 OFF 250	-	-	FCU-O-1	APT 271
S3	350	1500x150	-	-	-	-	FCU-O-2	APT 271
S4	150	1500x150	-	-	-	-	FCU-O-3	APT 271
S5	150	1500x150	-	-	-	-	FCU-O-4	APT 271
S6	150	1500x150	-	-	-	-	FCU-O-5	APT 271
WL1	25	400x150	-	-	-	WEATHER PROOF LOUVRE	TEF-1	APT 271
WL2	65	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 271
S1	75	1000x100	-	200	-	-	FCU-P-1	APT 272
S2	300	1000x100	-	2 OFF 250	-	-	FCU-P-1	APT 272
S3	350	1500x150	-	-	-	-	FCU-P-2	APT 272
S4	150	1500x150	-	-	-	-	FCU-P-3	APT 272
S5	150	1500x150	-	-	-	-	FCU-P-4	APT 272
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 272
WL2	25	400x150	-	-	-	WEATHER PROOF LOUVRE	-	STORE

B1 - LEVEL 1 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
S1	75	1000x100	-	200	-	-	FCU-111.1	APT 111
S2	75	1000x100	-	200	-	-	FCU-111.1	APT 111
S3	100	1000x100	-	200	-	-	FCU-111.1	APT 111
S4	162	1000x100	-	200	-	-	FCU-111.2	APT 111
S5	162	1000x100	-	200	-	-	FCU-111.2	APT 111
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 111
S1	75	1000x100	-	200	-	-	FCU-112.1	APT 112
S2	75	1000x100	-	200	-	-	FCU-112.1	APT 112
S3	150	1000x100	-	250	-	-	FCU-112.1	APT 112
S4	150	1000x100	-	250	-	-	FCU-112.1	APT 112
S5	150	1500x163	-	-	-	-	FCU-112.2	APT 112
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 112

B1 - LEVEL 2 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
S1	75	1000x100	-	200	-	-	FCU-121.1	APT 121
S2	75	1000x100	-	200	-	-	FCU-121.1	APT 121
S3	100	1000x100	-	200	-	-	FCU-121.1	APT 121
S4	162	1000x100	-	200	-	-	FCU-121.2	APT 121
S5	162	1000x100	-	200	-	-	FCU-121.2	APT 121
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 121
S1	75	1000x100	-	200	-	-	FCU-122.1	APT 122
S2	75	1000x100	-	200	-	-	FCU-122.1	APT 122
S3	150	1000x100	-	250	-	-	FCU-122.1	APT 122
S4	150	1000x100	-	250	-	-	FCU-122.1	APT 122
S5	150	1500x163	-	-	-	-	FCU-122.2	APT 122
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 122
S1	75	1000x100	-	200	-	-	FCU-123.1	APT 123
S2	75	1000x100	-	200	-	-	FCU-123.1	APT 123
S3	100	1000x100	-	200	-	-	FCU-123.1	APT 123
S4	162	1000x100	-	200	-	-	FCU-123.1	APT 123
S5	150	1500x163	-	-	-	-	FCU-123.2	APT 123
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 123
WL2	100	350x350	-	-	-	WEATHER PROOF LOUVRE	-	BIN ROOM FAN

B1 - LEVEL 3 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
S1	75	1000x100	-	200	-	-	FCU-131.1	APT 131
S2	75	1000x100	-	200	-	-	FCU-131.1	APT 131
S3	100	1000x100	-	200	-	-	FCU-131.1	APT 131
S4	162	1000x100	-	200	-	-	FCU-131.1	APT 131
S5	162	1000x100	-	200	-	-	FCU-131.2	APT 131
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 131
S1	75	1000x100	-	200	-	-	FCU-132.1	APT 132
S2	75	1000x100	-	200	-	-	FCU-132.1	APT 132
S3	150	1000x100	-	250	-	-	FCU-132.1	APT 132
S4	150	1000x100	-	250	-	-	FCU-132.1	APT 132
S5	150	1500x163	-	-	-	-	FCU-132.2	APT 132
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 132
S1	75	1000x100	-	200	-	-	FCU-133.1	APT 133
S2	75	1000x100	-	200	-	-	FCU-133.1	APT 133
S3	100	1000x100	-	200	-	-	FCU-133.1	APT 133
S4	162	1000x100	-	200	-	-	FCU-133.1	APT 133
S5	150	1500x163	-	-	-	-	FCU-133.2	APT 133
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 133

B1 - LEVEL 4 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
S1	75	1000x100	-	200	-	-	FCU-141.1	APT 141
S2	75	1000x100	-	200	-	-	FCU-141.1	APT 141
S3	100	1000x100	-	200	-	-	FCU-141.1	APT 141
S4	162	1000x100	-	200	-	-	FCU-141.1	APT 141
S5	162	1000x100	-	200	-	-	FCU-141.2	APT 141
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 141
S1	75	1000x100	-	200	-	-	FCU-142.1	APT 142
S2	75	1000x100	-	200	-	-	FCU-142.1	APT 142
S3	150	1000x100	-	250	-	-	FCU-142.1	APT 142
S4	150	1000x100	-	250	-	-	FCU-142.1	APT 142
S5	150	1500x163	-	-	-	-	FCU-142.2	APT 142
WL1	90	400x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 142
S1	75	1000x100	-	200	-	-	FCU-143.1	APT 143
S2	75	1000x100	-	200	-	-	FCU-143.1	APT 143
S3	100	1000x100	-	200	-	-	FCU-143.1	APT 143
S4	162	1000x100	-	200	-	-	FCU-143.1	APT 143
S5	150	1500x163	-	-	-	-	FCU-143.2	APT 143
WL1	90	300x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 143

B1 - LEVEL 5 - GRILLE SCHEDULE

REF. NO.	DESIGN L/s	NECK SIZE	FACE SIZE	FLEX SIZE Dia	DAMPER	TYPE	SYSTEM	COMMENTS
S1	150	1500x163	-	-	-	-	FCU-D-1	APT 151
S2	150	1500x163	-	-	-	-	FCU-D-2	APT 151
S3	150	1500x163	-	-	-	-	FCU-D-3	APT 151
S4	150	1000x100	-	200	-	-	FCU-D-4	APT 151
S5	100	1000x100	-	200	-	-	FCU-D-4	APT 151
S6	150	1500x163	-	-	-	-	FCU-D-5	APT 151
WL1	90	300x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 151
WL2	50	300x150	-	-	-	WEATHER PROOF LOUVRE	-	APT 151

NOTE
1. FAN/GRILLE SERVING THE TOILETS TO BE C/W NON-RETURN DAMPERS. TYPICAL.

2. ALL DUCTWORK TO BE MEASURED AND CHECKED ON SITE TO FIT STRUCTURE PRIOR TO MANUFACTURING

REV	DESCRIPTION	BY	DATE
04	UPDATED DESIGN OF APARTMENT 247	AVDS	05.05.2021
03	UPDATED CEILING LAYOUT	AVDS	07.04.2021
02	AMENDED DRAWING	AVDS	01.12.2020
01	FOR APPROVAL	AVDS	01.10.2020

ARCTIC COLD REFRIGERATION PTY., LTD.
A : Unit 1-124 Beach Road, Hervey Bay, Queensland
& 45A Walker Street, Bundaberg
P : 1300 729 889 E : bruce@arcticcold.com.au

PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
SCHEDULES SHEET 1

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	01.10.2020

FOR APPROVAL

DRAWING: M001 REVISION: 04

BUILDING 1 - A/C EQUIPMENT SCHEDULE

REF. NO.	MAKE	MODEL	TYPE	TOTAL COOLING	HEATING CAPACITY	S/A	PHASE	PIPE	SOUND	DIMENSIONS	WEIGHT	NOTE
				Kw	Kw	L/s	ph / V / Hz	mm	dB(A)	HxWxD	Kg	
FCU-111.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	7.1	8	325	1 / 240 / 50	9.52x19.05	37 / 35 / 33	200x1100x450	24	LEVEL 1
FCU-111.2	DAIKIN	FXSQ80PAVE	DUCTED UNIT	9	7.3	383	1 / 240 / 50	9.52x19.05	-	245x1000x800	27	LEVEL 1
CU-111	DAIKIN	RXYMQ5AV4A	CONDENSING UNIT	3.93	3.04	1267	1 / 240 / 50	9.52x19.05	71	990x940x320	82	B1-ROOF
FCU-112.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 1
FCU-112.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 1
CU-112	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	B1-ROOF
FCU-121.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	7.1	8	325	1 / 240 / 50	9.52x19.05	37 / 35 / 33	200x1100x450	24	LEVEL 2
FCU-121.2	DAIKIN	FXSQ80PAVE	DUCTED UNIT	9	7.3	383	1 / 240 / 50	9.52x19.05	-	245x1000x800	27	LEVEL 2
CU-121	DAIKIN	RXYMQ5AV4A	CONDENSING UNIT	3.93	3.04	1267	1 / 240 / 50	9.52x19.05	71	990x940x320	82	B1-ROOF
FCU-122.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 2
FCU-122.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 2
CU-122	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	B1-ROOF
FCU-123.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	7.1	8	325	1 / 240 / 50	9.52x19.05	37 / 35 / 33	200x1100x450	24	LEVEL 2
FCU-123.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 2
FCU-123.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	2.2	2.5	100	1 / 240 / 50	9.52x19.05	32/30/28	200x700x450		LEVEL 2
FCU-123.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	2.2	2.5	100	1 / 240 / 50	9.52x19.05	32/30/28	200x700x450		LEVEL 2
CU-123	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	B1-ROOF
FCU-131.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	7.1	8	325	1 / 240 / 50	9.52x19.05	37 / 35 / 33	200x1100x450	24	LEVEL 3
FCU-131.2	DAIKIN	FXSQ80PAVE	DUCTED UNIT	9	7.3	383	1 / 240 / 50	9.52x19.05	-	245x1000x800	27	LEVEL 3
CU-131	DAIKIN	RXYMQ5AV4A	CONDENSING UNIT	3.93	3.04	1267	1 / 240 / 50	9.52x19.05	71	990x940x320	82	B1-ROOF
FCU-132.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 3
FCU-132.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 3
CU-132	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	B1-ROOF
FCU-133.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	7.1	8	325	1 / 240 / 50	9.52x19.05	37 / 35 / 33	200x1100x450	24	LEVEL 3
FCU-133.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 3
FCU-133.3	DAIKIN	FXDQ20TV1B	DUCTED UNIT	2.2	2.5	100	1 / 240 / 50	9.52x19.05	32/30/28	200x700x450		LEVEL 2
FCU-133.4	DAIKIN	FXDQ20TV1B	DUCTED UNIT	2.2	2.5	100	1 / 240 / 50	9.52x19.05	32/30/28	200x700x450		LEVEL 2
CU-133	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	B1-ROOF
FCU-141.1	DAIKIN	FXDQ63TV1B	DUCTED UNIT	7.1	8	325	1 / 240 / 50	9.52x19.05	37 / 35 / 33	200x1100x450	24	LEVEL 4
FCU-141.2	DAIKIN	FXSQ80PAVE	DUCTED UNIT	9	7.3	383	1 / 240 / 50	9.52x19.05	-	245x1000x800	27	LEVEL 4
CU-141	DAIKIN	RXYMQ5AV4A	CONDENSING UNIT	3.93	3.04	1267	1 / 240 / 50	9.52x19.05	71	990x940x320	82	B1-ROOF
FCU-142.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 4
FCU-142.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 4
CU-142	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	B1-ROOF
FCU-143.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 4
FCU-143.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 4
CU-143	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	B1-ROOF
FCU-D-1	DAIKIN	FXDQ50NBVE	DUCTED UNIT	5.6	6.3	208/183/166	1 / 240 / 50	6.4 x12.7	33 / 30 / 27	200x900x620	28	LEVEL 5
FCU-D-2	DAIKIN	FXDQ50NBVE	DUCTED UNIT	5.6	6.3	208/183/166	1 / 240 / 50	6.4 x12.7	33 / 30 / 27	200x900x620	28	LEVEL 5
FCU-D-3	DAIKIN	FXDQ20NBVE	DUCTED UNIT	2.2	2.5	133/120/106	1 / 240 / 50	6.4x12.7	28 / 26 / 23	200x700x620	23	LEVEL 5
FCU-D-4	DAIKIN	FXDQ40NBVE	DUCTED UNIT	4.5	5	175/158/141	1 / 240 / 50	6.4x12.7	30 / 28 / 26	200x900x620	27	LEVEL 5
FCU-D-5	DAIKIN	FXDQ25NBVE	DUCTED UNIT	2.8	3.2	133/150/106	1 / 240 / 50	6.4x12.7	28 / 26 / 24	200x700x620	23	LEVEL 5
CU-D-L5	DAIKIN	RXYMQ6AV4A	CONDENSING UNIT	16	18	1767	1 / 240 / 50	9.52x19.05	55 / 56	1345x900x320	104	B1-ROOF

FAN SCHEDULE

REF. NO.	OFF	MAKE	MODEL	TYPE	VOL	PRS	SPEED	MOTOR	PHASE	NOISE	WEIGHT	LOCATION
					L/s	Pa	R/s	Kw	V / Ph / Hz	dBA	Kg	
BUILDING 2												
EF-1	1	TBA	TBA	TBA	1750	TBA	TBA	TBA	TBA	TBA	-	-
EF-2	1	TBA	TBA	TBA	1750	TBA	TBA	TBA	TBA	TBA	-	-
EF-3	1	TBA	TBA	TBA	-	TBA	TBA	TBA	TBA	TBA	-	-
SAF-1	1	TBA	TBA	TBA	2650	TBA	TBA	TBA	TBA	TBA	-	-
PF-1	1	TBA	TBA	TBA	400	TBA	TBA	TBA	TBA	TBA	-	-
PF-2	1	TBA	TBA	TBA	400	TBA	TBA	TBA	TBA	TBA	-	-
EF-4	1	TBA	TBA	TBA	1750	TBA	TBA	TBA	TBA	TBA	-	-
EF-5	1	TBA	TBA	TBA	1750	TBA	TBA	TBA	TBA	TBA	-	-
EF-6	1	TBA	TBA	TBA	-	TBA	TBA	TBA	TBA	TBA	-	
TEF-1	50	TBA	TBA	TBA	25	TBA	TBA	TBA	TBA	TBA	-	-
LEF-1	29	TBA	TBA	TBA	40	TBA	TBA	TBA	TBA	TBA	-	-
BUILDING 1												
LEF-1	4	TBA	TBA	TBA	40	TBA	TBA	TBA	TBA	TBA	-	-
TEF-1	11	TBA	TBA	TBA	25	TBA	TBA	TBA	TBA	TBA	-	-

DAMPER SCHEDULE

REF. NO.	SIZE	TYPE	SYSTEM
FD-1	700x400	FIRE DAMPER	EF-1
FD-2	500x500	FIRE DAMPER	EF-2
FD-3	350x200	FIRE DAMPER	EF-3
FD-4	350x200	FIRE DAMPER	EF-3
FD-5	1000x1000	FIRE DAMPER	-
FD-6	1000x1000	FIRE DAMPER	-
FD-7	200x400	FIRE DAMPER	PF-1
FD-8	200x400	FIRE DAMPER	PF-1
FD-9	550x400	FIRE DAMPER	EF-5
FD-10	700x400	FIRE DAMPER	EF-4
FD-11	300x300	FIRE DAMPER	PF-2
FD-12	400x250	FIRE DAMPER	EF-6
FD-13	400x250	FIRE DAMPER	-

BUILDING 2 - A/C EQUIPMENT SCHEDULE

REF. NO.	MAKE	MODEL	TYPE	TOTAL COOLING	HEATING CAPACITY	S/A	PHASE	PIPE	SOUND	DIMENSIONS	WEIGHT	NOTE
				Kw	Kw	L/s	ph / V / Hz	mm	dB(A)	HxWxD	Kg	
FCU-241	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 4
CU-241	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-242.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 4
FCU-242.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 4
CU-242	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-243.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 4
FCU-243.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 4
CU-243	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-244.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 4
FCU-244.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 4
CU-244	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-245.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 4
FCU-245.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 4
CU-245	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-246	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11.2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 4
CU-246	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11.2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7
FCU-247.1	DAIKIN	FXSQ25PAVE	DUCTED UNIT	2.8	3.2	-	1 / 240 / 50	6.4x12.7	33/30/28	245x550x800	25	LEVEL 4
FCU-247.2	DAIKIN	FXDQ63NBVE	DUCTED UNIT	6.1	6.9	275/241/216	1 / 240 / 50	9.5x15.9	61/59/57	200x1100x620	31	LEVEL 4
FCU-247.3	DAIKIN	FXSQ40PAVE	DUCTED UNIT	4.5	-	-	1 / 240 / 50	6.4x12.7	36/33/30	245x700x800	35	LEVEL 4
CU-247	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-251	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11.2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 5
CU-251	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11.2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7
FCU-252.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 5
FCU-252.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 5
CU-252	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-253.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 5
FCU-253.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 5
CU-253	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-254.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 5
FCU-254.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 5
CU-254	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-255.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11.2	9.5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 5
FCU-255.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2.8	3.2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 5
CU-255	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11.2	12.5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-256	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11.2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 5
CU-256	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11.2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7
FCU-257	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11.2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 5
CU-257	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11.2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7

BUILDING 2 - A/C EQUIPMENT SCHEDULE

REF. NO.	MAKE	MODEL	TYPE	TOTAL COOLING	HEATING CAPACITY	S/A	PHASE	PIPE	SOUND	DIMENSIONS	WEIGHT	NOTE
				Kw	Kw	L/s	ph / V / Hz	mm	dB(A)	HxWxD	Kg	
FCU-258	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 5
CU-258	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7
FCU-261	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 6
CU-261	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7
FCU-262.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11,2	9,5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 6
FCU-262.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2,8	3,2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 6
CU-262	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11,2	12,5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-263.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11,2	9,5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 6
FCU-263.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2,8	3,2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 6
CU-263	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11,2	12,5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-264.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11,2	9,5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 6
FCU-264.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2,8	3,2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 6
CU-254	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11,2	12,5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-265.1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11,2	9,5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 6
FCU-265.2	DAIKIN	FXDQ25TV1B	DUCTED UNIT	2,8	3,2	150	1 / 240 / 50	6.4x12.7	33 / 30.5 / 28	200x700x450	18	LEVEL 6
CU-265	DAIKIN	RXYMQ4AV4A	CONDENSING UNIT	11,2	12,5	1267	1 / 240 / 50	9.52x19.05	70	990x940x320	71	LEVEL 7
FCU-266	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 6
CU-266	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7
FCU-267	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 6
CU-267	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7
FCU-268	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 6
CU-268	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7
FCU-269	DAIKIN	FBA100BVMA	DUCTED UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	38	245x1400x800	47	LEVEL 6
CU-269	DAIKIN	RZAV100CV1	CONDENSING UNIT	10	11,2	533	1 / 240 / 50	9.52x19.05	70	1430x940x320	93	LEVEL 7
FCU-O-1	DAIKIN	FXSQ80PAVE	DUCTED UNIT	9	7,3	383	1 / 240 / 50	9.52x19.05	-	245x1000x800	27	LEVEL 7
FCU-O-2	DAIKIN	FXDQ63NBVE	DUCTED UNIT	7,1	8	275/241/216	1 / 240 / 50	6.4x12.7	33 / 31 / 29	200x1100x620	31	LEVEL 7
FCU-O-3	DAIKIN	FXDQ25NBVE	DUCTED UNIT	2,8	3,2	133/150/106	1 / 240 / 50	6.4x12.7	28 / 26 / 24	200x700x620	23	LEVEL 7
FCU-O-4	DAIKIN	FXDQ20NBVE	DUCTED UNIT	2,2	2,5	133/120/106	1 / 240 / 50	6.4x12.7	28 / 26 / 23	200x700x620	23	LEVEL 7
FCU-O-5	DAIKIN	FXDQ20NBVE	DUCTED UNIT	2,2	2,5	133/120/106	1 / 240 / 50	6.4x12.7	28 / 26 / 23	200x700x620	23	LEVEL 7
CU-O	DAIKIN	RXYMQ6AV4A	CONDENSING UNIT	16	18	1767	1 / 240 / 50	9.52x19.05	55 / 56	1345x900x320	104	LEVEL 7
FCU-P-1	DAIKIN	FXSQ100PAVE	DUCTED UNIT	11,2	9,5	533	1 / 240 / 50	9.52x19.05	32 / 39	245x1400x800	46	LEVEL 7
FCU-P-2	DAIKIN	FXDQ25NBVE	DUCTED UNIT	2,8	3,2	133/150/106	1 / 240 / 50	6.4x12.7	28 / 26 / 24	200x700x620	23	LEVEL 7
FCU-P-3	DAIKIN	FXDQ25NBVE	DUCTED UNIT	2,8	3,2	133/150/106	1 / 240 / 50	6.4x12.7	28 / 26 / 24	200x700x620	23	LEVEL 7
FCU-P-4	DAIKIN	FXDQ25NBVE	DUCTED UNIT	2,8	3,2	133/150/106	1 / 240 / 50	6.4x12.7	28 / 26 / 24	200x700x620	23	LEVEL 7
CU-P	DAIKIN	RXYMQ6AV4A	CONDENSING UNIT	16	18	1767	1 / 240 / 50	9.52x19.05	55 / 56	1345x900x320	104	LEVEL 7

NOTE

1. FAN/GRILLE SERVING THE TOILETS TO BE C/W NON-RETURN DAMPERS. TYPICAL.

2. ALL DUCTWORK TO BE MEASURED AND CHECKED ON SITE TO FIT STRUCTURE PRIOR TO MANUFACTURING

REV	DESCRIPTION	BY	DATE
05	UPDATED DESIGN OF BUILDING 1	AVDS	17.06.2021
04	UPDATED DESIGN OF APARTMENT 247	AVDS	05.05.2021
03	UPDATED CEILING LAYOUT	AVDS	07.04.2021
02	AMENDED DRAWING	AVDS	01.12.2020
01	FOR APPROVAL	AVDS	01.10.2020

ARCTIC COLD REFRIGERATION PTY., LTD.
A : Unit 1-124 Beach Road, Hervey Bay, Queensland
& 45A Walker Street, Bundaberg
P : 1300 729 889 E : bruce@arcticcold.com.au

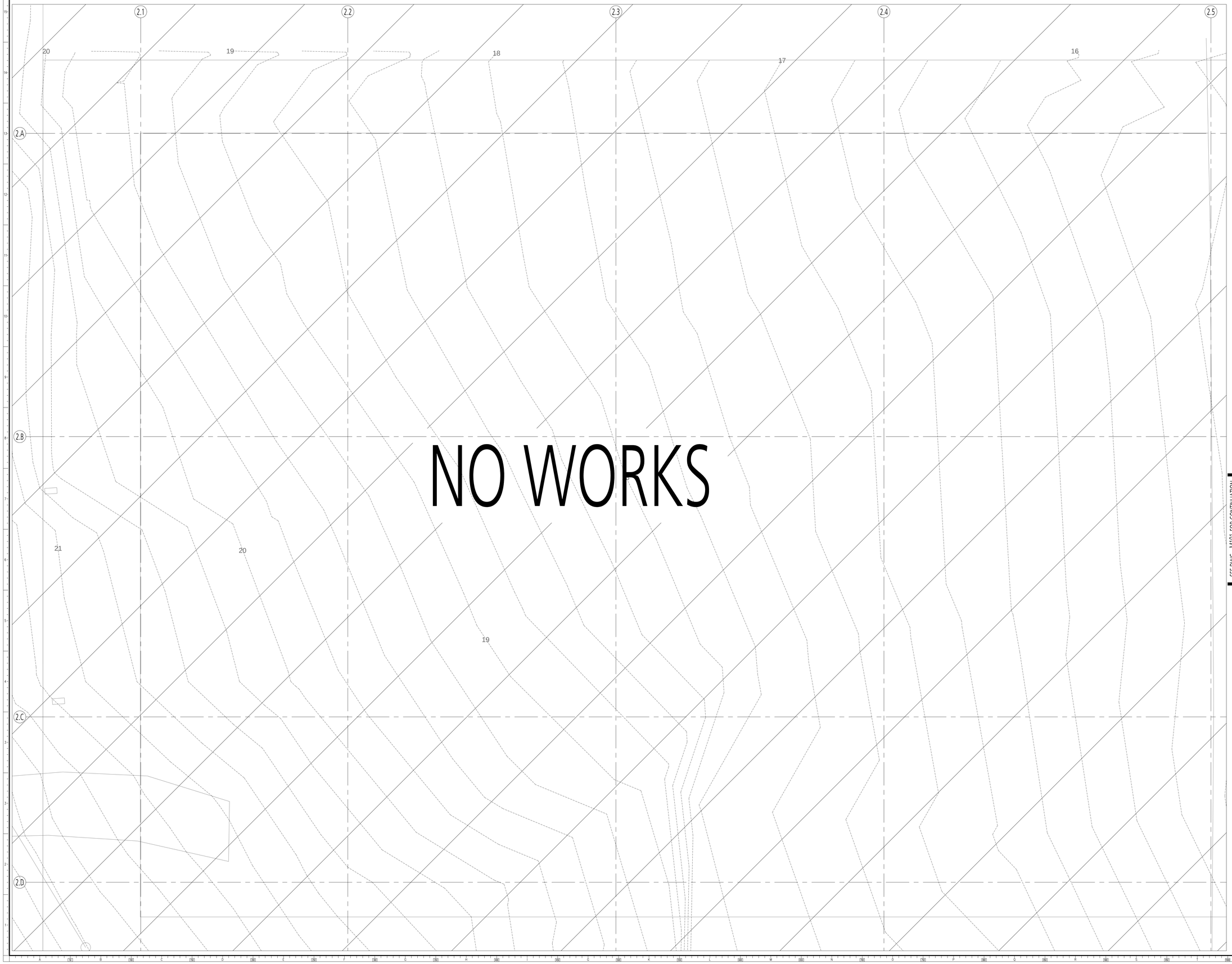
PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
SCHEDULES SHEET 2

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	01.10.2020

FOR APPROVAL

DRAWING M002 REVISION 05



NOTE
1. FAN/GRILLE SERVING THE TOILETS TO BE C/W NON-RETURN DAMPERS. TYPICAL.

2. ALL DUCTWORK TO BE MEASURED AND CHECKED ON SITE TO FIT STRUCTURE PRIOR TO MANUFACTURING

REV	DESCRIPTION	BY	DATE
09	UPDATED CEILING LAYOUT	AVDS	07.04.2021
08	AMENDED DRAWING	AVDS	01.12.2020
07	UPDATED DRAWING	AVDS	01.10.2020
06	UPDATED BACKGROUND	AVDS	18.08.2020
05	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
04	FIXED COMMENTS	AVDS	28.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

Arctic Cold
REFRIGERATION
ARCTIC COLD REFRIGERATION PTY., LTD.
A : Unit 1-124 Beach Road, Hervey Bay, Queensland
& 45A Walker Street, Bundaberg
P : 1300 729 889 E : bruce@arcticcold.com.au

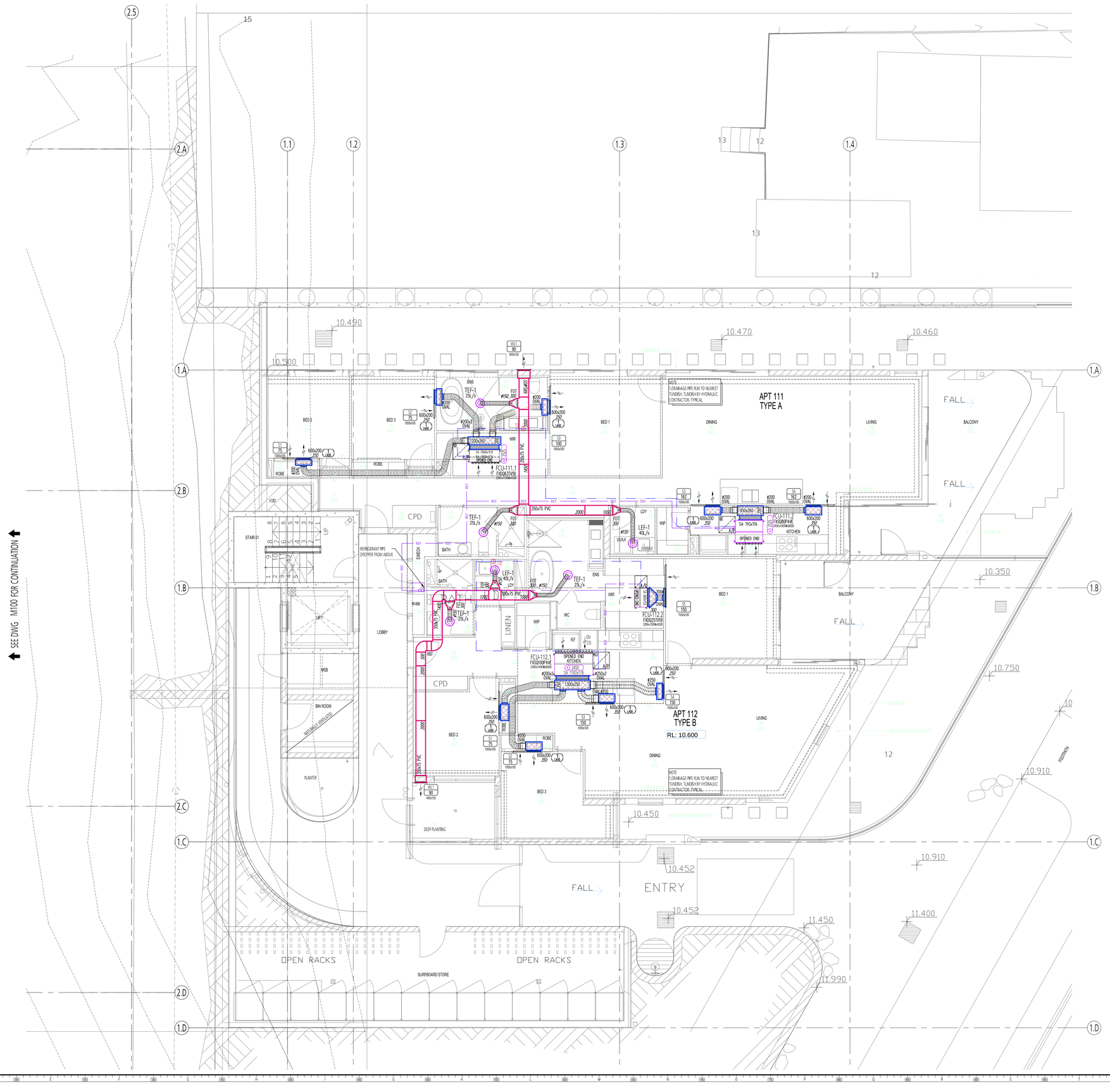
PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B2 FLOOR PLAN - LEVEL 1

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING	REVISION
M100	09



NOTE
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REV	DESCRIPTION	BY	DATE
12	UPDATED DESIGN OF BUILDING 1	AVDS	17.06.2021
11	UPDATED CEILING LAYOUT	AVDS	07.04.2021
10	AMENDED DRAWING	AVDS	01.12.2020
09	UPDATED DRAWING	AVDS	01.10.2020
08	UPDATED BACKGROUND	AVDS	18.08.2020
07	CHANGED GRILLE SIZE OF TYPE A	AVDS	12.06.2020
06	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
05	FIXED COMMENTS	AVDS	28.05.2020
04	FIXED COMMENTS	AVDS	25.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

Arctic Cold
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PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B1 FLOOR PLAN - LEVEL 1

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M101 REVISION 12

BASEMENT CARPARK
BASEMENT 2 CARPARK
47 RESIDENT BAYS
RL: 12.700

STAIR 02
STAIR 03
POOL EQUIPMENT
PUMP STATION
BIN ROOM
MECH RISER
LIFT
WATER TANK
MANOEUVRING BAY
RAMP UP
-/120/30
BIKE RACK
SPOON DRAIN
STORE
SUMP
SWMH
CHUTE VENTILATION BY BUILDER
1000x100 OPENING WITH INTUMESCENT FIRE DAMPER
EMERGENCY OFF SWITCH
AIR TIGHT RISER SHAFT BY BUILDER
1200x400 O/A DUCT RISER TO ABOVE
SEE DWG M201 FOR CONTINUATION

2-01 2-02 2-03 2-04 2-05 2-06 2- 07
2-09 2-08
2-10 2-11 2-12
2-13 2-14 2-15
2-16 2-17 2-18
2-19 2-20 2-21 2-22 2-23
2-24 2- 25 2- 26 2- 27 2- 28 2- 29 2-30 2-31 2-32 2-33 2- 34 2- 35 2- 36
2-37 2-38 2-39 2-40 2-41 2-42 2-43 2-44 2-45 2-46
M 01 M 02 M03 M04 M05

NOTE
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REV	DESCRIPTION	BY	DATE
10	UPDATED CEILING LAYOUT	AVDS	07.04.2021
09	AMENDED DRAWING	AVDS	01.12.2020
08	UPDATED DRAWING	AVDS	01.10.2020
07	UPDATED BACKGROUND	AVDS	18.08.2020
06	ADDED FIRE DAMPER	AVDS	07.07.2020
05	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
04	FIXED COMMENTS	AVDS	28.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

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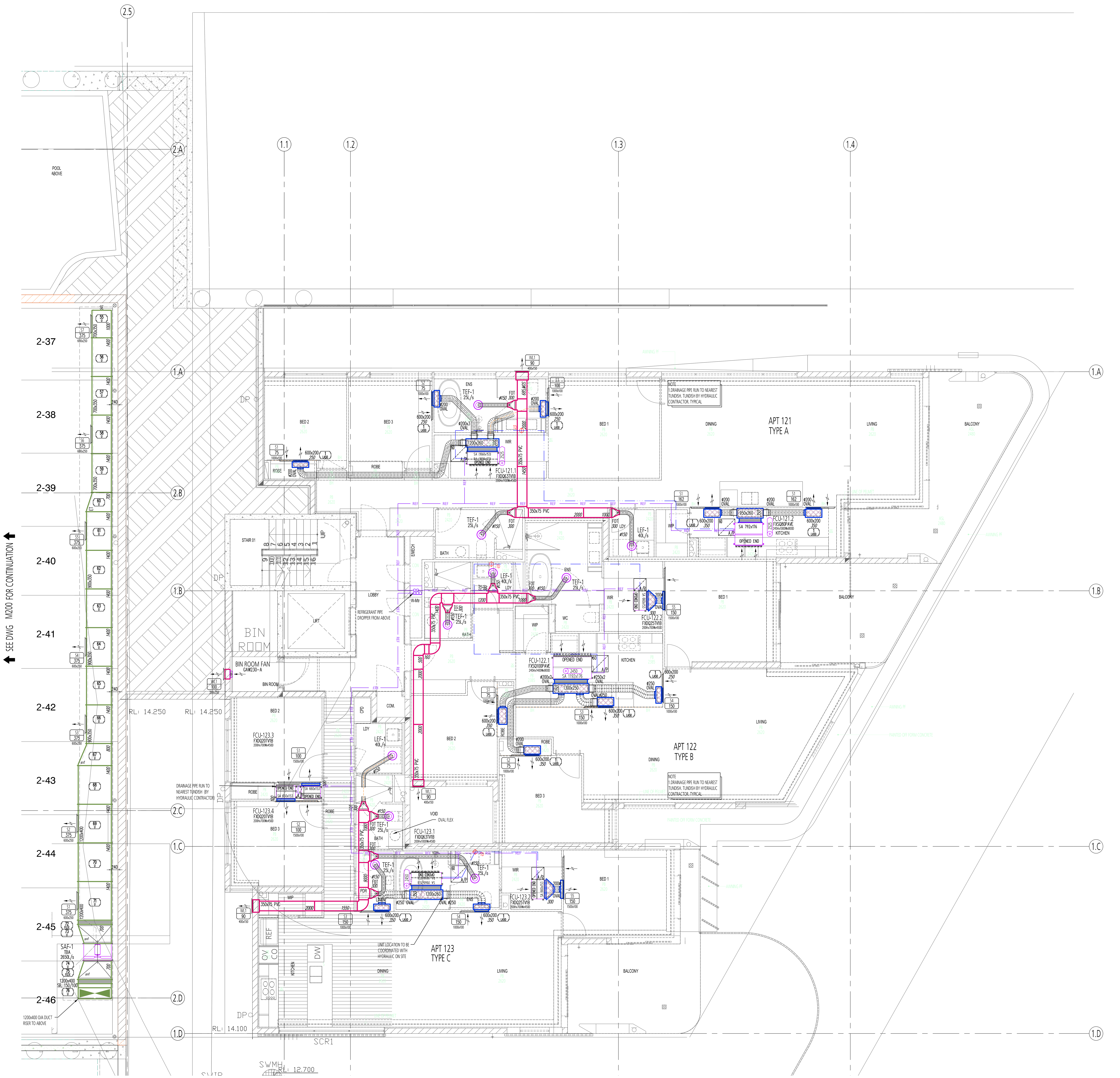
PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B2 FLOOR PLAN - LEVEL 2

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL
DRAWING M200 REVISION 10



NOTE
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2. ALL DUCTWORK TO BE MEASURED AND CHECKED ON SITE TO FIT STRUCTURE PRIOR TO MANUFACTURING

REV	DESCRIPTION	BY	DATE
12	UPDATED DESIGN OF BUILDING 1	AVDS	17.06.2021
11	UPDATED CEILING LAYOUT	AVDS	07.04.2021
10	AMENDED DRAWING	AVDS	01.12.2020
09	UPDATED DRAWING	AVDS	01.10.2020
08	UPDATED BACKGROUND	AVDS	18.08.2020
07	CHANGED GRILLLE SIZE OF TYPE A	AVDS	12.06.2020
06	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
05	FIXED COMMENTS	AVDS	28.05.2020
04	FIXED COMMENTS	AVDS	25.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

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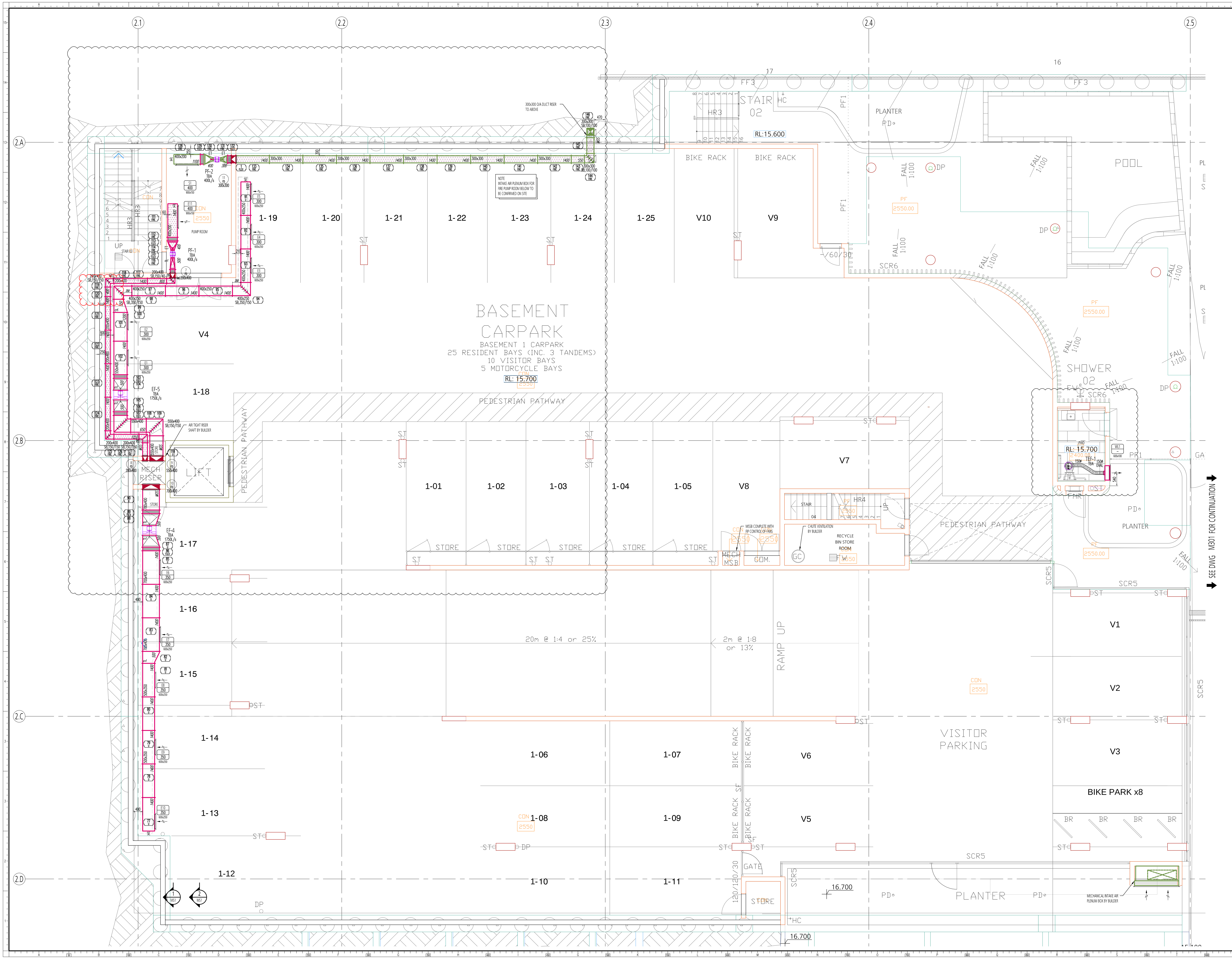
PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B1 FLOOR PLAN - LEVEL 2

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M201 REVISION 12



NOTE

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REV	DESCRIPTION	BY	DATE
10	UPDATED CEILING LAYOUT	AVDS	07.04.2021
09	AMENDED DRAWING	AVDS	01.12.2020
08	UPDATED DRAWING	AVDS	01.10.2020
07	UPDATED BACKGROUND	AVDS	18.08.2020
06	ADDED FIRE DAMPER	AVDS	07.07.2020
05	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
04	FIXED COMMENTS	AVDS	28.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

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PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B2 FLOOR PLAN - LEVEL3

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M300 REVISION 10

NOTE
1. FAN/GRILLE SERVING THE TOILETS TO BE C/W NON-RETURN DAMPERS. TYPICAL.

2. ALL DUCTWORK TO BE MEASURED AND CHECKED ON SITE TO FIT STRUCTURE PRIOR TO MANUFACTURING

REV	DESCRIPTION	BY	DATE
12	UPDATED DESIGN OF BUILDING 1	AVDS	17.06.2021
11	UPDATED CEILING LAYOUT	AVDS	07.04.2021
10	AMENDED DRAWING	AVDS	01.12.2020
09	UPDATED DRAWING	AVDS	01.10.2020
08	UPDATED BACKGROUND	AVDS	18.08.2020
07	CHANGED GRILLE SIZE OF TYPE A	AVDS	12.06.2020
06	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
05	FIXED COMMENTS	AVDS	28.05.2020
04	FIXED COMMENTS	AVDS	25.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

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P : 1300 729 889 E : bruce@arcticcold.com.au

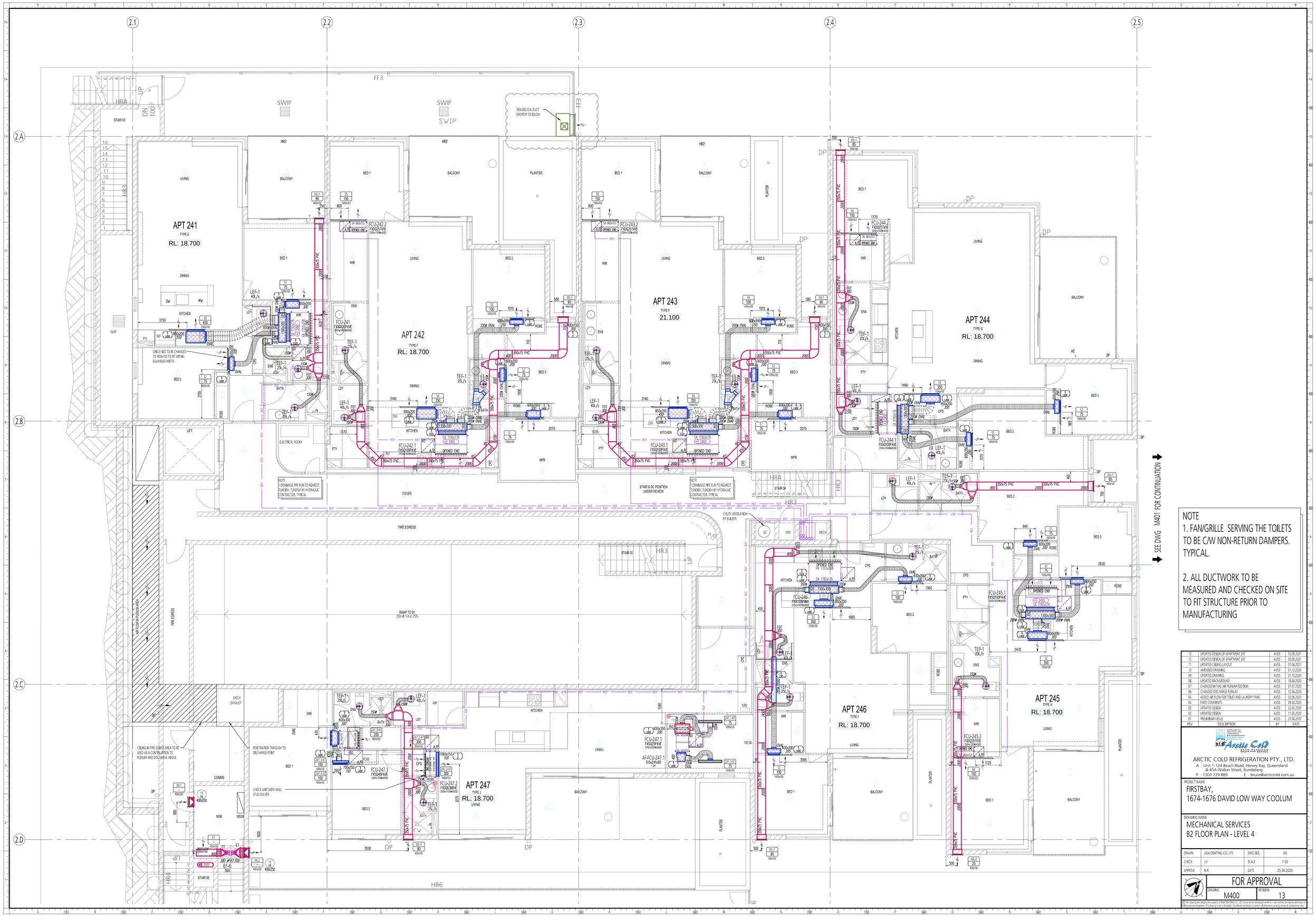
PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B1 FLOOR PLAN - LEVEL 3

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M301 REVISION 12



NOTE
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2. ALL DUCTWORK TO BE MEASURED AND CHECKED ON SITE TO FIT STRUCTURE PRIOR TO MANUFACTURING

REV	DESCRIPTION	BY	DATE
13	UPDATED DESIGN OF APARTMENT 247	AVDS	12.05.2021
12	UPDATED DESIGN OF APARTMENT 247	AVDS	05.05.2021
11	UPDATED CEILING LAYOUT	AVDS	07.04.2021
10	AMENDED DRAWING	AVDS	01.12.2020
09	UPDATED DRAWING	AVDS	01.10.2020
08	UPDATED BACKGROUND	AVDS	18.08.2020
07	CHANGED INTAKE AIR PLENUM POSITION	AVDS	07.07.2020
06	CHANGED DISCHARGE PLENUM	AVDS	12.06.2020
05	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
04	FIXED COMMENTS	AVDS	28.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

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PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B2 FLOOR PLAN - LEVEL 4

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M400 REVISION 13

SEE DWG M400 FOR CONTINUATION

NOTE
1. FAN/GRILLE SERVING THE TOILETS TO BE C/W NON-RETURN DAMPERS. TYPICAL.

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REV	DESCRIPTION	BY	DATE
12	UPDATED DESIGN OF BUILDING 1	AVDS	17.06.2021
11	UPDATED CEILING LAYOUT	AVDS	07.04.2021
10	AMENDED DRAWING	AVDS	01.12.2020
09	UPDATED DRAWING	AVDS	01.10.2020
08	UPDATED BACKGROUND	AVDS	18.08.2020
07	CHANGED GRILLE SIZE OF TYPE A	AVDS	12.06.2020
06	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
05	FIXED COMMENTS	AVDS	28.05.2020
04	FIXED COMMENTS	AVDS	25.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

ARCTIC COLD REFRIGERATION PTY., LTD.
A : Unit 1-124 Beach Road, Hervey Bay, Queensland & 45A Walker Street, Bundaberg
P : 1300 729 889 E : bruce@arcticcold.com.au

PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B1 FLOOR PLAN - LEVEL 4

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING	REVISION
M401	12

NOTE
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REV	DESCRIPTION	BY	DATE
11	UPDATED CEILING LAYOUT	AVDS	07.04.2021
10	AMENDED DRAWING	AVDS	01.12.2020
09	UPDATED DRAWING	AVDS	01.10.2020
08	UPDATED BACKGROUND	AVDS	18.08.2020
07	CHANGED DISCHARGE CLOSURE SIZE	AVDS	12.06.2020
06	CHANGED POSITION OF DISCHARGE PLENUM	AVDS	12.06.2020
05	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
04	FIXED COMMENTS	AVDS	28.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

ARCTIC COLD REFRIGERATION PTY., LTD.
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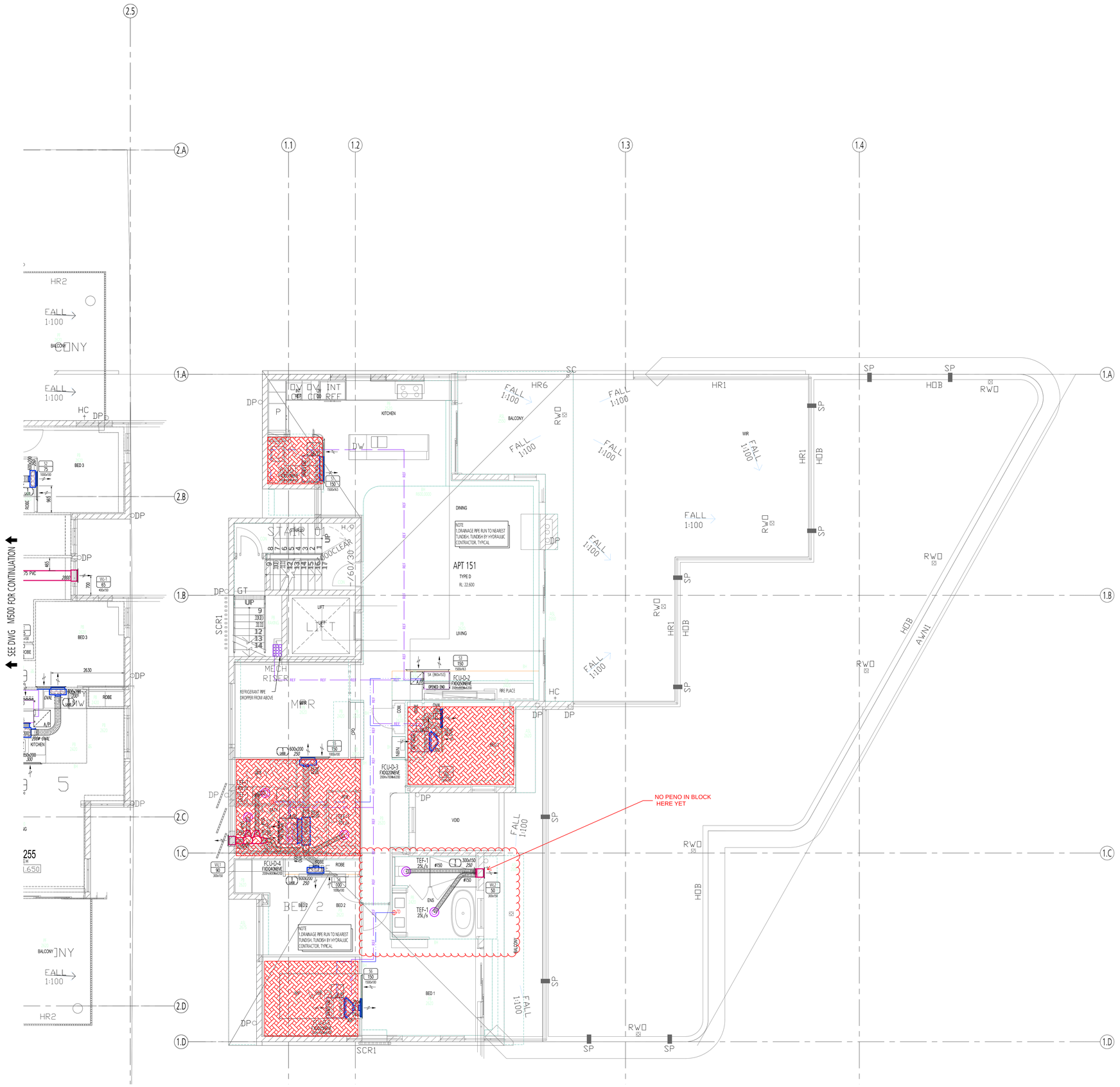
PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B2 FLOOR PLAN - LEVEL 5

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M500 REVISION 11



NOTE
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REV	DESCRIPTION	BY	DATE
11	UPDATED DESIGN OF BUILDING 1	AVDS	17.06.2021
10	UPDATED CEILING LAYOUT	AVDS	07.04.2021
09	AMENDED DRAWING	AVDS	01.12.2020
08	UPDATED DRAWING	AVDS	01.10.2020
07	UPDATED BACKGROUND	AVDS	18.08.2020
06	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
05	FIXED COMMENTS	AVDS	28.05.2020
04	FIXED COMMENTS	AVDS	25.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

ARCTIC COLD REFRIGERATION PTY., LTD.
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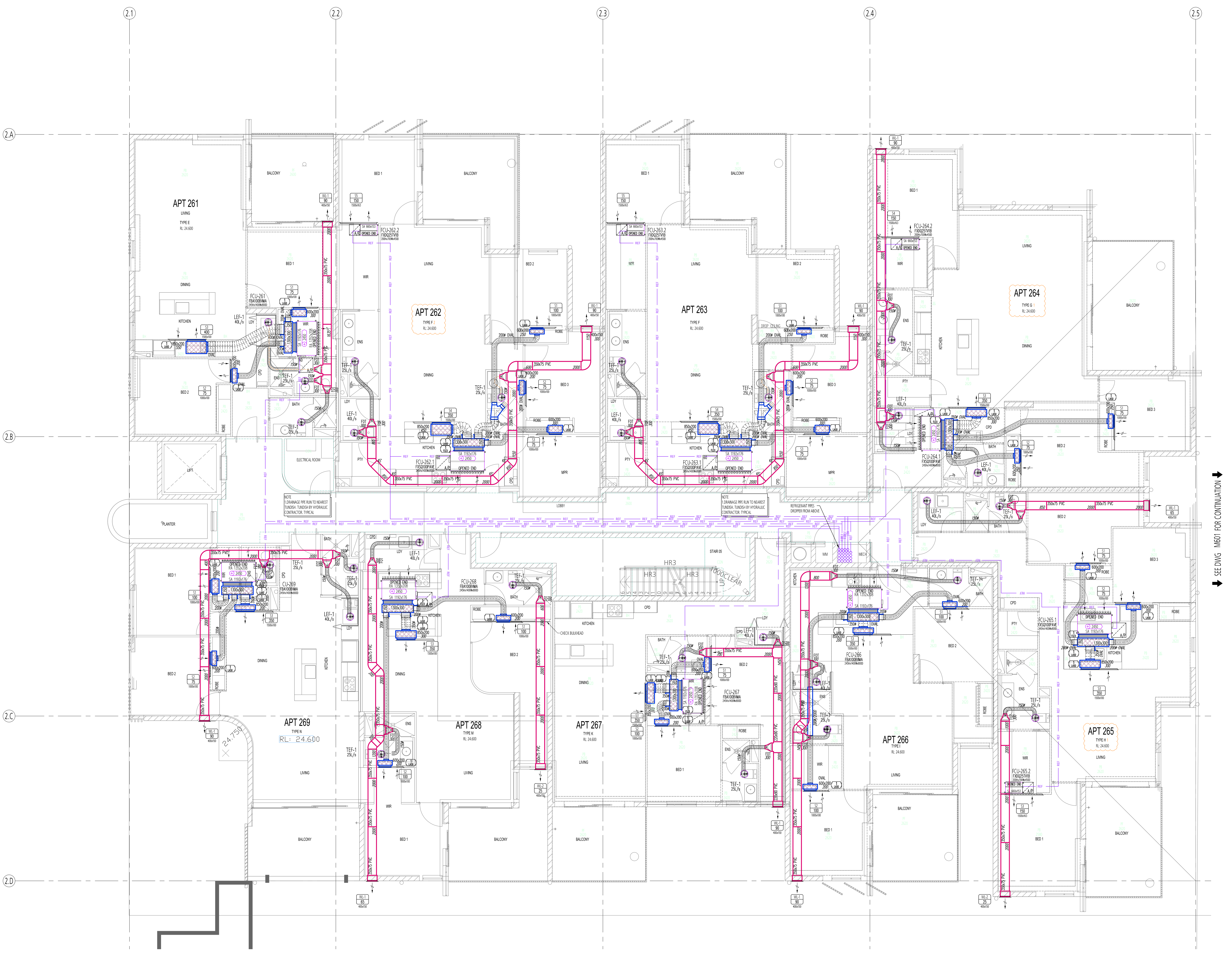
PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B1 FLOOR PLAN - LEVEL 5

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M501 REVISION 11



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REV	DESCRIPTION	BY	DATE
10	UPDATED CEILING LAYOUT	AVDS	07.04.2021
09	AMENDED DRAWING	AVDS	01.12.2020
08	UPDATED DRAWING	AVDS	01.10.2020
07	UPDATED BACKGROUND	AVDS	18.08.2020
06	CHANGED DISCHARGE PLENUM	AVDS	12.06.2020
05	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
04	FIXED COMMENTS	AVDS	28.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

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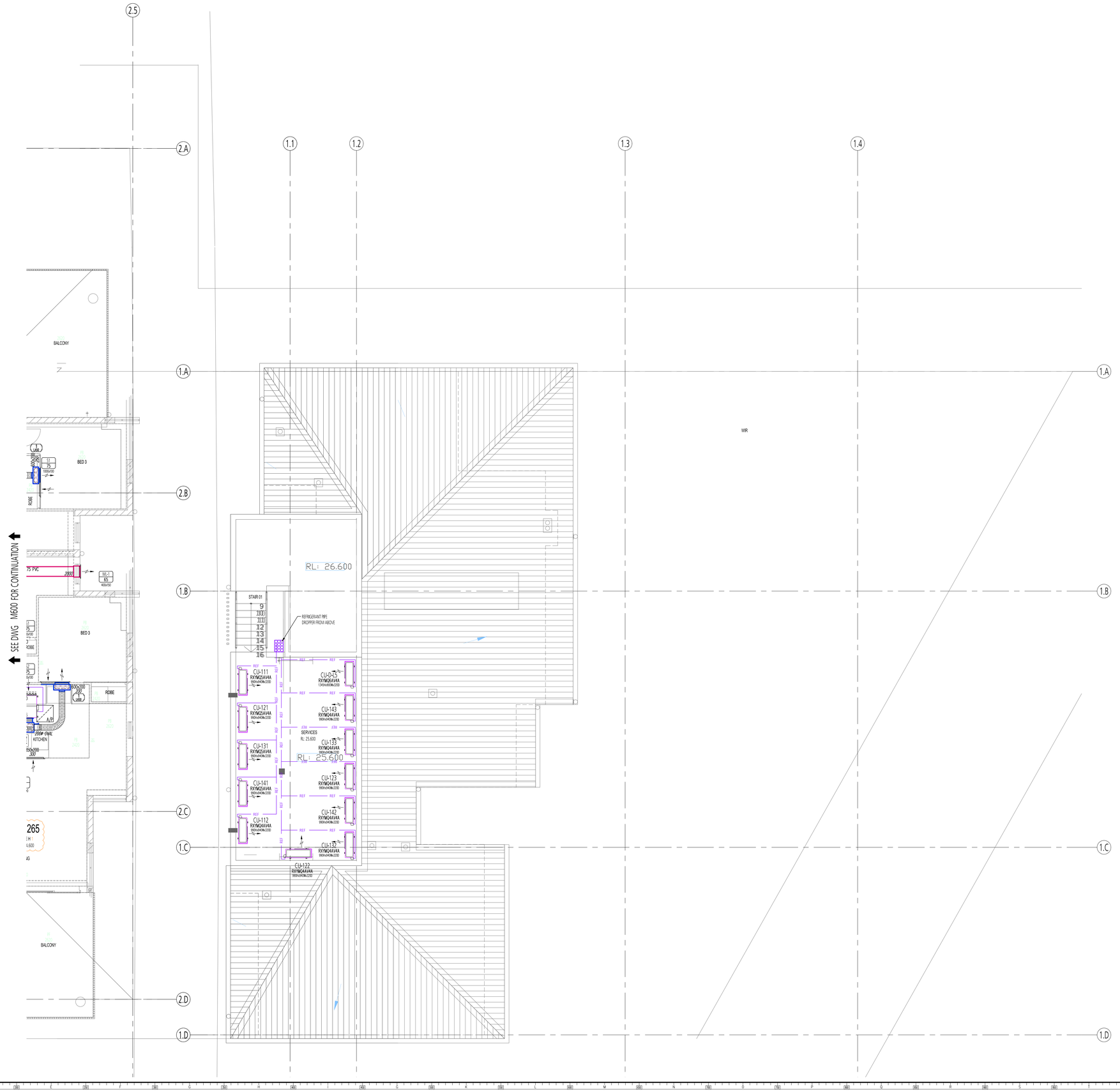
PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B2 FLOOR PLAN - LEVEL 6

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M600 REVISION 10



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REV	DESCRIPTION	BY	DATE
09	UPDATED CEILING LAYOUT	AVDS	07.04.2021
08	AMENDED DRAWING	AVDS	01.12.2020
07	UPDATED DRAWING	AVDS	01.10.2020
06	UPDATED BACKGROUND	AVDS	18.08.2020
05	FIXED COMMENTS	AVDS	28.05.2020
04	FIXED COMMENTS	AVDS	25.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

ARCTIC COLD REFRIGERATION PTY., LTD.
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PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B1 ROOF PLAN

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING M601 REVISION 09

2.1 2.2 2.3 2.4 2.5

2.A 2.B 2.C 2.D

APT 271
TYPE O
LIVING
RL: 27.700

APT 272
TYPE P
DINING
RL: 27.700

DASHED LINE OF WALLS BELOW

NOTE
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REV	DESCRIPTION	BY	DATE
09	UPDATED CEILING LAYOUT	AVDS	07.04.2021
08	AMENDED DRAWING	AVDS	01.12.2020
07	UPDATED DRAWING	AVDS	01.12.2020
06	UPDATED BACKGROUND	AVDS	18.08.2020
05	ADDED AIR FLOW FOR TOILET AND LAUNDRY FANS	AVDS	02.06.2020
04	FIXED COMMENTS	AVDS	28.05.2020
03	UPDATED DESIGN	AVDS	22.05.2020
02	UPDATED DESIGN	AVDS	11.05.2020
01	PRELIMINARY ISSUE	AVDS	27.04.2020

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PROJECT NAME
FIRSTBAY,
1674-1676 DAVID LOW WAY COOLUM

DRAWING NAME
MECHANICAL SERVICES
B2 FLOOR PLAN - LEVEL 7

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

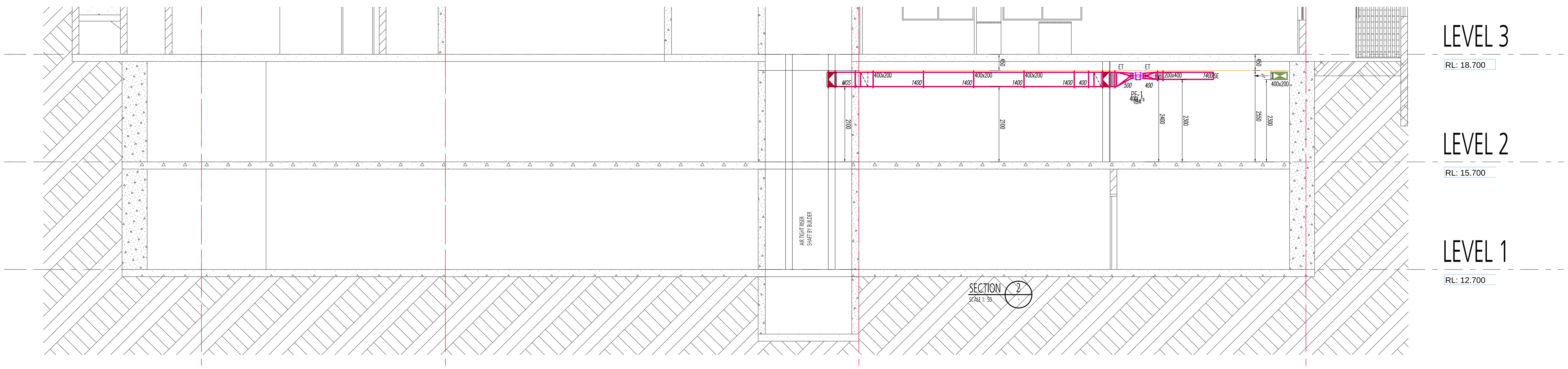
FOR APPROVAL

DRAWING M700 REVISION 09

NOTE

1. FAN/GRILLE SERVING THE TOILETS TO BE C/W NON-RETURN DAMPERS. TYPICAL.

2. ALL DUCTWORK TO BE MEASURED AND CHECKED ON SITE TO FIT STRUCTURE PRIOR TO MANUFACTURING



REV	DESCRIPTION	BY	DATE
04	UPDATED CEILING LAYOUT	AVDS	07.04.2021
03	AMENDED DRAWING	AVDS	01.12.2020
02	UPDATED DRAWING	AVDS	01.10.2020
01	PRELIMINARY ISSUE	AVDS	18.08.2020

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PROJECT NAME
FIRSTBAY,
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DRAWING NAME
MECHANICAL SERVICES
SECTIONS

DRAWN	ASIA DRAFTING CO., LTD	DWG SIZE	A0
CHECK	J.V	SCALE	1:50
APPROVE	B.R	DATE	25.04.2020

FOR APPROVAL

DRAWING MS1 REVISION 04