

Heatherwick Studios

JR/445/Cassette 070806

Outline Cassette VRV Equipment Schedule

Air Options
Air Conditioning Services



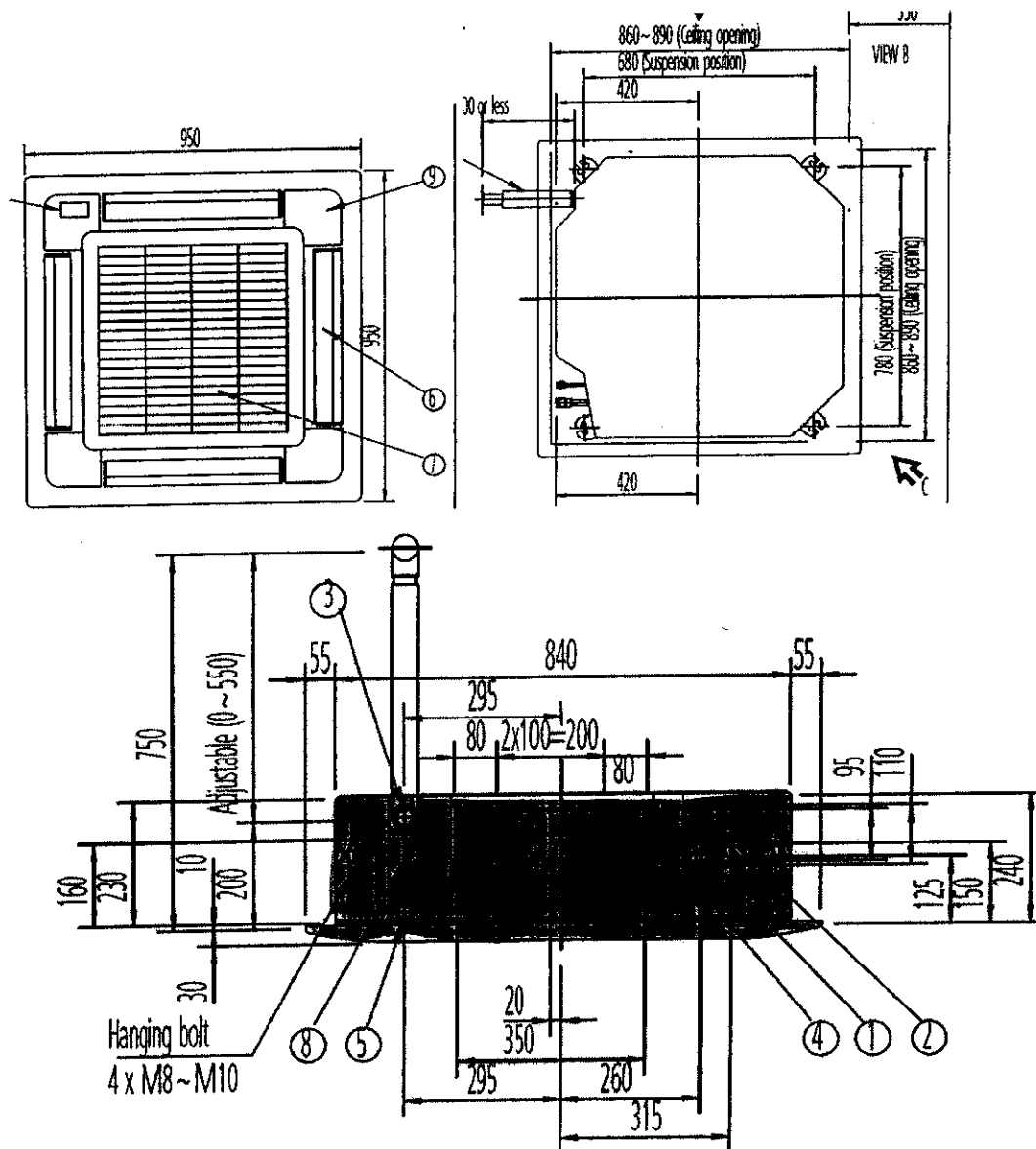
Zone	Quantity	Plant Ref.	Total Nominal Cooling (Kw)	Total Nominal Heating (Kw)	Height (With Grille)	Width (With Grille)	Depth (With Grille)	Airflow Rate (High m3/min)	Weight kg	Sound Pressure (High dBA)
Internal Plant	6	FCQ80M8	54	60	328	950	950	28	33	38
	1	FCQ63M8	7.1	8	270	950	950	18	30	34
Cellular Meeting Room										
	1	FCQ40M8	4.5	5	270	950	950	14	29	32
Model Workshop										
	1	FCQ80M8	9	10	328	950	950	28	33	38
External Plant										
VRV Condensing Unit	1	RXYQ26	78.4	88.3	1680	2170	765	-	541	-

note:

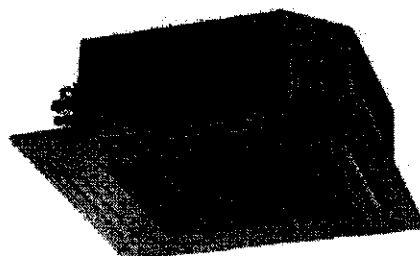
We would recommend a fixed independent plant (Cooling Only) serves the server room. Final Design to be submitted.

Continued

Equipment Specifications Internal Cassette Type Units



Nr	Part name
1	Liquid pipe connection
2	Gas pipe connection
3	Drain pipe connection
4	Power supply connection
5	Transmission wiring connection
6	Air discharge grille
7	Air suction grille
8	Water supply intake
9	Corner decoration cover
10	Drain hose



1 Specifications

1-1 TECHNICAL SPECIFICATIONS				RXYQ5P7W1B	RXYQ8P7W1B	RXYQ10P7W1B	RXYQ12P7W1B	RXYQ14P7W1B	
Capacity	Cooling	kW		14.0	22.4	28.0	33.5	40.0	
	Heating	kW		16.0	25.0	31.5	37.5	45.0	
COP	Cooling			3.98	4.03	3.77	3.48	3.23	
	Heating			4.00	4.27	4.09	3.97	3.98	
Capacity range		HP		5	8	10	12	14	
Power input (Nominal)	Cooling	kW		3.52	5.56	7.42	9.62	12.4	
	Heating	kW		4.00	5.86	7.70	9.44	11.30	
PED category				Category II					
Max n° of indoor units to be connected				12	20	25	30	35	
Indoor index connection	Minimum			62.5	100	125	150	175	
	Maximum			250	400	500	600	700	
Casing	Colour			Dakin White					
	Material			Painted galvanised steel					
Dimensions	Packing	Height	mm	1,855					
		Width	mm	796	1,055	1,055	1,055	1,365	
		Depth	mm	765	765	765	765	765	
	Unit	Height	mm	1,680					
		Width	mm	635	930	930	930	1,240	
		Depth	mm	765	765	765	765	765	
Weight	Unit		kg	159	187	240	240	317	
	Packed Unit		kg	182	217	273	273	357	
Packing	Material			Carbon					
	Weight		kg	3.80	4.02	4.02	4.02	6.35	
	Material			Wood					
	Weight		kg	19.15	20.85	20.85	20.85	23.55	
	Material			Plastic					
	Weight		kg	0.215	0.265	0.265	0.265	0.330	
Heat Exchanger	Dimensions	Length	mm	1,483	1,778	1,778	1,778	2,088	
		Nr of Rows		54	54	54	54	54	
		Fin Pitch	mm	2.00	2.00	2.00	2.00	2.00	
		Nr of Passes		8	18	18	18	21	
		Face Area	m²	1.762	2.112	2.112	2.112	2.481	
		Nr of Stages		2	2	2	2	2	
	Tube type			Hi-XSS (8)					
	Fin	Fin type			Non-symmetric waffle louvre				
		Treatment			Hydrophilic and anti corrosion resistant				
	Fan	Type			Propeller				
Quantity			1	1	1	1	2		
Air Flow Rate (nominal at 230V)		Cooling	m³/min	95	171	185	196	233	
		Heating	m³/min	95	171	185	196	233	
External static pressure		Pa	60	60	60	60	60		
Discharge direction			Vertical						
Motor		Quantity		1	1	1	1	2	
		Model		Brushless DC					
	Output motor	W	350	750	750	750	2 x 350		

1 Specifications

1.1 TECHNICAL SPECIFICATIONS				RXYQ5P7W1B	RXYQ6P7W1B	RXYQ10P7W1B	RXYQ12P7W1B	RXYQ14P7W1B	
Compressor	Quantity			1	1	2	2	3	
	Motor	Quantity			1	1	1	1	1
		Model			Inverter				
		Type			Hermetically sealed scroll compressor				
		Speed	rpm		6,300	7,980	6,300	6,300	6,300
		Motor Output	kW		2.8	3.8	1.2	2.8	0.3
		Crankcase Heater	W		33	33	33	33	33
		Quantity					1	1	2
		Model					ON - OFF	ON - OFF	ON - OFF
		Type					Hermetically sealed scroll compressor	Hermetically sealed scroll compressor	Hermetically sealed scroll compressor
		Speed	rpm				2,900	2,900	2,900
		Motor Output	kW				4.5	4.5	4.5
		Crankcase Heater	W				33	33	33
		Operation Range	Cooling	Min	°CDB	-5.0	-5.0	-5.0	-5.0
Max	°CDB			43.0	43.0	43.0	43.0	43.0	
Heating	Min		°CWB	-20.0	-20.0	-20.0	-20.0	-20.0	
	Max		°CWB	15.0	15.0	15.0	15.0	15.0	
Sound Level	Cooling	Sound Power	dB(A)	72	78	78	80	80	
		Sound Pressure	dB(A)	54	57	58	60	60	
Refrigerant	Name			R-410A					
	Charge	kg		6.2	7.7	8.4	8.6	12.3	
	Control			Expansion valve (electronic type)					
	Nr of Circuits			1	1	1	1	1	
Refrigerant Oil	Name			Synthetic (ether) oil					
	Charged Volume	l			0.4	1.0	1.0	1.6	
Piping connections	Liquid (OD)	Type		Braze connection					
		Diameter (OD)	mm	9.5	9.5	9.5	12.7	12.7	
	Gas	Type		Braze connection					
		Diameter (OD)	mm	15.9	19.1	22.2	28.6	28.6	
	Heat Insulation			Both liquid and gas pipes					
Max total length			m	1000	1000	1000	1000	1000	
Defrost Method				Reversed cycle					
Defrost control				Sensor for outdoor heat exchanger temperature					
Capacity control method				Inverter controlled					
Capacity Control				~ 100					
Safety devices				HPS					
				Fan motor driver overload protector					
				Over current relay					
				Inverter overload protector					
				PC board fuse					
				Installation and operation manual					
Standard Accessories	Standard Accessories								
	Quantity			1	1	1	1	1	
	Standard Accessories			Connection pipes					
Quantity			4	4	4	4	4		

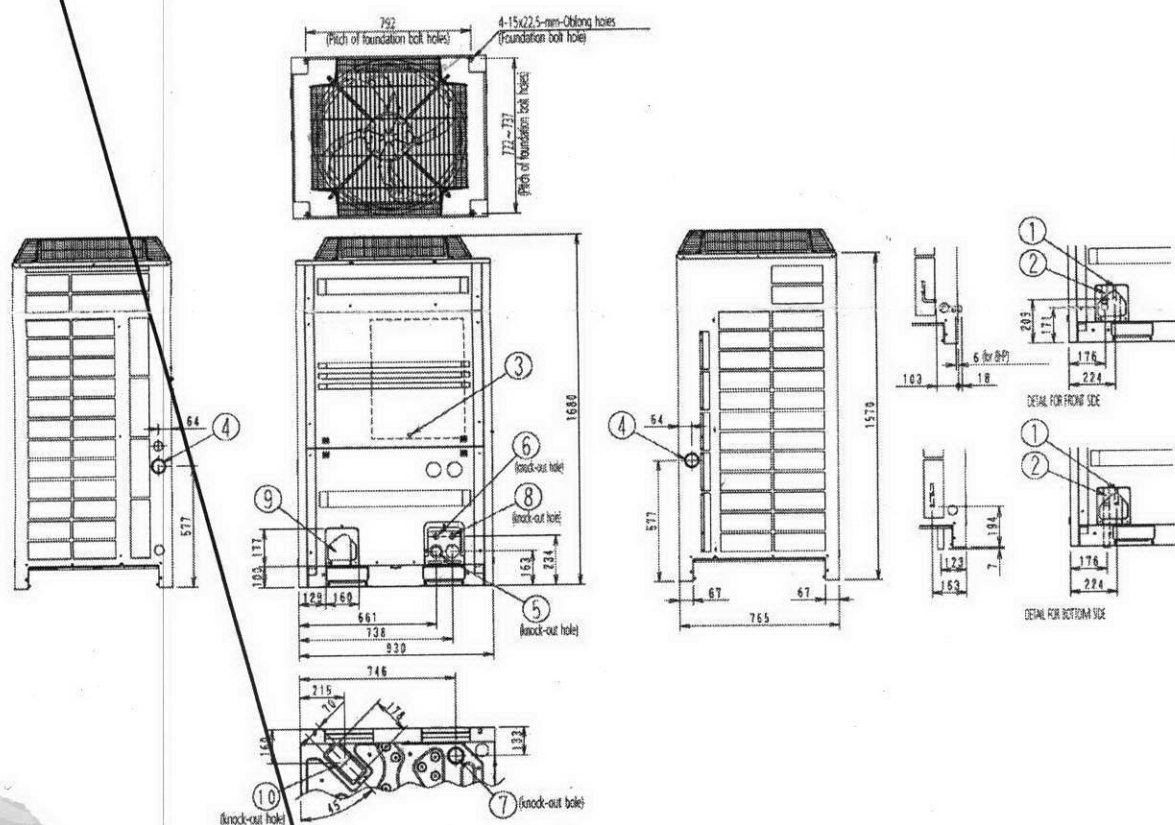
1 Specifications

1 TECHNICAL SPECIFICATIONS		RXYQ5P7W1B	RXYQ5P7W1B	RXYQ5P7W1B	RXYQ5P7W1B	RXYQ5P7W1B
Notes	Nominal cooling capacities are based on: indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.					
	Nominal heating capacities are based on: indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m					
	Sound power level is an absolute value that a sound source generates.					
	Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings.					
	Sound values are measured in a semi-anechoic room.					
	Indoor index connection: when indoor models FXFQ20M, FXFQ25M and VKM models are connected, maximum connection ratio is 130%					

4 Dimensional drawing & centre of gravity

4 - 1 Dimensional drawing

RXYQ8,10P



We propose installing a RXYQ26P, which is made up from a RXYQ18 + RXYQ8 system bolted together.
The total dimensions will be Width 2170mm x Length 737mm x Height 1680mm.
For further details, please contact:
Air Options Ltd.
Wayne Longman, 01473 326 313 / 07967 749 163

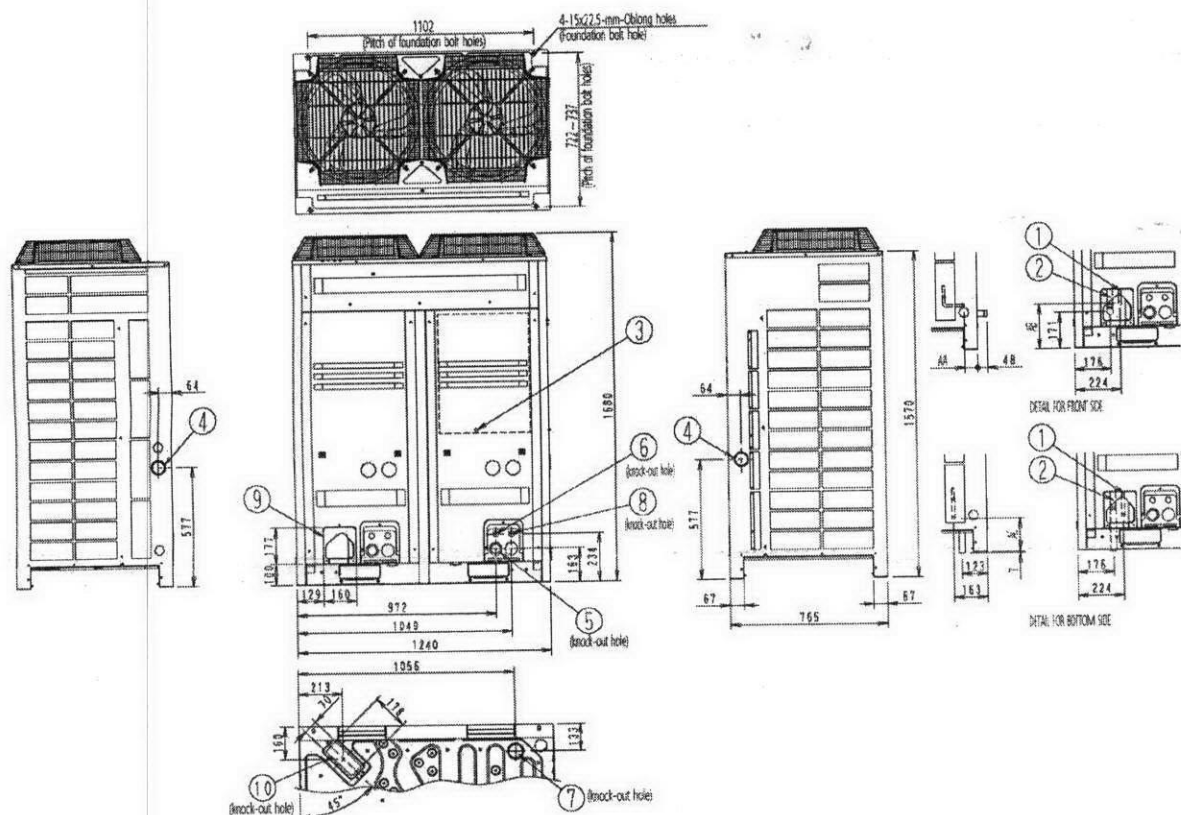
No.	Parts name	Remarks
1	Liquid pipe connection port	See note 2.
2	Gas pipe connection port	See note 2.
3	Grounding terminal	Inside of switch box (M8)
4	Power cord routing hole (side)	ø62
5	Power cord routing hole (front)	ø45
6	Power cord routing hole (front)	ø27
7	Power cord routing hole (bottom)	ø65.5
8	Wire routing hole (front)	ø27
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	

NOTES

- Detail for front side and detail for bottom side indicate the dimensions after fixing the attached piping.
- Gas pipe [Heat pump type]
ø19.1 Brazing connection 8P type
ø22.2 Brazing connection 10P type
Liquid pipe [Heat pump type]
ø9.5 Brazing connection 8-10P type

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RXYQ14,16,18P



No.	Parts name	Remarks
1	Liquid pipe connection port	See note 2.
2	Gas pipe connection port	See note 2.
3	Grounding terminal	Inside of switch box (M8)
4	Power cord routing hole (side)	ø62
5	Power cord routing hole (front)	ø45
6	Power cord routing hole (front)	ø27
7	Power cord routing hole (bottom)	ø65.5
8	Wire routing hole (front)	ø27
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	

NOTES

- Detail for front side and detail for bottom side indicate the dimensions after fixing the attached piping.
- Gas pipe [Heat pump type]
ø28.6 Brazing connection 14-16P type
Liquid pipe [Heat pump type]
ø15.9 Brazing connection 18P type
ø12.7 Brazing connection 14-16P type

AA	Model name	AB	Model name	AC	Model name
83	RXYQ14-16P	211	RXYQ14-16-18P	179	RXYQ14-16P
63	RXYQ18P			160	RXYQ18P

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