DAIKIN

technical data

RXS-F2V1B

air conditioning systems

R-410A

Split Sky Air

Split - Sky Air

Het ISO14001 assures an effective environmental management system in order to help protect human health and the environment from potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

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1 Features

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RXS25F2V1B	RXS35F2V1B	RXS50F2V1B	RXS60F2V1B	RXS71FV1B
For combination indoor units + outdoor units	Indoor Units			FVXS25FV1B	FVXS35FV1B	FTXS50FV1B	FTXS60FV1B	FTXS71FV1B
Cooling capacity	Minimum	kW		1.3	1.4	1.7	1.7	2.3
	Standard	kW		2.5	3.5	5.0	6.0	7.1
	Maximum	kW		3.0	3.8	6.0	6.7	8.5
Heating capacity	Minimum	kW		1.3	1.4	1.7	1.7	2.3
	Standard	kW		3.4	4.5	5.8	7.0	8.2
	Maximum	kW		4.5	5.0	7.7	8.0	10.2
Nominal input	Cooling	Minimum	kW	0.30	0.30	0.44	0.44	0.57
		Standard	kW	0.57	1.02	1.55	1.99	2.35
		Maximum	kW	0.92	1.25	2.08	2.40	3.20
	Heating	Minimum	kW	0.29	0.31	0.40	0.40	0.52
		Standard	kW	0.79	1.22	1.60	2.04	2.55
		Maximum	kW	1.39	1.88	2.53	2.81	3.82
For combination indoor units + outdoor units	EER	Nominal		4.39	3.43	3.23	3.02	3.02
	COP	Nominal		4.30	3.69	3.63	3.43	3.22
	Energy Labeling Directive	Cooling		A	A	A	B	B
		Heating		A	A	A	B	C
	Annual energy consumption		kWh	285	510	775	995	1175
	Indoor Units				FCQ35C7VEB	FVXS50FV1B	FDXS60CVMB	
Cooling capacity	Minimum	kW			1.4	1.4	1.7	
	Standard	kW			3.4	5.0	6.0	
	Maximum	kW			3.7	5.6	6.5	
Heating capacity	Minimum	kW			1.4	1.4	1.7	
	Standard	kW			4.2	5.8	7.0	
	Maximum	kW			5.0	8.1	8.0	
Nominal input	Cooling	Minimum	kW			0.50	0.44	
		Standard	kW		0.95	1.55	2.13	
		Maximum	kW			2.00	2.49	
	Heating	Minimum	kW			0.50	0.40	
		Standard	kW		1.23	1.60	2.32	
		Maximum	kW			2.60	3.18	
For combination indoor units + outdoor units	EER	Nominal			3.58	3.23	2.82	
	COP	Nominal			3.41	3.63	3.02	
	Energy Labeling Directive	Cooling			A	A	C	
		Heating			B	A	D	
	Annual energy consumption		kWh		475	775	1065	
	Indoor Units					FDXS50CVMB	FBQ60B8V1	
Cooling capacity	Minimum	kW				1.7		
	Standard	kW				5.0	5.7	
	Maximum	kW				5.3		
Heating capacity	Minimum	kW				1.7		
	Standard	kW				5.8	7.0	
	Maximum	kW				6.0		
Nominal input	Cooling	Minimum	kW			0.44		
		Standard	kW			1.65	2.19	
		Maximum	kW			1.93		
	Heating	Minimum	kW			0.40		
		Standard	kW			1.92	2.50	
		Maximum	kW			2.04		

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RXS25F2V1B	RXS35F2V1B	RXS50F2V1B	RXS60F2V1B	RXS71FV1B
For combination indoor units + outdoor units	EER	Nominal				3.03	2.60	
	COP	Nominal				3.02	2.80	
	Energy Labeling Directive	Cooling				B	E	
		Heating				D	E	
	Annual energy consumption		kWh			825	1095	
	Indoor Units					FLXS50BAVMB	FCQ60C7VEB	
Cooling capacity	Minimum	kW				1.7	0.9	
	Standard	kW				4.9	5.7	
	Maximum	kW				5.3	6.0	
Heating capacity	Minimum	kW				1.7	0.9	
	Standard	kW				6.1	7.0	
	Maximum	kW				7.5	8.0	
Nominal input	Cooling	Minimum	kW			0.44		
		Standard	kW			1.72	1.64	
		Maximum	kW			1.95		
	Heating	Minimum	kW			0.40		
		Standard	kW			1.82	1.99	
		Maximum	kW			3.54		
For combination indoor units + outdoor units	EER	Nominal				2.85	3.48	
	COP	Nominal				3.35	3.52	
	Energy Labeling Directive	Cooling				C	A	
		Heating				C	B	
	Annual energy consumption		kWh			860	820	
	Indoor Units					FTXS50D2V1W	FFQ60B8V1B	
Cooling capacity	Minimum	kW				1.7		
	Standard	kW				5.0	5.8	
	Maximum	kW				5.2		
Heating capacity	Minimum	kW				1.7		
	Standard	kW				5.8	7.0	
	Maximum	kW				6.0		
Nominal input	Cooling	Minimum	kW			0.44		
		Standard	kW			1.65	2.07	
		Maximum	kW			1.82		
	Heating	Minimum	kW			0.40		
		Standard	kW			2.06	2.49	
		Maximum	kW			2.19		
For combination indoor units + outdoor units	EER	Nominal				3.03	2.80	
	COP	Nominal				2.82	2.81	
	Energy Labeling Directive	Cooling				B	D	
		Heating				D	D	
	Annual energy consumption		kWh			825	1035	
	Indoor Units					FTXS50D2V1L	FHQ60BVV1B	
Cooling capacity	Minimum	kW				1.7	1.7	
	Standard	kW				5.0	5.7	
	Maximum	kW				5.2	6.0	
Heating capacity	Minimum	kW				1.7	1.7	
	Standard	kW				5.8	7.2	
	Maximum	kW				6.0	8.0	
Nominal input	Cooling	Minimum	kW			0.44	0.44	
		Standard	kW			1.65	2.15	
		Maximum	kW			1.82	2.23	
	Heating	Minimum	kW			0.40	0.40	
		Standard	kW			2.06	2.49	
		Maximum	kW			2.19	2.75	

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RXS25F2V1B	RXS35F2V1B	RXS50F2V1B	RXS60F2V1B	RXS71FV1B
For combination indoor units + outdoor units	EER	Nominal				3.03	2.65	
	COP	Nominal				2.82	2.89	
	Energy Labeling Directive	Cooling				B	D	
		Heating				D	D	
	Annual energy consumption		kWh			825	1075	
	Indoor Units					FCQ50C7VEB		
Cooling capacity	Minimum	kW				0.9		
	Standard	kW				5.0		
	Maximum	kW				5.6		
Heating capacity	Minimum	kW				0.9		
	Standard	kW				6.0		
	Maximum	kW				7.0		
Nominal input	Cooling	Standard	kW			1.41		
	Heating	Standard	kW			1.62		
For combination indoor units + outdoor units	EER	Nominal				3.55		
	COP	Nominal				3.70		
	Energy Labeling Directive	Cooling				A		
		Heating				A		
	Annual energy consumption		kWh			705		
	Indoor Units					FBQ50B8V1		
Cooling capacity	Standard	kW				5.0		
Heating capacity	Standard	kW				6.0		
Nominal input	Cooling	Standard	kW			1.92		
	Heating	Standard	kW			1.87		
For combination indoor units + outdoor units	EER	Nominal				2.60		
	COP	Nominal				3.21		
	Energy Labeling Directive	Cooling				E		
		Heating				C		
	Annual energy consumption		kWh			960		
	Indoor Units					FFQ50B8VMB		
Cooling capacity	Standard	kW				4.70		
Heating capacity	Standard	kW				5.50		
Nominal input	Cooling	Standard	kW			1.80		
	Heating	Standard	kW			1.96		
For combination indoor units + outdoor units	EER	Nominal				2.61		
	COP	Nominal				2.81		
	Energy Labeling Directive	Cooling				D		
		Heating				D		
	Annual energy consumption		kWh			900		
	Indoor Units					FHQ50BVV1B		
Cooling capacity	Minimum	kW				1.7		
	Standard	kW				5.0		
	Maximum	kW				5.6		
Heating capacity	Minimum	kW				0.9		
	Standard	kW				1.7		
	Maximum	kW				7.0		

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RXS25F2V1B	RXS35F2V1B	RXS50F2V1B	RXS60F2V1B	RXS71FV1B
Nominal input	Cooling	Minimum	kW			0.44		
		Standard	kW			1.83		
		Maximum	kW			2.02		
	Heating	Minimum	kW			0.40		
		Standard	kW			2.05		
		Maximum	kW			2.45		
For combination indoor units + outdoor units	EER	Nominal				2.73		
	COP	Nominal				2.93		
	Energy Labeling Directive	Cooling				D		
		Heating				D		
	Annual energy consumption		kWh			915		

2-2 TECHNICAL SPECIFICATIONS				RXS25F2V1B	RXS35F2V1B	RXS50F2V1B	RXS60F2V1B	RXS71FV1B
Casing	Colour			Ivory White				
Dimensions	Unit	Height	mm	550	550	735	735	770
		Width	mm	765	765	825	825	900
		Depth	mm	285	285	300	300	320
	Packing	Height	mm	617	617	797	797	900
		Width	mm	882	882	960	960	925
		Depth	mm	363	363	390	390	390
Weight	Unit		kg	34	34	48	48	71
	Packed Unit		kg	40	40	53	53	78
Heat Exchanger	Dimensions	Length	mm	805	805	845	845	859
		Nr of Rows		2	2	2	2	2
		Fin Pitch	mm	1.4	1.4	1.8	1.8	1.4
		Nr of Stages		24	24	32	32	34
	Tube type			Hi-Xa(7)	Hi-Xa(7)	Hi-Xa(8)	Hi-Xa(8)	Hi-Xa(7)
	Fin	Type		Waffle fin				
		Treatment		Anti-corrosion treatment (PE)				
Fan	Type			Propeller				
	Quantity			1	1	1	1	1
	Air Flow Rate (nominal at 230V)	Cooling	m³/min	33.5	33.5	48.9	50.9	54.5
		Heating	m³/min	30.2	30.2	45.0	46.3	52.5
	Motor	Quantity		1	1	1	1	1
		Model		D23B-28	D23B-28	KFD-380-50-8A	KFD-380-50-8A	KFD-280-66-8A
Motor	Speed (nominal)	Cooling	rpm	860(H) - 620(L)	860(H) - 620(L)	780		860
		Heating	rpm	860(H) - 810(L)	860(H) - 810(L)	720		830
Fan	Motor	Output	W	23	23	53	53	66
Compressor	Quantity			1	1	1	1	1
	Motor	Model		1YC23NXD#C	1YC23NXD#C	2YC36BXD#C	2YC36BXD#C	2YC63BXD#D
		Type		Hermetically sealed swing compressor				
		Motor Output	W	600	600	1100	1100	1920
Operation Range	Cooling	Min	°CDB	-10	-10	-10	-10	-10
		Max	°CDB	46	+46	46	46	46
	Heating	Min	°CWB	-15	-15	-15	-15	-15
		Max	°CWB	20	+20	18	18	18
Sound Level (nominal)	Cooling	Sound Power	dBA	61	62	61	63	66
		Sound Pressure	dBA	46(H) - 43(L)	47(H) - 44(L)	47(H)/44(L)	49	52
	Heating	Sound Pressure	dBA	47(H) - 44(L)	48(H) - 45(L)	48(H)/45(L)	49	52
Sound Level (Night quiet)	Sound Pressure		dBA				46	49
Refrigerant	Type			R-410A				
	Charge		kg	1.0	1.0	1.5	1.5	2.3

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RXS25F2V1B	RXS35F2V1B	RXS50F2V1B	RXS60F2V1B	RXS71FV1B
Refrigerant Oil	Type			FVC50K				
	Charged Volume		l	0.375	0.375	0.65	0.65	0.75
Piping connections	Liquid (OD)	Quantity				1	1	1
		Diameter (OD)	mm	6.35	6.35	6.35	6.35	6.35
	Gas	Quantity				1	1	1
		Diameter (OD)	mm	9.5	9.5	12.7	12.7	15.9
	Drain	Quantity				1	1	1
		Diameter (OD)	mm	20	20	20	18	18
	Piping Length	Maximum	m	20	20	30	30	30
		Chargeless	m	10		10	10	10
	Additional Refrigerant Charge		kg/m	0.02/>10m	0.02/>10m	0.02/>10	0.02/>10m	0.02/>10m
	Installation height difference	Maximum	m	15	15	20	20	20
	Heat Insulation			Both liquid and gas pipes				
Standard Accessories	Item			Installation manual	Installation manual	Installation manual	Drain plug	Installation manual
	Quantity			1	1	1	1	1
	Item						Installation manual	
	Quantity						1	
Notes				Nominal cooling capacities are based on : indoor temperature : 270CDB, 190CWB, outdoor temperature : 350CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.	Nominal cooling capacities are based on : indoor temperature : 270CDB, 190CWB, outdoor temperature : 350CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.	Nominal cooling capacities are based on : indoor temperature : 270CDB, 190CWB, outdoor temperature : 350CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.	Nominal cooling capacities are based on : indoor temperature : 270CDB, 190CWB, outdoor temperature : 350CDB, equivalent refrigerant piping : 5m, level difference : 0m.	Nominal cooling capacities are based on : indoor temperature : 270CDB, 190CWB, outdoor temperature : 350CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.
							Nominal heating capacities are based on : indoor temperature : 200CDB, outdoor temperature : 70CDB, 60CWB	

2-3 ELECTRICAL SPECIFICATIONS				RXS25F2V1B	RXS35F2V1B	RXS50F2V1B	RXS60F2V1B	RXS71FV1B
Power Supply	Name			V1				
	Phase			1	1	1	1	1
	Frequency		Hz	50	50	50	50	50
	Voltage		V	220-240/220-230	220-240/220-230	220-240	220-240/220-230	220-240/220-230
Current	Nominal running current (RLA)	Cooling (A)	A	3.2	4.6	6.64	8.62	10.2
		Heating (A)	A	4.2	5.5		8.80	10.93
	Starting current (cooling/ heating)		A	4.5	5.9	7.3	9.4	11.7
	Maximum Running Current		A	4.4	5.8	7.02	9.19	11.42
Wiring connections	For Power Supply	Quantity		3	3	3	3	3
	For connection with indoor	Quantity		4	4	4	4	4
		Remark		(including earth wiring)				

3 Electrical data

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FVXS25FV1B	RXS25F2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	52	3.0 2.8 2.7	23	0.16	48	0.05

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SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (A)
RHz : Rated operating frequency (Hz)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps (A)
W : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Maximum allowable voltage unbalance between phases is 2%
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.
5. For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FVXS35FV1B	RXS35F2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10.0	80	4.4 4.2 4.0	23	0.16	48	0.05

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SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (A)
RHz : Rated operating frequency (Hz)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps (A)
W : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Maximum allowable voltage unbalance between phases is 2%
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.
5. For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

3 Electrical data

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXS50FV1B	RXS50F2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20.0	67	6.7	53	0.27	43	0.16
		50 - 230					6.4				
		50 - 240					6.1				
FTXS60FV1B	RXS60F2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20.0	84	8.7	53	0.32	43	0.16
		50 - 230					8.3				
		50 - 240					7.9				
FTXS71FV1B	RXS71FV1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20.0	57	10.3	66	0.40	43	0.19
		50 - 230					9.9				
		50 - 240					9.4				

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SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (A)
RHz : Rated operating frequency (Hz)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps (A)
W : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Maximum allowable voltage unbalance between phases is 2%
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.
5. For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

4 Capacity tables

4 - 1 Cooling capacity tables

FBQ50B8V1+RXS50F2V1B

Cooling **220-240V [50Hz]**

Outdoor	Indoor EWB (°C)	Indoor EDB (°C)	Outdoor temperature (°CDB) 20 TC	20 SHC	20 PI	25 TC	25 SHC	25 PI	30 TC	30 SHC	30 PI	32 TC	32 SHC	32 PI	35 TC	35 SHC	35 PI	40 TC	40 SHC	40 PI
50	14,0	20,0	5,1	3,6	1,57	4,9	3,5	1,67	4,8	3,4	1,76	4,7	3,4	1,80	4,6	3,4	1,86	4,5	3,3	1,95
	16,0	22,0	5,2	3,6	1,60	5,1	3,5	1,69	4,9	3,5	1,79	4,9	3,4	1,83	4,8	3,4	1,88	4,6	3,3	1,98
	18,0	25,0	5,4	3,6	1,62	5,2	3,6	1,72	5,1	3,5	1,81	5,0	3,5	1,85	4,9	3,4	1,91	4,8	3,4	2,00
	19,0	27,0	5,5	3,7	1,64	5,3	3,6	1,73	5,2	3,5	1,83	5,1	3,5	1,87	5,0	3,5	1,92	4,9	3,4	2,02
	22,0	30,0	5,7	3,7	1,68	5,5	3,6	1,77	5,4	3,6	1,87	5,3	3,5	1,90	5,2	3,5	1,96	5,1	3,4	2,06
	24,0	32,0	5,8	3,7	1,70	5,7	3,7	1,80	5,5	3,6	1,89	5,5	3,6	1,93	5,4	3,5	1,99	5,2	3,5	2,08

3TW25112-1B

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.29 x 60 x AFR [m^3/min.] x (1-BF) x (DB*-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC

4 Direct interpolation is permissible.
Do not extrapolate.

5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

6 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

Model		FBQ
35	AFR	11.5
	BF	0.15
50	AFR	14
	BF	0.15
60	AFR	19
	BF	0.11

4 Capacity tables

4 - 1 Cooling capacity tables

FBQ60B8V1+RXS60F2V1B

Cooling **220-240V [50Hz]**

Outdoor	Indoor EWB (°C)	Indoor EDB (°C)	Outdoor temperature (°CDB) 20 TC	20 SHC	20 PI	25 TC	25 SHC	25 PI	30 TC	30 SHC	30 PI	32 TC	32 SHC	32 PI	35 TC	35 SHC	35 PI	40 TC	40 SHC	40 PI
60	14,0	20,0	5,8	4,6	1,84	5,6	4,6	1,94	5,5	4,5	2,03	5,4	4,5	2,07	5,3	4,4	2,13	5,2	4,3	2,22
	16,0	22,0	5,9	4,7	1,87	5,8	4,6	1,96	5,6	4,5	2,06	5,6	4,5	2,10	5,5	4,5	2,15	5,3	4,4	2,25
	18,0	25,0	6,1	4,7	1,89	5,9	4,6	1,99	5,8	4,6	2,08	5,7	4,5	2,12	5,6	4,5	2,18	5,5	4,4	2,27
	19,0	27,0	6,2	4,7	1,91	6,0	4,6	2,00	5,9	4,6	2,10	5,8	4,5	2,13	5,7	4,5	2,19	5,6	4,4	2,29
	22,0	30,0	6,4	4,8	1,95	6,2	4,7	2,04	6,1	4,6	2,14	6,0	4,6	2,17	5,9	4,6	2,23	5,8	4,5	2,33
	24,0	32,0	6,5	4,8	1,97	6,4	4,7	2,07	6,2	4,7	2,16	6,2	4,6	2,20	6,1	4,6	2,26	5,9	4,5	2,35

3TW25112-1B

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.29 x 60 x AFR [m^3/min.] x (1-BF) x (DB*-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC

4 Direct interpolation is permissible.
Do not extrapolate.

5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

6 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

Model		FBQ
35	AFR	11.5
	BF	0.15
50	AFR	14
	BF	0.15
60	AFR	19
	BF	0.11

4 Capacity tables

4 - 2 Heating capacity tables

FBQ50B8V1+RXS50F2V1B

Heating **220-240V [50Hz]**

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CWB) -15 TC	-15 PI	-10 TC	-10 PI	-5 TC	-5 PI	0 TC	0 PI	6 TC	6 PI	10 TC	10 PI
50	16,0	3,0	1,35	3,7	1,44	4,5	1,53	5,2	1,63	6,1	1,74	6,6	1,81
	18,0	3,0	1,41	3,7	1,51	4,4	1,60	5,2	1,69	6,0	1,81	6,6	1,88
	20,0	3,0	1,48	3,7	1,57	4,4	1,67	5,1	1,76	6,0	1,87	6,6	1,95
	21,0	2,9	1,51	3,7	1,61	4,4	1,70	5,1	1,80	6,0	1,91	6,6	1,98
	22,0	2,9	1,55	3,6	1,64	4,4	1,74	5,1	1,83	6,0	1,94	6,6	2,02
	24,0	2,9	1,62	3,6	1,71	4,3	1,80	5,1	1,90	5,9	2,01	6,5	2,08

3TW25112-2B

SYMBOLS

AFR:	Air flow rate	(m^3/min)
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
TC:	Total capacity	(kW)
PI:	Power input (Comp. + indoor + outdoor fan motor).	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 Direct interpolation is permissible.
Do not extrapolate.

4 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

5 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

Model	FBQ
35	11.5
50	14
60	19

4 Capacity tables

4 - 2 Heating capacity tables

FBQ60B8V1+RXS60F2V1B

Heating **220-240V [50Hz]**

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CWB) -15 TC	-15 PI	-10 TC	-10 PI	-5 TC	-5 PI	0 TC	0 PI	6 TC	6 PI	10 TC	10 PI
60	16,0	3,5	1,80	4,4	1,92	5,2	2,05	6,1	2,17	7,1	2,32	7,7	2,42
	18,0	3,5	1,89	4,3	2,01	5,2	2,14	6,0	2,26	7,0	2,41	7,7	2,51
	20,0	3,4	1,98	4,3	2,10	5,1	2,23	6,0	2,35	7,0	2,50	7,7	2,60
	21,0	3,4	2,02	4,3	2,15	5,1	2,27	6,0	2,40	7,0	2,55	7,7	2,65
	22,0	3,4	2,07	4,3	2,19	5,1	2,32	5,9	2,44	7,0	2,59	7,6	2,69
	24,0	3,4	2,16	4,2	2,28	5,1	2,41	5,9	2,53	6,9	2,68	7,6	2,78

3TW25112-2B

SYMBOLS

AFR:	Air flow rate	(m^3/min)
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
TC:	Total capacity	(kW)
PI:	Power input (Comp. + indoor + outdoor fan motor).	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 Direct interpolation is permissible.
Do not extrapolate.

4 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

5 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

Model	FBQ
35	11.5
50	14
60	19

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FVXS25FV1B+RXS25F2V1B

Cooling **50Hz 220-240V**

AFR	8.2
BF	0.10

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	2.56	2.00	0.44	2.44	1.95	0.48	2.33	1.89	0.52	2.28	1.87	0.54	2.21	1.84	0.56	2.10	1.78	0.61
16.0	22	2.68	1.97	0.44	2.56	1.92	0.48	2.44	1.87	0.52	2.40	1.84	0.54	2.33	1.81	0.57	2.21	1.76	0.61
18.0	25	2.79	2.08	0.44	2.68	2.03	0.48	2.56	1.98	0.53	2.51	1.96	0.54	2.44	1.93	0.57	2.33	1.89	0.61
19.0	27	2.85	2.21	0.44	2.73	2.16	0.49	2.62	2.11	0.53	2.57	2.09	0.54	2.50	2.07	0.57	2.38	2.02	0.61
22.0	30	3.02	2.13	0.45	2.91	2.09	0.49	2.79	2.05	0.53	2.74	2.03	0.55	2.67	2.01	0.57	2.56	1.97	0.62
24.0	32	3.14	2.08	0.45	3.02	2.04	0.49	2.90	2.01	0.53	2.86	1.99	0.55	2.79	1.97	0.58	2.67	1.93	0.62

Heating **50Hz 220-240V**

AFR	8.8

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.29	0.67	2.67	0.70	3.06	0.73	3.52	0.77	3.82	0.80
20.0	2.17	0.69	2.56	0.72	2.94	0.75	3.40	0.79	3.71	0.82
22.0	2.12	0.69	2.51	0.73	2.89	0.76	3.35	0.80	3.66	0.82
24.0	2.08	0.70	2.46	0.73	2.85	0.77	3.31	0.80	3.61	0.83
25.0	2.05	0.70	2.44	0.74	2.82	0.77	3.28	0.81	3.59	0.83
27.0	2.01	0.71	2.39	0.74	2.77	0.78	3.24	0.81	3.54	0.84

3D056491

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 7.5 m
   (2) Level difference: 0 m
2. ▭ shows nominal (rated) capacities and power input.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FVXS35FV1B+RXS35F2V1B

Cooling **50Hz 220-240V**

AFR	8.5
BF	0.11

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	3.59	2.54	0.78	3.42	2.46	0.86	3.26	2.37	0.93	3.19	2.34	0.96	3.10	2.29	1.01	2.93	2.21	1.08
16.0	22	3.75	2.50	0.79	3.58	2.42	0.86	3.42	2.34	0.94	3.36	2.31	0.97	3.26	2.26	1.01	3.10	2.18	1.09
18.0	25	3.91	2.60	0.79	3.75	2.52	0.87	3.58	2.45	0.94	3.52	2.42	0.97	3.42	2.37	1.02	3.26	2.30	1.09
19.0	27	3.99	2.72	0.79	3.83	2.65	0.87	3.66	2.57	0.94	3.60	2.55	0.97	3.50	2.50	1.02	3.34	2.43	1.10
22.0	30	4.23	2.61	0.80	4.07	2.55	0.88	3.90	2.49	0.95	3.84	2.46	0.98	3.74	2.43	1.03	3.58	2.36	1.10
24.0	32	4.39	2.54	0.81	4.23	2.48	0.88	4.07	2.42	0.96	4.00	2.40	0.99	3.90	2.37	1.03	3.74	2.31	1.11

Heating **50Hz 220-240V**

AFR	9.4

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.03	1.03	3.54	1.08	4.05	1.13	4.66	1.19	5.06	1.23
20.0	2.87	1.06	3.38	1.11	3.89	1.16	4.50	1.22	4.91	1.26
22.0	2.81	1.07	3.32	1.12	3.83	1.17	4.44	1.23	4.84	1.27
24.0	2.75	1.08	3.26	1.13	3.77	1.18	4.38	1.24	4.78	1.28
25.0	2.72	1.09	3.23	1.14	3.73	1.19	4.34	1.25	4.75	1.29
27.0	2.66	1.10	3.16	1.15	3.67	1.20	4.28	1.26	4.69	1.30

3D056492

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 7.5 m
   (2) Level difference: 0 m
2. ▭ shows nominal (rated) capacities and power input.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FCQ35C7VEB+RXS35F2V1B

Cooling **50Hz 220-240V**

AFR	10.5
BF	0.28

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	3.48	2.49	0.73	3.33	2.40	0.80	3.17	2.32	0.87	3.10	2.29	0.90	3.01	2.24	0.94	2.85	2.16	1.01
16.0	22	3.64	2.44	0.73	3.48	2.37	0.80	3.32	2.29	0.87	3.26	2.26	0.90	3.17	2.21	0.94	3.01	2.14	1.01
18.0	25	3.80	2.54	0.74	3.64	2.47	0.81	3.48	2.40	0.88	3.42	2.37	0.91	3.32	2.33	0.95	3.16	2.26	1.02
19.0	27	3.87	2.67	0.74	3.72	2.60	0.81	3.56	2.53	0.88	3.49	2.50	0.91	3.40	2.46	0.95	3.24	2.39	1.02
22.0	30	4.11	2.57	0.75	3.95	2.50	0.82	3.79	2.44	0.89	3.73	2.42	0.91	3.63	2.38	0.96	3.48	2.32	1.03
24.0	32	4.27	2.49	0.75	4.11	2.44	0.82	3.95	2.38	0.89	3.89	2.36	0.92	3.79	2.33	0.96	3.63	2.27	1.03

Heating **50Hz 220-240V**

AFR	12.5

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.83	1.04	3.30	1.09	3.78	1.14	4.34	1.20	4.72	1.24
20.0	2.68	1.07	3.16	1.12	3.63	1.17	4.20	1.23	4.58	1.27
22.0	2.62	1.08	3.10	1.13	3.57	1.18	4.14	1.24	4.52	1.28
24.0	2.57	1.09	3.04	1.14	3.51	1.19	4.08	1.25	4.46	1.29
25.0	2.54	1.10	3.01	1.15	3.49	1.20	4.06	1.26	4.43	1.30
27.0	2.48	1.11	2.95	1.16	3.43	1.21	4.00	1.27	4.38	1.31

3D057246

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 5 m
   (2) Level difference: 0 m
2. ▭ shows nominal (rated) capacities and power input.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FTXS50FV1B+RXS50F2V1B

Cooling **50Hz 220-240V**

AFR	14.7
BF	0.28

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.12	3.61	1.19	4.89	3.49	1.30	4.66	3.37	1.42	4.56	3.32	1.46	4.42	3.25	1.53	4.19	3.13	1.65
16.0	22	5.35	3.55	1.20	5.12	3.43	1.31	4.89	3.32	1.43	4.79	3.27	1.47	4.65	3.21	1.54	4.42	3.10	1.65
18.0	25	5.58	3.69	1.20	5.35	3.58	1.32	5.12	3.47	1.43	5.02	3.43	1.48	4.88	3.37	1.55	4.65	3.26	1.66
19.0	27	5.70	3.86	1.21	5.47	3.75	1.32	5.23	3.65	1.44	5.14	3.61	1.48	5.00	3.55	1.55	4.77	3.45	1.66
22.0	30	6.04	3.71	1.22	5.81	3.62	1.33	5.58	3.52	1.45	5.49	3.49	1.49	5.35	3.43	1.56	5.11	3.35	1.67
24.0	32	6.27	3.60	1.22	6.04	3.52	1.34	5.81	3.43	1.45	5.72	3.40	1.50	5.58	3.35	1.57	5.34	3.27	1.68

Heating **50Hz 220-240V**

AFR	16.1

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.90	1.35	4.56	1.42	5.21	1.48	6.00	1.56	6.52	1.62
20.0	3.70	1.39	4.36	1.46	5.01	1.52	5.80	1.60	6.32	1.65
22.0	3.62	1.40	4.28	1.47	4.93	1.54	5.72	1.61	6.24	1.67
24.0	3.54	1.42	4.20	1.48	4.85	1.55	5.64	1.63	6.16	1.68
25.0	3.50	1.43	4.16	1.49	4.81	1.56	5.60	1.64	6.12	1.69
27.0	3.42	1.44	4.08	1.51	4.73	1.57	5.52	1.65	6.04	1.70

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SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)

4 About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.

5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

6 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FVXS50FV1B+RXS50F2V1B

Cooling **50Hz 220-240V**

AFR	10.7
BF	0.13

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	4.53	3.19	1.13	4.53	3.19	1.27	4.53	3.19	1.41	4.53	3.19	1.46	4.42	3.13	1.53	4.19	3.01	1.65
16.0	22	5.35	3.45	1.20	5.12	3.33	1.31	4.89	3.21	1.43	4.79	3.16	1.47	4.65	3.09	1.54	4.42	2.98	1.65
18.0	25	5.58	3.56	1.20	5.35	3.45	1.32	5.12	3.34	1.43	5.02	3.29	1.48	4.88	3.23	1.55	4.65	3.12	1.66
19.0	27	5.70	3.71	1.21	5.47	3.60	1.32	5.23	3.49	1.44	5.14	3.45	1.48	5.00	3.39	1.55	4.77	3.28	1.66
22.0	30	6.04	3.56	1.22	5.81	3.46	1.33	5.58	3.37	1.45	5.49	3.33	1.49	5.35	3.27	1.56	5.11	3.18	1.67
24.0	32	6.27	3.45	1.22	6.04	3.36	1.34	5.81	3.27	1.45	5.72	3.24	1.50	5.58	3.19	1.57	5.34	3.10	1.68

Heating **50Hz 220-240V**

AFR	11.8

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.90	1.35	4.56	1.42	5.21	1.48	6.00	1.56	6.52	1.62
20.0	3.70	1.39	4.36	1.46	5.01	1.52	5.80	1.60	6.32	1.65
22.0	3.62	1.40	4.28	1.47	4.93	1.54	5.72	1.61	6.24	1.67
24.0	3.54	1.42	4.20	1.48	4.85	1.55	5.64	1.63	6.16	1.68
25.0	3.50	1.43	4.16	1.49	4.81	1.56	5.60	1.64	6.03	1.68
27.0	3.42	1.44	4.08	1.51	4.73	1.57	5.52	1.65	5.64	1.68

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SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 7.5 m
   (2) Level difference: 0 m
2. ▭ shows nominal (rated) capacities and power input.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FFQ50B8V1B+RXS50F2V1B

AFR	12.0
BF	0.16

Cooling **50Hz 230V**

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	4.76	3.51	1.45	4.61	3.44	1.55	4.46	3.37	1.64	4.40	3.34	1.68	4.31	3.30	1.74	4.16	3.23	1.83
16.0	22	4.92	3.54	1.48	4.77	3.47	1.57	4.62	3.40	1.67	4.56	3.38	1.70	4.47	3.33	1.76	4.32	3.26	1.86
18.0	25	5.07	3.58	1.50	4.92	3.51	1.60	4.77	3.44	1.69	4.71	3.41	1.73	4.62	3.37	1.79	4.47	3.30	1.88
19.0	27	5.15	3.59	1.52	5.00	3.52	1.61	4.85	3.45	1.71	4.79	3.43	1.74	4.70	3.38	1.80	4.55	3.31	1.90
22.0	30	5.38	3.65	1.55	5.23	3.58	1.65	5.08	3.51	1.74	5.02	3.48	1.78	4.93	3.44	1.84	4.78	3.37	1.93
24.0	32	5.54	3.68	1.58	5.39	3.61	1.68	5.24	3.54	1.77	5.18	3.51	1.81	5.09	3.47	1.87	4.94	3.40	1.96

Heating **50Hz 230V**

AFR	12.0

Indoor	Outdoor temperature (°CWB)											
EDB	-15		-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	2.76	1.41	3.43	1.51	4.09	1.60	4.76	1.70	5.56	1.82	6.09	1.90
18.0	2.73	1.48	3.40	1.58	4.06	1.67	4.73	1.77	5.53	1.89	6.06	1.97
20.0	2.70	1.55	3.37	1.65	4.04	1.74	4.70	1.84	5.50	1.96	6.03	2.04
21.0	2.69	1.58	3.36	1.68	4.02	1.78	4.69	1.88	5.49	2.00	6.02	2.07
22.0	2.68	1.62	3.34	1.72	4.01	1.81	4.67	1.91	5.47	2.03	6.00	2.11
24.0	2.65	1.69	3.32	1.79	3.98	1.89	4.65	1.98	5.45	2.10	5.98	2.18

3D041023

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 ▭ shows nominal (rated) capacities and power input.

3 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)

4 SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
=0.02*AFR(m3/min.)*(1-BF)*(DB*-EDB)
Add SHC* to SHC.

5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

6 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FCQ50C7VEB+RXS50F2V1B

Cooling **50Hz 220-240V**

AFR	12.5
BF	0.21

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.12	3.56	1.08	4.89	3.43	1.19	4.66	3.31	1.29	4.56	3.26	1.33	4.42	3.18	1.39	4.19	3.06	1.50
16.0	22	5.35	3.49	1.09	5.12	3.37	1.19	4.89	3.26	1.30	4.79	3.21	1.34	4.65	3.14	1.40	4.42	3.03	1.50
18.0	25	5.58	3.62	1.09	5.35	3.50	1.20	5.12	3.40	1.30	5.02	3.35	1.34	4.88	3.29	1.41	4.65	3.18	1.51
19.0	27	5.70	3.77	1.10	5.47	3.67	1.20	5.23	3.56	1.31	5.14	3.52	1.35	5.00	3.46	1.41	4.77	3.35	1.51
22.0	30	6.04	3.62	1.11	5.81	3.53	1.21	5.58	3.44	1.32	5.49	3.40	1.36	5.35	3.34	1.42	5.11	3.25	1.52
24.0	32	6.27	3.52	1.11	6.04	3.43	1.22	5.81	3.34	1.32	5.72	3.31	1.36	5.58	3.26	1.43	5.34	3.18	1.53

Heating **50Hz 220-240V**

AFR	12.5

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	4.04	1.37	4.72	1.44	5.39	1.50	6.21	1.58	6.75	1.64
20.0	3.83	1.41	4.51	1.47	5.19	1.54	6.00	1.62	6.54	1.67
22.0	3.75	1.42	4.43	1.49	5.10	1.55	5.92	1.63	6.46	1.69
24.0	3.67	1.44	4.34	1.50	5.02	1.57	5.83	1.65	6.38	1.70
25.0	3.62	1.44	4.30	1.51	4.98	1.58	5.79	1.66	6.33	1.71
27.0	3.54	1.46	4.22	1.52	4.90	1.59	5.71	1.67	5.97	1.71

3D057248

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 5 m
   (2) Level difference: 0 m
2. ▭ shows nominal (rated) capacities and power input.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FTXS60FV1B+RXS60F2V1B

Cooling **50Hz 220-240V**

AFR	16.2
BF	0.29

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.60	3.94	1.49	5.60	3.94	1.66	5.59	3.94	1.82	5.48	3.88	1.88	5.31	3.79	1.97	5.03	3.64	2.12
16.0	22	6.42	4.17	1.54	6.14	4.02	1.68	5.86	3.88	1.83	5.75	3.82	1.89	5.59	3.74	1.98	5.31	3.60	2.12
18.0	25	6.70	4.31	1.54	6.42	4.17	1.69	6.14	4.04	1.84	6.03	3.99	1.90	5.86	3.91	1.99	5.58	3.78	2.13
19.0	27	6.84	4.49	1.55	6.56	4.36	1.70	6.28	4.23	1.84	6.17	4.18	1.90	6.00	4.10	1.99	5.72	3.98	2.14
22.0	30	7.25	4.31	1.56	6.97	4.19	1.71	6.69	4.08	1.86	6.58	4.04	1.91	6.41	3.97	2.00	6.14	3.86	2.15
24.0	32	7.53	4.18	1.57	7.25	4.07	1.72	6.97	3.97	1.86	6.86	3.93	1.92	6.69	3.87	2.01	6.41	3.77	2.16

Heating **50Hz 220-240V**

AFR	17.4

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	4.71	1.73	5.50	1.81	6.29	1.89	7.24	1.99	7.87	2.06
20.0	4.47	1.77	5.26	1.86	6.05	1.94	7.00	2.04	7.63	2.11
22.0	4.37	1.79	5.16	1.87	5.95	1.96	6.90	2.06	7.54	2.13
24.0	4.28	1.81	5.07	1.89	5.86	1.98	6.81	2.08	7.44	2.14
25.0	4.23	1.82	5.02	1.90	5.81	1.99	6.76	2.09	7.39	2.15
27.0	4.13	1.84	4.92	1.92	5.71	2.00	6.66	2.10	7.29	2.17

3D051924A

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)

4 About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.

5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

6 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FFQ60B8V1B+RXS60F2V1B

Cooling **50Hz 230V**

AFR	15.0
BF	0.11

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.86	4.30	1.72	5.71	4.23	1.82	5.56	4.16	1.91	5.50	4.13	1.95	5.41	4.09	2.01	5.26	4.02	2.10
16.0	22	6.02	4.34	1.75	5.87	4.27	1.84	5.72	4.20	1.94	5.66	4.17	1.97	5.57	4.13	2.03	5.42	4.06	2.13
18.0	25	6.17	4.37	1.77	6.02	4.30	1.87	5.87	4.23	1.96	5.81	4.20	2.00	5.72	4.16	2.06	5.57	4.09	2.15
19.0	27	6.25	4.39	1.79	6.10	4.32	1.88	5.95	4.25	1.98	5.89	4.22	2.01	5.80	4.18	2.07	5.65	4.11	2.17
22.0	30	6.48	4.44	1.82	6.33	4.37	1.92	6.18	4.30	2.01	6.12	4.27	2.05	6.03	4.23	2.11	5.88	4.16	2.20
24.0	32	6.64	4.47	1.85	6.49	4.40	1.95	6.34	4.33	2.04	6.28	4.30	2.08	6.19	4.26	2.14	6.04	4.19	2.23

Heating **50Hz 230V**

AFR	15.0

Indoor	Outdoor temperature (°CWB)											
EDB	-15		-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	3.51	1.79	4.36	1.91	5.21	2.04	6.05	2.16	7.07	2.31	7.75	2.41
18.0	3.48	1.88	4.32	2.00	5.17	2.13	6.02	2.25	7.04	2.40	7.71	2.50
20.0	3.44	1.97	4.29	2.09	5.14	2.22	5.98	2.34	7.00	2.49	7.68	2.59
21.0	3.43	2.01	4.27	2.14	5.12	2.26	5.97	2.39	6.98	2.53	7.66	2.63
22.0	3.41	2.06	4.25	2.18	5.10	2.31	5.95	2.43	6.97	2.58	7.64	2.68
24.0	3.37	2.15	4.22	2.27	5.07	2.40	5.91	2.52	6.93	2.67	7.61	2.77

3D041028

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)

4 SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
=0.02*AFR(m3/min.)*(1-BF)*(DB*-EDB)
Add SHC* to SHC.

5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

6 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FCQ60C7VEB+RXS60F2V1B

Cooling **50Hz 220-240V**

AFR	13.5
BF	0.21

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.84	4.01	1.26	5.57	3.86	1.38	5.31	3.72	1.50	5.20	3.66	1.55	5.04	3.58	1.62	4.78	3.44	1.74
16.0	22	6.10	3.94	1.27	5.84	3.80	1.39	5.57	3.67	1.51	5.47	3.61	1.56	5.31	3.53	1.63	5.04	3.40	1.75
18.0	25	6.36	4.07	1.27	6.10	3.94	1.39	5.83	3.81	1.52	5.73	3.76	1.56	5.57	3.69	1.64	5.30	3.56	1.76
19.0	27	6.50	4.24	1.28	6.23	4.11	1.40	5.97	3.99	1.52	5.86	3.94	1.57	5.70	3.87	1.64	5.43	3.75	1.76
22.0	30	6.89	4.07	1.29	6.62	3.95	1.41	6.36	3.85	1.53	6.25	3.80	1.58	6.09	3.74	1.65	5.83	3.63	1.77
24.0	32	7.15	3.94	1.29	6.89	3.84	1.42	6.62	3.74	1.54	6.52	3.70	1.59	6.36	3.64	1.66	6.09	3.54	1.78

Heating **50Hz 220-240V**

AFR	13.5

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	4.71	1.68	5.50	1.76	6.29	1.85	7.24	1.95	7.87	2.01
20.0	4.47	1.73	5.26	1.81	6.05	1.89	7.00	1.99	7.63	2.06
22.0	4.37	1.75	5.16	1.83	5.95	1.91	6.90	2.01	7.54	2.07
24.0	4.28	1.76	5.07	1.85	5.86	1.93	6.81	2.03	7.12	2.09
25.0	4.23	1.77	5.02	1.85	5.81	1.94	6.76	2.03	6.90	2.10
27.0	4.13	1.79	4.92	1.87	5.71	1.95	6.45	2.05	6.45	2.11

3D057250

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 5 m
   (2) Level difference: 0 m
2. ▭ shows nominal (rated) capacities and power input.

4 Capacity tables

4 - 3 Cooling/Heating capacity tables

FTXS71FV1B+RXS71FV1B

Cooling **50Hz 220-240V**

AFR	17.4
BF	0.30

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.93	4.18	1.64	5.93	4.18	1.86	5.93	4.18	2.07	5.93	4.18	2.16	5.93	4.18	2.29	5.93	4.18	2.50
16.0	22	7.28	4.67	1.78	7.27	4.66	1.99	6.94	4.48	2.16	6.81	4.41	2.23	6.61	4.31	2.33	6.28	4.14	2.51
18.0	25	7.93	4.98	1.82	7.60	4.81	2.00	7.27	4.65	2.17	7.13	4.58	2.24	6.94	4.48	2.34	6.61	4.33	2.52
19.0	27	8.09	5.16	1.83	7.76	5.00	2.00	7.43	4.84	2.18	7.30	4.78	2.25	7.10	4.69	2.35	6.77	4.53	2.52
22.0	30	8.58	4.95	1.84	8.25	4.81	2.02	7.92	4.67	2.19	7.79	4.61	2.26	7.59	4.53	2.37	7.26	4.39	2.54
24.0	32	8.91	4.79	1.85	8.58	4.66	2.03	8.25	4.53	2.20	8.12	4.48	2.27	7.92	4.40	2.38	7.59	4.28	2.55

Heating **50Hz 220-240V**

AFR	19.7

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	5.52	2.16	6.45	2.26	7.37	2.37	8.48	2.49	9.22	2.58
20.0	5.24	2.21	6.16	2.32	7.09	2.42	8.20	2.55	8.94	2.63
22.0	5.12	2.24	6.05	2.34	6.98	2.45	8.09	2.57	8.83	2.66
24.0	5.01	2.26	5.94	2.36	6.86	2.47	7.97	2.60	8.71	2.68
25.0	4.95	2.27	5.88	2.38	6.81	2.48	7.92	2.61	8.47	2.68
27.0	4.84	2.29	5.77	2.40	6.69	2.50	7.80	2.63	7.92	2.68

3D056030

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

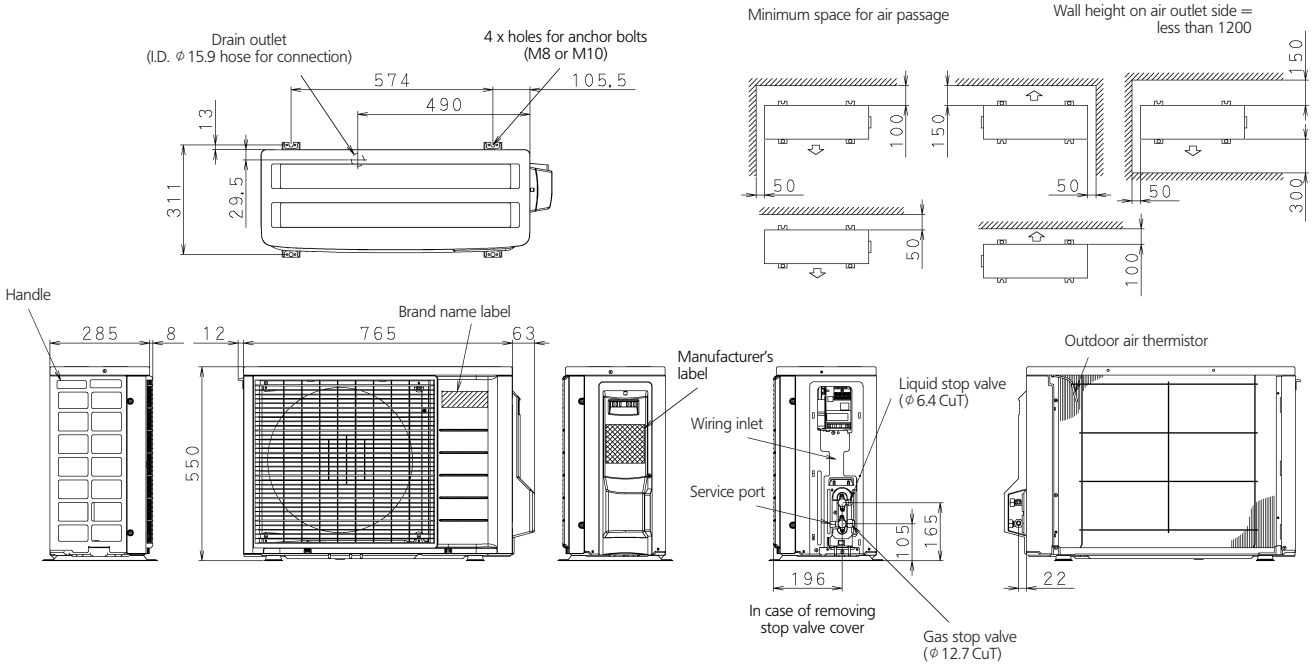
NOTES

1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 7.5 m
   (2) Level difference: 0 m
2. ▭ shows nominal (rated) capacities and power input.

5 Dimensional drawing & centre of gravity

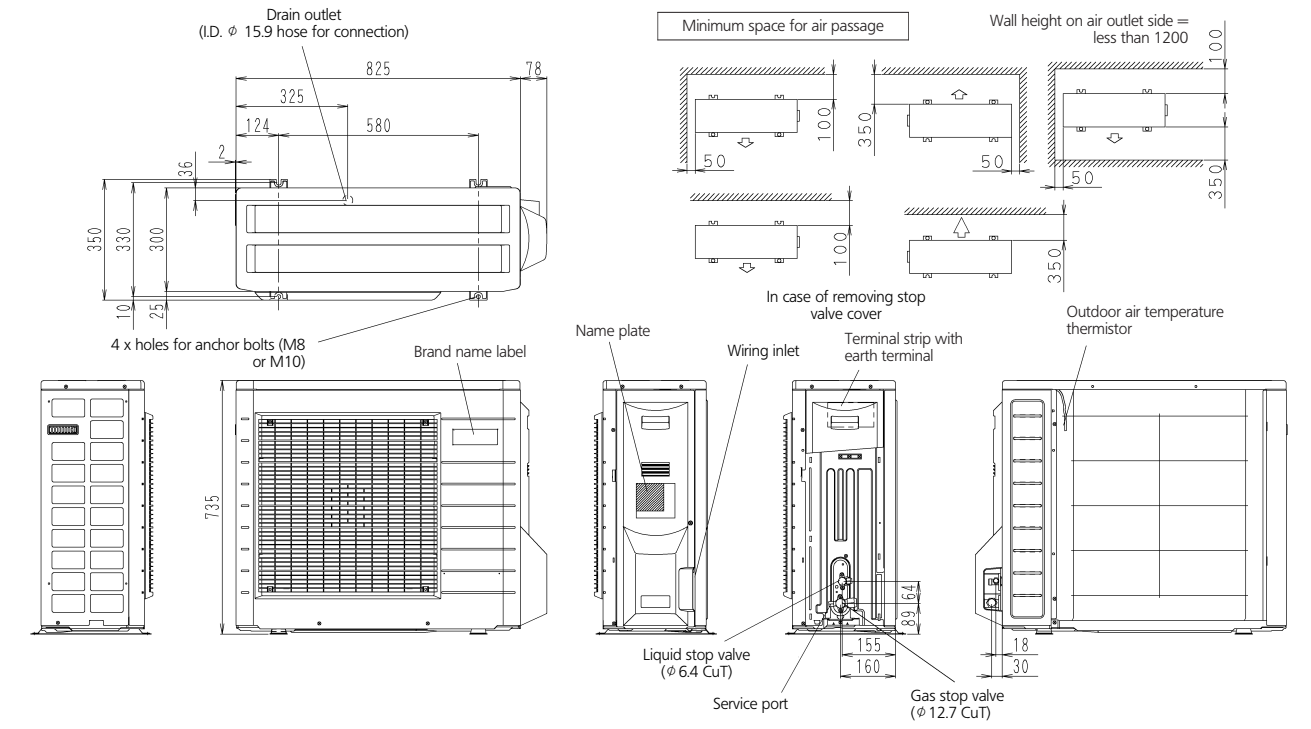
5 - 1 Dimensional drawing

RXS25-35F2V1B **unit (mm)**



3D055546

RXS50-60F2V1B **unit (mm)**



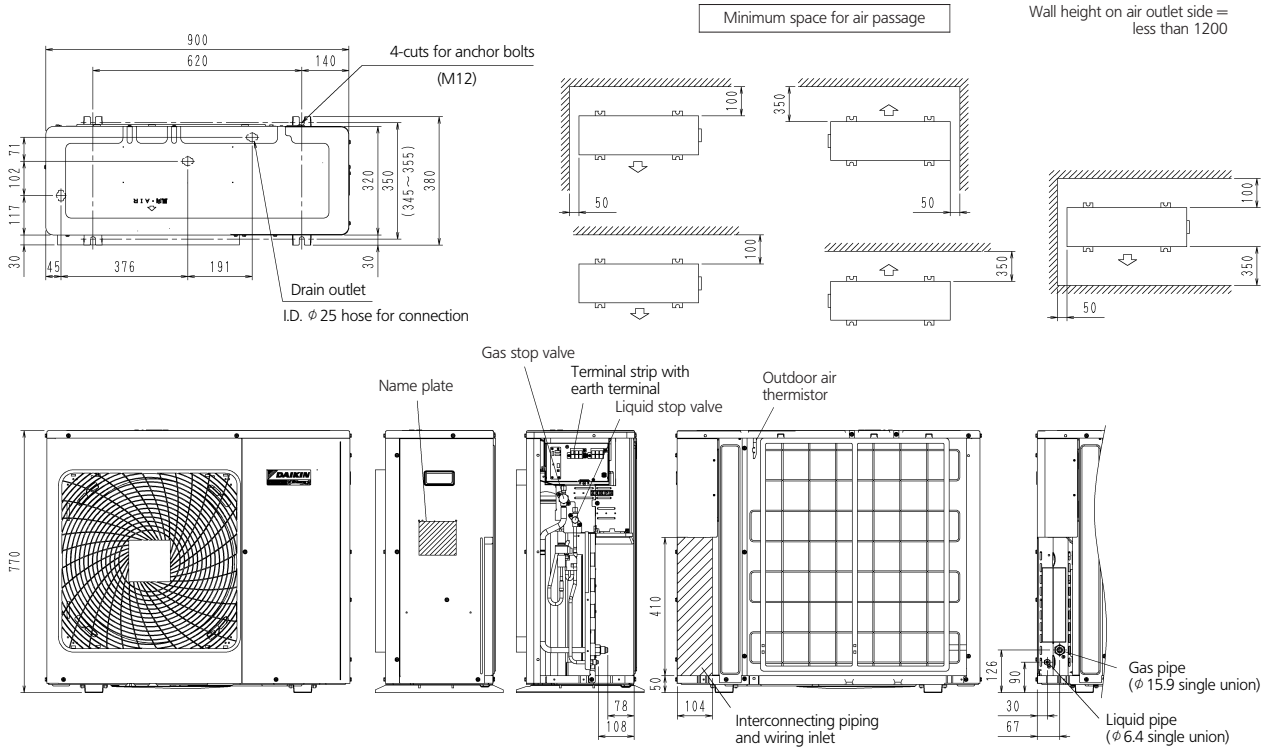
3D051657D

5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

RXS71FV1B

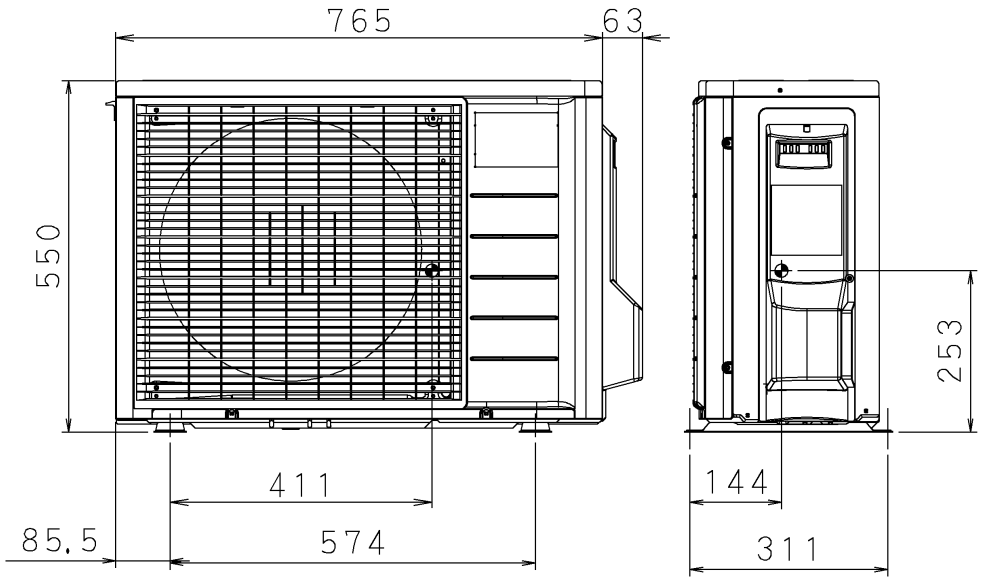
unit (mm)



5 Dimensional drawing & centre of gravity

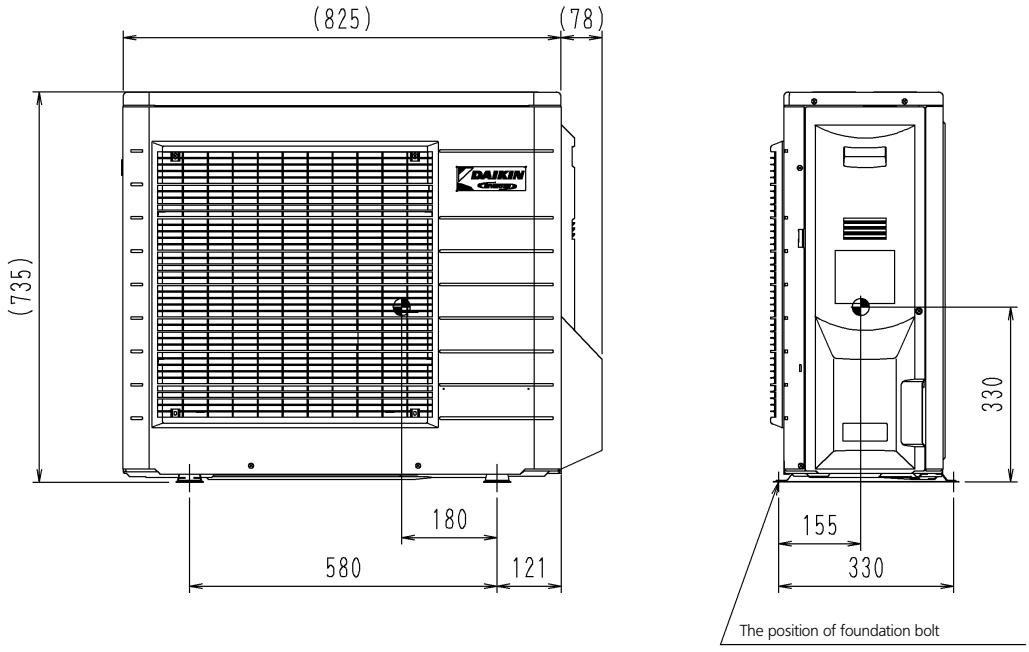
5 - 2 Centre of gravity

RXS25-35F2V1B



4D056351

RXS50-60F2V1B

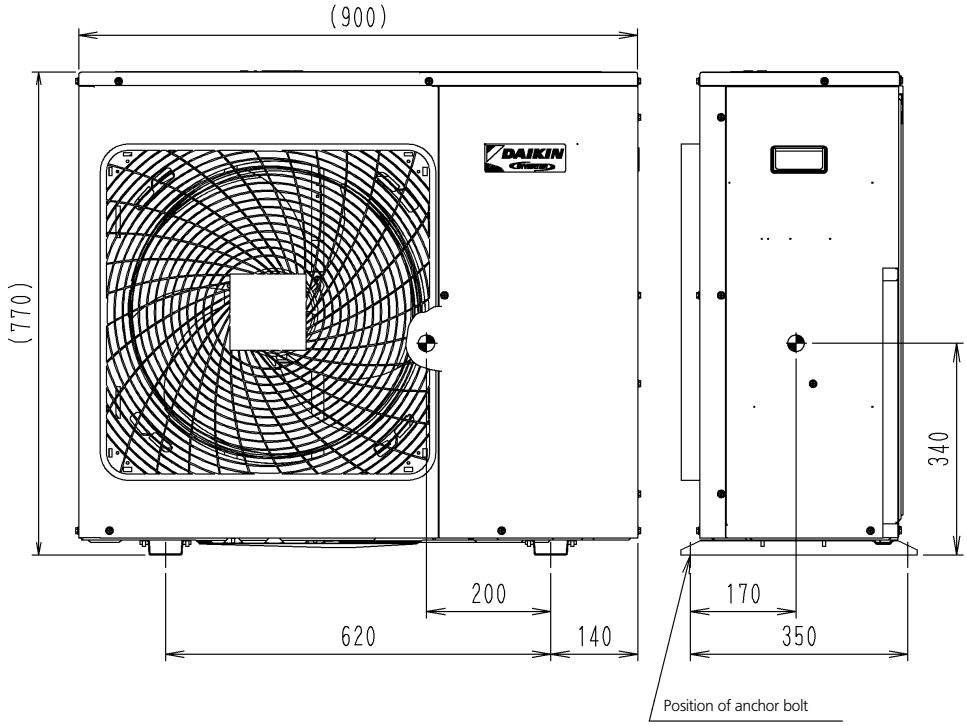


4D051638C

5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

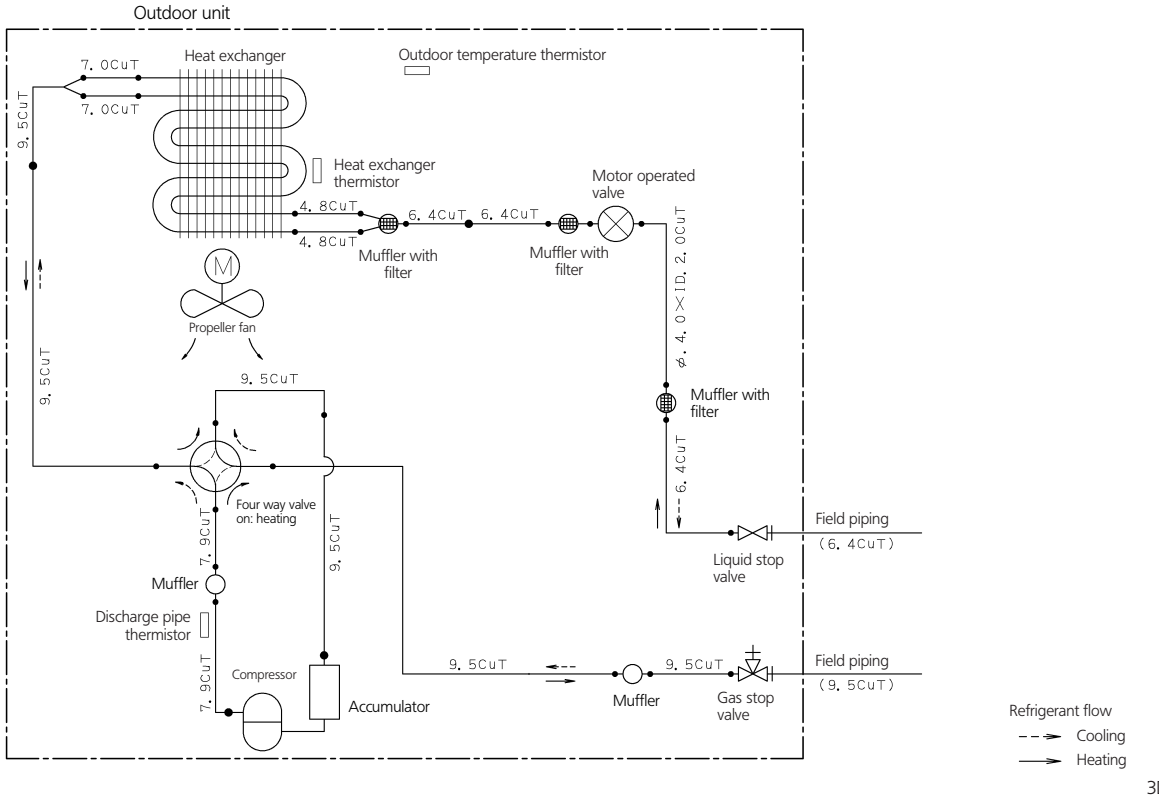
RXS71FV1B



4D053630B

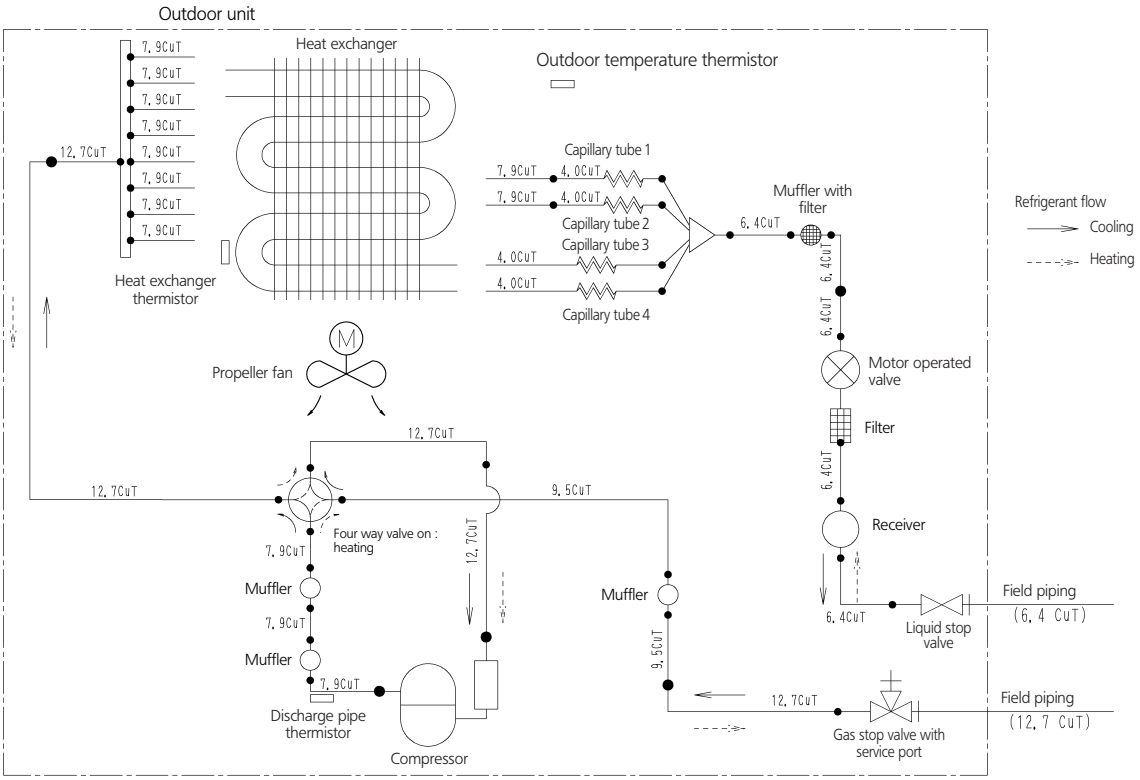
6 Piping diagram

RXS25-35F2V1B



3D047316E

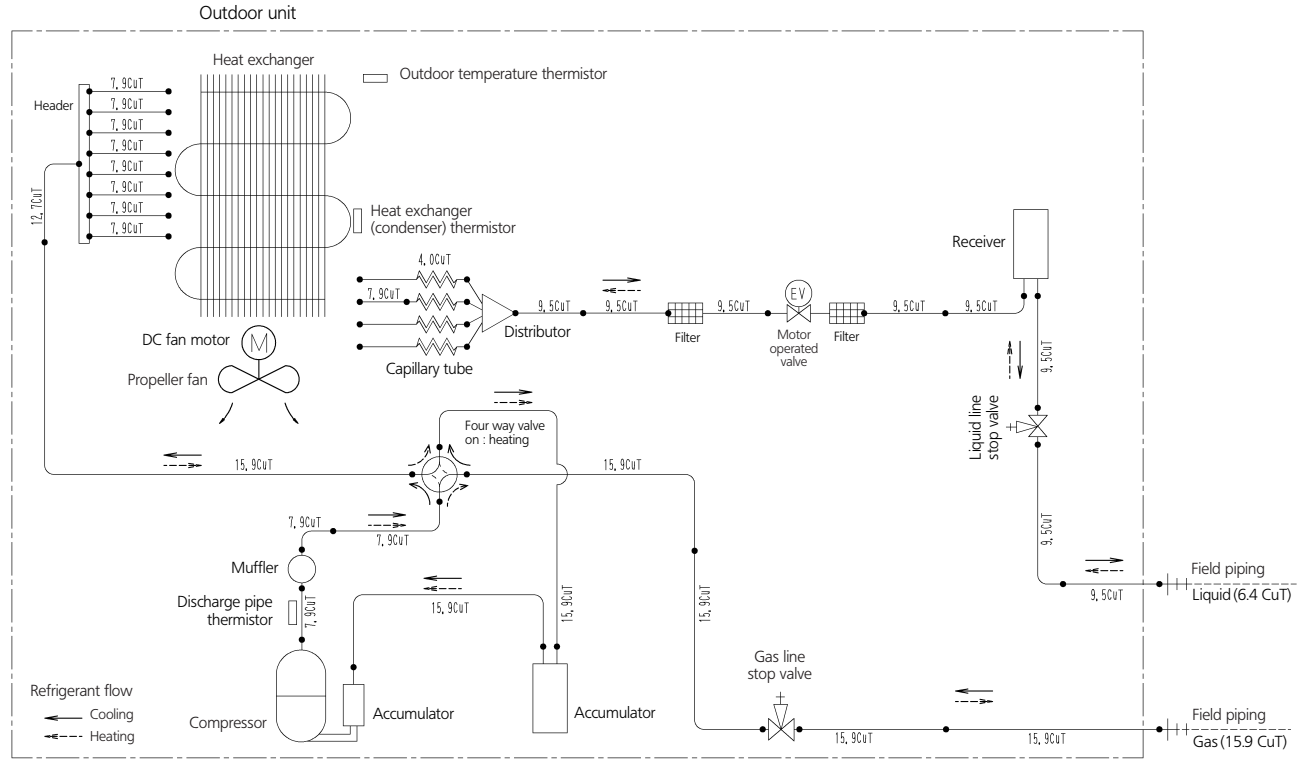
RXS50-60F2V1B



3D051637D

6 Piping diagram

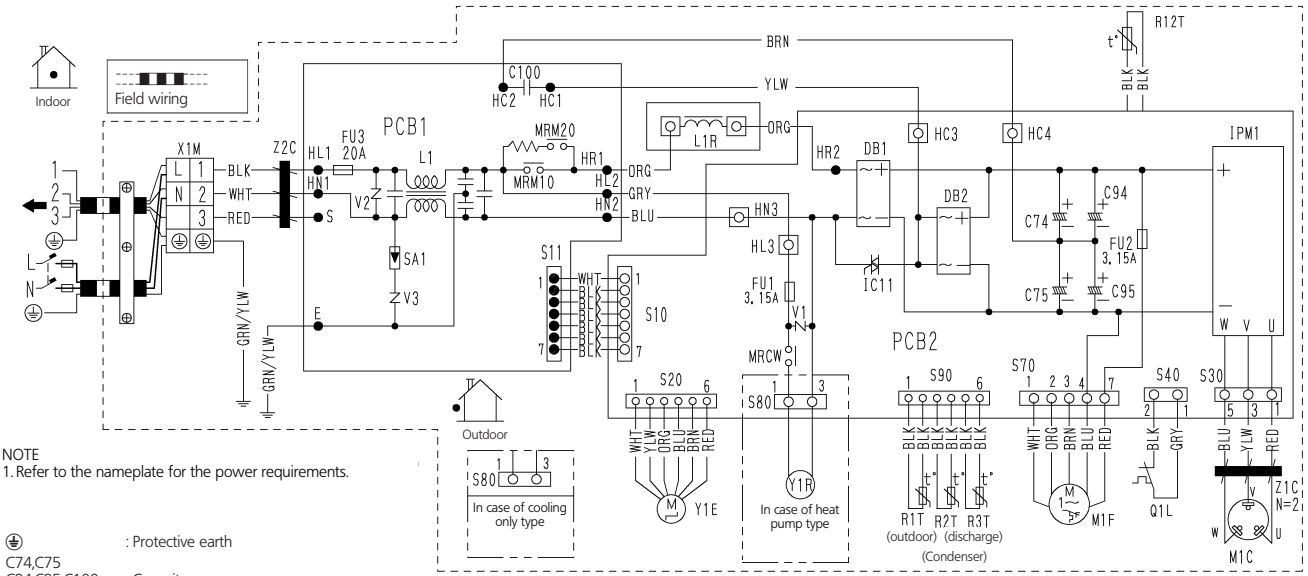
RXS71FV1B



7 Wiring diagram

7 - 1 Wiring diagram

RXS25-35F2V1B

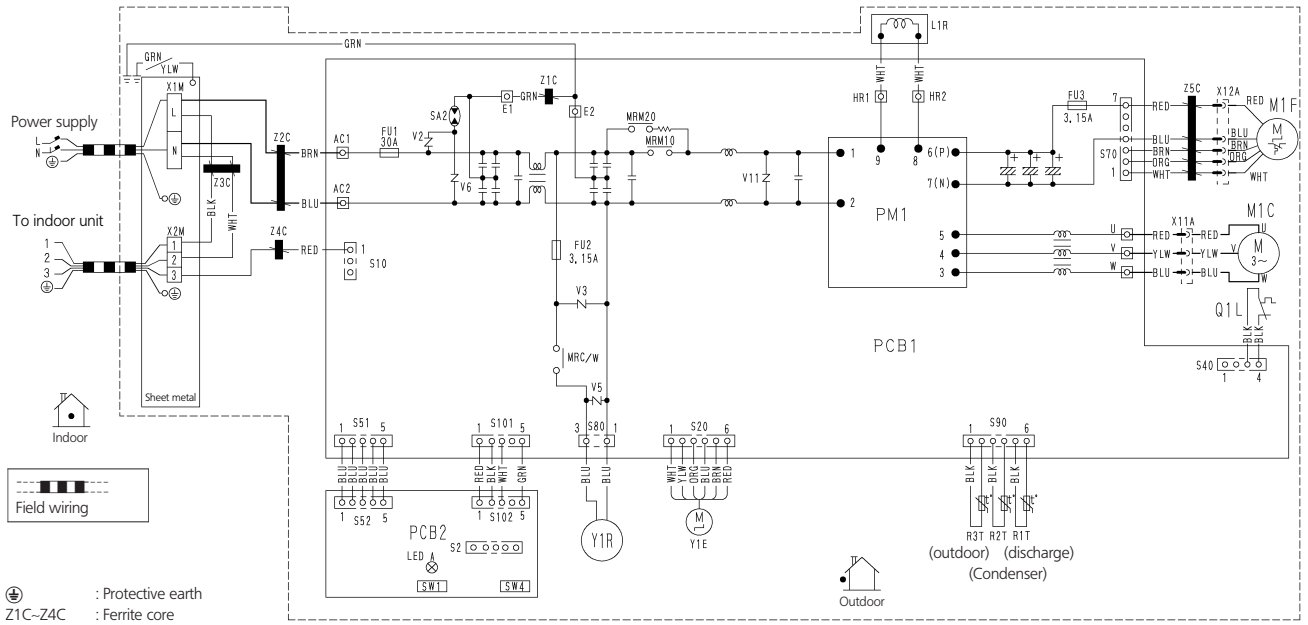


NOTE
1. Refer to the nameplate for the power requirements.

⏚	: Protective earth
C74,C75	
C94,C95,C100	: Capacitor
DB1,DB2	: Diode bridge
FU1,FU2,FU3	: Fuse
IC11	: Triac
IPM1	: Intelligent power module
L	: Live
L1	: Coil
L1R	: Reactor
M1C	: Compressor motor
M1F	: Fan motor
MRCW,MRM10,MRM20	: Magnetic relay
N	: Neutral
PCB1,PCB2	: Printed circuit board
Q1L	: Overload protector
R1T,R2T,R3T,R12T	: Thermistor
S10,S11,S20	
S30,S40,S70	
S80,S90,S91	
HC3,HC4,HL3,HN3	: Connector
SA1	: Surge arrester
V1,V2,V3	: Varistor
X1M	: Terminal strip
Y1E	: Electronic expansion valve coil
Y1R	: Reversing solenoide valve coil
Z1C,Z2C	: Ferrite core

3D046707H

RXS50F2V1B



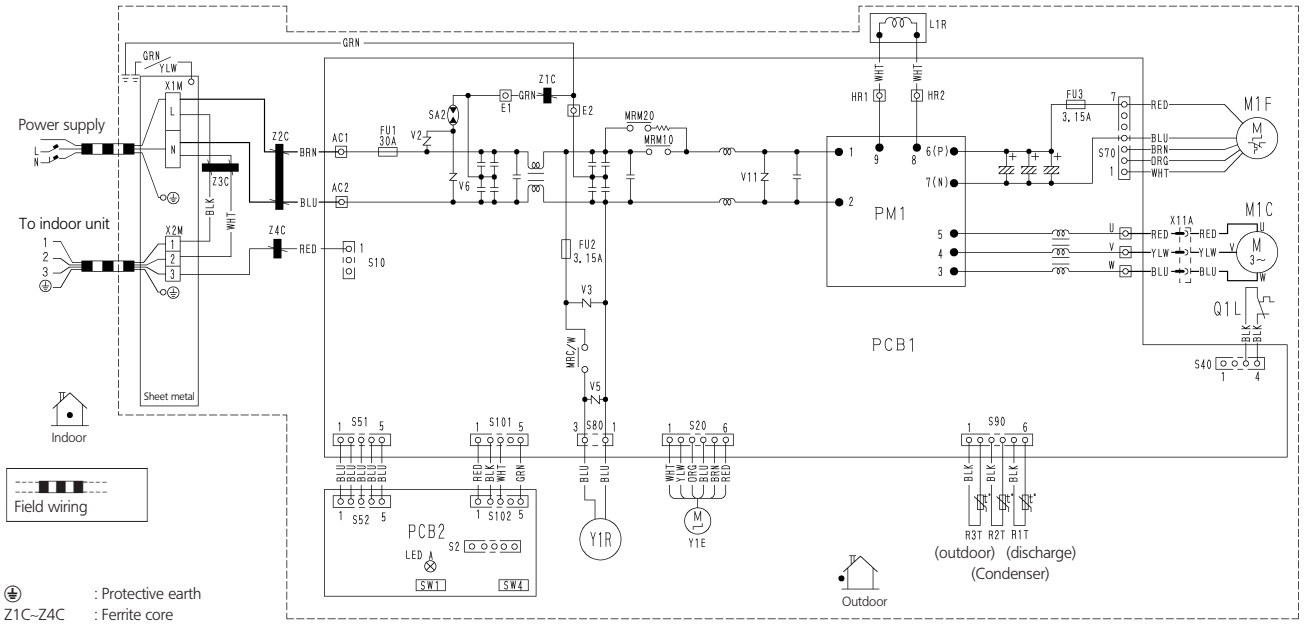
⏚	: Protective earth
Z1C~Z4C	: Ferrite core
X1M,X2M	: Terminal strip
Y1E	: Electronic expansion valve coil
V2,V3,V5,V6,V11	: Varistor
SA2	: Surge arrester
F1U,F2U,FU3	: Fuse
AC1,AC2	
U,V,W,X11A	
E1,E2	
HR1,HR2	: Connector
MRM10, MRM20, MRC/W	: Magnetic relay
R1T~R3T	: Thermistor
S2~S102	: Connector
LEDA	: Pilot lamp
L	: Live
N	: Neutral
S1W	: Forced operation on/off switch (SW1)
S4W	: Local setting SW (SW4)
M1C	: Compressor motors
M1F	: Fan motor
L1R	: Reactor
Q1L	: Overload protector
PM1	: Power module
PCB1, 2	: Printed circuit board
Sheet metal	: Terminal strip fixed plate

3D056095

7 Wiring diagram

7 - 1 Wiring diagram

RXS60F2V1B



⏚ : Protective earth
Z1C~Z4C : Ferrite core
X1M,X2M : Terminal strip
Y1E : Electronic expansion valve coil
V2,V3,V5,V6,V11 : Varistor
SA2 : Surge arrester
F1U,F2U,FU3 : Fuse
AC1,AC2
U,V,W,X11A
E1,E2
HR1,HR2 : Connector
MRM10, MRM20,
MRC/W : Magnetic relay

R1T~R3T : Thermistor
S2~S102 : Connector
LEDA : Pilot lamp
L : Live
N : Neutral
S1W : Forced operation on/off switch (SW1)
S4W : Local setting SW (SW4)

M1C : Compressor motors
M1F : Fan motor
L1R : Reactor
Q1L : Overload protector
PM1 : Power module
PCB1, 2 : Printed circuit board
Sheet metal : Terminal strip fixed plate

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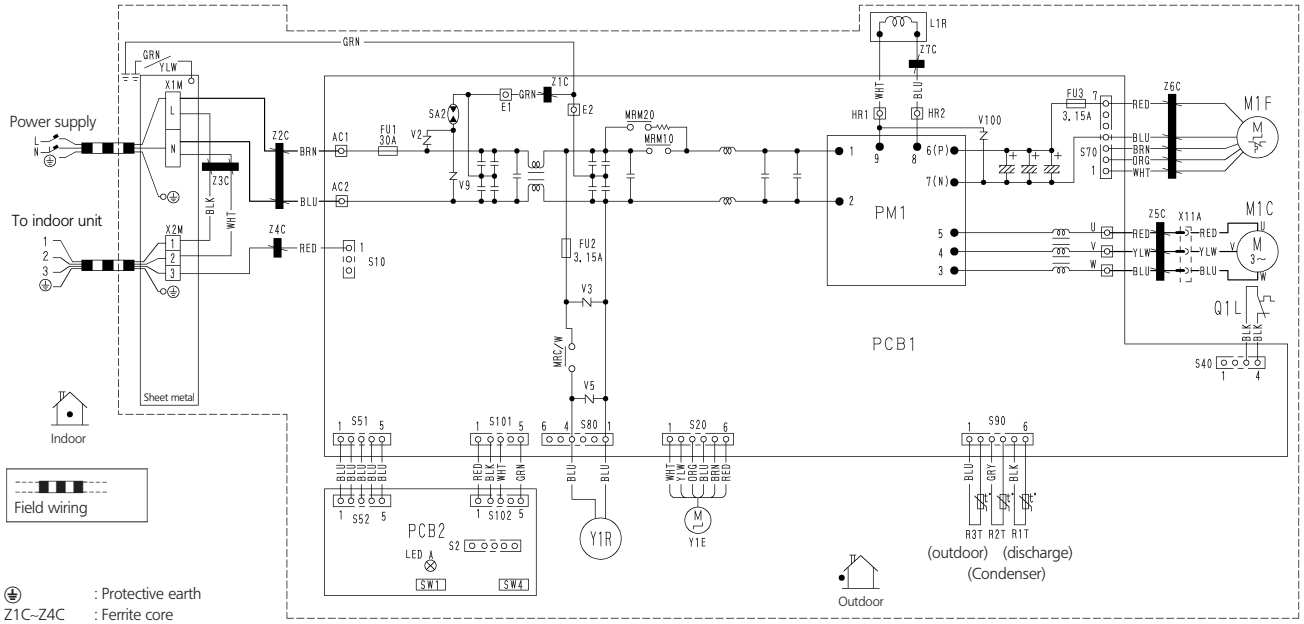
RXS71FV1B



⏚ : Protective earth
Z1C~Z4C : Ferrite core
X1M,X2M : Terminal strip
Y1E : Electronic expansion valve coil
V2,V3,V5,V6,V11 : Varistor
SA2 : Surge arrester
F1U,F2U,FU3 : Fuse
AC1,AC2
U,V,W,X11A
E1,E2
HR1,HR2 : Connector
MRM10, MRM20,
MRC/W : Magnetic relay

R1T~R3T : Thermistor
S2~S102 : Connector
LEDA : Pilot lamp
L : Live
N : Neutral
S1W : Forced operation on/off switch (SW1)
S4W : Local setting SW (SW4)

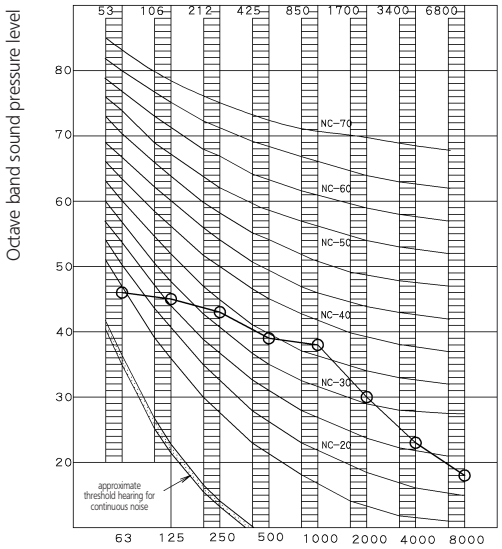
M1C : Compressor motors
M1F : Fan motor
L1R : Reactor
Q1L : Overload protector
PM1 : Power module
PCB1, 2 : Printed circuit board
Sheet metal : Terminal strip fixed plate

3D053931B

8 Sound data

8 - 1 Sound pressure spectrum

RXS25F2V1B (Cooling)

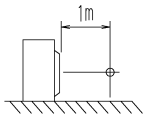


4D052971C

NOTES

1 Measure in anechoic room
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

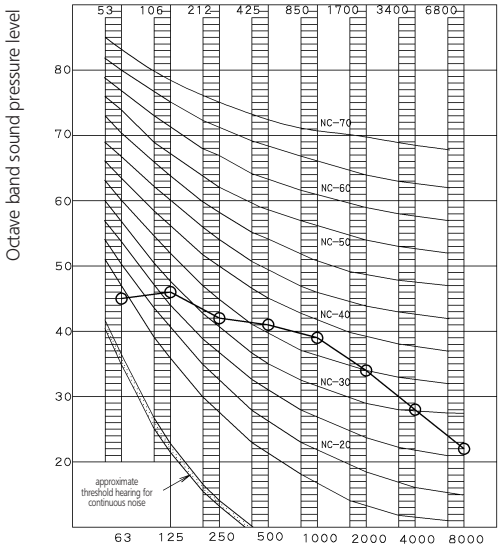
Location of microphone



Legend

50Hz, 220-240V

RXS25F2V1B (Heating)

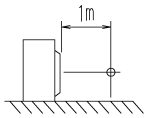


3D052971C

NOTES

1 Measure in anechoic room
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

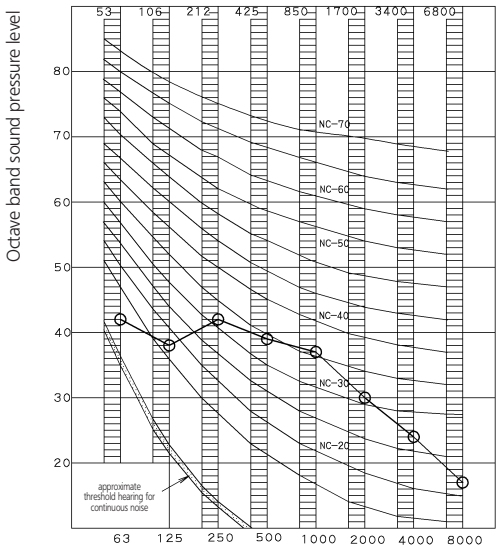
Location of microphone



Legend

50Hz, 220-240V

RXS35F2V1B (Cooling)

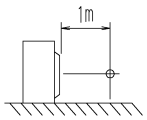


4D052972C

NOTES

1 Measure in anechoic room
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

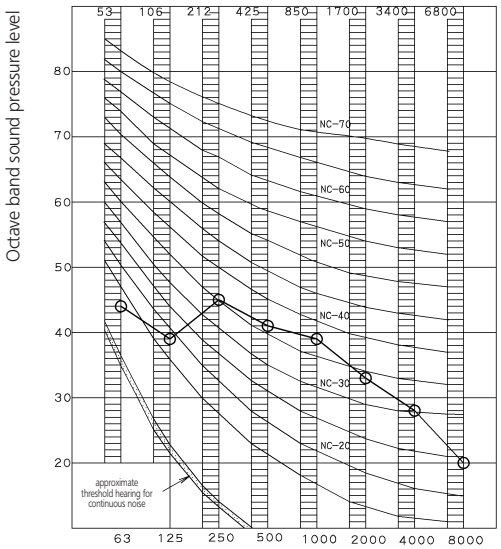
Location of microphone



Legend

50Hz, 220-240V

RXS35F2V1B (Heating)

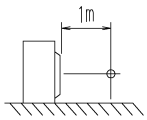


3D052972C

NOTES

1 Measure in anechoic room
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

Location of microphone



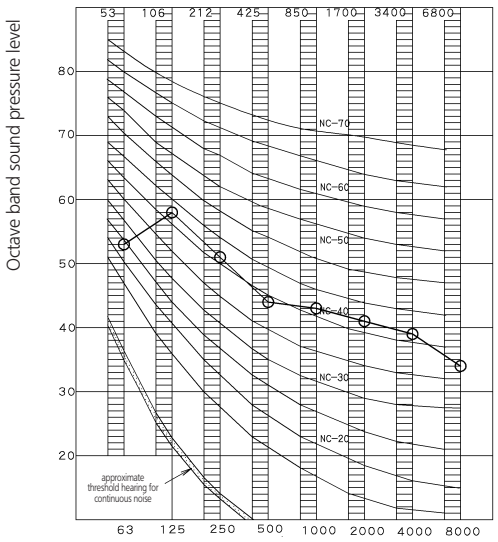
Legend

50Hz, 220-240V

8 Sound data

8 - 1 Sound pressure spectrum

RXS50F2V1B (Cooling)



4D051717B

NOTES

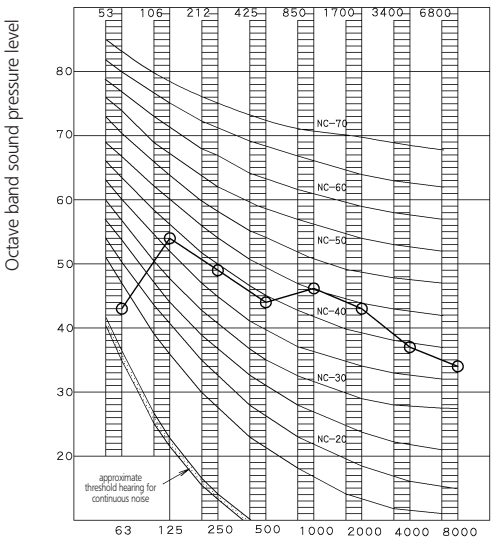
1 Measured in an echoic room

2 Operation noise differs with operation and ambient conditions.

Legend

50Hz, 220-240V

RXS50F2V1B (Heating)



4D051717B

NOTES

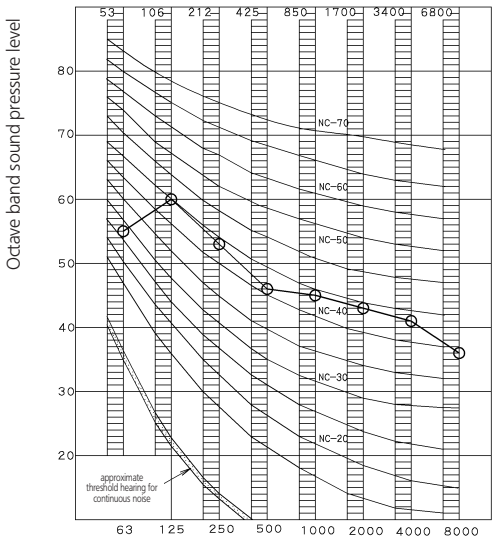
1 Measured in an echoic room

2 Operation noise differs with operation and ambient conditions.

Legend

50Hz, 220-240V

RXS60F2V1B (Cooling)



4D051716A

NOTES

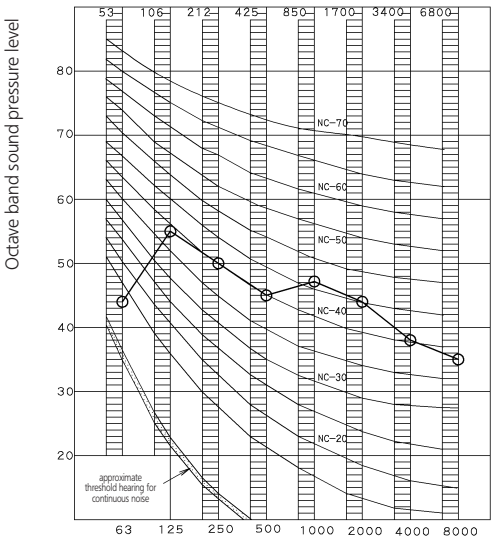
1 Measured in an echoic room

2 Operation noise differs with operation and ambient conditions.

Legend

50Hz, 220-240V

RXS60F2V1B (Heating)



3D051716A

NOTES

1 Measured in an echoic room

2 Operation noise differs with operation and ambient conditions.

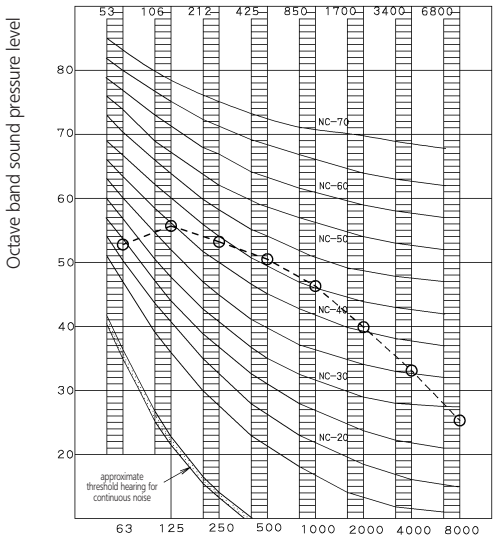
Legend

50Hz, 220-240V

8 Sound data

8 - 1 Sound pressure spectrum

RXS71FV1B (Cooling)



4D055789

NOTES

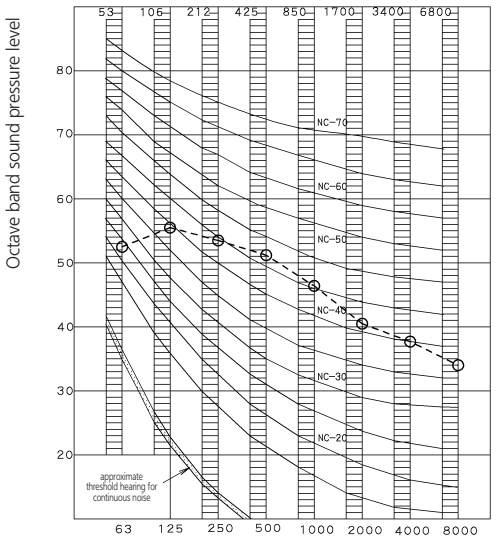
1 Measured in an anechoic room

2 Operation noise differs with operation and ambient conditions.

Legend

50Hz, 220-240V

RXS71FV1B (Heating)



3D055789

NOTES

1 Measured in an anechoic room

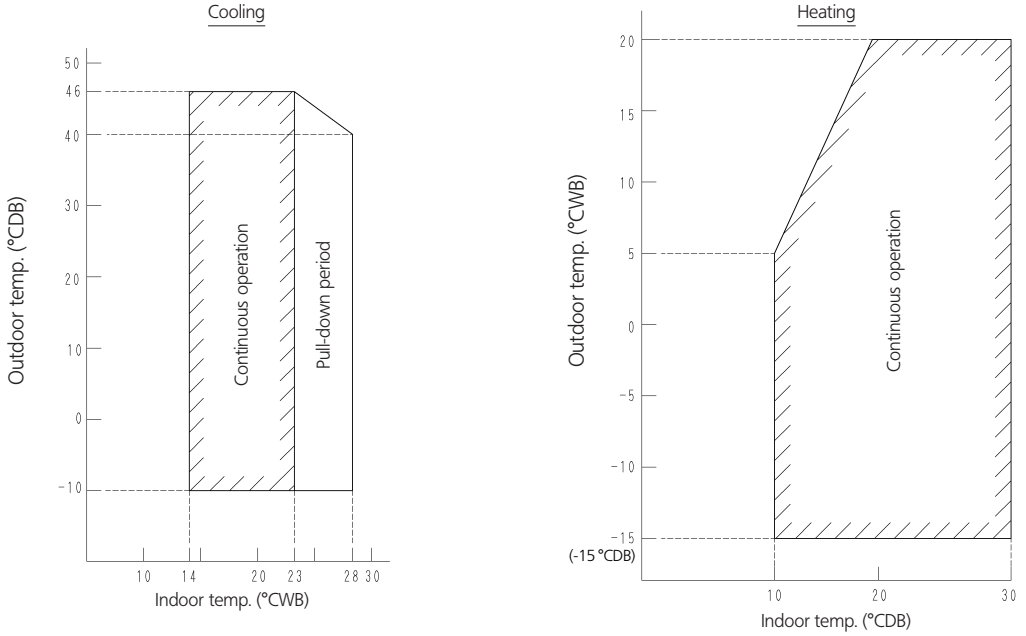
2 Operation noise differs with operation and ambient conditions.

Legend

50Hz, 220-240V

9 Operation range

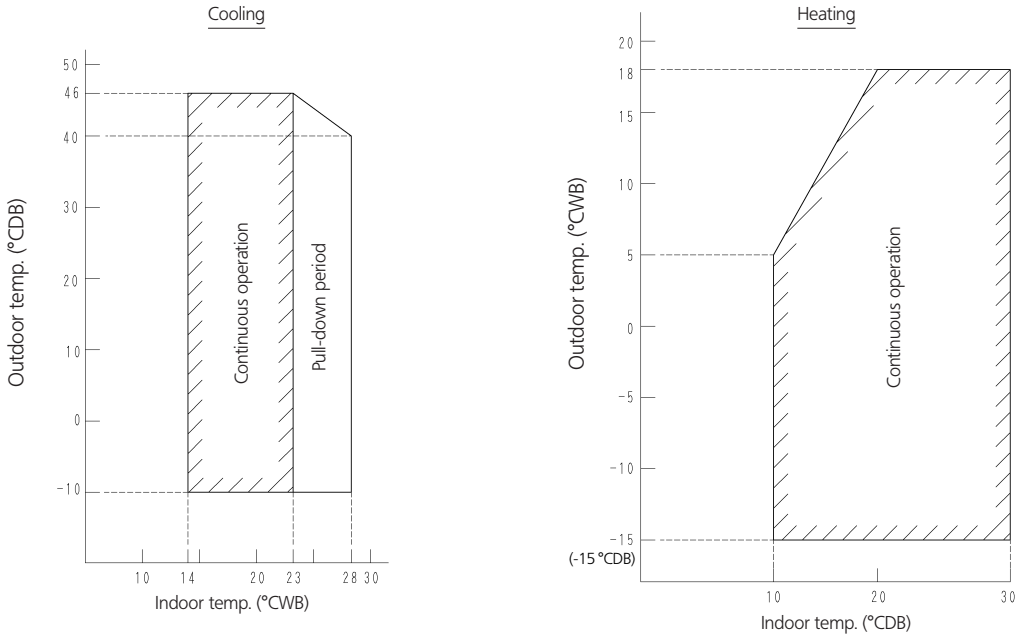
RXS25-35F2V1B



Notes:
The graphs are based on the following conditions:
- Equivalent piping length 7.5 m
- Level difference 0 m
- Air flow rate high

3D039536J

RXS50-71F2V1B



Notes:
The graphs are based on the following conditions:
- Equivalent piping length 7.5 m
- Level difference 0 m
- Air flow rate high

3D028318K