DAIKIN

technical data

air conditioning systems

Indoor Units

RXG-J2V1B

R-410A

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air conditioning systems

Indoor Units

RXG-J2V1B

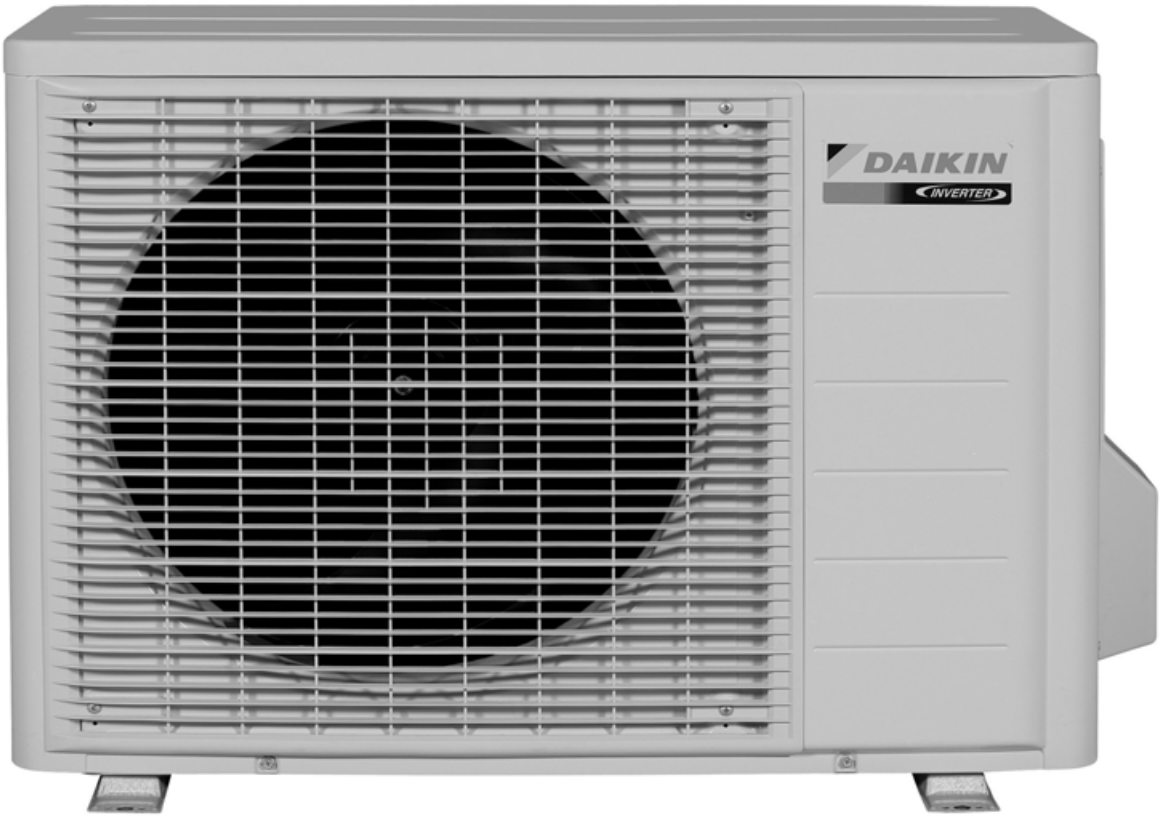
R-410A

TABLE OF CONTENTS

RXG-J2V1B

1 Features

- Outdoor units for pair application
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.



2 Specifications

2-1 Nominal Capacity and Nominal Input				RXG25J2V1B	RXG35J2V1B
For combination indoor units + outdoor units	Indoor Units			FTXG25JV1BS	FTXG35JV1BS
Cooling capacity	Max.	Btu/h		10,20	13,00
		kcal/h		2,58	3,27
		kW		3.000	3.800
	Min.	Btu/h		4,400	4,800
		kcal/h		1,12	1,20
		kW		1.300	1.400
	Nom.	Btu/h		8,50	11,90
		kcal/h		2,15	3,010
		kW		2.500	3.500
Heating capacity	Max.	Btu/h		15,40	17,10
		kcal/h		3,87	4,30
		kW		4.50	5.00
	Min.	Btu/h		4,40	4,80
		kcal/h		1,12	1,20
		kW		1.300	1.400
	Nom.	Btu/h		11,60	13,60
		kcal/h		2,92	3,44
		kW		3.400	4.000
Power Input	Cooling	Max.	kW	0.82	1.22
		Min.	kW	0.35	0.36
		Nom.	kW	0.56	0.89
	Heating	Max.	kW	1.32	1.50
		Min.	kW	0.32	0.32
		Nom.	kW	0.78	0.99
For combination indoor units + outdoor units	EER	Nominal		4.460	3.930
	COP	Nominal		4.360	4.040

2-2 Technical Specifications				RXG25J2V1B	RXG35J2V1B
Casing	Colour			Ivory White	
Dimensions	Unit	Height	mm	550	
		Width	mm	765	
		Depth	mm	285	
	Packing	Height	mm	612	
		Width	mm	906	
		Depth	mm	364	
Energy label	Cooling			A	
	Heating			A	
Weight	Unit		kg	34	
	Packed Unit		kg	38	
Heat Exchanger	Dimensions	Length	mm	805	
		Nr of Rows		2	
		Fin Pitch	mm	1.4	
		Nr of Stages		24	
	Tube type			Hi-Xa(7)	
	Fin	Type		Waffle fin	
Fan - Air flow rate	Cooling	High	cfm	1,183	1,271
		Low	cfm	1,063	
		High	m³/min	33.5	36.0
		Low	m³/min	30.1	
	Heating	High	cfm	1,066	
		Low	cfm	904	
		High	m³/min	30.2	
		Low	m³/min	25.6	

2 Specifications

2-2 Technical Specifications				RXG25J2V1B	RXG35J2V1B
Fan motor Speed	Cooling	High	rpm	860	920
		Low	rpm	780	
	Heating	High	rpm	860	
		Low	rpm	740	
Fan	Motor	Output	W	23	
Compressor	Motor	Model		1YC23AEXD	
		Type		Hermetically sealed swing compressor	
		Motor Output	W	600	
Sound Power	Cooling	High	dBA	61	63
Sound Pressure	Cooling	High	dBA	46	48
		Low	dBA	43	44
Sound Pressure	Heating	High	dBA	47	48
		Low	dBA	44	45
Refrigerant	Type			R-410A	
	Charge		kg	1.05	
Refrigerant Oil	Type			FVC50K	
	Charged Volume		l	0.375	
Piping connections	Drain	OD	mm	18	
	Gas	OD	mm	9.52	
	Liquid	OD	mm	6.35	
	Piping Length	Maximum	m	20	
	Additional Refrigerant Charge		kg/m	0.02 (for piping length exceeding 10m)	
	Max. internunit level difference		m	15	
	Heat Insulation			Both liquid and gas pipes	
Notes				Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m	
				Heating: indoor temp. 21°CDB; outdoor temp. 7°CDB, 6°CWB; piping length: 5m	

2-3 Electrical Specifications				RXG25J2V1B	RXG35J2V1B
Power Supply	Name			V1	
	Phase			1~	
	Frequency		Hz	50	
	Voltage		V	220-230-240	
Current	Nominal running current (RLA)	Cooling	A	3.11 2.92 2.82	4.97 4.68 4.48
		Heating	A	4.28 4.09 3.99	5.44 5.15 4.96
	Starting current	Cooling	A	4.4	5.6
		Heating	A	4.4	5.6
Wiring connections	For Power Supply	Quantity		3	
	For connection with indoor	Remark		4 for interunit wiring (including earth wiring)	

3 Electrical data

RXG25-35J

Representative unit combination		Power supply				Comp		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG25JV1BW FTXG25JV1BS	RXG25J2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	9.75	16	46	2.8	23	0.23	40	0.15
		50 - 230					2.6				
		50 - 240					2.5				
FTXG35JV1BW FTXG35JV1BS	RXG35J2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	9.75	16	46	4.7	23	0.23	40	0.15
		50 - 230					4.4				
		50 - 240					4.2				

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 : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions.
   - Indoor temp. 27°C DB/19.0°C WB.
   - Outdoor temp. 35°C DB.
2. Maximum allowable voltage variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.

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4 Capacity tables

4 - 1 Cooling/Heating capacity tables

FTXG25JV1BW+RXG25J2V1B
FTXG25JV1BS+RXG25J2V1B

Cooling 50Hz 220-240V

AFR	8.8
BF	0.11

Indoor		Outdoor temperature (°C DB)																	
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	2.05	0.43	2.44	2.00	0.47	2.33	1.94	0.51	2.28	1.92	0.53	2.21	1.89	0.55	2.10	1.83	0.60
16.0	22	2.68	2.02	0.43	2.56	1.97	0.47	2.44	1.91	0.51	2.40	1.89	0.53	2.33	1.86	0.56	2.21	1.81	0.60
18.0	25	2.79	2.14	0.43	2.68	2.09	0.48	2.56	2.04	0.52	2.51	2.02	0.53	2.44	1.99	0.56	2.33	1.95	0.60
19.0	27	2.85	2.27	0.44	2.73	2.23	0.48	2.62	2.18	0.52	2.57	2.16	0.54	2.50	2.13	0.56	2.38	2.09	0.60
22.0	30	3.02	2.20	0.44	2.91	2.16	0.48	2.79	2.12	0.52	2.74	2.10	0.54	2.67	2.08	0.56	2.56	2.04	0.61
24.0	32	3.14	2.15	0.44	3.02	2.11	0.48	2.90	2.07	0.52	2.86	2.06	0.54	2.79	2.04	0.57	2.67	2.00	0.61

Heating 50Hz 220-240V

AFR	9.6

Indoor	Outdoor temperature (°C WB)									
EDB	-10		-5		0		6		10	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.29	0.66	2.67	0.69	3.06	0.72	3.52	0.76	3.82	0.79
20.0	2.17	0.68	2.56	0.71	2.94	0.74	3.40	0.78	3.71	0.81
22.0	2.12	0.68	2.51	0.72	2.89	0.75	3.35	0.79	3.66	0.81
24.0	2.08	0.69	2.46	0.72	2.85	0.76	3.31	0.79	3.61	0.82
25.0	2.05	0.69	2.44	0.73	2.82	0.76	3.28	0.80	3.59	0.82
27.0	2.01	0.70	2.39	0.73	2.77	0.77	3.24	0.80	3.54	0.83

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 heat capacity	(kW)
PI	: Power input	(kW)

NOTES

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

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4 Capacity tables

4 - 1 Cooling/Heating capacity tables

FTXG35JV1BW+RXG35J2V1B
FTXG35JV1BS+RXG35J2V1B

Cooling 50Hz 220-240V

AFR	10.1
BF	0.14

Indoor		Outdoor temperature (°C DB)																	
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	3.57	2.63	0.68	3.42	2.56	0.75	3.26	2.48	0.81	3.19	2.45	0.84	3.10	2.40	0.88	2.93	2.32	0.95
16.0	22	3.75	2.60	0.69	3.58	2.52	0.75	3.42	2.44	0.82	3.36	2.41	0.84	3.26	2.37	0.88	3.10	2.29	0.95
18.0	25	3.91	2.72	0.69	3.75	2.65	0.76	3.58	2.57	0.82	3.52	2.55	0.85	3.42	2.50	0.89	3.26	2.43	0.95
19.0	27	3.99	2.86	0.69	3.83	2.79	0.76	3.66	2.73	0.82	3.60	2.70	0.85	3.50	2.66	0.89	3.34	2.59	0.96
22.0	30	4.23	2.76	0.70	4.07	2.70	0.76	3.90	2.64	0.83	3.84	2.61	0.86	3.74	2.58	0.90	3.58	2.52	0.96
24.0	32	4.39	2.69	0.70	4.23	2.63	0.77	4.07	2.58	0.83	4.00	2.55	0.86	3.90	2.52	0.90	3.74	2.47	0.97

Heating 50Hz 220-240V

AFR	10.8

Indoor	Outdoor temperature (°C WB)									
EDB	-10		-5		0		6		10	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.69	0.84	3.14	0.88	3.60	0.92	4.14	0.97	4.50	1.00
20.0	2.55	0.86	3.01	0.90	3.46	0.94	4.00	0.99	4.36	1.02
22.0	2.50	0.87	2.95	0.91	3.40	0.95	3.94	1.00	4.31	1.03
24.0	2.44	0.88	2.90	0.92	3.35	0.96	3.89	1.01	4.25	1.04
25.0	2.42	0.88	2.87	0.92	3.32	0.96	3.86	1.01	4.22	1.04
27.0	2.36	0.89	2.81	0.93	3.26	0.97	3.81	1.02	4.17	1.05

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 heat capacity	(kW)
PI	: Power input	(kW)

NOTES

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

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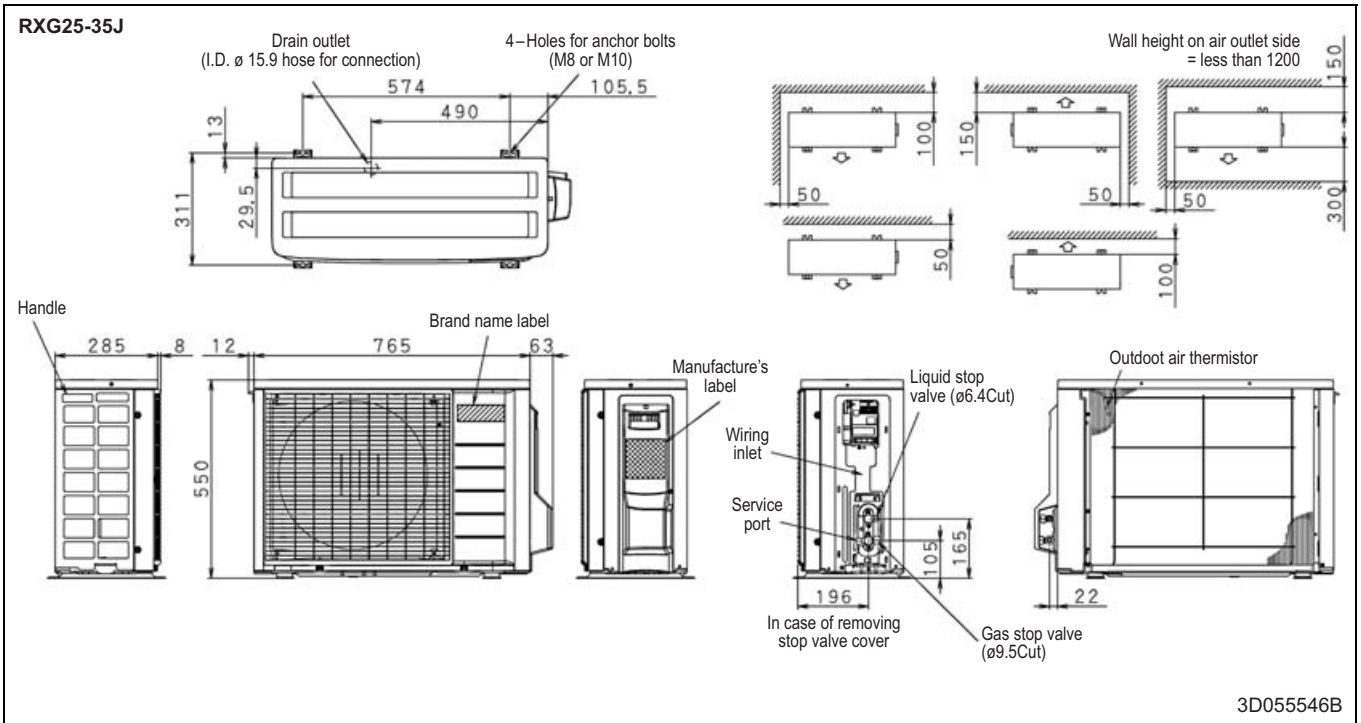
5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

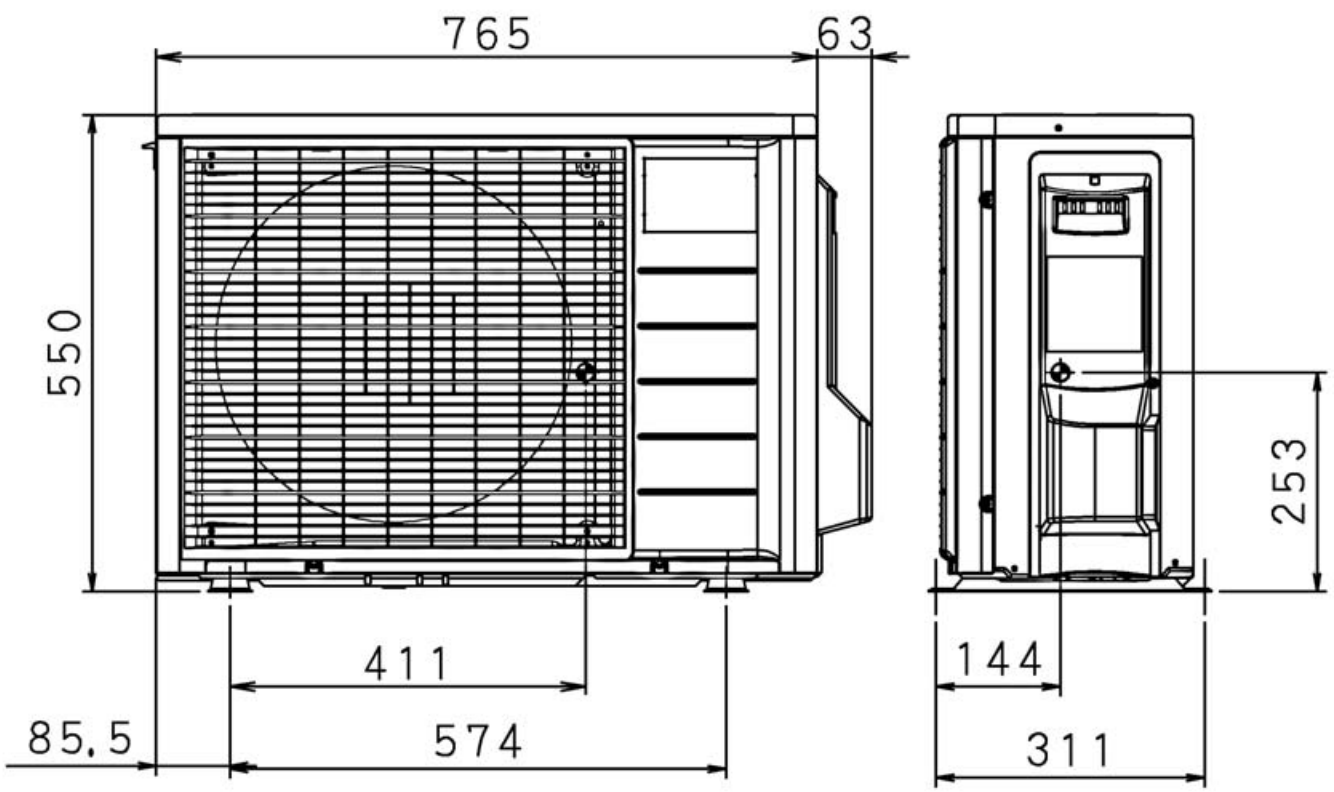
RXG25-35J



5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

RXG25-35J



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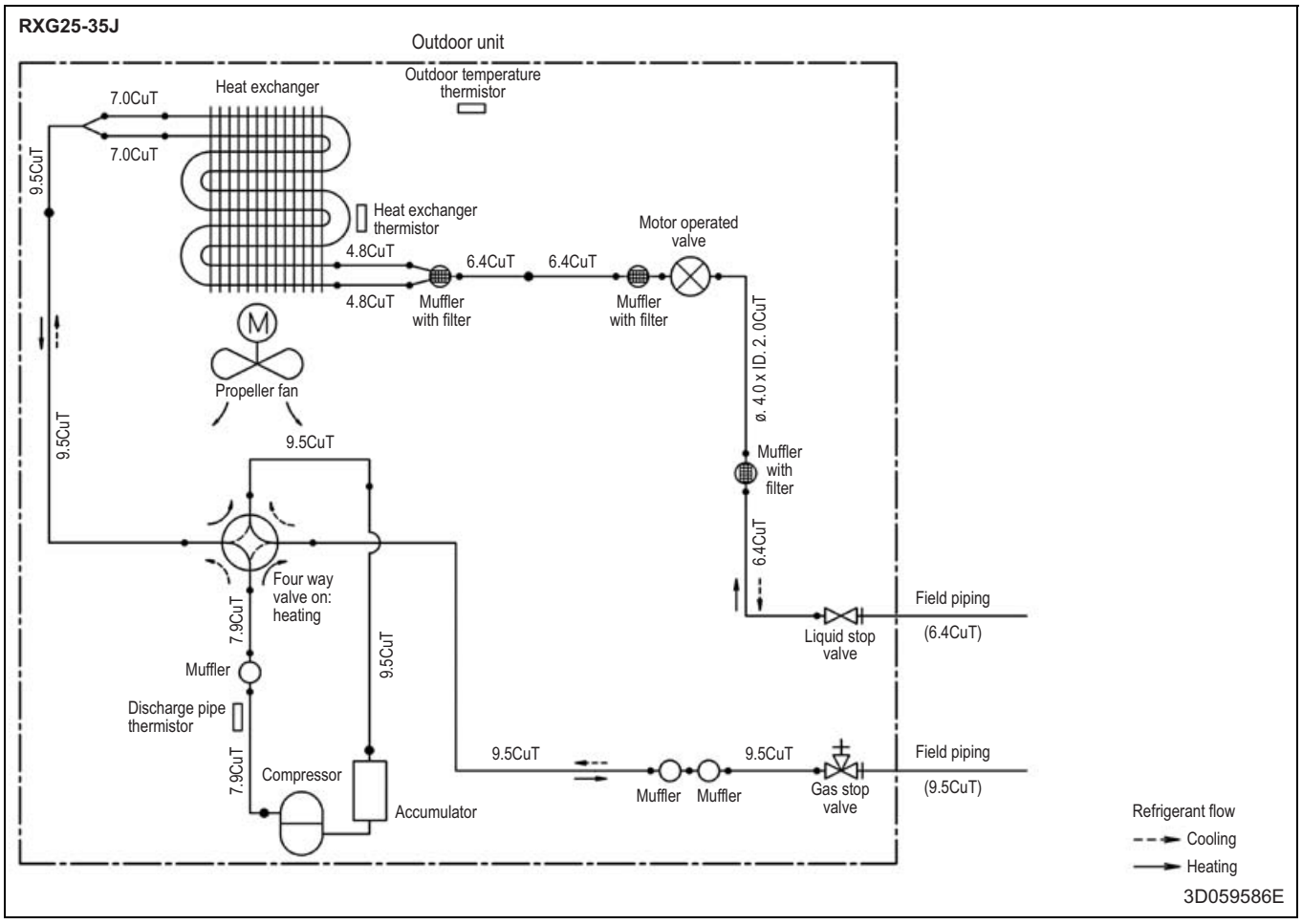
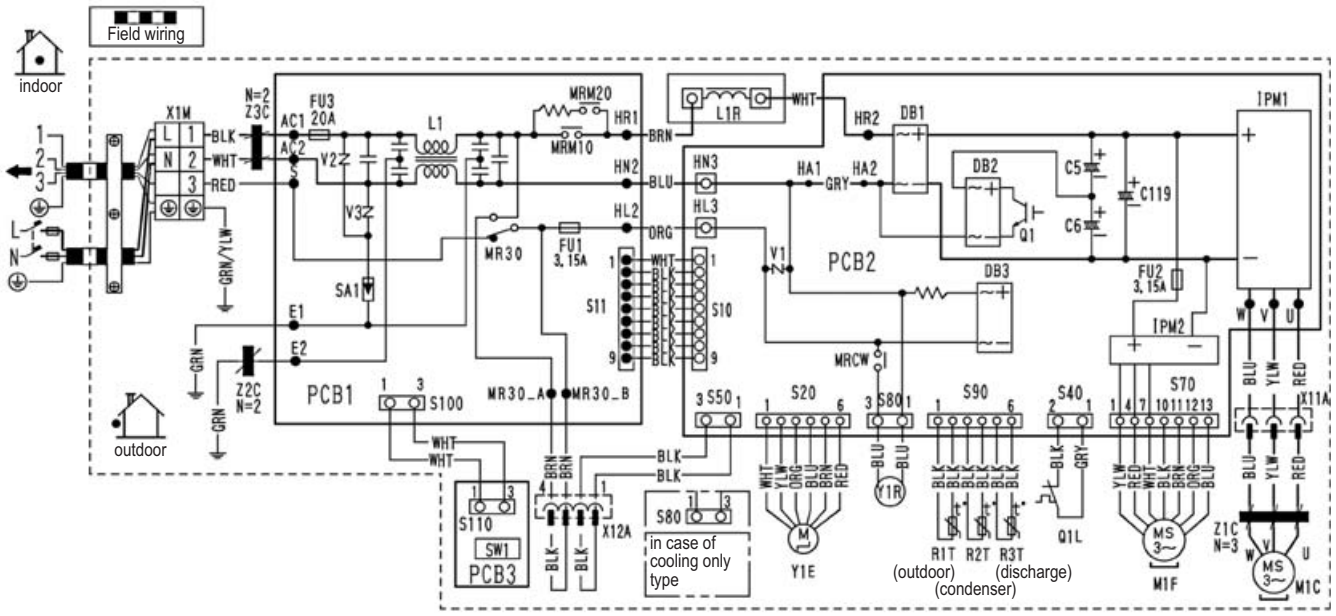
6 Piping diagram



7 Wiring diagram

7 - 1 Wiring diagram

RXG25-35J



C5, C6, C119	Capacitor	PCB1, PCB2, PCB3	Printed circuit board
DB1, DB2, DB3	Diode bridge	R1T, R2T, R3T	Thermistor
FU1, FU2, FU3	Fuse	S10, S11, S20, S40, S50, S70, S80, S90, S100, S110, HL3, HN3, X11A, X12A	Connector
IPM1, IPM2	Intelligent power module		
L	Live	SA1	Surge arrester
L1	Coil	SW1	Forced operation switch
L1R	Reactor	V1, V2, V3	Varistor
M1C	Compressor motor	X1M	Terminal strip
M1F	Fan motor	Y1E	Electronic expansion valve coil
MRCW, MR30, MRM10, MRM20	Magnetic relay	Y1R	Reversing solenoide valve coil
N	Neutral	Z1C, Z2C, Z3C	Ferrite core
Q1L	Overload protector	⏚	Protective earth

NOTE

1 Refer to the nameplate for the power requirements.

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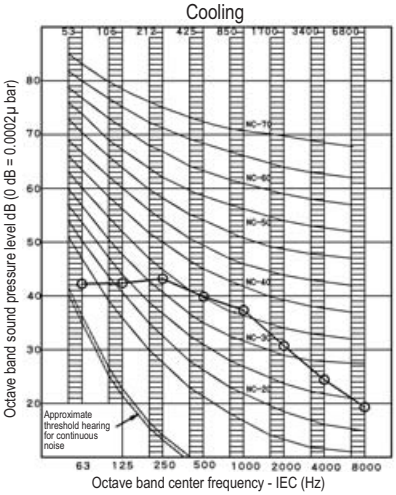
8 Sound data

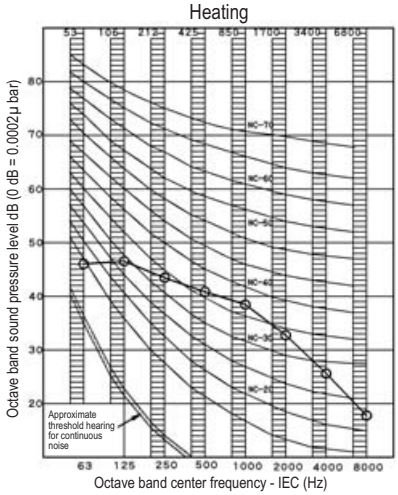
8 - 1 Sound pressure spectrum

RXG25J

Cooling



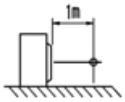
Heating



NOTES

Scale	50Hz 220~240V (H)
A	46

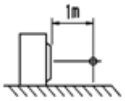
1 Over All (dB): (B,G,N is already rectified)
2 Measuring place: measure in anechoic room.
3 Operation noise differs with operation and ambient conditions.
4 Location of microphone. JISC9612 The operation noise measuring method is in accordance with JISC9612



NOTES

Scale	50Hz 220~240V (H)
A	47

1 Over All (dB): (B,G,N is already rectified)
2 Measuring place: measure in anechoic room.
3 Operation noise differs with operation and ambient conditions.
4 Location of microphone. JISC9612 The operation noise measuring method is in accordance with JISC9612



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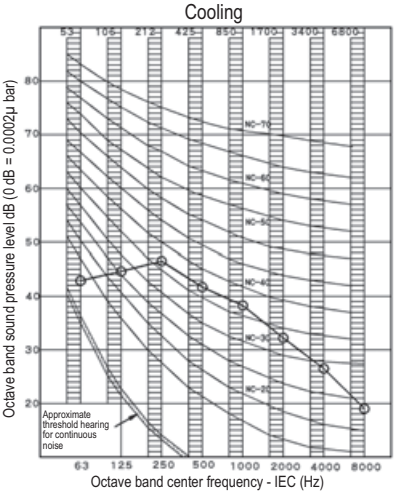
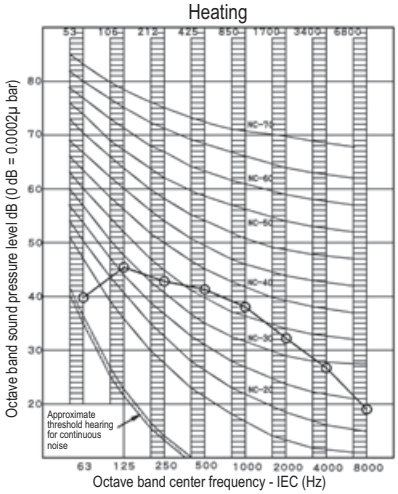
RXG35J

Cooling



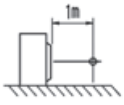
Heating



NOTES

Scale	50Hz 220~240V (H)
A	48

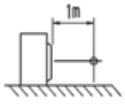
1 Over All (dB): (B,G,N is already rectified)
2 Measuring place: measure in anechoic room.
3 Operation noise differs with operation and ambient conditions.
4 Location of microphone. JISC9612 The operation noise measuring method is in accordance with JISC9612



NOTES

Scale	50Hz 220~240V (H)
A	48

1 Over All (dB): (B,G,N is already rectified)
2 Measuring place: measure in anechoic room.
3 Operation noise differs with operation and ambient conditions.
4 Location of microphone. JISC9612 The operation noise measuring method is in accordance with JISC9612



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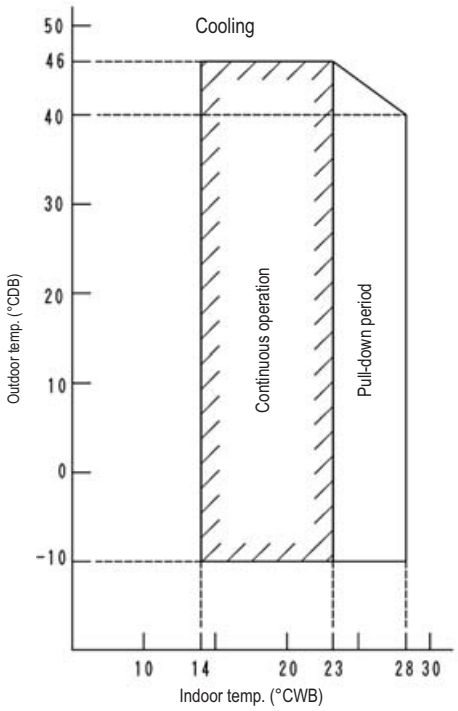
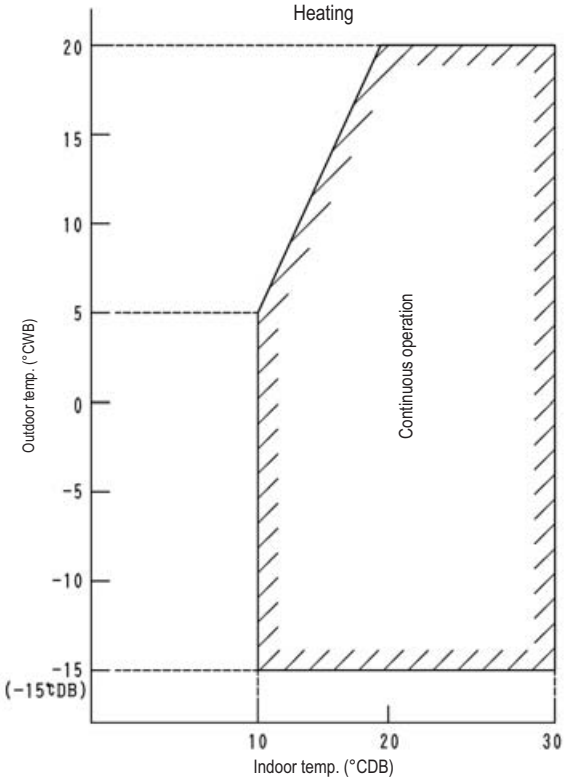
9 Operation range

RXG25-35J





NOTES

The graphs are based on the following conditions.

– Equivalent piping length	7.5m
– Level difference	0m
– Air flow rate	High

3D039536L

In all of us, a green heart

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intension to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

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.

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

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

VRV® products are not within the scope of the Eurovent certification programme.

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