DAIKIN

Air Conditioning

Technical Data

EEDEN13-100

RXG-K

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1 Features

- Outdoor units for pair application
- Outdoor unit silent operation: "silent" button on the remote control lowers the operation sound of the outdoor unit by 3dBA to ensure a quiet environment for the neighbourhood.
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Energy saving during standby mode: reduces current consumption by about 80% when operating In standby. If no people are detected for more than 20 minutes, the system will automatically switch to the current-saving mode.
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall

2 Specifications

2-1 Nominal Capacity And Nominal Input				FTXG25JA/RXG25K	FTXG35JA/RXG35K	FTXG50JA/RXG50K
Cooling capacity	Min.		kW	1.3	1.4	1.7
			Btu/h	4,400	4,800	5,800
			kcal/h	1,120	1,200	1,460
	Nom.		kW	2.5 (2)	3.5 (2)	5.0 (2)
			Btu/h	8,500 (2)	11,900 (2)	17,100 (2)
			kcal/h	2,150 (2)	3,010 (2)	4,300 (2)
	Max.		kW	3.0	3.8	5.3
			Btu/h	10,200	13,000	18,100
			kcal/h	2,580	3,270	4,560
Heating capacity	Min.		kW	1.3	1.4	1.7
			Btu/h	4,400	4,800	5,800
			kcal/h	1,120	1,200	1,460
	Nom.		kW	3.4 (3)	4.0 (3)	5.8 (3)
			Btu/h	11,600 (3)	13,600 (3)	19,800 (3)
			kcal/h	2,920 (3)	3,440 (3)	4,990 (3)
	Max.		kW	4.5	5.0	6.5
			Btu/h	15,400	17,100	22,200
			kcal/h	3,870	4,300	5,590
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A
		Pdesign	kW	2.50	3.50	5.00
		SEER		6.53	6.51	5.45
		Annual energy consumption	kWh	134	188	321
	Heating (Average climate)	Energy label		A+		A
		Pdesign	kW	2.80	3.30	4.60
		SCOP		4.34	4.23	3.87
		Annual energy consumption	kWh	903	1,091	1,660
Nominal efficiency (cooling at 35º/27º nominal load, heating at 7º/20º nominal load)	EER			4.46 (1)	3.93 (1)	3.21 (1)
	COP			4.36 (1)	4.04 (1)	3.63 (1)
	Annual energy consumption		kWh	280	445	780
	Energy label	Cooling		A		
		Heating		A		
Piping connections	Liquid	OD	mm	6.35		
	Gas	OD	mm	9.52		12.7
	Drain	OD	mm	16 or 18		18.0
	Heat insulation			Both liquid and gas pipes		
Current	Nominal running current (RLA) - 50Hz	Cooling	A	3.2 (7) / 3.0 (8) / 2.9 (9)	5.1 (7) / 4.8 (8) / 4.6 (9)	7.2 (7) / 6.9 (8) / 6.6 (9)
		Heating	A	4.4 (7) / 4.2 (8) / 4.1 (9)	5.6 (7) / 5.3 (8) / 5.1 (9)	7.4 (7) / 7.1 (8) / 6.8 (9)

Notes

(1) EER/COP according to Eurovent 2012

(2) Cooling: indoor temp. 27ºCDB, 19.0ºCWB; outdoor temp. 35ºCDB, 24ºCWB; equivalent piping length: 5m

(3) Heating: indoor temp. 20ºCDB; outdoor temp. 7ºCDB, 6ºCWB; equivalent refrigerant piping: 5m

2-2 Nominal Capacity And Nominal Input			FTXG25JW/RXG25K	FTXG35JW/RXG35K	FTXG50JW/RXG50K
Cooling capacity	Min.	kW	1.3	1.4	1.7
		Btu/h	4,400	4,800	5,800
		kcal/h	1,120	1,200	1,460
	Nom.	kW	2.5 (2)	3.5 (2)	5.0 (2)
		Btu/h	8,500 (2)	11,900 (2)	17,100 (2)
		kcal/h	2,150 (2)	3,010 (2)	4,300 (2)
	Max.	kW	3.0	3.8	5.3
		Btu/h	10,200	13,000	18,100
		kcal/h	2,580	3,270	4,560.0

2 Specifications

2-2 Nominal Capacity And Nominal Input				FTXG25JW/RXG25K	FTXG35JW/RXG35K	FTXG50JW/RXG50K
Heating capacity	Min.		kW	1.3	1.4	1.7
			Btu/h	4,400	4,800	5,800
			kcal/h	1,120	1,200	1,460
	Nom.		kW	3.4 (3)	4.0 (3)	5.8 (3)
			Btu/h	11,600 (3)	13,600 (3)	19,800 (3)
			kcal/h	2,920 (3)	3,440 (3)	4,990 (3)
	Max.		kW	4.5	5.0	6.5
			Btu/h	15,400	17,100	22,200
			kcal/h	3,870	4,300	5,590
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A
		Pdesign	kW	2.50	3.50	5.00
		SEER		6.53	6.51	5.45
		Annual energy consumption	kWh	134	188	321
	Heating (Average climate)	Energy label		A+		A
		Pdesign	kW	2.80	3.30	4.60
		SCOP		4.34	4.23	3.87
		Annual energy consumption	kWh	903	1,091	1,660
Nominal efficiency (cooling at 35º/27º nominal load, heating at 7º/20º nominal load)	EER			4.46 (1)	3.93 (1)	3.21 (1)
	COP			4.36 (1)	4.04 (1)	3.63 (1)
	Annual energy consumption		kWh	280	445	780
	Energy label	Cooling		A		
		Heating		A		
Piping connections	Liquid	OD	mm	6.35		
	Gas	OD	mm	9.52		12.7
	Drain	OD	mm	16 or 18		18.0
	Heat insulation			Both liquid and gas pipes		
Current	Nominal running current (RLA) - 50Hz	Cooling	A	3.2 (6) / 3.0 (7) / 2.9 (8)	5.1 (6) / 4.8 (7) / 4.6 (8)	7.2 (4) / 6.9 (5) / 6.6 (6)
		Heating	A	4.4 (6) / 4.2 (7) / 4.1 (8)	5.6 (6) / 5.3 (7) / 5.1 (8)	7.4 (4) / 7.1 (5) / 6.8 (6)

Notes

(1) EER/COP according to Eurovent 2012

(2) Cooling: indoor temp. 27ºCDB, 19.0ºCWB; outdoor temp. 35ºCDB, 24ºCWB; equivalent piping length: 5m

(3) Heating: indoor temp. 20ºCDB; outdoor temp. 7ºCDB, 6ºCWB; equivalent refrigerant piping: 5m

(4) Cooling: indoor temp. 27ºCDB, 19ºCWB; outdoor temp. 35ºCDB, 24ºCWB

(5) Heating: indoor temp. 20ºCDB; outdoor temp. 7ºCDB, 6ºCWB

2-3 Nominal Capacity And Nominal Input			FVXG25K/RXG25K	FVXG35K/RXG35K	FVXG50K/RXG50K
Cooling capacity	Min.	kW	1.3	1.4	1.7
		Btu/h	4,400	4,800	5,800
		kcal/h	1,120	1,200	1,460
	Nom.	kW	2.5 (2)	3.5 (2)	5.0 (2)
		Btu/h	8,500 (2)	11,900 (2)	17,100 (2)
		kcal/h	2,150 (2)	3,010 (2)	4,300 (2)
	Max.	kW	3.0	3.8	5.6
		Btu/h	10,200	13,000	19,100
		kcal/h	2,580	3,270	4,820
Heating capacity	Min.	kW	1.3	1.4	1.7
		Btu/h	4,400	4,800	5,800
		kcal/h	1,120	1,200	1,460
	Nom.	kW	3.4 (3)	4.5 (3)	5.8 (3)
		Btu/h	11,600 (3)	15,400 (3)	19,800 (3)
		kcal/h	2,920 (3)	3,870 (3)	4,990 (3)
	Max.	kW	4.5	5.0	8.1
		Btu/h	15,400	17,100	27,600
		kcal/h	3,870	4,300	6,970

2 Specifications

2-3 Nominal Capacity And Nominal Input				FVXG25K/RXG25K	FVXG35K/RXG35K	FVXG50K/RXG50K
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A
		Pdesign	kW	2.50	3.50	5.00
		SEER		6.46	6.33	5.31
		Annual energy consumption	kWh	135	194	330
	Heating (Average climate)	Energy label		A+	A	A+
		Pdesign	kW	2.80	3.10	4.60
		SCOP		4.56	3.93	4.13
		Annual energy consumption	kWh	858	1,103	1,559
Nominal efficiency (cooling at 35º/27º nominal load, heating at 7º/20º nominal load)	EER			4.55	3.68	3.29
	COP			4.36	3.72	3.67
	Annual energy consumption		kWh	275	475	760
	Energy label	Cooling		A		
		Heating		A		
Piping connections	Liquid	OD	mm	6.35		
	Gas	OD	mm	9.5		12.7
	Drain	OD	mm	18		
	Heat insulation			Both liquid and gas pipes		
Current	Nominal running current (RLA) - 50Hz	Cooling	A	3.0 (4) / 2.9 (5) / 2.8 (6)	4.8 (4) / 4.6 (5) / 4.4 (6)	7.1 (5) / 6.7 (6) / 6.5 (7)
		Heating	A	4.1 (4) / 3.9 (5) / 3.7 (6)	6.0 (4) / 5.7 (5) / 5.5 (6)	7.3 (5) / 7.0 (6) / 6.7 (7)

Notes

(1) EER/COP according to Eurovent 2012

(2) Cooling: indoor temp. 27ºCDB, 19ºCWB; outdoor temp. 35ºCDB, 24ºCWB

(3) Heating: indoor temp. 20ºCDB; outdoor temp. 7ºCDB, 6ºCWB

(4) 220V

(5) 230V

(6) 240V

(7) When connected with multi-system outdoor unit, refer to the specifications of the multi outdoor unit to be connected.

2-4 Technical Specifications				RXG25K	RXG35K	RXG50K
Capacity control	Method			Inverter controlled		
Casing	Colour			Ivory white		
Dimensions	Unit	Height	mm	550		735
		Width	mm	765		825
		Depth	mm	285		300
	Packed unit	Height	mm	612		797
		Width	mm	906		960
		Depth	mm	364		390
Weight	Unit		kg	34		48
	Packed unit		kg	38		53
Packing	Weight		kg	4		5
Heat exchanger	Length		mm	805		845
	Rows	Quantity		2		
	Fin pitch		mm	1.4		1.8
	Stages	Quantity		24		32
	Tube type			ø7 Hi-XA		ø8 Hi-XA
	Fin	Type		WF fin		
Compressor	Model			1YC23AEXD		2YC36BXD
	Type			Hermetically sealed swing compressor		
	Output		W	600		1,100

2 Specifications

2-4 Technical Specifications					RXG25K	RXG35K	RXG50K
Fan	Type				Propeller fan		
	Air flow rate	Cooling	High	m³/min	33.5	36.0	50.9
				cfm	1,183	1,271	1,797
			Nom.	m³/min	33.5	36.0	50.9
				cfm	1,183	1,271	1,797
			Super low	m³/min	30.1		48.9
				cfm	1,063		1,727
		Heating	High	m³/min	30.2		45.0
				cfm	1,066		1,589
			Super low	m³/min	25.6		43.1
				cfm	904		1,522
Fan motor	Model				ARS6401DA		KFD-380-50-8C
	Output			W	23		53
	Speed	Cooling	High	rpm	860	920	780
			Super low	rpm	780		670
		Heating	High	rpm	860		720
			Super low	rpm	740		670
Sound power level	Cooling	Nom.		dBA	62	63	
		High		dBA	62	64	63
Sound pressure level	Cooling	High		dBA	46	48	
		Silent operation		dBA	43	44	
	Heating	High		dBA	47	48	
		Silent operation		dBA	44	45	
Operation range	Cooling	Ambient	Min.	ºCDB	-10 (4)		
			Max.	ºCDB	46		
	Heating	Ambient	Min.	ºCWB	-15		
			Max.	ºCWB	18		
Refrigerant	Type				R-410A		
	Charge			kg	1.05		1.6
	GWP				1,975		
Refrigerant oil	Type				FVC50K		
	Charged volume			l	0.375		0.65
Piping connections	Drain	ID		mm	-		
	Piping length	OU - IU	Max.	m	20		30
		System	Chargeless	m	10		
	Level difference	IU - OU	Max.	m	15		20

2-5 Electrical Specifications				RXG25K	RXG35K	RXG50K
Power supply	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	220-240		
Current	Nominal running current (RLA)	Cooling	A	3.11 (1) / 2.92 (2) / 2.82 (3)	4.97 (1) / 4.68 (2) / 4.48 (3)	7.04 (1) / 6.75 (2) / 6.46 (3)
		Heating	A	4.28 (1) / 4.09 (2) / 3.99 (3)	5.44 (1) / 5.15 (2) / 4.96 (3)	7.21 (1) / 6.92 (2) / 6.63 (3)
	Starting current	Cooling	A	4.4	5.6	7.4
		Heating	A	4.4	5.6	7.4
Current - 50Hz	Maximum fuse amps (MFA)		A	16		20
Current - 60Hz	Maximum fuse amps (MFA)		A	-		
Wiring connections	For power supply	Quantity		3		
	For connection with indoor	Quantity		4		
		Remark		Earth wire included		

Notes

(1) 220V

(2) 230V

(3) 240V

(4) Operation range in combination with Nexura, FVXG-K: min. 10ºCDB ~ max. 46ºCDB

3 Electrical data

3 - 1 Electrical Data

RXG25-35K

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG25JW FTXG25JA	RXG25K	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				
FTXG35JW FTXG35JA	RXG35K	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	9,75	16	68	4,7	23	0,23	40	0,15
		50 - 230					4,4				
		50 - 240					4,2				

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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 : Fan Motor Rated 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 variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use Circuit Breaker.

RXG25-35K

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FVXG25K	RXG25K	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	9.75	16	47	2.6	23	0.23	32	0.16
		50 - 230					2.5				
		50 - 240					2.4				
FVXG35K	RXG35K	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	9.75	16	72	4.4	23	0.23	32	0.16
		50 - 230					4.2				
		50 - 240					4.0				

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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 : Fan Motor Rated 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 variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use Circuit Breaker.

3 Electrical data

3 - 1 Electrical Data

RXG50K

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG50JW FTXG50JA	RXG50K	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	70	6.8	53	0.27	40	0.15
		50 - 230					6.5				
		50 - 240					6.2				

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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 : Fan Motor Rated 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 variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use Circuit Breaker.

RXG50K

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FVXG50K	RXG50K	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	70	6.7	53	0.27	32	0.16
		50 - 230					6.3				
		50 - 240					6.1				

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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 : Fan Motor Rated 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 variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use Circuit Breaker.

4 Options

4 - 1 Options

RXG-K

Outdoor Units

	RXG25K	RXG35K	RXG50K
Air direction adjustment grille	-		KPW945A4

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FTXG25JA + RXG25K
FTXG25JW + RXG25K

AFR	8.8
BF	0.11

Cooling **50Hz 220-240V**

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	2.05	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

AFR	9.6

Heating **50Hz 220-240V**

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	0.66	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

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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 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.

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FTXG35JA + RXG35K
FTXG35JW + RXG35K

Cooling **50Hz 220-240V**

AFR	10.1
BF	0.14

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	3.57	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 (°CWB)									
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

3D065862C

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.

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FTXG50JW + RXG50K
FTXG50JA + RXG50K

Cooling **50Hz 220-240V**

AFR	10.3
BF	0.17

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	3.51	2.59	1.10	3.51	2.59	1.26	3.51	2.59	1.41	3.51	2.59	1.47	3.51	2.59	1.54	3.51	2.59	1.66
16.0	22	4.46	2.93	1.16	4.46	2.93	1.30	4.46	2.93	1.43	4.46	2.93	1.48	4.46	2.93	1.55	4.42	2.92	1.66
18.0	25	5.48	3.45	1.21	5.35	3.38	1.33	5.12	3.27	1.44	5.02	3.22	1.49	4.88	3.16	1.56	4.65	3.04	1.67
19.0	27	5.70	3.63	1.21	5.47	3.52	1.33	5.23	3.41	1.44	5.14	3.36	1.49	5.00	3.30	1.56	4.77	3.19	1.68
22.0	30	6.04	3.48	1.22	5.81	3.38	1.34	5.58	3.28	1.46	5.49	3.24	1.50	5.35	3.18	1.57	5.11	3.09	1.69
24.0	32	6.27	3.37	1.23	6.04	3.28	1.35	5.81	3.19	1.46	5.72	3.15	1.51	5.58	3.10	1.58	5.34	3.01	1.69

AFR	11.4

Heating **50Hz 220-240V**

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	5.94	1.67
25.0	3.50	1.43	4.16	1.49	4.81	1.56	5.60	1.64	5.75	1.67
27.0	3.42	1.44	4.08	1.51	4.73	1.57	5.38	1.64	5.38	1.67

3D072100B

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 the following conditions:
   Corresponding refrigerant piping length : 5m
   Level difference : 0m
6. Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FVXG25K + RXG25K

Cooling **50Hz 220-240V**

AFR	8.9
BF	0.10

Indoor		Outdoor temp. (°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	2.07	0.42	2.44	2.02	0.46	2.33	1.96	0.50	2.28	1.94	0.52	2.21	1.91	0.54	2.10	1.85	0.58
16.0	22	2.68	2.04	0.42	2.56	1.98	0.47	2.44	1.93	0.51	2.40	1.91	0.52	2.33	1.88	0.55	2.21	1.83	0.59
18.0	25	2.79	2.16	0.43	2.68	2.11	0.47	2.56	2.06	0.51	2.51	2.04	0.52	2.44	2.01	0.55	2.33	1.97	0.59
19.0	27	2.85	2.30	0.43	2.73	2.25	0.47	2.62	2.21	0.51	2.57	2.19	0.53	2.50	2.16	0.55	2.38	2.12	0.59
22.0	30	3.02	2.22	0.43	2.91	2.18	0.47	2.79	2.14	0.51	2.74	2.13	0.53	2.67	2.10	0.55	2.56	2.06	0.59
24.0	32	3.14	2.17	0.43	3.02	2.14	0.47	2.90	2.10	0.52	2.86	2.09	0.53	2.79	2.06	0.56	2.67	2.03	0.60

Heating **50Hz 220-240V**

AFR	9.9

Indoor	Outdoor temp. (°CWB)									
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

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

NOTES

1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 5.0m
   (2) Level difference: 0m
2. ☐ shows nominal (rated) capacities and power input.

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FVXG35K + RXG35K

Cooling **50Hz 220-240V**

AFR	9.1
BF	0.13

5

Indoor		Outdoor temp. (°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	3.25	2.40	0.69	3.25	2.40	0.78	3.25	2.40	0.87	3.19	2.37	0.90	3.10	2.32	0.94	2.93	2.24	1.01
16.0	22	3.75	2.53	0.73	3.58	2.45	0.80	3.42	2.37	0.87	3.36	2.34	0.90	3.26	2.29	0.94	3.10	2.22	1.01
18.0	25	3.91	2.63	0.74	3.75	2.56	0.81	3.58	2.49	0.88	3.52	2.46	0.91	3.42	2.41	0.95	3.26	2.34	1.02
19.0	27	3.99	2.76	0.74	3.83	2.69	0.81	3.66	2.62	0.88	3.60	2.59	0.91	3.50	2.55	0.95	3.34	2.48	1.02
22.0	30	4.23	2.66	0.75	4.07	2.60	0.82	3.90	2.53	0.89	3.84	2.51	0.91	3.74	2.47	0.96	3.58	2.41	1.03
24.0	32	4.39	2.58	0.75	4.23	2.53	0.82	4.07	2.47	0.89	4.00	2.45	0.92	3.90	2.41	0.96	3.74	2.36	1.03

Heating **50Hz 220-240V**

AFR	10.2

Indoor	Outdoor temp. (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.03	1.02	3.54	1.07	4.05	1.12	4.66	1.18	5.06	1.22
20.0	2.87	1.05	3.38	1.10	3.89	1.15	4.50	1.21	4.91	1.25
22.0	2.81	1.06	3.32	1.11	3.83	1.16	4.44	1.22	4.84	1.26
24.0	2.75	1.07	3.26	1.12	3.77	1.17	4.38	1.23	4.78	1.27
25.0	2.72	1.08	3.23	1.13	3.73	1.18	4.34	1.24	4.75	1.28
27.0	2.66	1.09	3.16	1.14	3.67	1.19	4.28	1.25	4.69	1.29

3D072089B

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: 5.0m
   (2) Level difference: 0m
2. ☐ shows nominal (rated) capacities and power input.

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FVXG50K + RXG50K

Cooling **50Hz 220-240V**

AFR	10.6
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	3.79	2.80	1.05	3.79	2.80	1.19	3.79	2.80	1.34	3.79	2.80	1.39	3.79	2.80	1.48	3.79	2.80	1.61
16.0	22	4.81	3.17	1.13	4.81	3.17	1.27	4.81	3.17	1.39	4.79	3.16	1.44	4.65	3.09	1.51	4.42	2.97	1.62
18.0	25	5.58	3.56	1.18	5.35	3.44	1.29	5.12	3.33	1.40	5.02	3.29	1.45	4.88	3.22	1.52	4.65	3.11	1.63
19.0	27	5.70	3.70	1.18	5.47	3.59	1.30	5.23	3.48	1.41	5.14	3.44	1.45	5.00	3.38	1.52	4.77	3.27	1.63
22.0	30	6.04	3.55	1.19	5.81	3.45	1.31	5.58	3.36	1.42	5.49	3.32	1.46	5.35	3.26	1.53	5.11	3.17	1.64
24.0	32	6.27	3.44	1.20	6.04	3.35	1.31	5.81	3.26	1.42	5.72	3.23	1.47	5.58	3.18	1.54	5.34	3.09	1.65

AFR	12.2

Heating **50Hz 220-240V**

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	1.34	4.56	1.40	5.21	1.47	6.00	1.54	6.52	1.60
20.0	3.70	1.37	4.36	1.44	5.01	1.50	5.80	1.58	6.32	1.63
22.0	3.62	1.39	4.28	1.45	4.93	1.52	5.72	1.59	6.24	1.65
24.0	3.54	1.40	4.20	1.47	4.85	1.53	5.64	1.61	6.16	1.66
25.0	3.50	1.41	4.16	1.47	4.81	1.54	5.60	1.62	6.12	1.67
27.0	3.42	1.42	4.08	1.49	4.73	1.55	5.52	1.63	6.04	1.68

3D072101B

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)

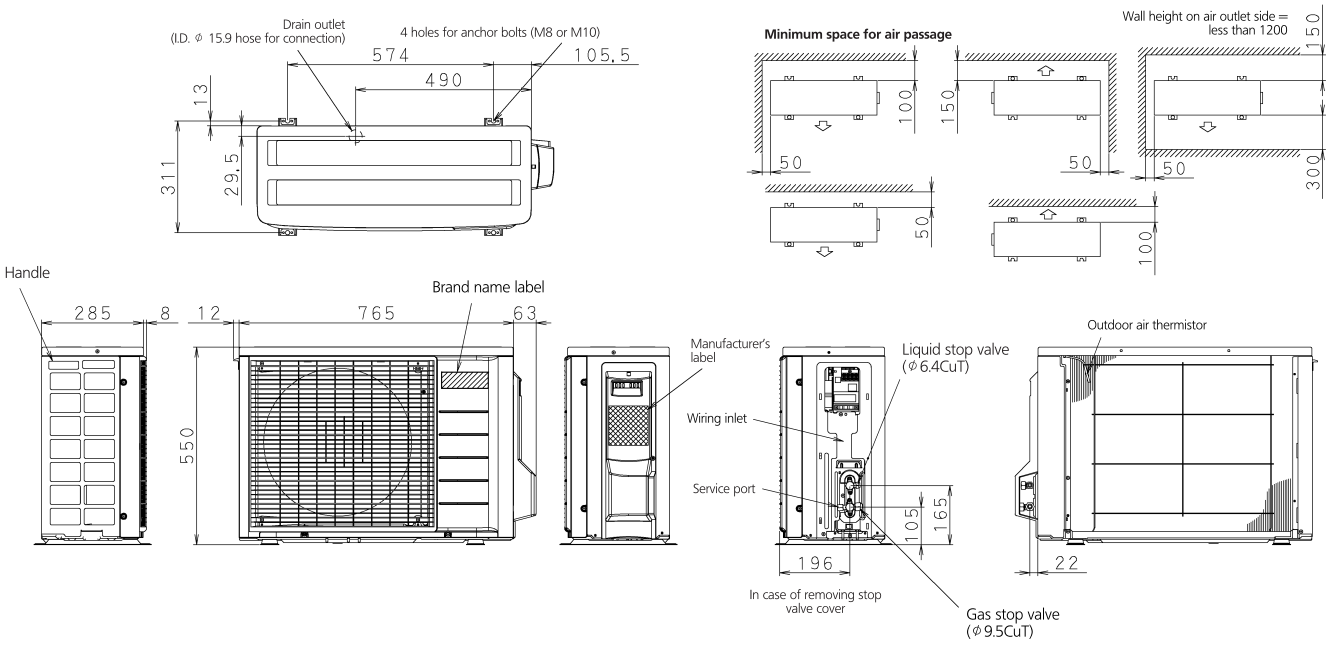
NOTES

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 the following conditions:
   Corresponding refrigerant piping length : 5m
   Level difference : 0m
6. Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

6 Dimensional drawings

6 - 1 Dimensional Drawings

RXG25-35K



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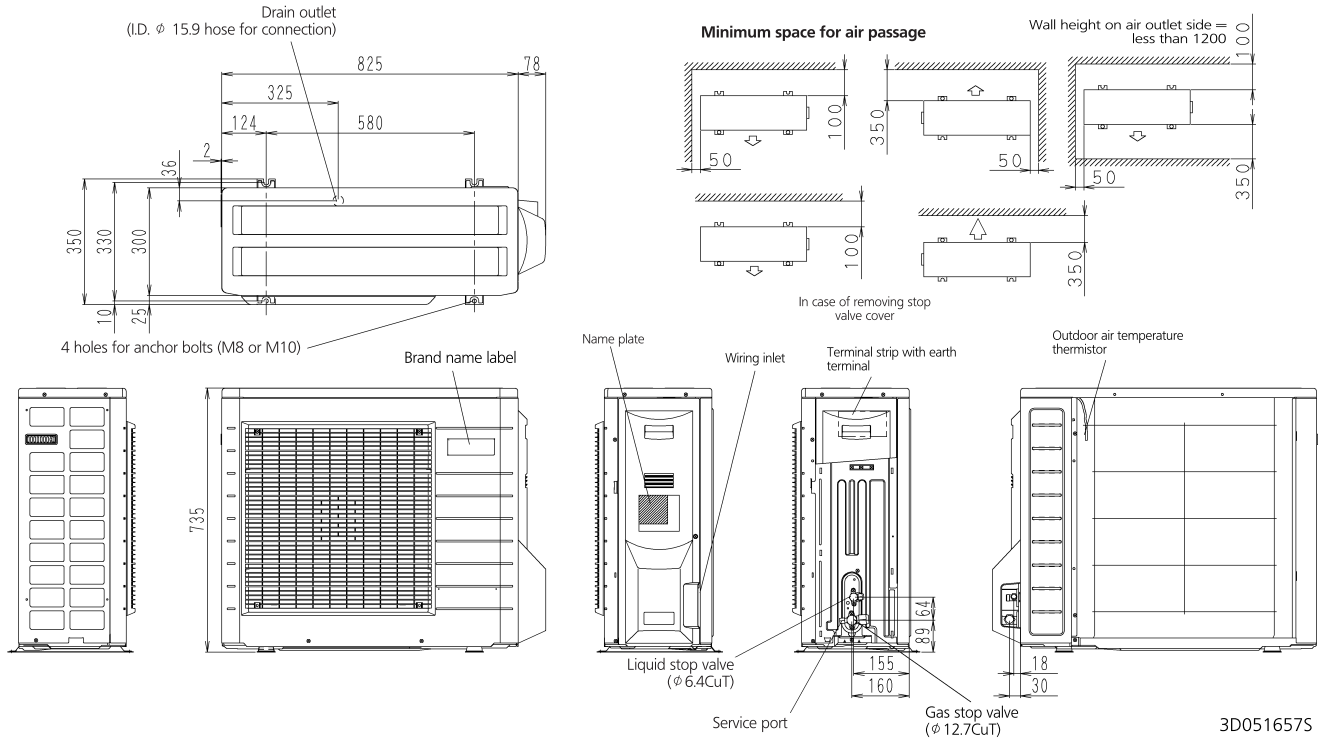
RXG50K

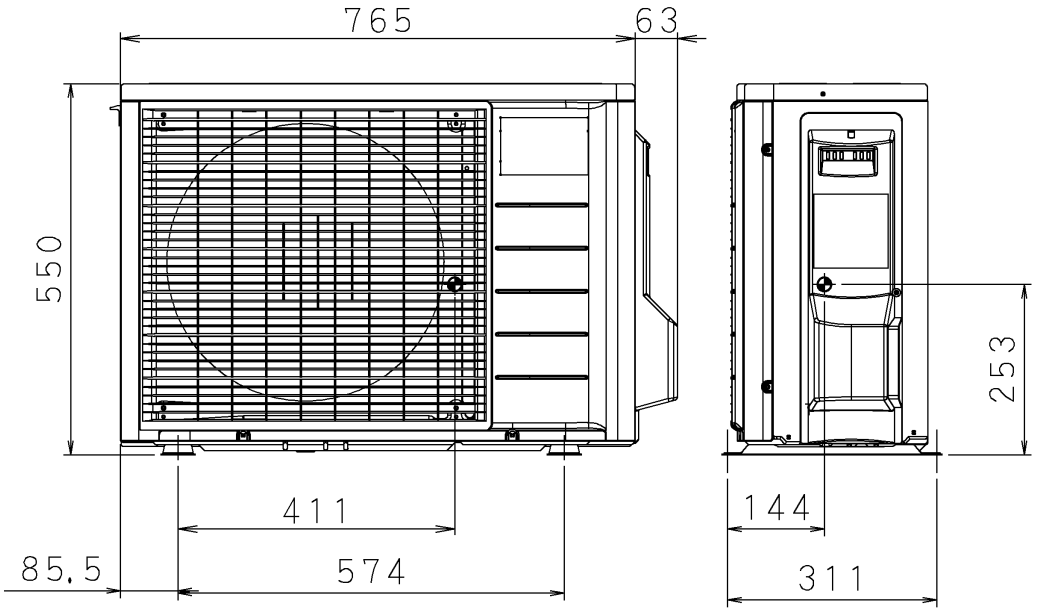


3D051657S

7 Centre of gravity

7 - 1 Centre of Gravity

RXG25-35K



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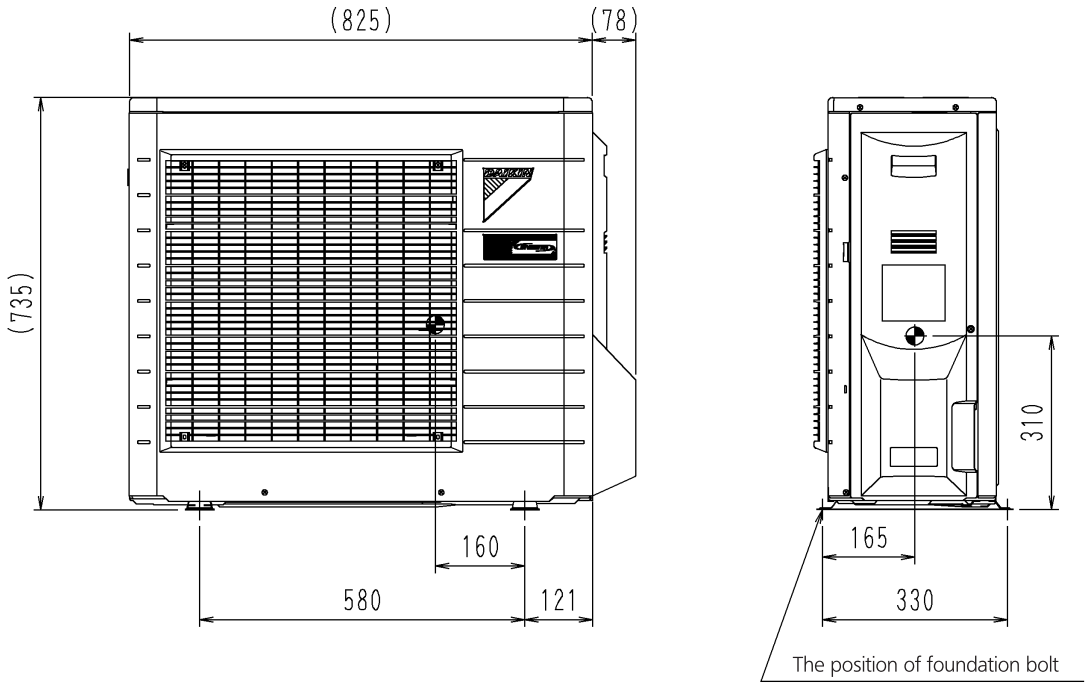
RXG50K



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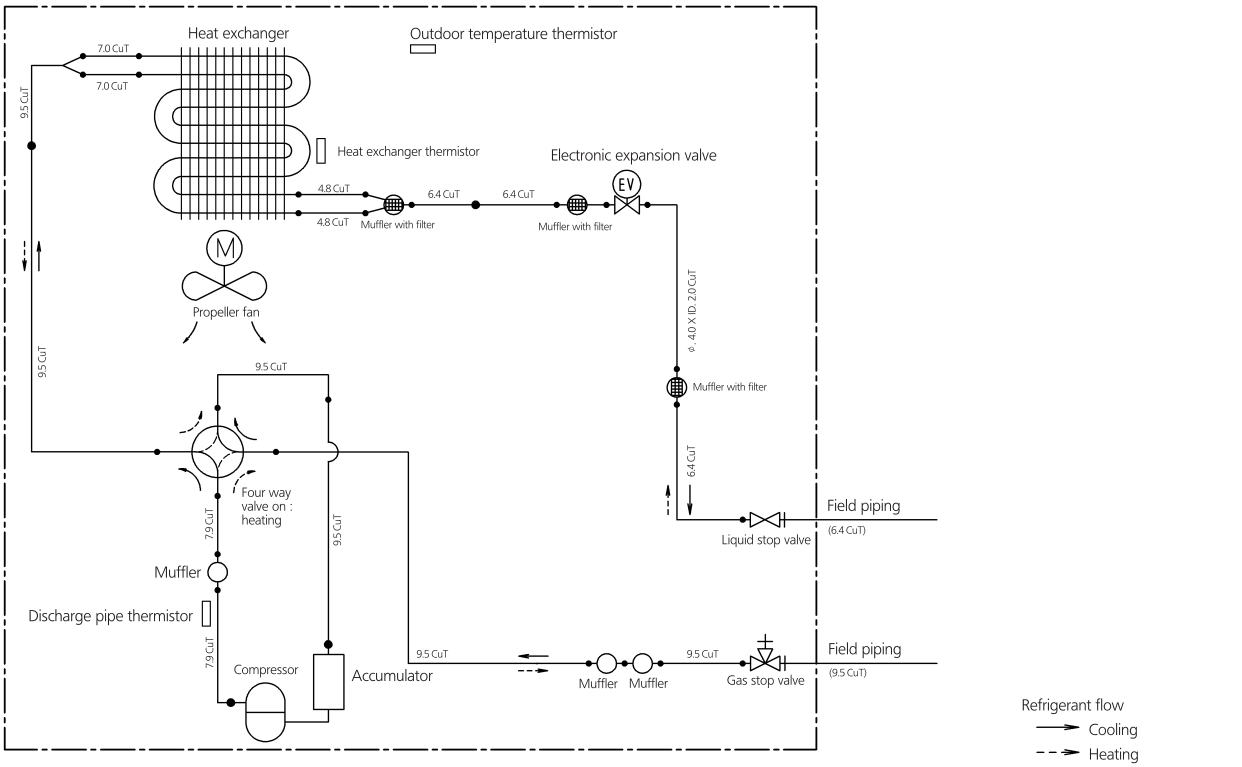
8 Piping diagrams

8 - 1 Piping Diagrams

RXG25-35K



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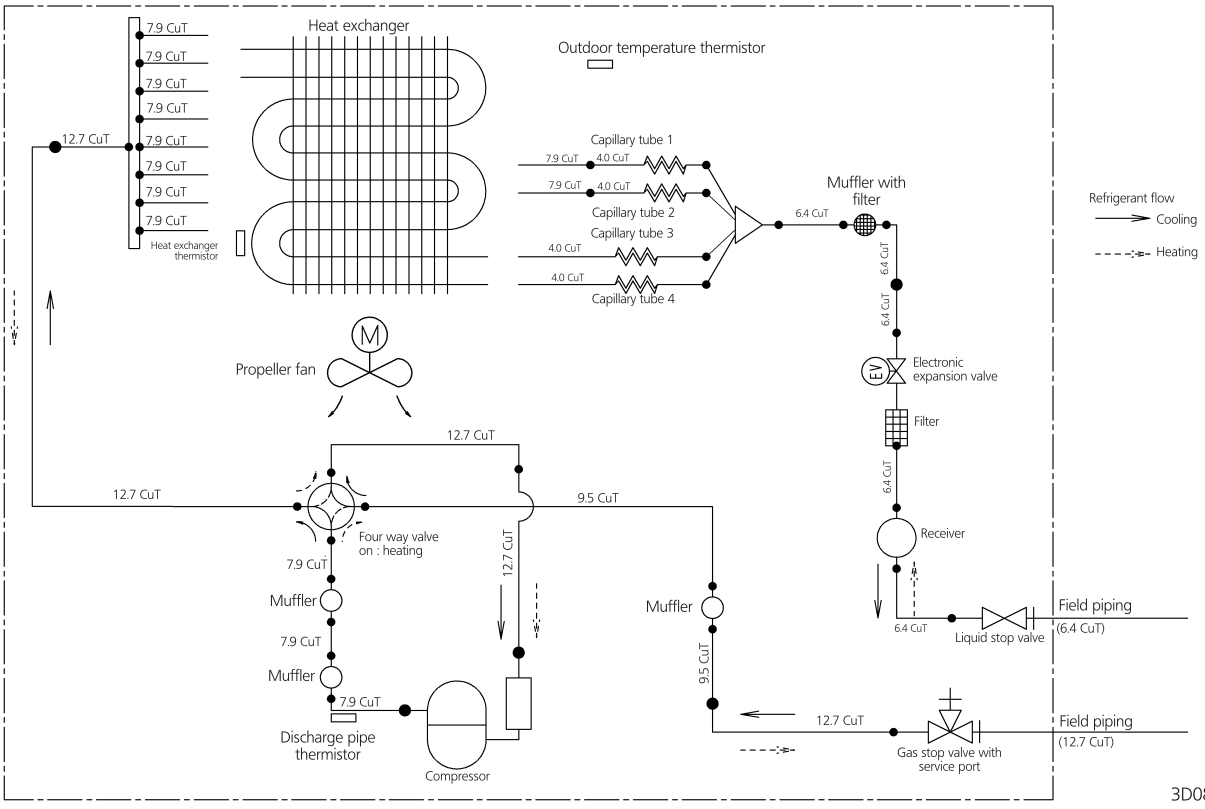

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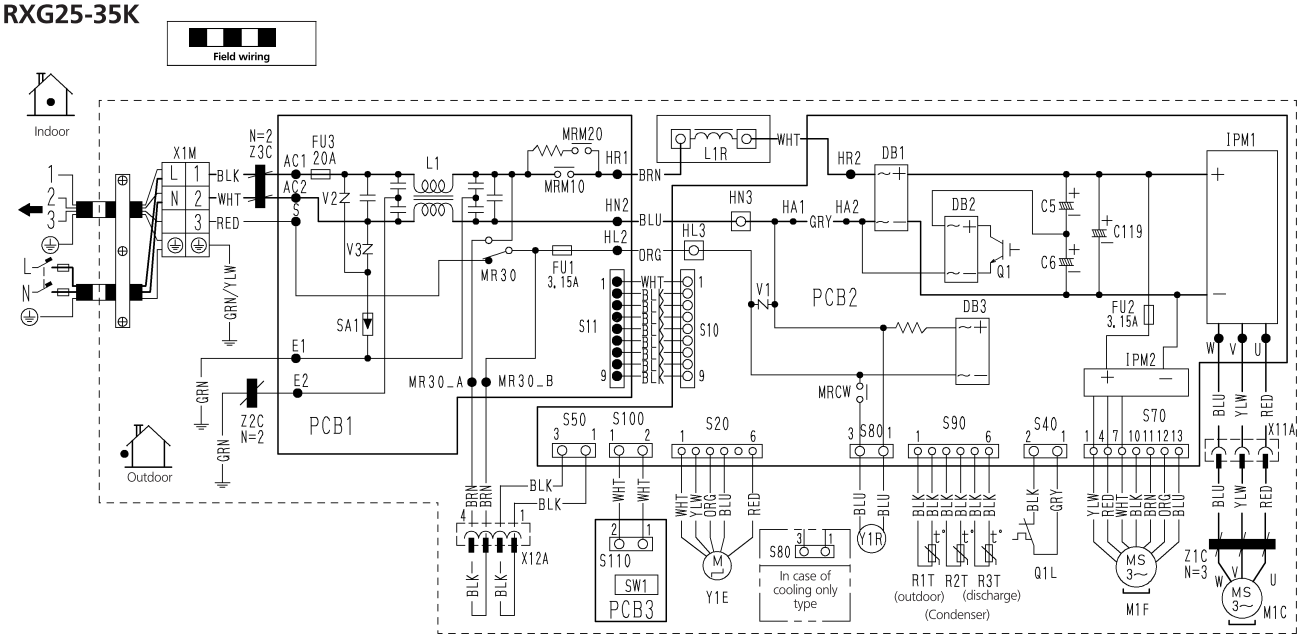
9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

RXG25-35K



Notes)
1. Size: Length 105 X Width 185.
2. Refer to purchasing specification AS(Y)303002, unless otherwise specified.
3. This drawing was drawn on CAD system.
4. Refer to the nameplate for the power requirements.

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

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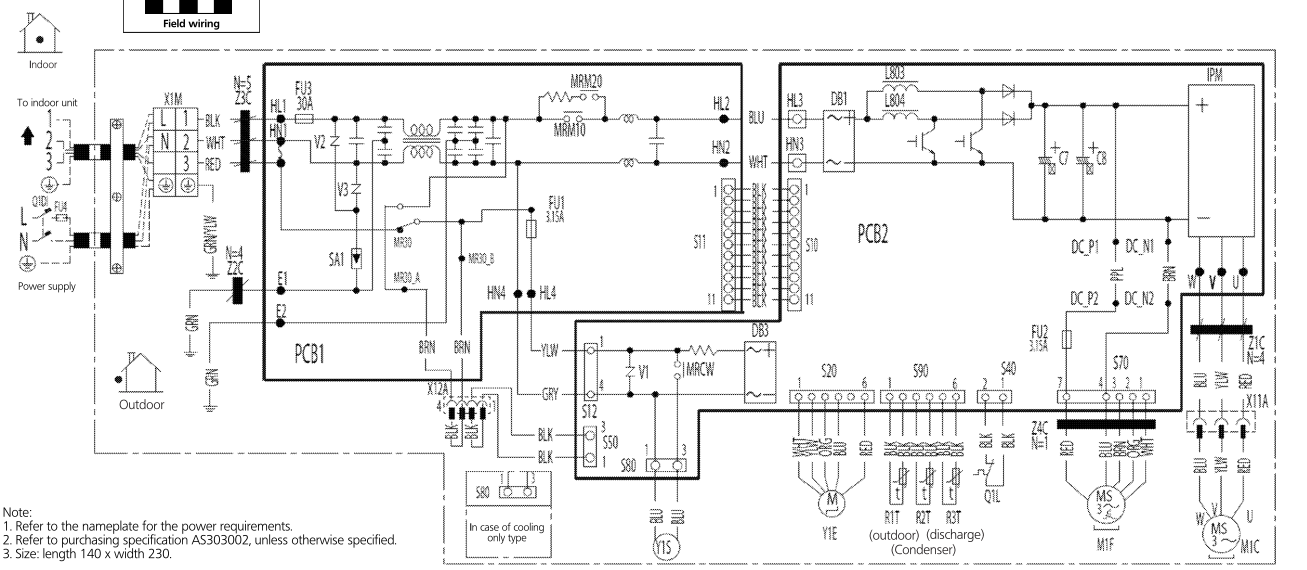
RXG50K



Note:
1. Refer to the nameplate for the power requirements.
2. Refer to purchasing specification AS303002, unless otherwise specified.
3. Size: length 140 x width 230.

C7,C8	: Capacitor	N	: Neutral		
DB1,DB3	: Diode bridge	Q1L	: Overload protector		
FU1,FU2,FU3	: Fuse	Q1DI	: Earth leak detector	V1,V2,V3	: Varistor
FU4	: Field fuse	PCB1,PCB2	: Printed circuit board	X1M	: Terminal strip
IPM	: Intelligent power module	S10,S11,S12,S20		Y1E	: Electronic expansion valve coil
L	: Live	S40,S50,S70,S80,S90		Y1S	: Reversing solenoide valve coil
L803,L804	: Reactor	HL3,HN3,X11A,X12A	: Connector	Z1C,Z2C,Z3C,Z4C	: Ferrite core
M1C	: Compressor motor	R1T,R2T,R3T	: Thermistor	⏚	: Protective earth
M1F	: Fan motor	SA1	: Surge absorber	⏚	: Earth
MRCW,MRM10, MRM20,MR30, MR30_A,MR30_B	: Magnetic relay				

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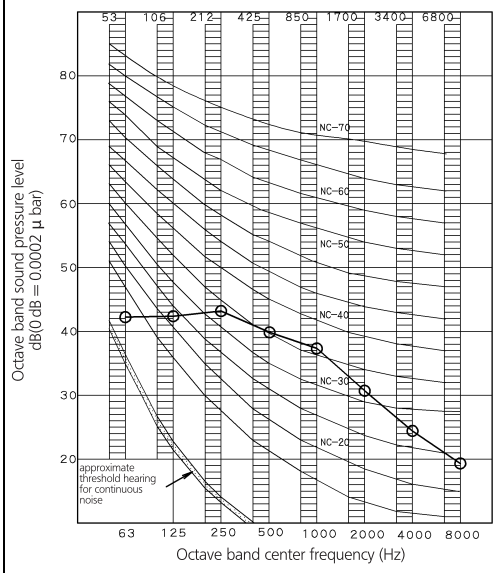
10 Sound data

10 - 1 Sound Pressure Spectrum - Cooling

RXG25K Cooling



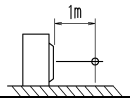
NOTES

1 Overall (dB)

Scale	50Hz 220–240V (H)
A	46

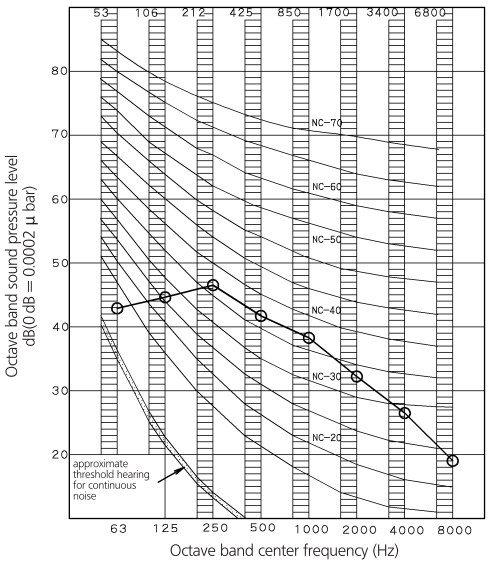
(B,G,N is already rectified)

2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions:
Power source 220–240V 50Hz
○—○ Cooling
5 Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D059599G

RXG35K Cooling



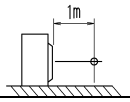
NOTES

1 Overall (dB)

Scale	50Hz 220–240V (H)
A	48

(B,G,N is already rectified)

2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions:
Power source 220–240V 50Hz
○—○ Cooling
5 Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612

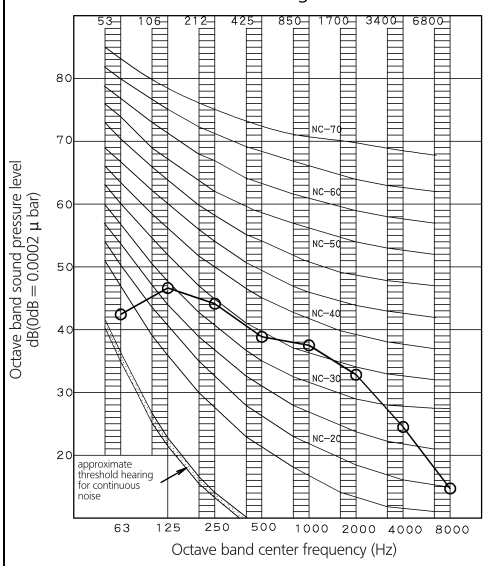


3D059593G

10 Sound data

10 - 1 Sound Pressure Spectrum - Cooling

RXG50K Cooling



Overall (dB)

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

(B,G,N is already rectified)

Measuring place

Measure in anechoic room

Operating conditions

Power source 220~240V 50Hz

50Hz 220~240V

Cooling

Location of microphone

The operation noise measuring method is in accordance with JISC9612

NOTE: Operation noise differs with operation and ambient conditions.

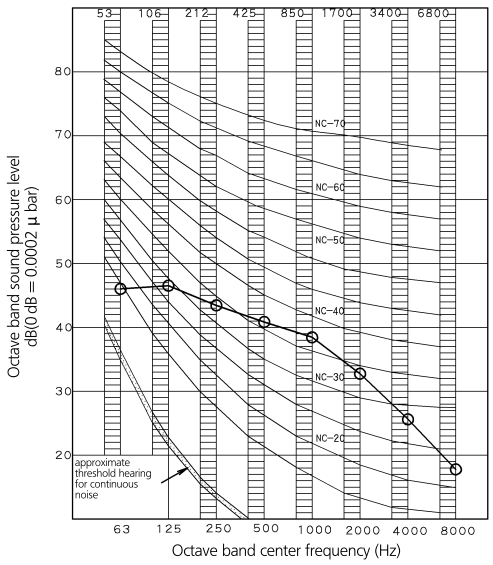
3D059740F

10 Sound data

10 - 2 Sound Pressure Spectrum - Heating

RXG25K

Heating



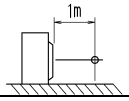
NOTES

1 Overall (dB)

Scale	50Hz 220–240V (H)
A	47

(B,G,N is already rectified)

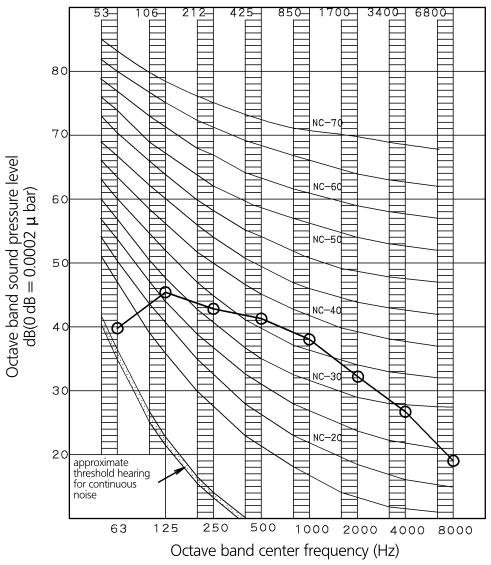
2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions:
Power source 220–240V 50Hz
O—O Heating
5 Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D059599G

RXG35K

Heating



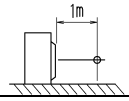
NOTES

1 Overall (dB)

Scale	50Hz 220–240V (H)
A	48

(B,G,N is already rectified)

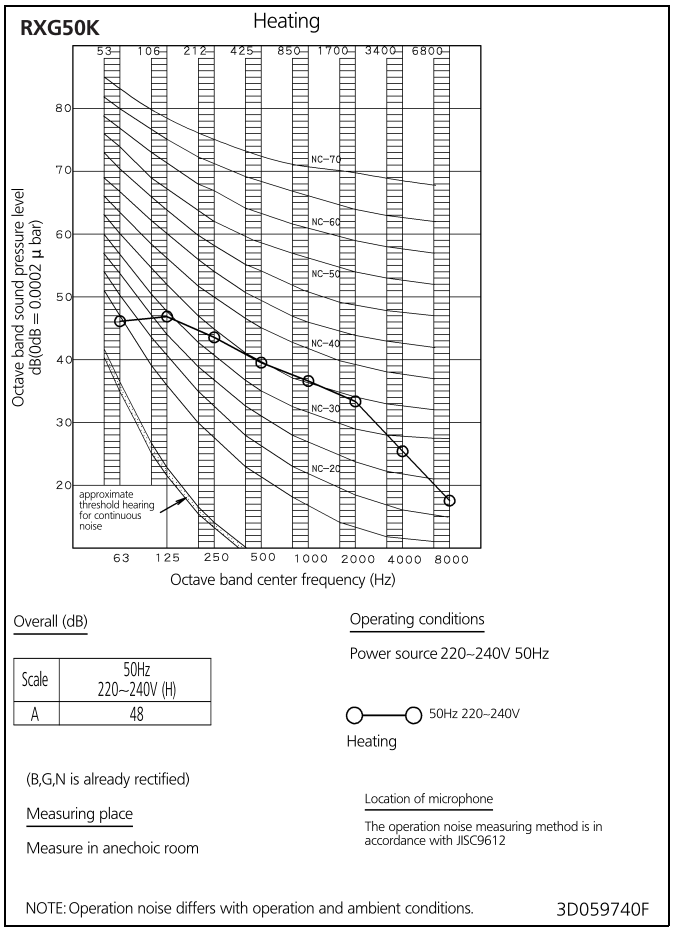
2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions:
Power source 220–240V 50Hz
O—O Heating
5 Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D059593G

10 Sound data

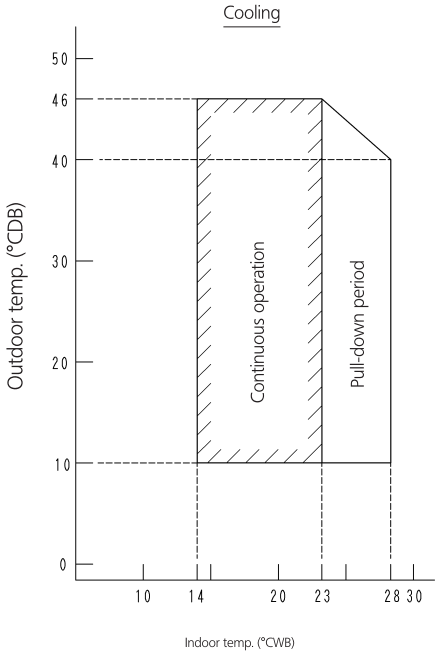
10 - 2 Sound Pressure Spectrum - Heating

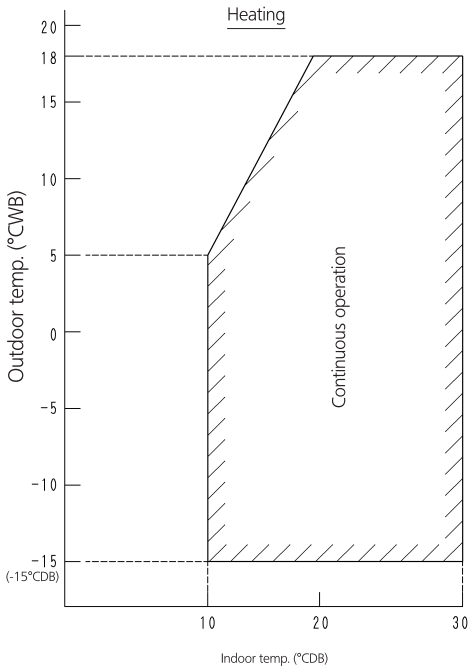


11 Operation range

11 - 1 Operation Range

RXG-K





Notes:

1: The graphs are based on the following conditions:

- Equivalent piping length — 5.0 m
- Level difference — 0 m
- Air flow rate — high

2: Operation range (cooling) in combination with FTXG-JA and FTXG-JW: Min. -10°C~Max. 46°C

3D072093B

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