



Air Conditioners

Technical Data

Outdoor Unit



EEDEN12-100

RX-GV

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RX-GV

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1 Features

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



2 Specifications

2-1 Nominal Capacity And Nominal Input				FTX50GV/RX50GV		FTX60GV/RX60GV		FTX71GV/RX71GV	
Cooling capacity	Min.		kW	1.7				2.3	
			Btu/h	5,800				7,800	
			kcal/h	1,460				1,980	
	Nom.		kW	5.0 (3)		6.0 (3)		7.1 (3)	
			Btu/h	17,100 (3)		20,500 (3)		24,200 (3)	
			kcal/h	4,300 (3)		5,160 (3)		6,110 (3)	
	Max.		kW	6.0		6.7		8.5	
			Btu/h	20,500		22,900		29,000	
			kcal/h	5,160		5,760		7,310	
Heating capacity	Min.		kW	1.7				2.3	
			Btu/h	5,800				7,800	
			kcal/h	1,460				1,980	
	Nom.		kW	5.8 (4)		7.0 (4)		8.2 (4)	
			Btu/h	19,800 (4)		23,900 (4)		28,000 (4)	
			kcal/h	4,990 (4)		6,020 (4)		7,050 (4)	
	Max.		kW	7.7		8.0		10.2	
			Btu/h	26,300		27,300		34,800	
			kcal/h	6,620		6,880		8,770	
Power input	Cooling	Min.	kW	0.44				0.57	
		Nom.	kW	1.55		1.99		2.35	
		Max.	kW	2.08		2.40		3.20	
	Heating	Min.	kW	0.40				0.52	
		Nom.	kW	1.60		2.04		2.55	
		Max.	kW	2.53		2.81		3.82	
EER				3.23		3.02			
COP				3.63		3.43		3.22	
Annual energy consumption			kWh	775		995		1,175	
Energy label	Cooling			A		B			
	Heating			A		B		C	
Piping connections	Liquid	OD	mm	6.35					
	Gas	OD	mm	12.7				15.9	
	Drain	OD	mm	18.0					
	Heat insulation			Both liquid and gas pipes					

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m (horizontal)
- (4) Heating: indoor temp. 20°CDB, outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m. High fan speed indoor unit

2-2 Technical Specifications				RX50GV	RX60GV	RX71GV
Casing	Colour			Ivory white		
Dimensions	Unit	Height	mm	735		770
		Width	mm	825		900
		Depth	mm	300		320
	Packed unit	Height	mm	797		900
		Width	mm	960		925
		Depth	mm	390		
Weight	Unit		kg	48		71
	Packed unit		kg	53		79
Heat exchanger	Length		mm	845		857
	Rows	Quantity		2		
	Fin pitch		mm	1.8		1.4
	Stages	Quantity		32		34
	Tube type			ø8 Hi-XA		
	Fin	Type		Waffle louvered fin		
		Treatment		Anti-corrosion treatment (PE)		

2 Specifications

2-2 Technical Specifications					RX50GV		RX60GV		RX71GV	
Fan	Type				Propeller fan					
	Air flow rate	Cooling	High	m³/min	48.9		50.9		54.5	
				cfm	1,727		1,797		1,924	
			Low	m³/min	41.7		42.4		46.0	
				cfm	1,472		1,497		1,624	
			Super low	m³/min	-					
				cfm	-					
		Heating	High	m³/min	45.0		46.3		46.0	
				cfm	1,589		1,635		1,624	
			Low	m³/min	41.7		42.4		46.0	
				cfm	1,472		1,497		1,624	
			Super low	m³/min	-					
				cfm	-					
Fan motor	Model				KFD-380-50-8C				KFD-280-66-8A	
	Output			W	53.00				66.00	
	Speed	Cooling	High	rpm	780		810		860	
			Low	rpm	670		680		730	
			Super low	rpm	-					
		Heating	High	rpm	720		740		730	
			Low	rpm	670		680		730	
			Super low	rpm	-					
Sound power level	Cooling	Nom.		dBA	-				66	
		High		dBA	61		63		-	
Sound pressure level	Cooling	High		dBA	47		49		52	
		Low		dBA	44		46		49	
	Heating	High		dBA	48		49		52	
		Low		dBA	45		46		49	
Compressor	Model				2YC36BXD#C				2YC63BXD#A	
	Type				Hermetically sealed swing compressor					
	Output			W	1,100				1,920	
Operation range	Cooling	Ambient	Min.	°CDB	-10					
			Max.	°CDB	46					
	Heating	Ambient	Min.	°CWB	-15					
			Max.	°CWB	18					
Refrigerant	Type				R-410A					
	Charge			kg	1.5				2.3	
Refrigerant oil	Type				FVC50K					
	Charged volume			l	0.65				0.75	
Piping connections	Drain	ID		mm	-					
	Piping length	OU - IU	Max.	m	30					
		System	Chargeless	m	10					
	Level difference	IU - OU	Max.	m	20					

2-3 Electrical Specifications					RX50GV	RX60GV	RX71GV
Power supply	Name				V1		
	Phase				1~		
	Frequency				50		
	Voltage				220-240		
Current	Nominal running current (RLA)	Cooling		A	7.04 (2) / 6.75 (3) / 6.45 (4)	9.01 (2) / 8.62 (3) / 8.23 (4)	10.59 (2) / 10.20 (3) / 9.71 (4)
		Heating		A	7.23 (2) / 6.94 (3) / 6.64 (4)	9.19 (2) / 8.80 (3) / 8.41 (4)	11.42 (2) / 10.93 (3) / 10.44 (4)
	Starting current	Cooling		A	7.4	9.4	-
		Heating		A	7.4	9.4	-
Wiring connections	For power supply	Quantity			3		
	For connection with indoor	Quantity			4		
		Remark			Earth wire included		

Notes

- (1) SL: The silent fan level of the air flow rate setting
 (2) 220V
 (3) 230V
 (4) 240V

3 Electrical data

3 - 1 Electrical Data

RX50-60GV RX71GV

Representative unit combination		Power supply				Comp		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTX71GV1B	RX71GV1B	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				
FTX50GV1B	RX50G2V1B	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				
FTX60GV1B	RX60G2V1B	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				

SYMBOLS

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

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

FTX50GV1B+RX50G2V1B

Cooling 50Hz 220-240V

AFR	14.7
BF	0.28

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	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
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Indoor		Outdoor temperature (°C WB)									
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

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

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- shows nominal (rated) capacities and power input.
- 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.)
- About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
- Capacities are based on the following conditions.
Corresponding refrigerant piping length : 7.5m
Level difference : 0m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX60GV1B+RX60G2V1B

Cooling 50Hz 220-240V

AFR	16.2
BF	0.29

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	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
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Indoor		Outdoor temperature (°C WB)									
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

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

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- shows nominal (rated) capacities and power input.
- 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.)
- About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
- Capacities are based on the following conditions.
 - Corresponding refrigerant piping length : 7.5m
 - Level difference : 0m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX71GV+RX71GV

Cooling

50Hz 220-240V

AFR	17.4
BF	0.17

Indoor		Outdoor temperature (°CDB)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	7.03	4.95	1.78	6.94	4.90	1.98	6.61	4.73	2.15	6.48	4.66	2.22	6.28	4.56	2.32	5.95	4.39	2.50
16.0	22	7.60	4.99	1.81	7.27	4.83	1.99	6.94	4.66	2.16	6.81	4.60	2.23	6.61	4.50	2.33	6.28	4.34	2.51
18.0	25	7.93	5.17	1.82	7.60	5.02	2.00	7.27	4.87	2.17	7.13	4.80	2.24	6.94	4.71	2.34	6.61	4.57	2.52
19.0	27	8.09	5.41	1.83	7.76	5.26	2.00	7.43	5.11	2.18	7.30	5.05	2.25	7.10	4.96	2.35	6.77	4.82	2.52
22.0	30	8.58	5.20	1.84	8.25	5.06	2.02	7.92	4.93	2.19	7.79	4.88	2.26	7.59	4.80	2.37	7.26	4.67	2.54
24.0	32	8.91	5.04	1.85	8.58	4.92	2.03	8.25	4.80	2.20	8.12	4.75	2.27	7.92	4.68	2.38	7.59	4.56	2.55

Heating

50Hz 220-240V

AFR	19.7
-----	------

Indoor		Outdoor temperature (°CWB)									
EDB (°C)		-10		-5		0		6		10	
		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

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SYMBOLS

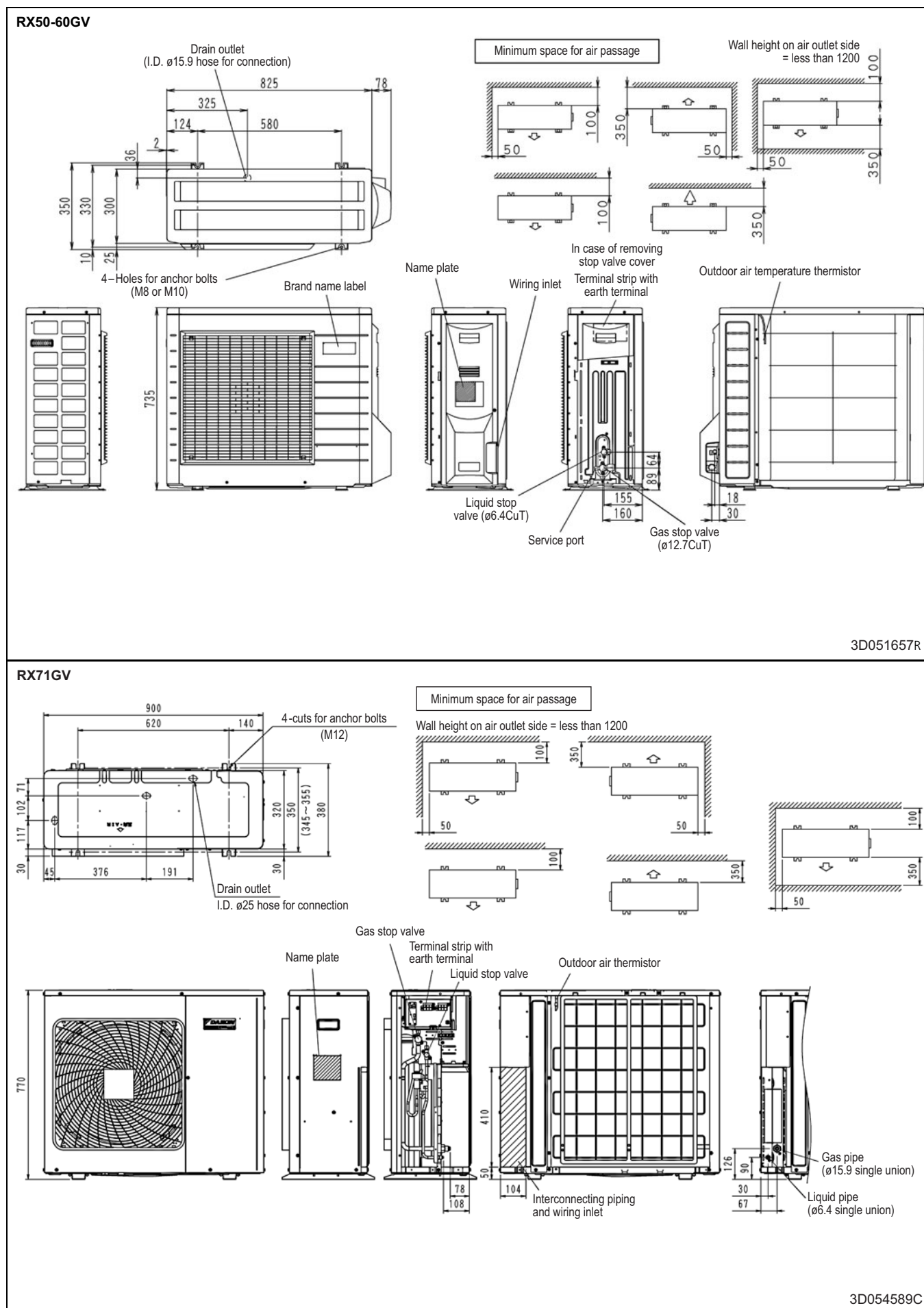
AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heat capacity	(kW)
PI:	Power input	(kW)

NOTES

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

5 Dimensional drawings

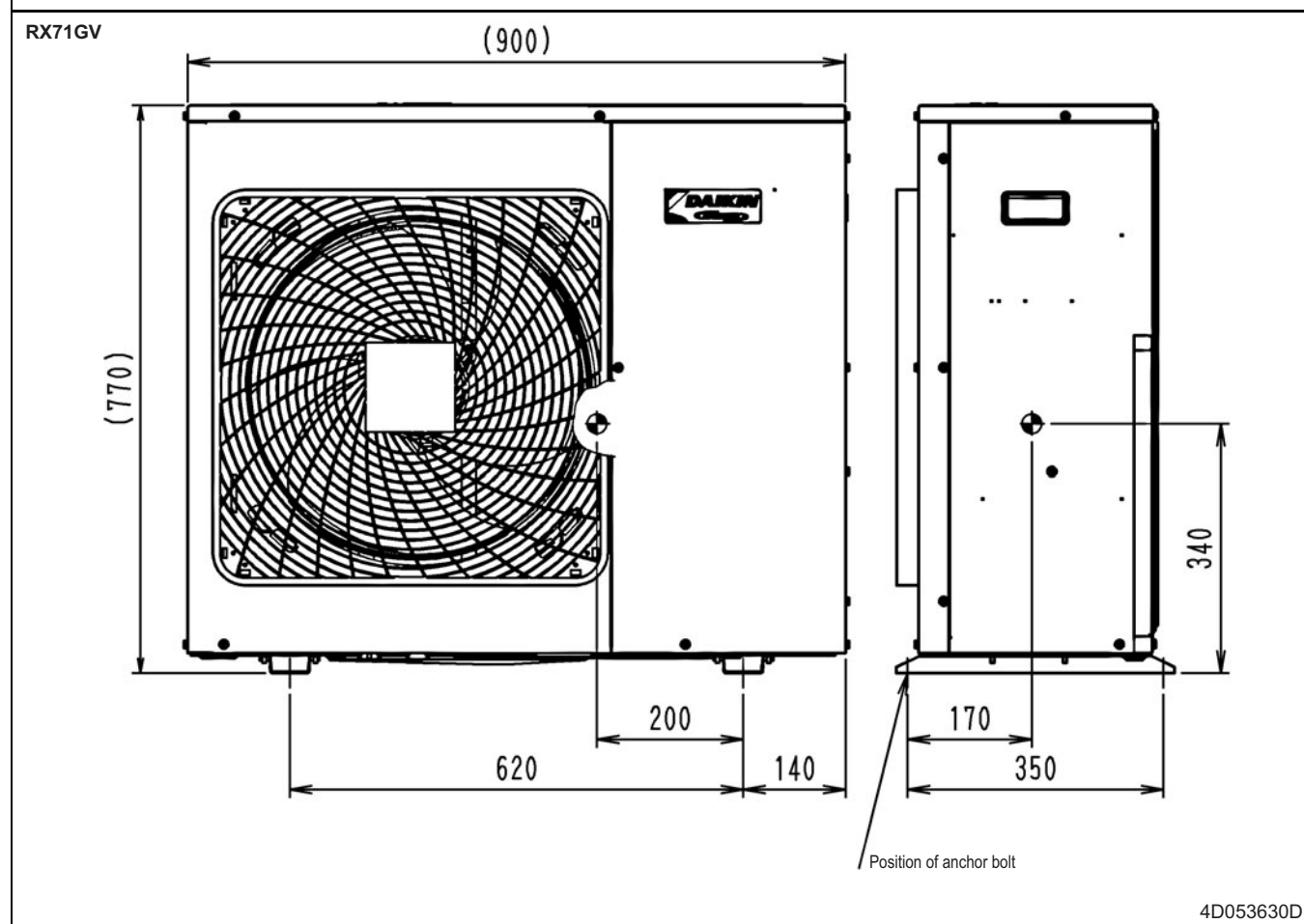
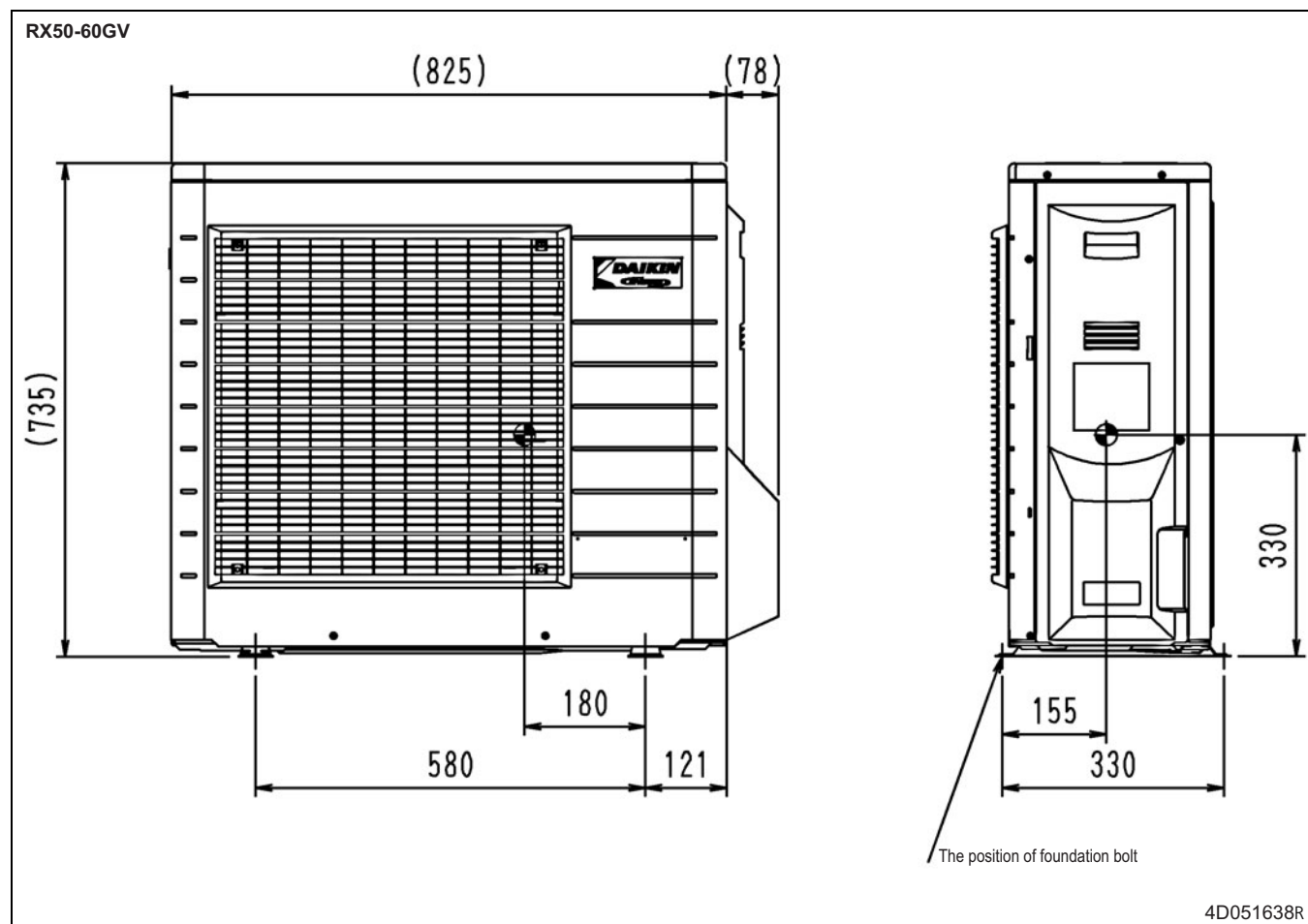
5 - 1 Dimensional Drawings



6 Centre of gravity

6 - 1 Centre of Gravity

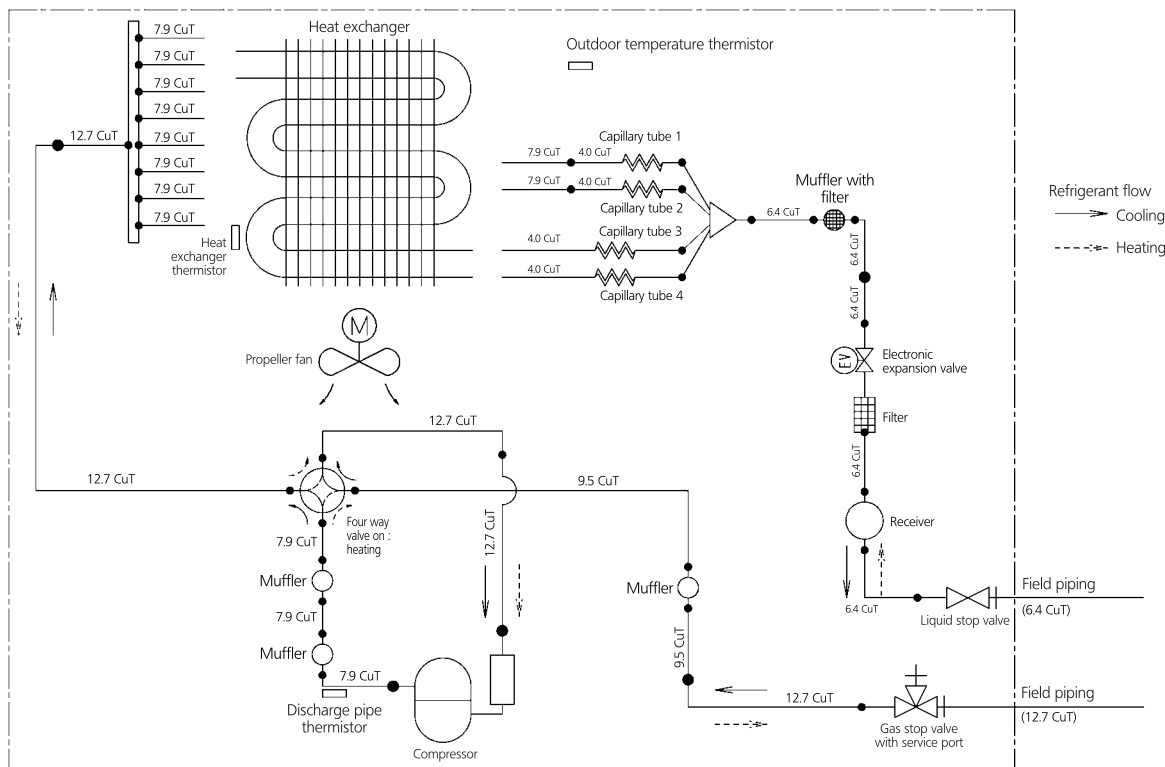
6



7 Piping diagrams

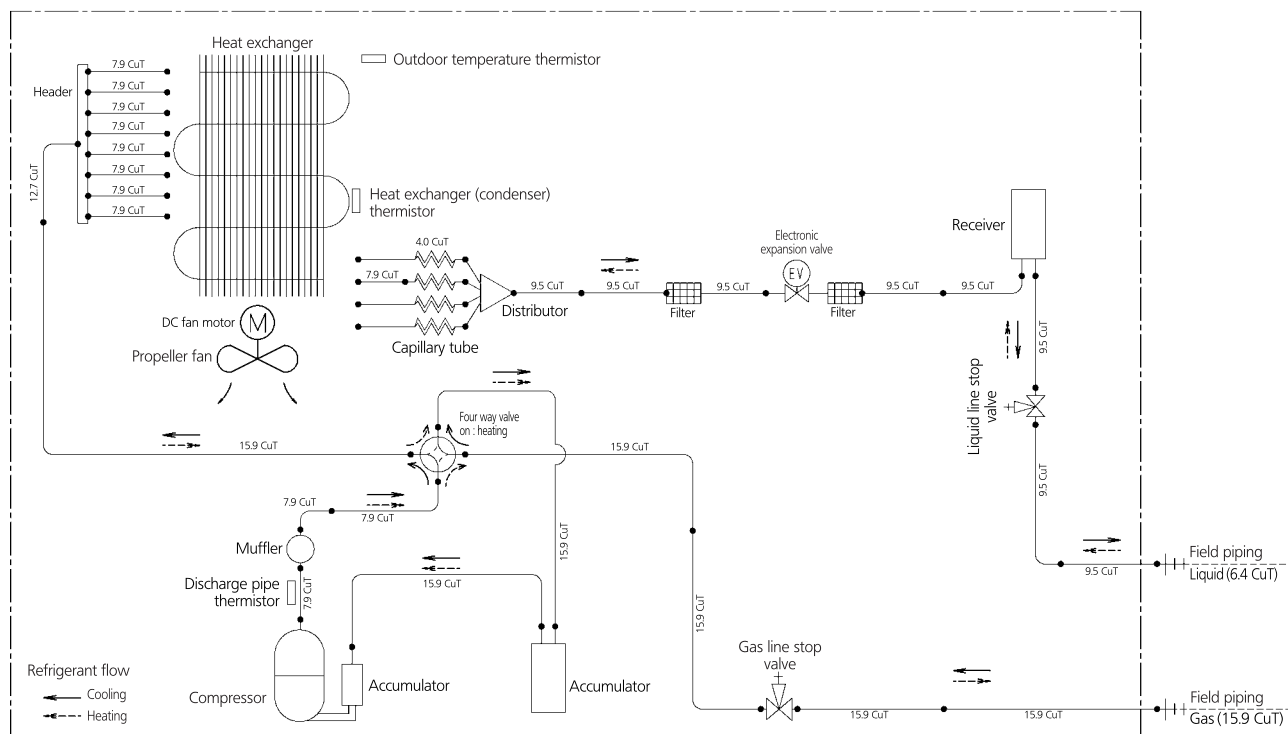
7 - 1 Piping Diagrams

RX50-60GV



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RX71GV

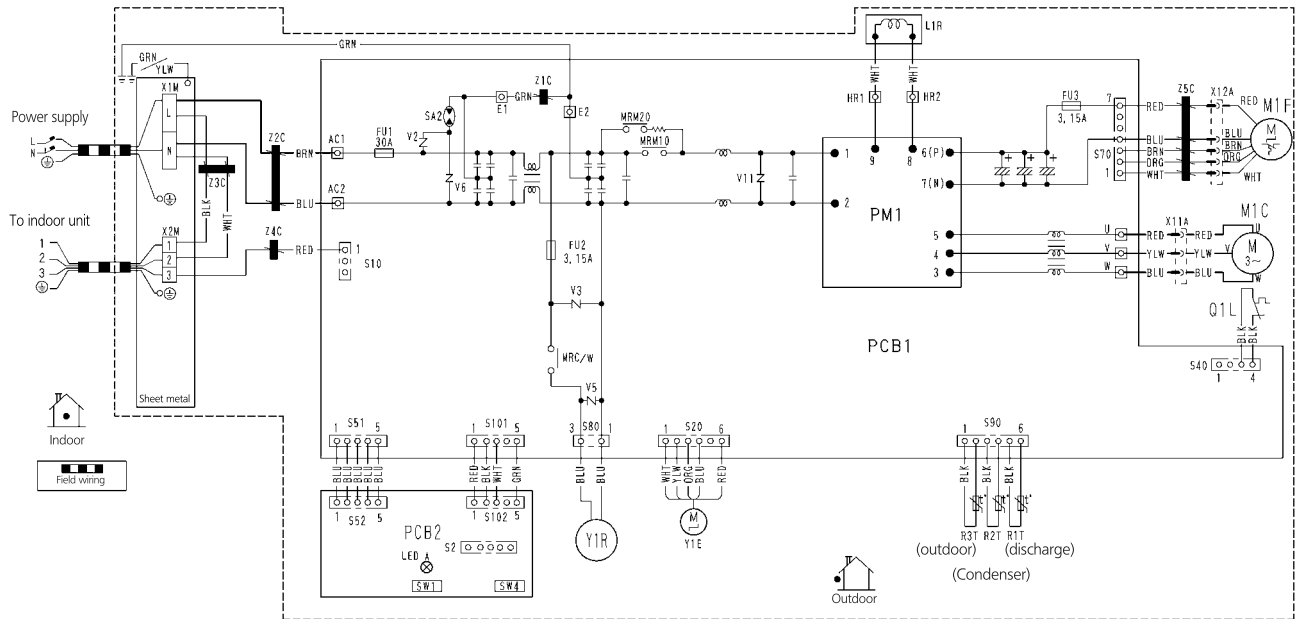


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Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

RX50GV



Z1C~Z5C : Ferrite core
X1M,X2M : Terminal strip
Y1E : Electronic expansion valve coil
V2,V3,V5,V6,V11 : Varistor
SA2 : Surge arrester
FU1,FU2,FU3 : Fuse
AC1,AC2 : Connector
U,V,W,X11A, X12A,E1,E2 : Connector
HR1,HR2 : Connector
MRM10, MRM20, MRC/W : Magnetic relay

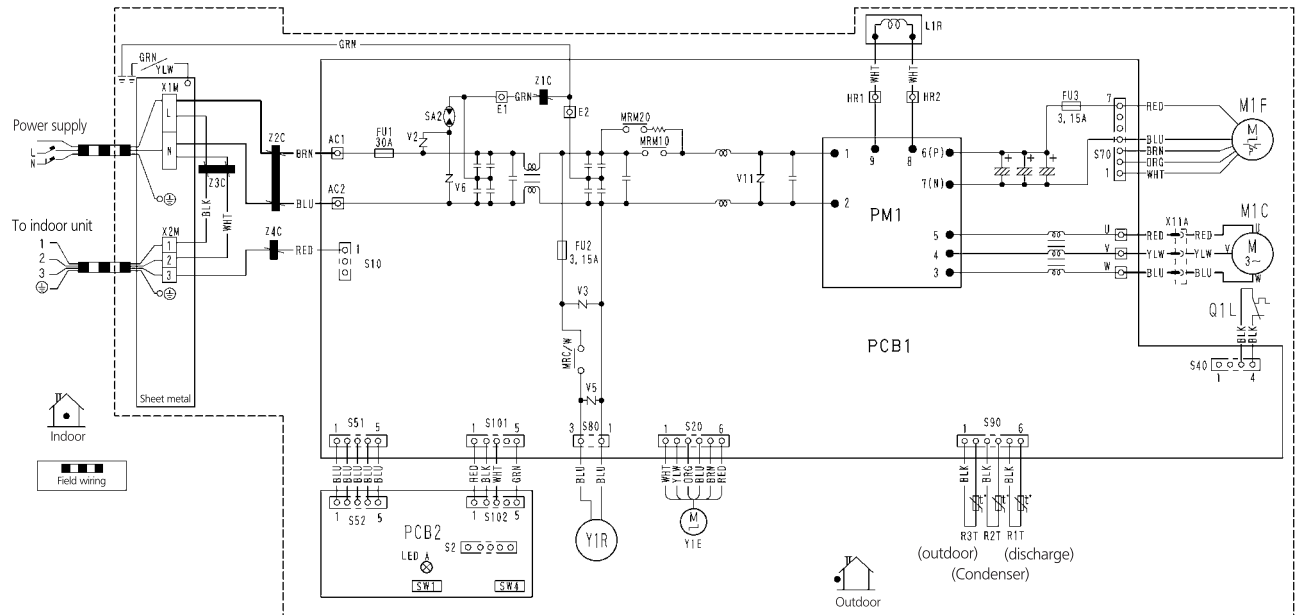
R1T~R3T : Thermistor
S2~S102 : Connector
LEDA : Pilot lamp
L : Live
N : Neutral
SW1 : Forced operation on/off SW (SW1)
SW4 : Local setting SW (SW4)

M1C : Compressor motor
M1F : Fan motor
L1R : Reactor
Q1L : Overload protector
PM1 : Power module
PCB1, 2 : Printed circuit board
Y1R : Reversing solenoid valve coil
Sheet metal : Terminal strip fixed plate

Notes
1. Refer to purchasing specification AS303002, unless otherwise specified.
2. This drawing was drawn on CAD system.
3. The electric wiring diagram label is 3P193830-1.

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RX60GV



Z1C~Z4C : Ferrite core
X1M,X2M : Terminal strip
Y1E : Electronic expansion valve coil
V2,V3,V5,V6,V11 : Varistor
SA2 : Surge arrester
FU1,FU2,FU3 : Fuse
AC1,AC2 : Connector
U,V,W,X11A, E1,E2 : Connector
HR1,HR2 : Connector
MRM10, MRM20, MRC/W : Magnetic relay

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

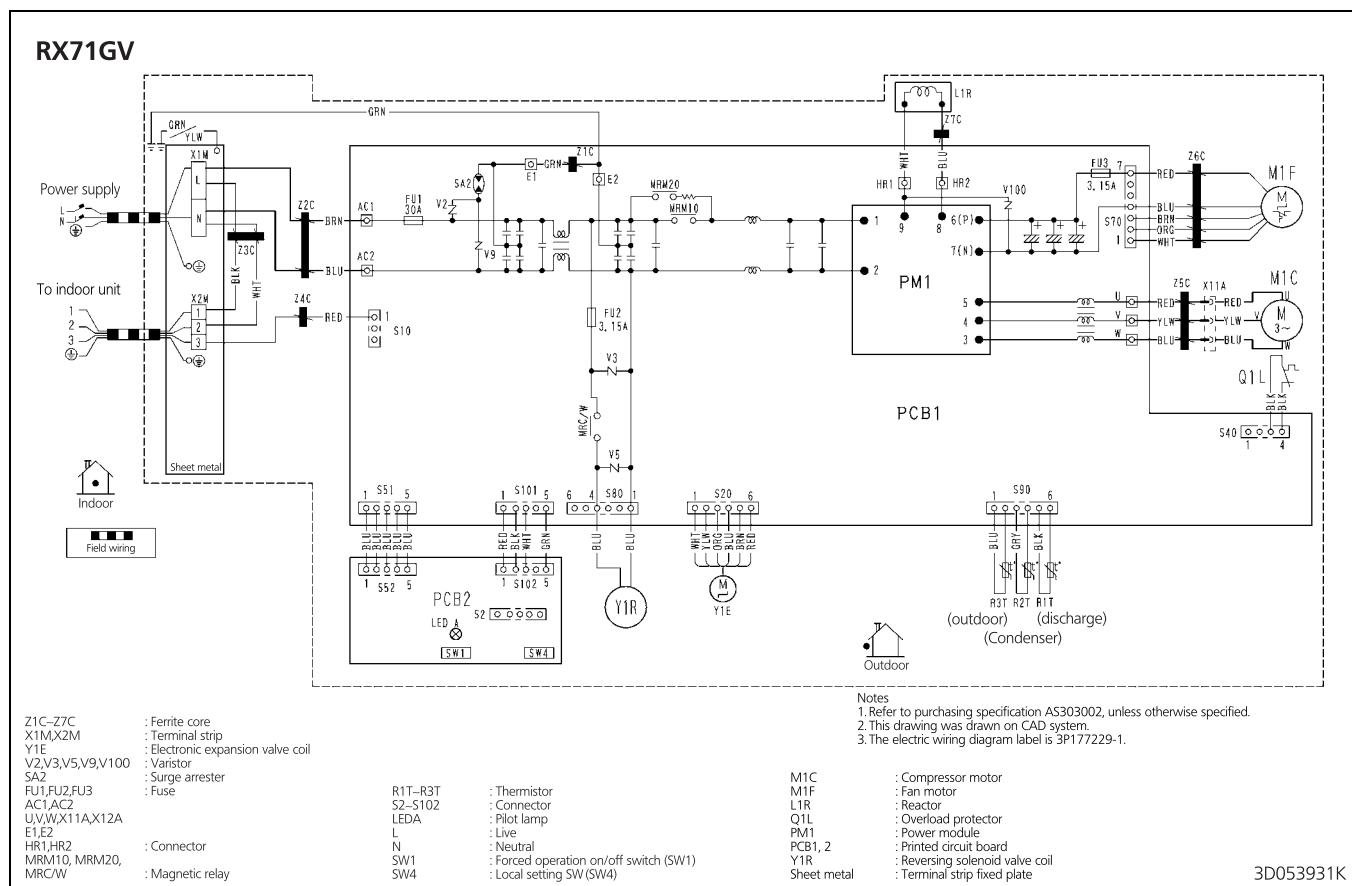
M1C : Compressor motor
M1F : Fan motor
L1R : Reactor
Q1L : Overload protector
PM1 : Power module
PCB1, 2 : Printed circuit board
Y1R : Reversing solenoid valve coil
Sheet metal : Terminal strip fixed plate

Notes
1. Refer to purchasing specification AS303002, unless otherwise specified.
2. This drawing was drawn on CAD system.
3. The electric wiring diagram label is 3P177229-1.

3D050706M

8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

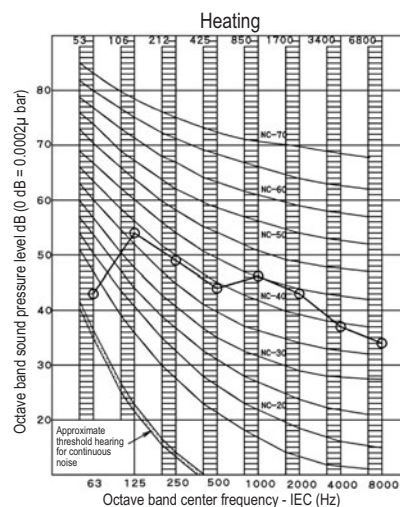
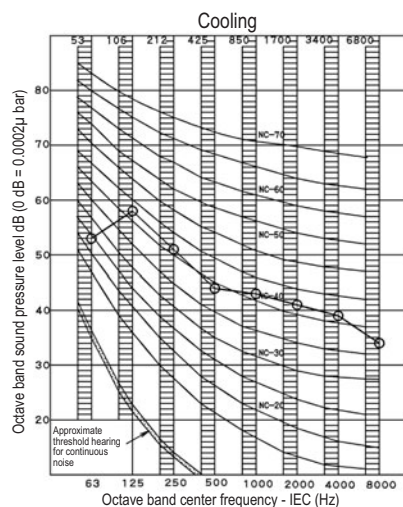


3D053931K

9 Sound data

9 - 1 Sound Pressure Spectrum

RX50G



NOTES

- Over All (dB):
(B,G,N is already rectified)
- Measuring place: measured in an echoic room.
- Operation noise differs with operation and ambient conditions.
- Location of microphone.
JIS C 9612
The operation noise measuring method is in accordance with JIS C 9612

Scale	50Hz 220~240V
A	47

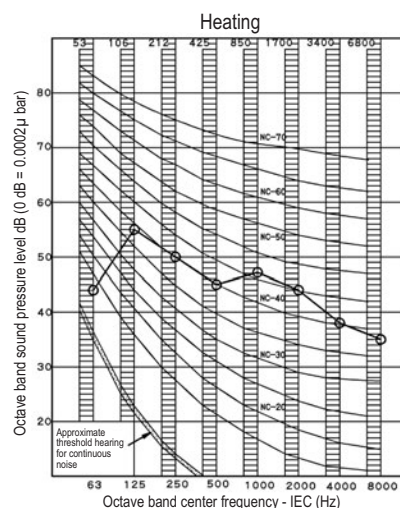
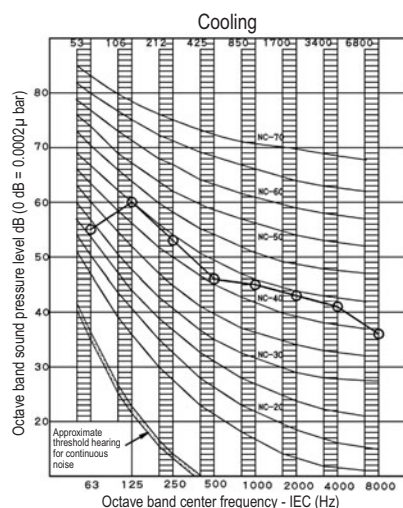
NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operation noise differs with operation and ambient conditions.

Scale	50Hz 220~240V
A	48

3D051717D

RX60G



NOTES

- Over All (dB):
(B,G,N is already rectified)
- Measuring place: measured in an echoic room.
- Operation noise differs with operation and ambient conditions.
- Location of microphone.
JIS C 9612
The operation noise measuring method is in accordance with JIS C 9612

Scale	50Hz 220~240V
A	49

NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operation noise differs with operation and ambient conditions.

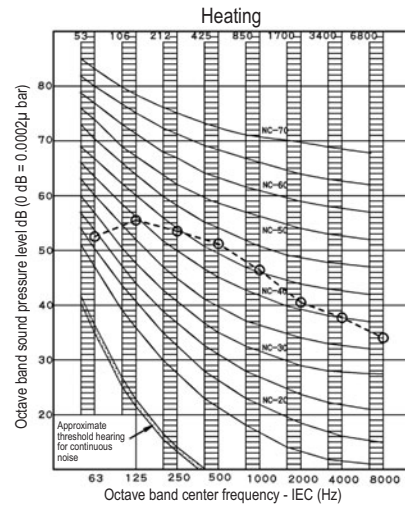
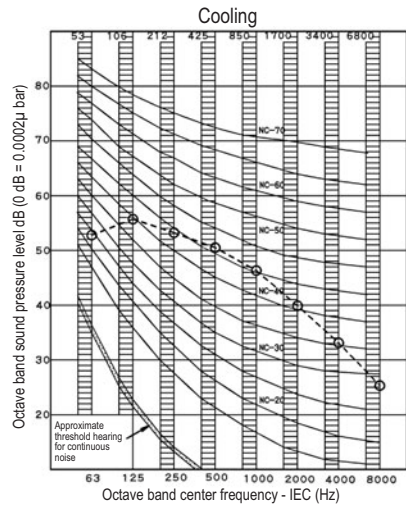
Scale	50Hz 220~240V
A	49

3D051716D

9 Sound data

9 - 1 Sound Pressure Spectrum

RX71GV



NOTES

- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measured in an 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

Scale	50Hz 220~240V
A	52

NOTES

- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Operation noise differs with operation and ambient conditions.

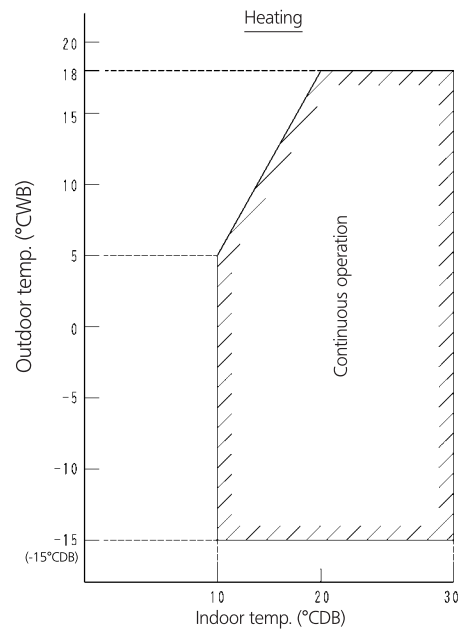
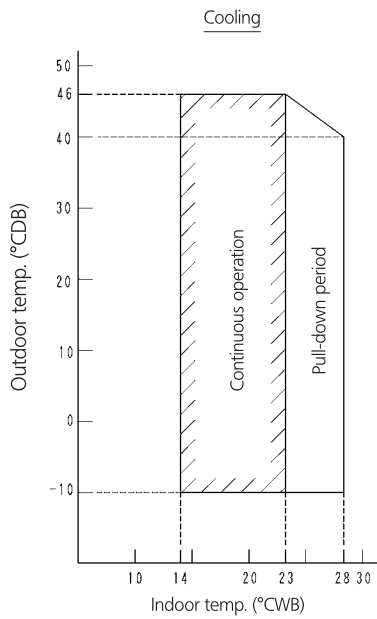
Scale	50Hz 220~240V
A	52

3D055789B

10 Operation range

10 - 1 Operation Range

RX50-71GV



Notes:

The graphs are based on the following conditions:

- Equivalent piping length 7.5 m
- Level difference 0 m
- Air flow rate high

3D028318R

In all of us,
a green heart



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