



technical data

Outdoor Units
RX-GV1B_RX-G2V1B

air conditioning systems

R-410A



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air conditioning systems

R-410A

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RX-GV1B_RX-G2V1B

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1 Features

- Outdoor units for pair application
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- 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				RX50G2V1B	RX60G2V1B	RX71GV1B
For combination indoor units + outdoor units	Indoor Units			FTX50GV1B	FTX60GV1B	FTX71GV1B
Cooling capacity	Max.	Btu/h		20,500	22,900	29,000
		kcal/h		5,160	5,760	7,310
		kW		6.0	6.7	8.5
	Min.	Btu/h		5,800		7,800
		kcal/h		1,460		1,980
		kW		1.7		2.3
	Nom.	Btu/h		17,100	20,500	24,200
		kcal/h		4,300	5,160	6,110
		kW		5.0	6.0	7.1
Heating capacity	Max.	Btu/h		26,300	27,300	34,800
		kcal/h		6,620	6,880	8,770
		kW		7.7	8.0	10.2
	Min.	Btu/h		5,800		7,800
		kcal/h		1,460		1,980
		kW		1.7		2.3
	Nom.	Btu/h		19,800	23,900	28,000
		kcal/h		4,990	6,020	7,050
		kW		5.8	7.0	8.2
Power Input	Cooling	Max.	kW	2.08	2.40	3.20
		Min.	kW	0.44		0.57
		Nom.	kW	1.55	1.99	2.35
	Heating	Max.	kW	2.53	2.81	3.82
		Min.	kW	0.40		0.52
		Nom.	kW	1.60	2.04	2.55
For combination indoor units + outdoor units	EER	Nominal	3.23	3.02		
	COP	Nominal	3.63	3.43	3.22	

2-2 Technical Specifications				RX50G2V1B	RX60G2V1B	RX71GV1B	
Casing	Colour			Ivory white			
Dimensions	Unit	Height	mm	792		900	
		Width	mm	960		925	
		Depth	mm	390			
	Packing	Height	mm	735		770	
		Width	mm	825		900	
		Depth	mm	300		320	
Weight	Unit		kg	48		71	
	Packed Unit		kg	53		79	
Heat Exchanger	Dimensions	Length	mm	845		857	
		Nr of Rows		2			
		Fin Pitch	mm	1.8		1.4	
		Nr of Stages		32		34	
	Tube type				ø8 Hi-XA		
	Fin	Type				Waffle fin	
		Treatment				Anti-corrosion treatment (PE)	
Fan	Type			Propeller			
	Air Flow Rate	Cooling (High)	m³/min	48.9	50.9	54.5	
		Cooling (Low)	m³/min	41.7	42.4	46	
		Cooling (High)	cfm	1,727	1,797	1,924	
		Cooling (Low)	cfm	1,472	1,497	1,624	
		Heating (High)	m³/min	45	46.3	46	
		Heating (Low)	m³/min	41.7	42.4	46	
		Heating (High)	cfm	1,589	1,635	1,624	
		Heating (Low)	cfm	1,472	1,497	1,624	
	Motor	Model			KFD-380-50-8C		

2 Specifications

2-2 Technical Specifications				RX50G2V1B	RX60G2V1B	RX71GV1B
Motor	Speed (nominal)	Cooling (Low)	rpm	670	680	730
		Cooling (High)	rpm	780	810	860
		Heating (Low)	rpm	670	680	730
		Heating (High)	rpm	720	740	730
Fan	Motor	Output	W	53		66
Compressor	Motor	Model	2YC36BXD#C			2YC63BXD#A
		Type	Hermetically sealed swing compressor			
		Motor Output	W	1,20	1,10	1,92
Operation Range	Cooling	Min	°CDB	-10		
		Max	°CDB	46		
	Heating	Min	°CWB	-15		
		Max	°CWB	18		
Sound Level (nominal)	Cooling	Sound Power	dBa	61	63	66
		Sound Pressure (High)	dBa	47	49	52
		Sound Pressure (Low)	dBa	44	46	49
	Heating	Sound Pressure (High)	dBa	48	49	52
		Sound Pressure (Low)	dBa	45	46	49
Refrigerant	Type	R-410A				
	Charge	kg	1.5			
Refrigerant Oil	Type	FVC50K				
	Charged Volume	l	0.650		0.750	
Piping connections	Drain	OD	mm	18		
		Gas	OD	mm	12.7	15.9
	Liquid	OD	mm	6.35		
		Piping Length	Maximum	m	30	
	Chargeless		m	10		
	Additional Refrigerant Charge	kg/m	0.020 (for piping length exceeding 10m)			
Heat Insulation			Both liquid and gas pipes			
Standard Accessories			Drain socket			
			1			
			Installation manual			
			1			
Notes			Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m			
			Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m			
			SL: The silent fan level of the air flow rate setting			
			220V;3;230V;4;240V			

2-3 Electrical Specifications				RX50G2V1B	RX60G2V1B	RX71GV1B
Power Supply	Name			V1		
	Phase			1~		
	Frequency	Hz	50			
	Voltage	V	220-230-240			
Current	Nominal running current (RLA)	Cooling	A	7.040 - 6.750 - 6.450	9.010 - 8.920 - 8.230	10.590 - 10.200 - 9.710
		Heating	A	7.230 - 6.940 - 6.640	9.190 - 8.800 - 8.410	11.420 - 10.930 - 10.440
Wiring connections	For Power Supply	Quantity	3			
	For connection with indoor	Remark	Earth wire included			

3 Electrical data

**RX50-60G
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	°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 (m³/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.

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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)									
EWB	EDB	-10		-5		0		6		10	
°C	°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

FTX71GV1B+RX71GV1B

Cooling 50Hz 220-240V

AFR	17.4
BF	0.30

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	5.93	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
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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		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

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)

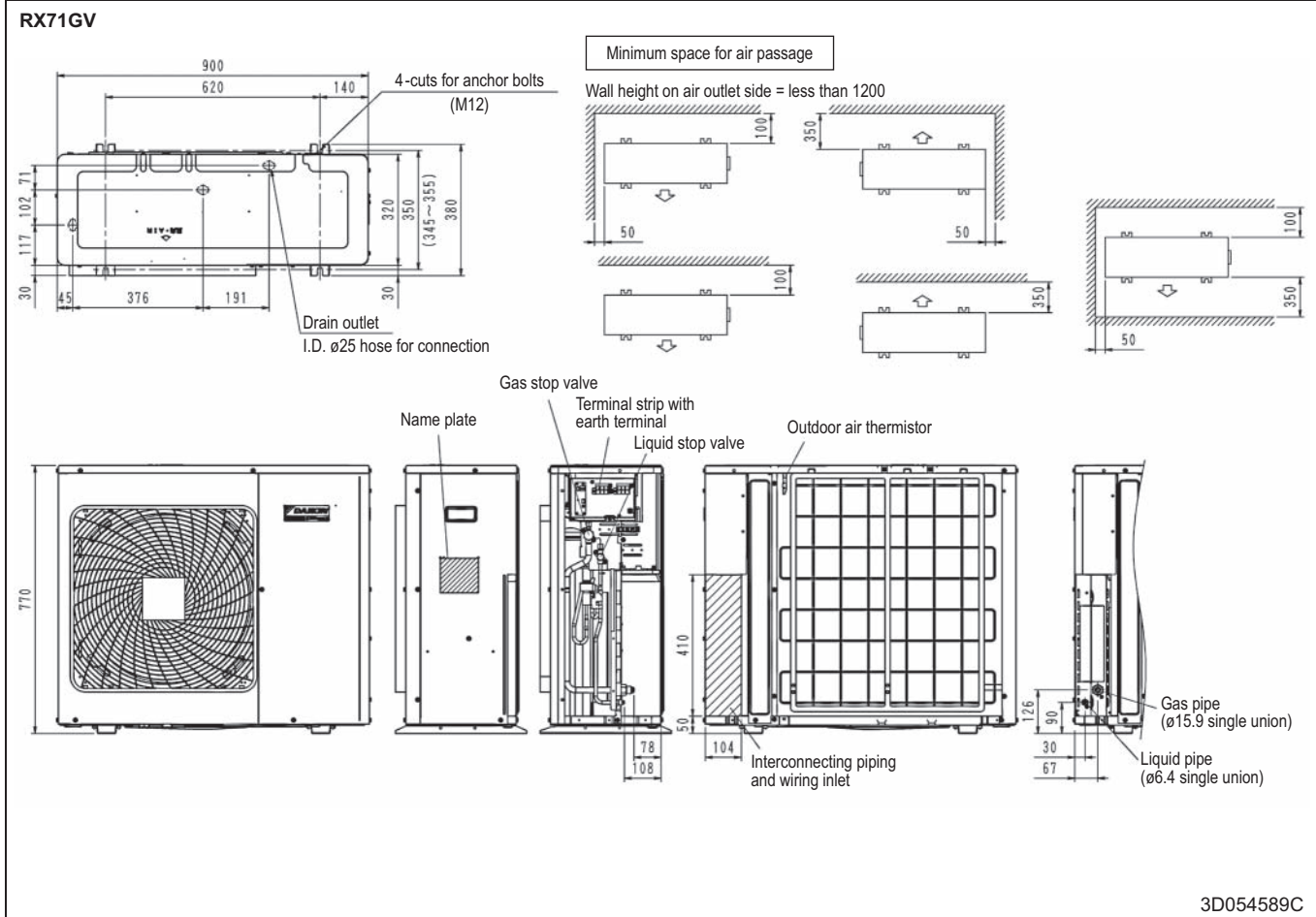
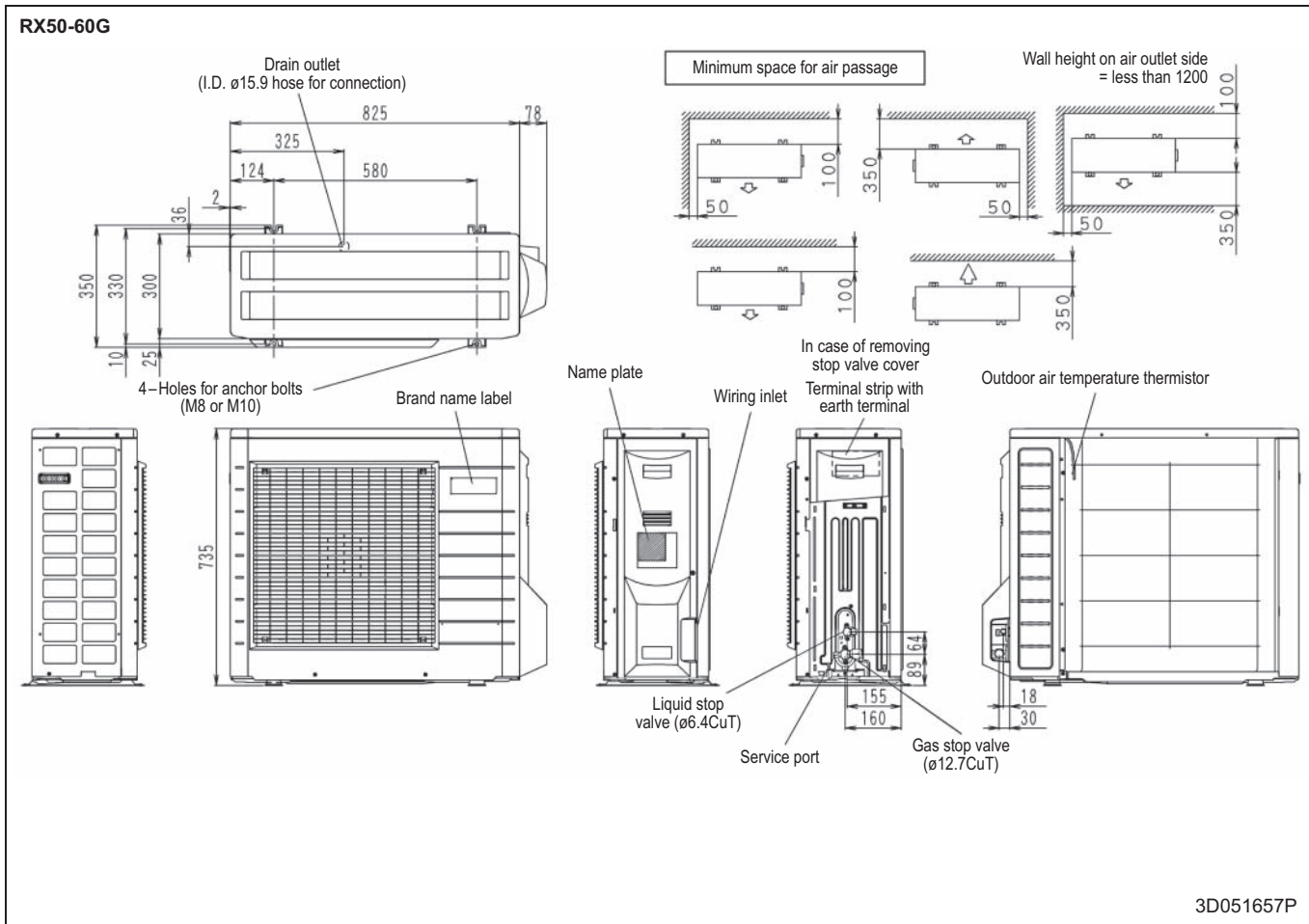
NOTES

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

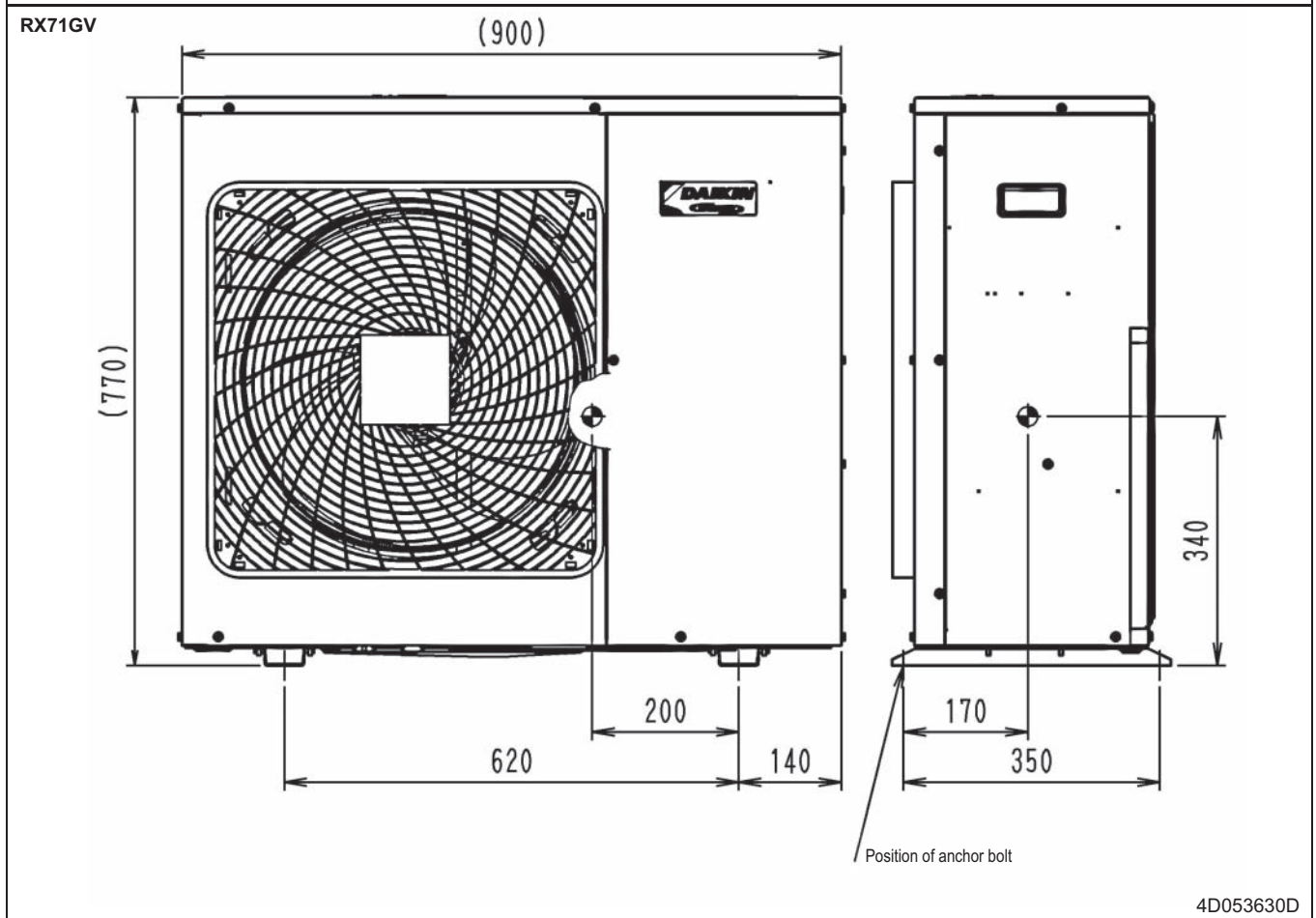
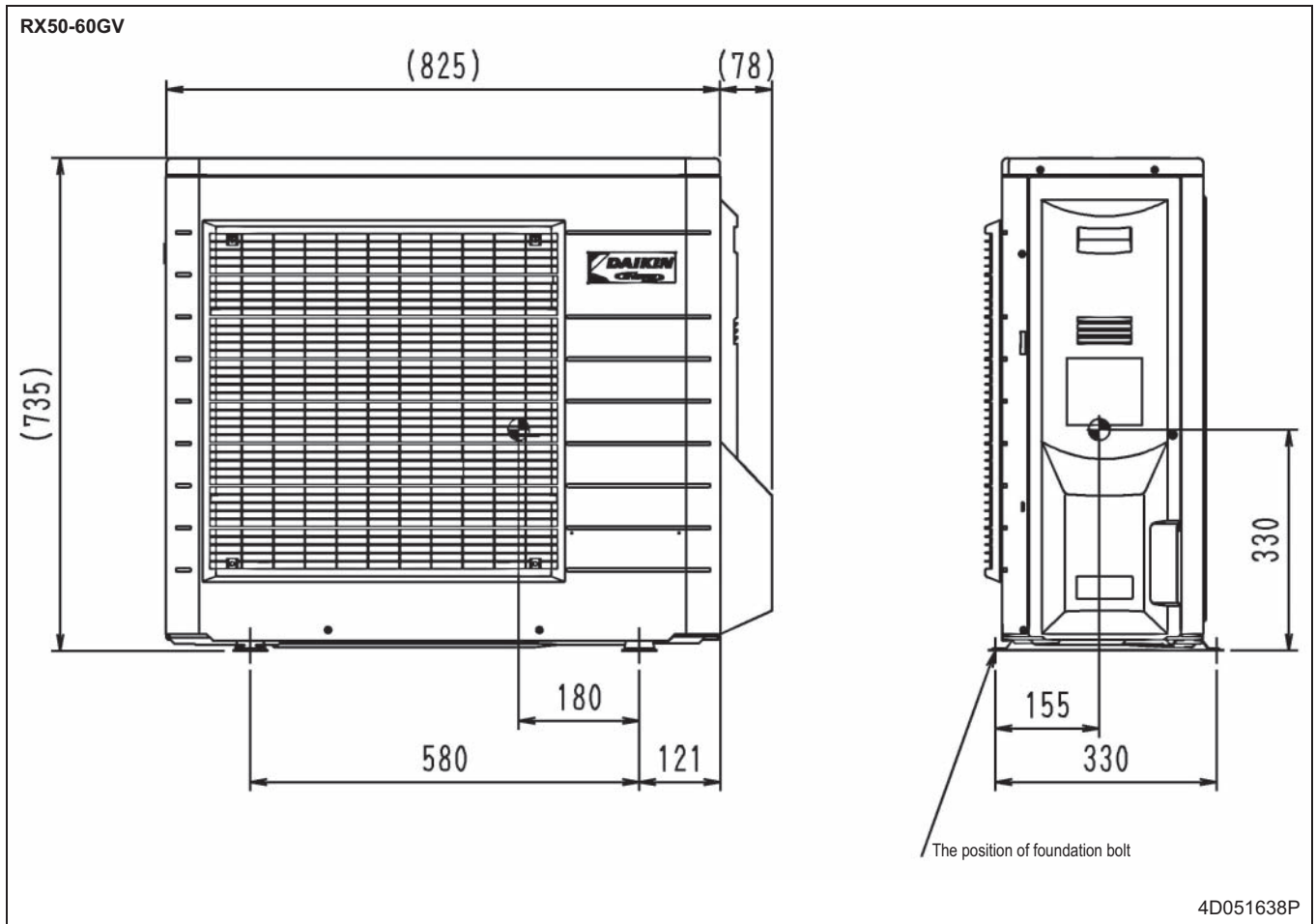
5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

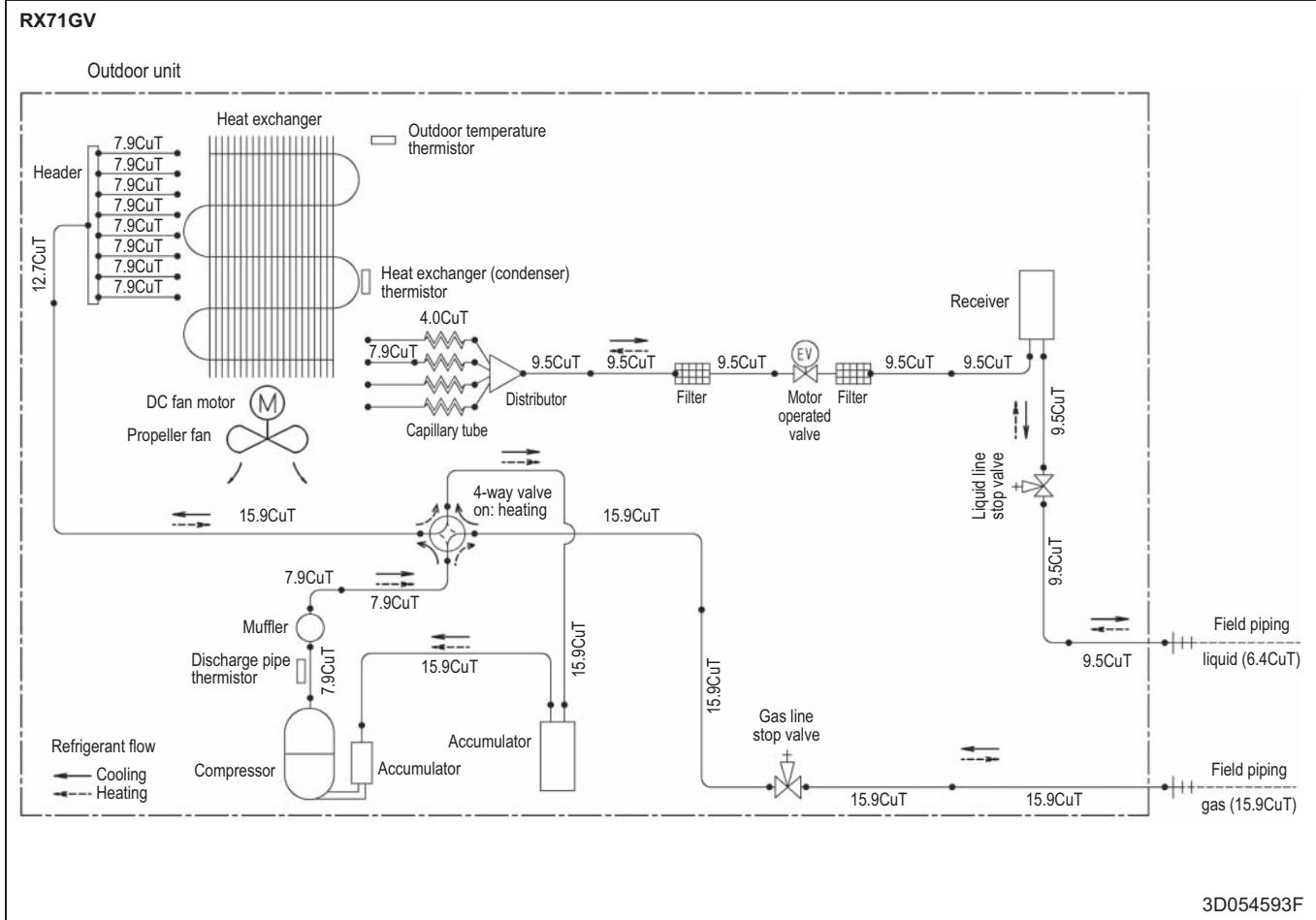
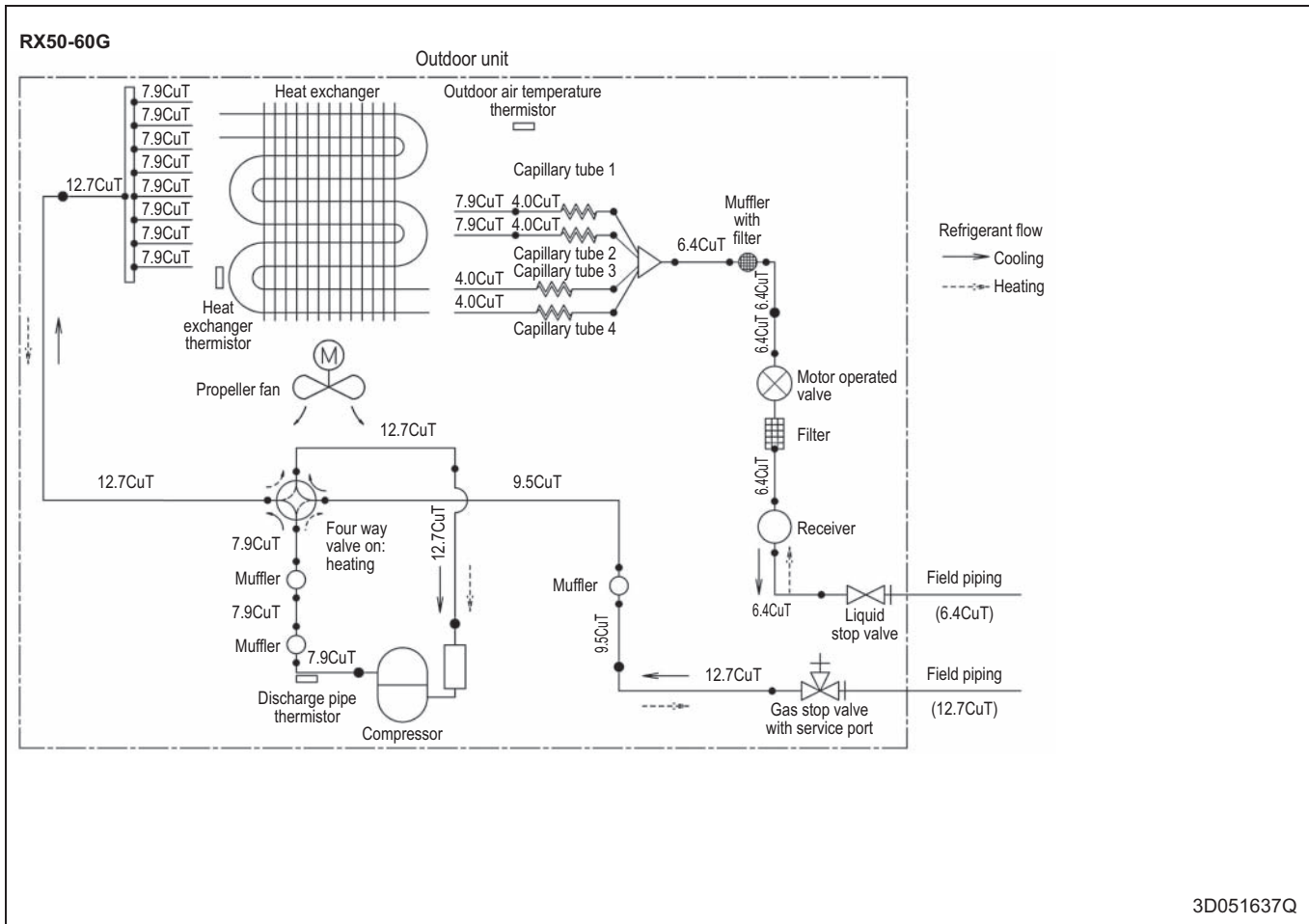


5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

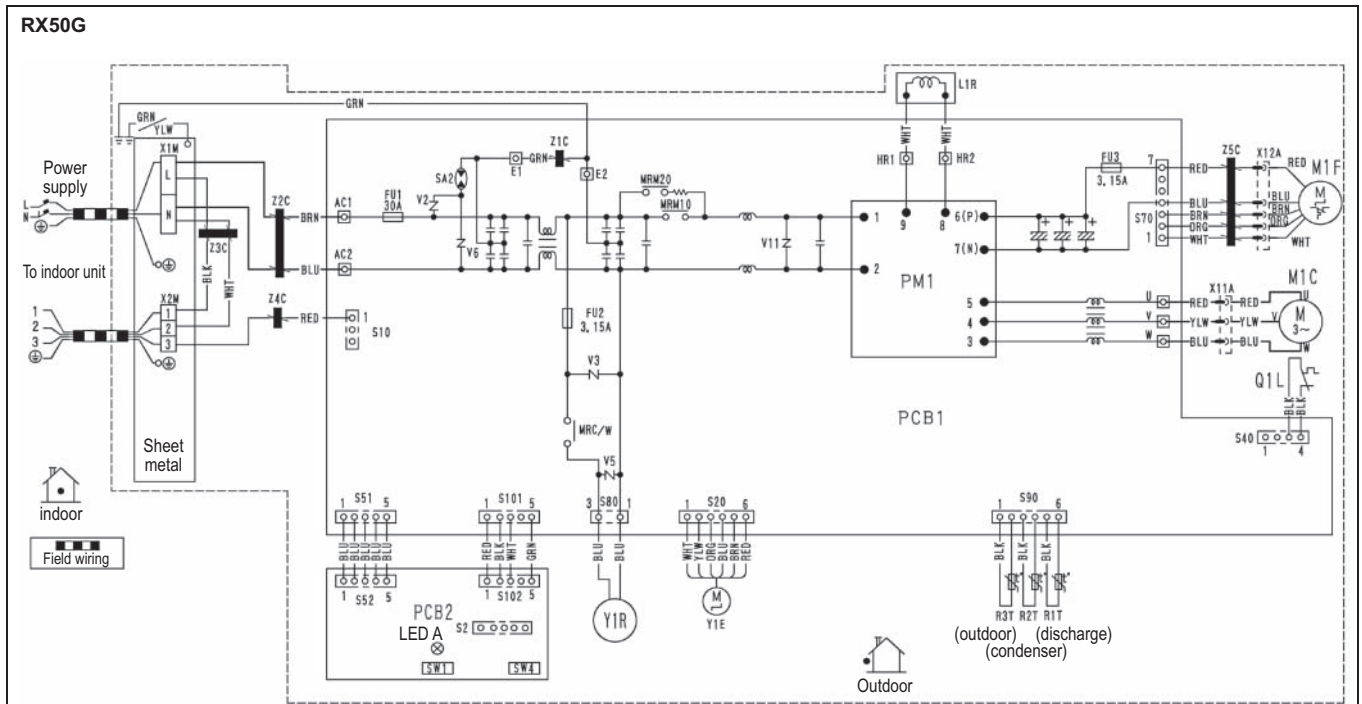


6 Piping diagram



7 Wiring diagram

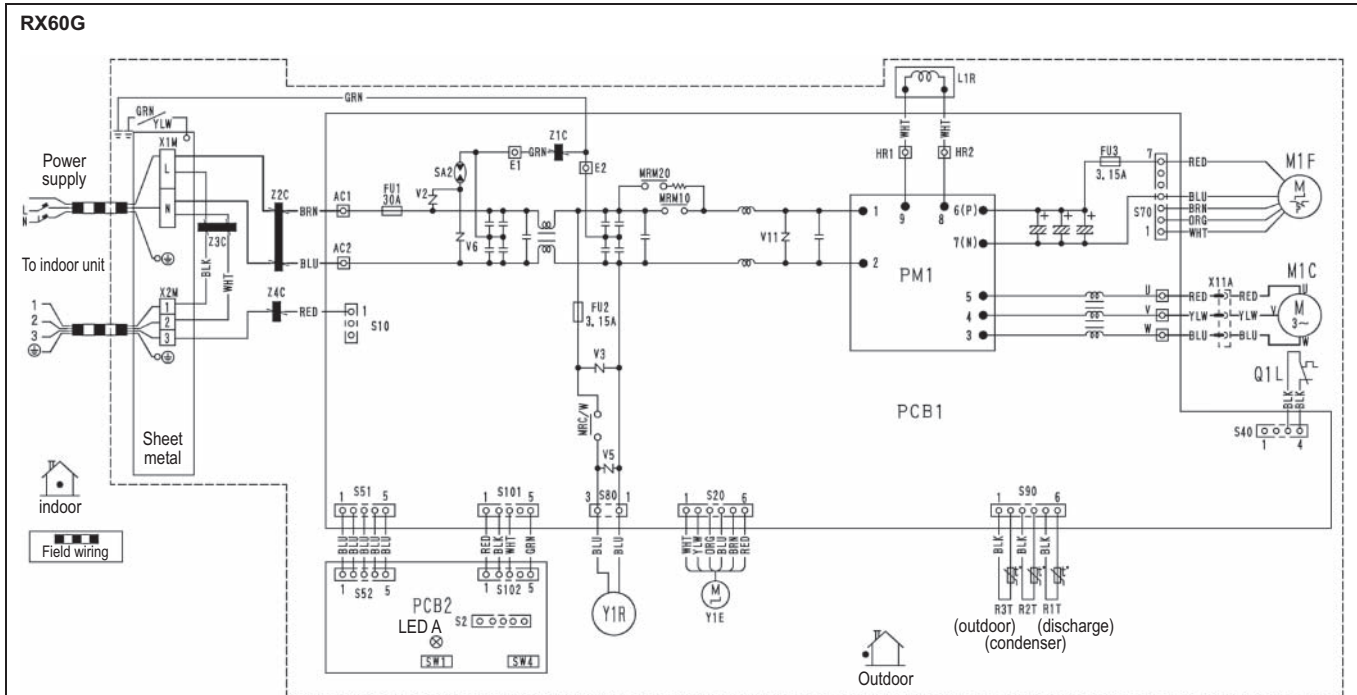
7 - 1 Wiring diagram



Z1C~Z5C	Ferrite core	LEDA	Pilot lamp
X1M, X2M	Terminal strip	L	Live
Y1E	Electronic expansion valve coil	N	Neutral
V2, V3, V5, V6, V11	Varistor	SW1	Forced operation ON/OFF SW (SW1)
SA2	Surge arrester	SW4	Local setting SW (SW4)
FU1, FU2, FU3	Fuse	M1C	Compressor motor
AC1, AC2		M1F	Fan motor
U, V, W, X11A, X12A		L1R	Reactor
E1, E2		Q1L	Overload protector
HR1, HR2	Connector	PM1	Power module
MRM10, MRM20		PCB1, 2	Printed circuit board
MRC/W	Magnetic relay	Y1R	Reversing solenoid valve coil
R1T~R3T	Thermistor	Sheet metal	Terminal strip fixed plate
S2~S102	Connector		

7 Wiring diagram

7 - 1 Wiring diagram

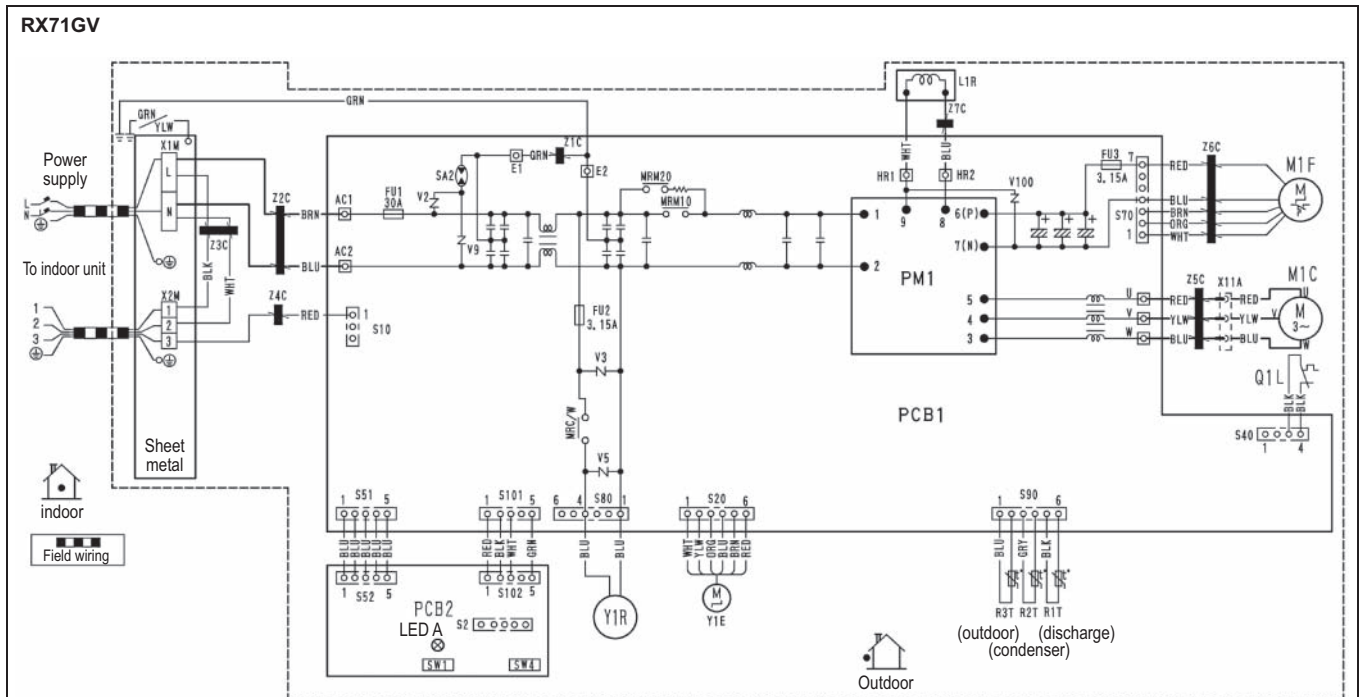


Z1C~Z4C	Ferrite core	LEDA	Pilot lamp
X1M, X2M	Terminal strip	L	Live
Y1E	Electronic expansion valve coil	N	Neutral
V2, V3, V5, V6, V11	Varistor	SW1	Forced operation ON/OFF SW (SW1)
SA2	Surge arrester	SW4	Local setting SW (SW4)
FU1, FU2, FU3	Fuse	M1C	Compressor motor
AC1, AC2		M1F	Fan motor
U, V, W, X11A		L1R	Reactor
E1, E2		Q1L	Overload protector
HR1, HR2	Connector	PM1	Power module
MRM10, MRM20		PCB1, 2	Printed circuit board
MRC/W	Magnetic relay	Y1R	Reversing solenoid valve coil
R1T~R3T	Thermistor	Sheet metal	Terminal strip fixed plate
S2-S102	Connector		

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7 Wiring diagram

7 - 1 Wiring diagram

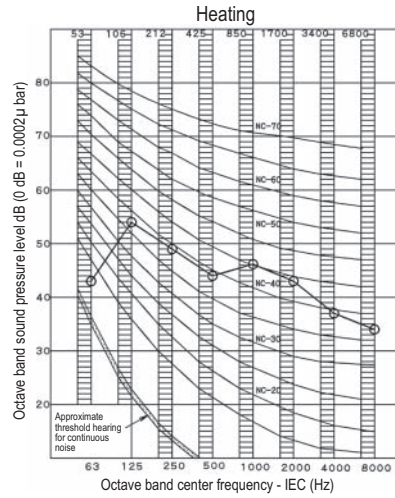
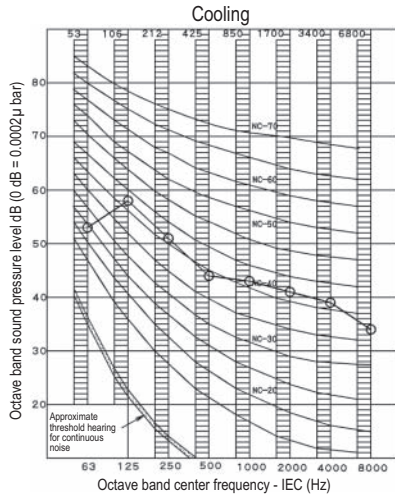


Z1C-Z7C	Ferrite core	LEDA	Pilot lamp
X1M, X2M	Terminal strip	L	Live
Y1E	Electronic expansion valve coil	N	Neutral
V2, V3, V5, V9, V100	Varistor	SW1	Forced operation ON/OFF SW (SW1)
SA2	Surge arrester	SW4	Local setting SW (SW4)
FU1, FU2, FU3	Fuse	M1C	Compressor motor
AC1, AC2		M1F	Fan motor
U, V, W, X11A, X12A		L1R	Reactor
E1, E2		Q1L	Overload protector
HR1, HR2	Connector	PM1	Power module
MRM10, MRM20		PCB1, 2	Printed circuit board
MRC/W	Magnetic relay	Y1R	Reversing solenoid valve coil
R1T-R3T	Thermistor	Sheet metal	Terminal strip fixed plate
S2-S102	Connector		

8 Sound data

8 - 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

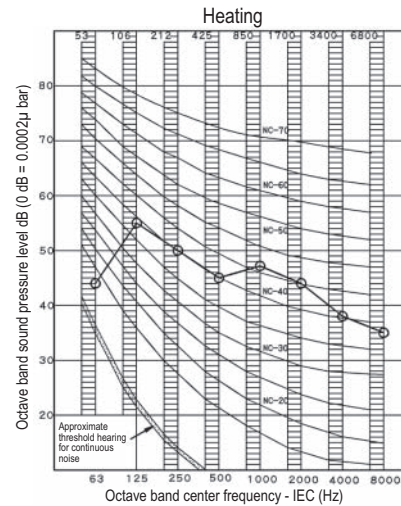
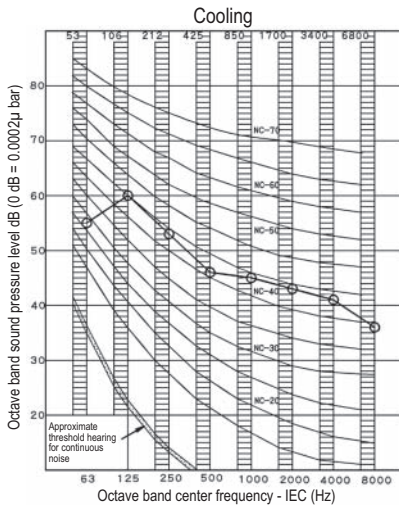
NOTES

- 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.

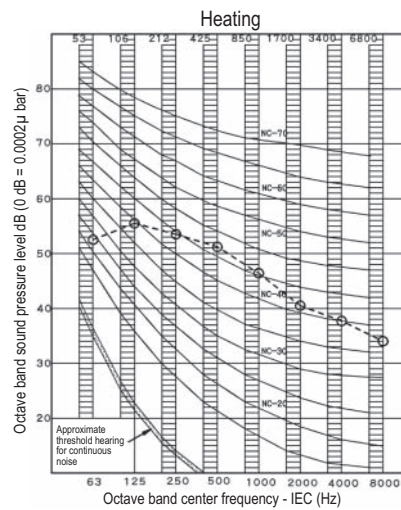
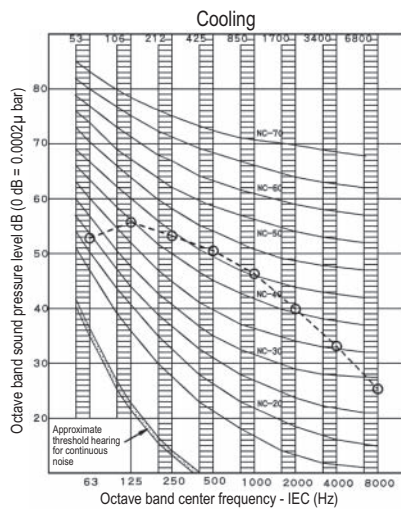
Scale	50Hz 220~240V
A	49

3D051716D

8 Sound data

8 - 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

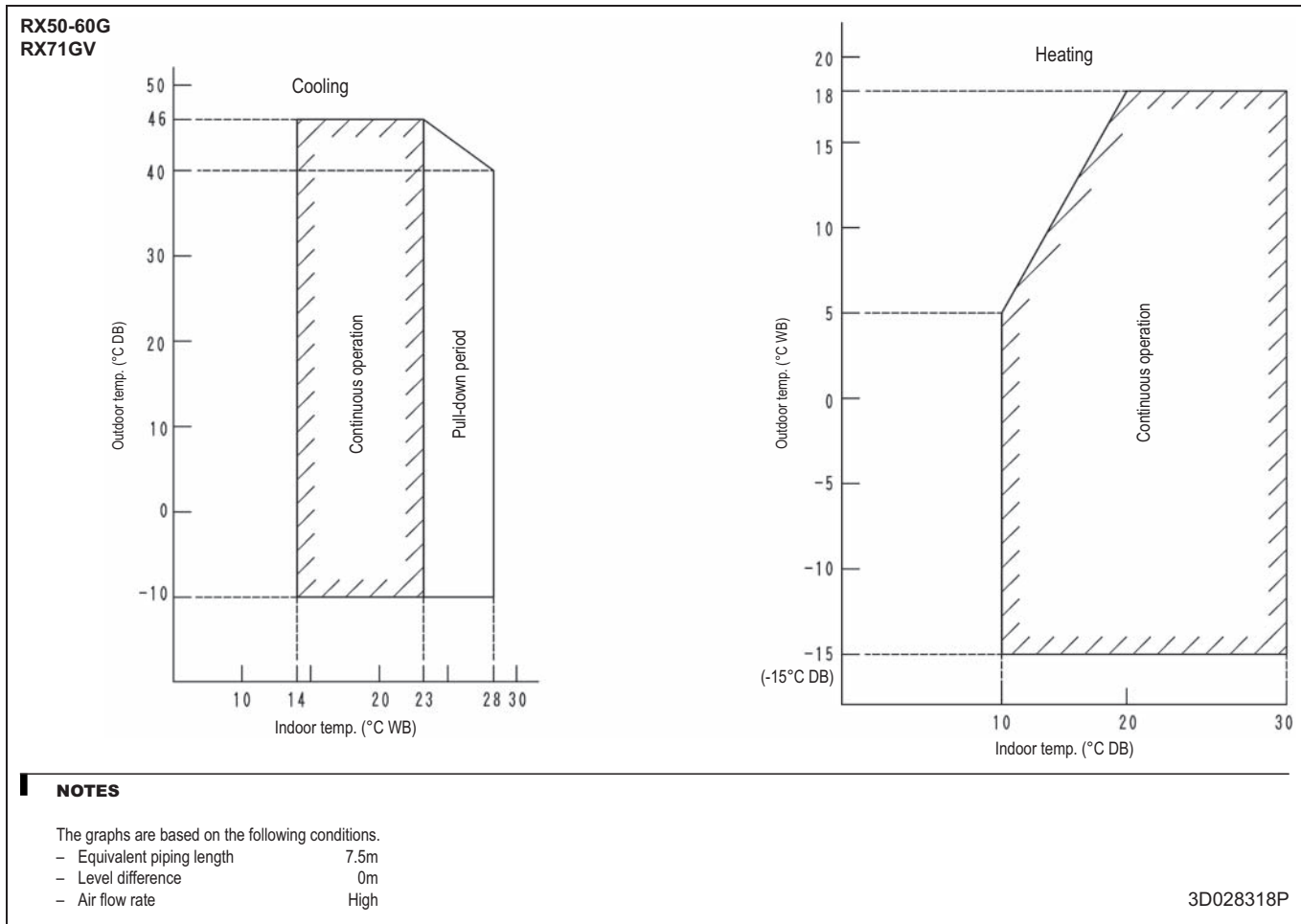
NOTES

- 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

9 Operation range



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.



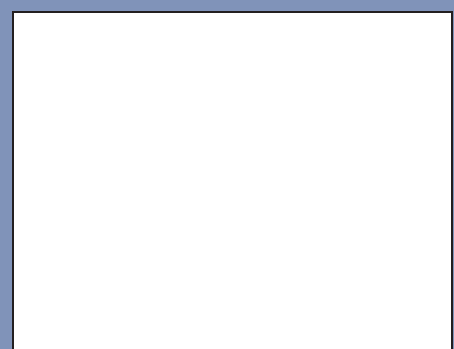
ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



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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