



technical data

Outdoor Units

RKS-F3V1B
RKS-FAV1B

air conditioning systems

R-410A



technical data

Outdoor Units

RKS-F3V1B
RKS-FAV1B

air conditioning systems

R-410A

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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				RKS60F3V1B	RKS71FAV1B
For combination indoor units + outdoor units	Indoor Units			FTXS60G1VB	FTXS71GV1B
Cooling capacity		Max.	Btu/h	22,9	29,0
			kcal/h	5,76	7,31
			kW	6.7	8.5
		Min.	Btu/h	5,8	7,8
			kcal/h	1,460	1,980
			kW	1.7	2.3
		Nom.	Btu/h	20,5	24,2
			kcal/h	5,16	6,11
			kW	6.0	7.1
Annual energy consumption			kWh	995	1175
EER			3.02	3.02	
Energy label	Cooling			B	D
Power input	Cooling	Max.	kW	2.400	3.200
		Min.	kW	0.440	0.570
		Nom.	kW	1.990	2.350
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.35	6.35
	Gas	Diameter (OD)	mm	12.7	15.9
	Drain	Diameter (OD)	mm	18	18
	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	
				Capacities are net, including a deduction for cooling for indoor fan motor heat	

2-2 Technical Specifications				RKS60F3V1B		RKS71FAV1B	
Casing	Colour			Ivory White			
Dimensions	Unit	Height	mm	735		770	
		Width	mm	825		900	
		Depth	mm	300		320	
	Packing	Height	mm	797		900	
		Width	mm	960		925	
		Depth	mm	390			
Weight	Unit		kg	47		71	
	Packed Unit		kg	52		79	
Heat Exchanger	Dimensions	Length	mm	845		857	
		Nr of Rows		2			
		Fin Pitch	mm	1.800		1.400	
		Nr of Stages		32		34	
	Tube type			ø8 Hi-XA		ø8 Hi-XSL	
	Fin	Type		Waffle fin			
		Treatment		Anti-corrosion treatment (PE)			
Fan	Type			Propeller			
	Quantity						
	Air Flow Rate	Cooling High	m³/min	50.9		54.5	
		Cooling Low	m³/min	42.4		46	
		Cooling High	cfm	1,797		1,924	
		Cooling Low	cfm	1,497		1,624	
	Motor	Model		KFD-380-50-8C		KFD-280-66-8A	
Motor	Speed	Cooling	rpm	810		860	
Fan	Motor	Output	W	53		66	
Compressor	Motor	Model		2YC36BXD#C		2YC36BXD#A	
		Type		Hermetically sealed swing compressor			
		Motor Output	W	1,100		1,920	
Operation Range	Cooling	Min	°CDB	-10			
		Max	°CDB	46			
Sound power level	Cooling	Nom.	dBA	63		66	
Sound pressure level	Cooling	High	dBA	49		52	
	Night quiet mode	Level 1	dBA	46		49	

2 Specifications

2-2 Technical Specifications				RKS60F3V1B	RKS71FAV1B
Refrigerant	Type			R-410A	
	Charge		kg	1.5	2.3
Refrigerant Oil	Type			FVC50K	
	Charged Volume		l	0.65	0.75
Piping connections	Piping Length	Maximum	m	30	
		Chargeless	m	10	
	Additional Refrigerant Charge		kg/m	0.02 (for piping length exceeding 10m)	
	Level difference	Maximum	m	20	
Notes				SL: The silent fan level of the air flow rate setting	
				220V;3;230V;4;240V	

2-3 Electrical Specifications				RKS60F3V1B	RKS71FAV1B
Power Supply	Name			V1	
	Phase			1	
	Frequency		Hz	50	
	Voltage		V	220-230-240	
Current	Nominal running current (RLA)	Cooling	A	9.01	10.59
				8.62	10.20
				8.23	9.71
	Starting current (cooling)		A	9.2	10.8
Wiring connections	For Power Supply	Quantity		3	
	For connection with indoor	Quantity		4	
		Remark		Earth wire included	

3 Electrical data

RXS60F3 RKS60F3

Representative unit combination		Power supply				Comp		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXS60FV1B	RXS60F3V1B	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				

Minimum Ssc value	kVA	Equipment complying with EN61000-3-12
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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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RXS71FA RKS71FA

Representative unit combination		Power supply				Comp		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXS71GV1B	RXS71FAV1B	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				

Minimum Ssc value	kVA	Equipment complying with EN61000-3-12
-------------------	-----	---------------------------------------

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4. Instead of fuse, use circuit breaker.

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3 Electrical data

RKS60F3 RXS60F3

Representative unit combination		Power supply				Comp		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FCQ60C8VEB	RKS60F3V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20.0	73	7.4	53	0.19	56	0.40
		50 - 230					7.1				
		50 - 240					6.8				
FCQ60C8VEB	RXS60F3V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20.0	73	7.4	53	0.19	56	0.40
		50 - 230					7.1				
		50 - 240					6.8				

SYMBOLS

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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 capacity tables

FTXS60GV1B+RKS60F3V1B

Cooling 50Hz 220-240V

AFR	16.0
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	5.53	3.90	1.49	5.53	3.90	1.66	5.53	3.90	1.82	5.48	3.87	1.88	5.31	3.78	1.97	5.03	3.63	2.12
16.0	22	6.42	4.16	1.54	6.14	4.01	1.68	5.86	3.87	1.83	5.75	3.81	1.89	5.59	3.73	1.98	5.31	3.59	2.12
18.0	25	6.70	4.29	1.54	6.42	4.16	1.69	6.14	4.03	1.84	6.03	3.97	1.90	5.86	3.89	1.99	5.58	3.77	2.13
19.0	27	6.84	4.47	1.55	6.56	4.34	1.70	6.28	4.21	1.84	6.17	4.16	1.90	6.00	4.09	1.99	5.72	3.96	2.14
22.0	30	7.25	4.29	1.56	6.97	4.18	1.71	6.69	4.06	1.86	6.58	4.02	1.91	6.41	3.95	2.00	6.14	3.84	2.15
24.0	32	7.53	4.16	1.57	7.25	4.06	1.72	6.97	3.95	1.86	6.86	3.91	1.92	6.69	3.85	2.01	6.41	3.75	2.16

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

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

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FTXS71GV1B+RKS71FAV1B

Cooling 50Hz 220-240V

AFR	17.2
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	5.86	4.13	1.63	5.86	4.13	1.85	5.86	4.13	2.07	5.86	4.13	2.15	5.86	4.13	2.28	5.86	4.13	2.49
16.0	22	7.20	4.61	1.77	7.20	4.61	1.98	6.94	4.47	2.16	6.81	4.40	2.23	6.61	4.30	2.33	6.28	4.13	2.51
18.0	25	7.93	4.97	1.82	7.60	4.80	2.00	7.27	4.63	2.17	7.13	4.57	2.24	6.94	4.47	2.34	6.61	4.31	2.52
19.0	27	8.09	5.15	1.83	7.76	4.99	2.00	7.43	4.83	2.18	7.30	4.76	2.25	7.10	4.67	2.35	6.77	4.52	2.52
22.0	30	8.58	4.94	1.84	8.25	4.79	2.02	7.92	4.65	2.19	7.79	4.59	2.26	7.59	4.51	2.37	7.26	4.37	2.54
24.0	32	8.91	4.78	1.85	8.58	4.65	2.03	8.25	4.52	2.20	8.12	4.46	2.27	7.92	4.39	2.38	7.59	4.26	2.55

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

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

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4 Capacity tables

4 - 1 Cooling capacity tables

FCQ60C8VEB + RKS60F3V1B

Cooling 50Hz 220-240V

AFR	13.5
BF	0.21

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	5.84	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

SYMBOLS

AFR	: Air flow rate	(m ³ /min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C)
EDB	: Entering dry bulb temp.	(°C)
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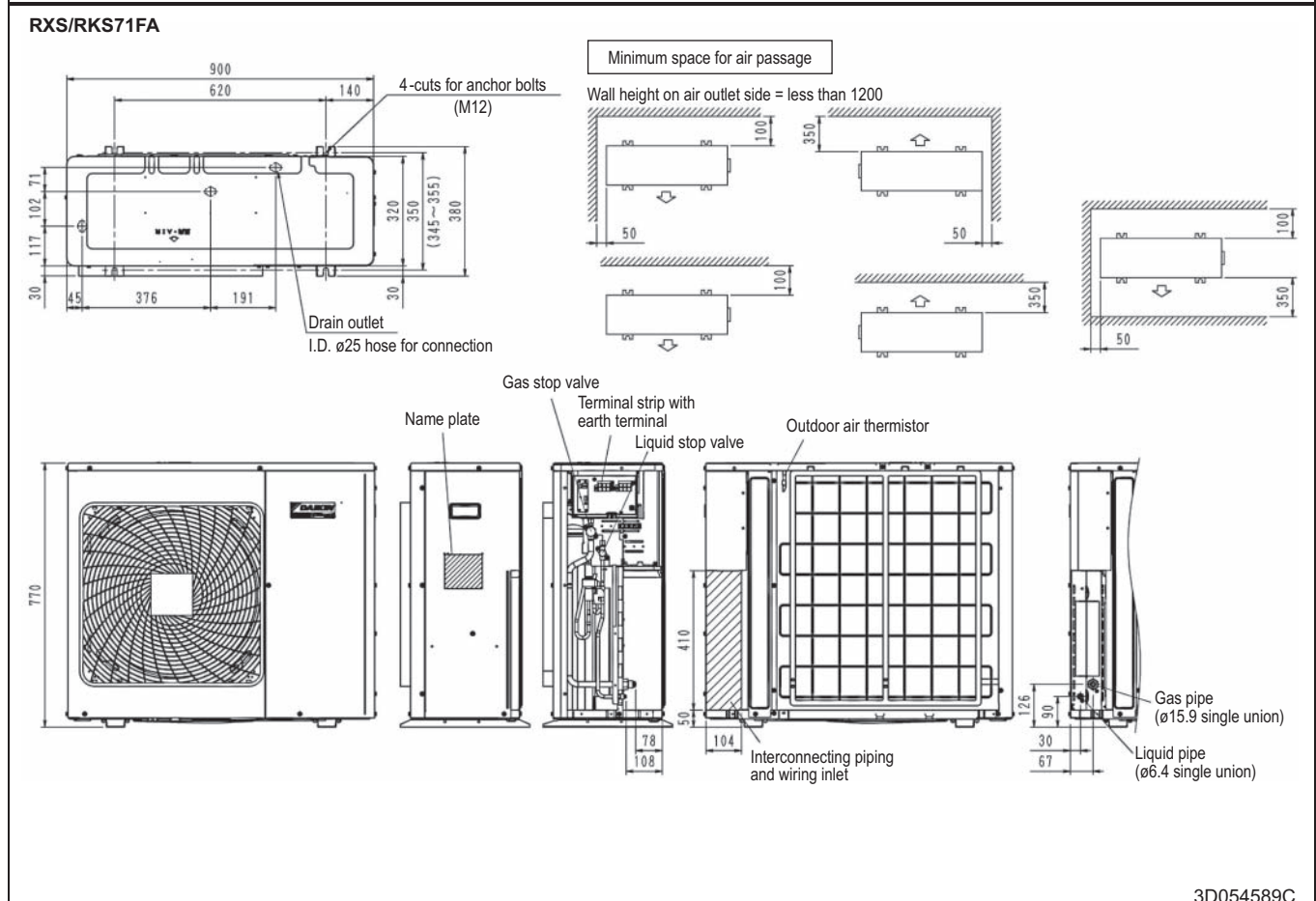
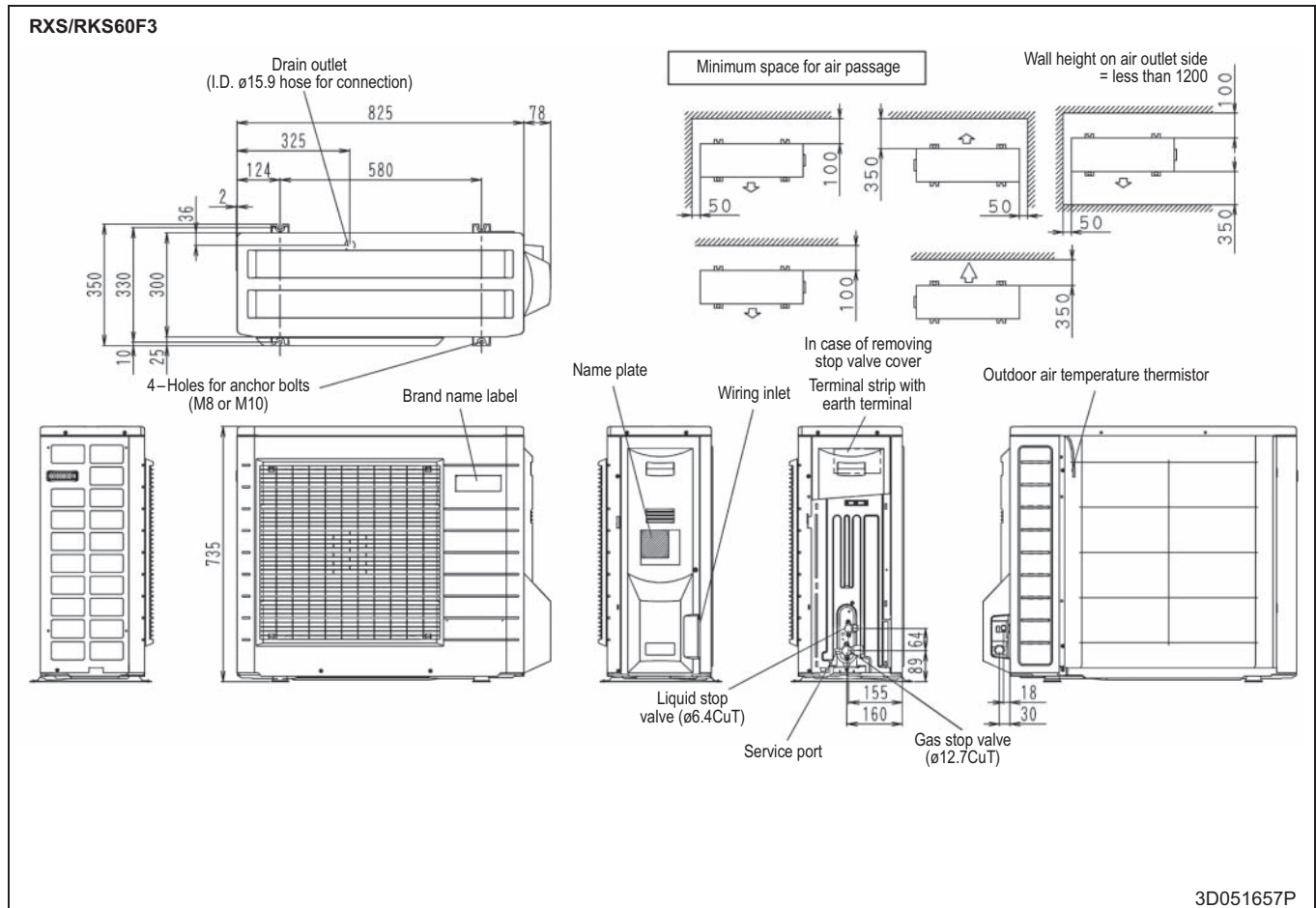
NOTES

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

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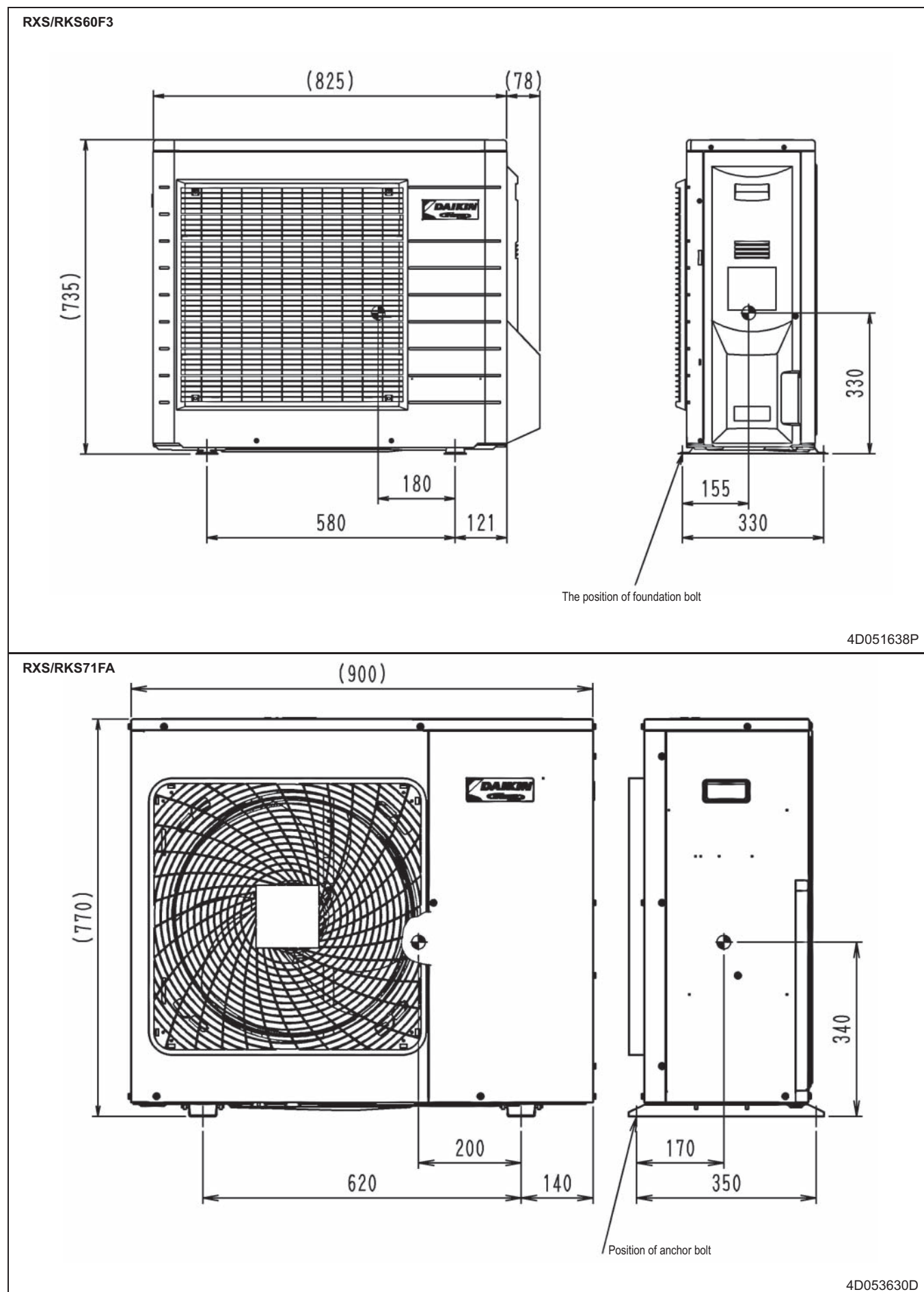
5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing



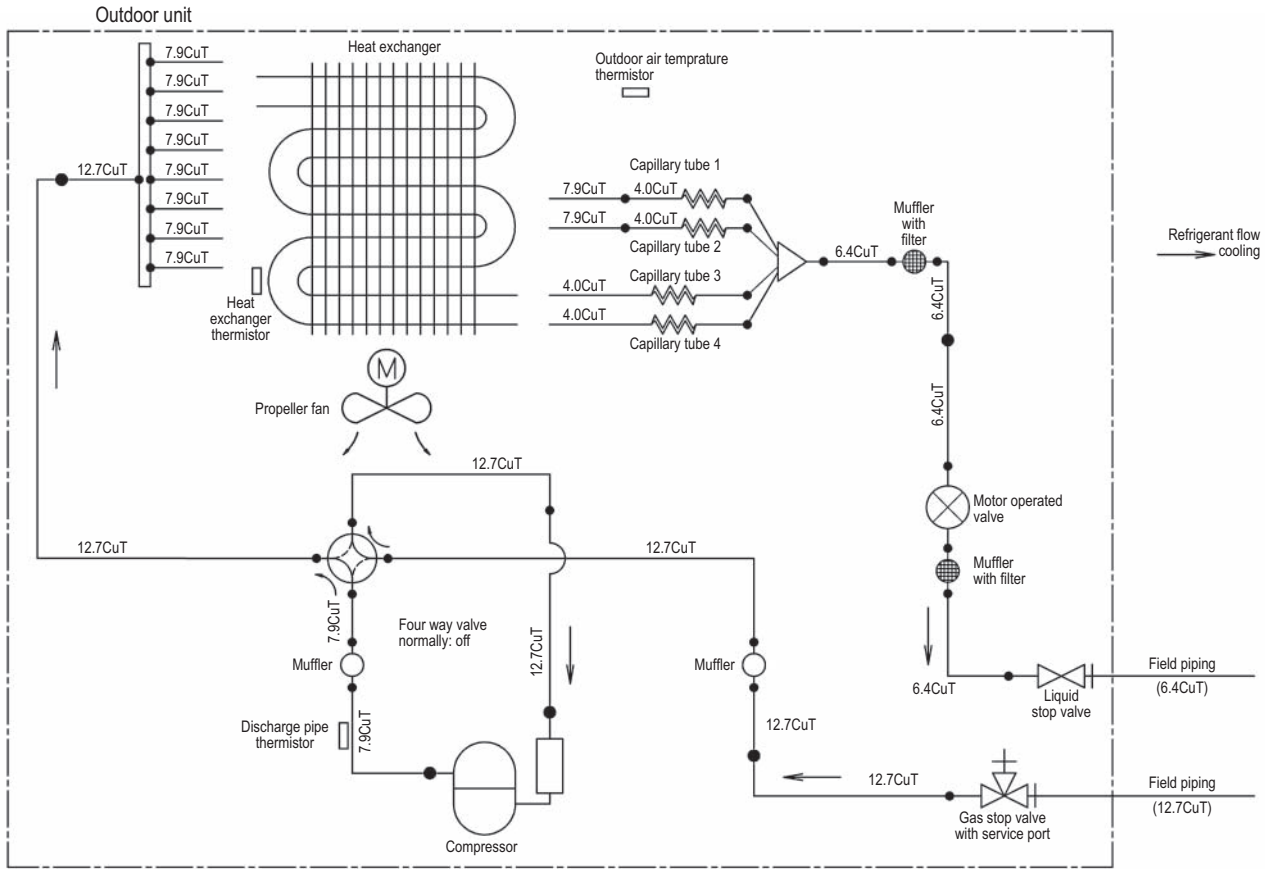
5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity



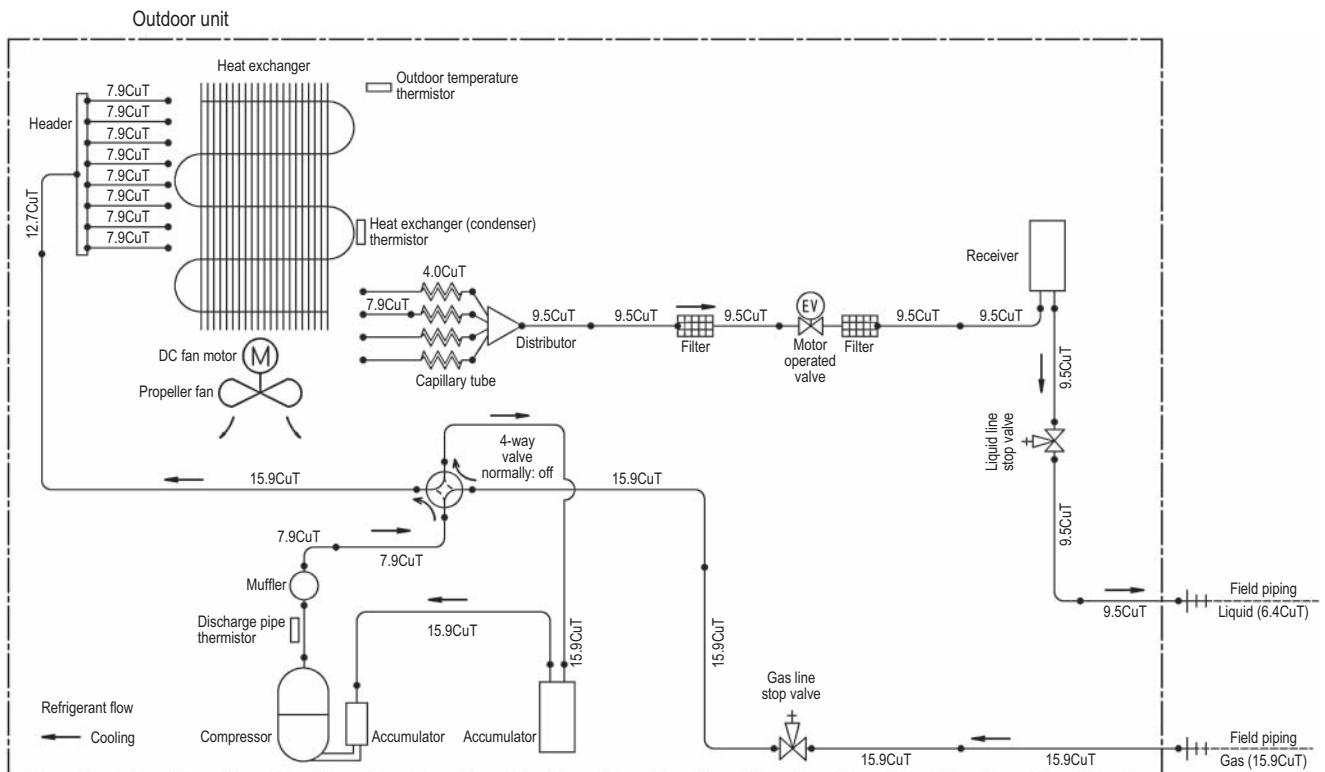
6 Piping diagram

RKS60F3



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RKS71FA

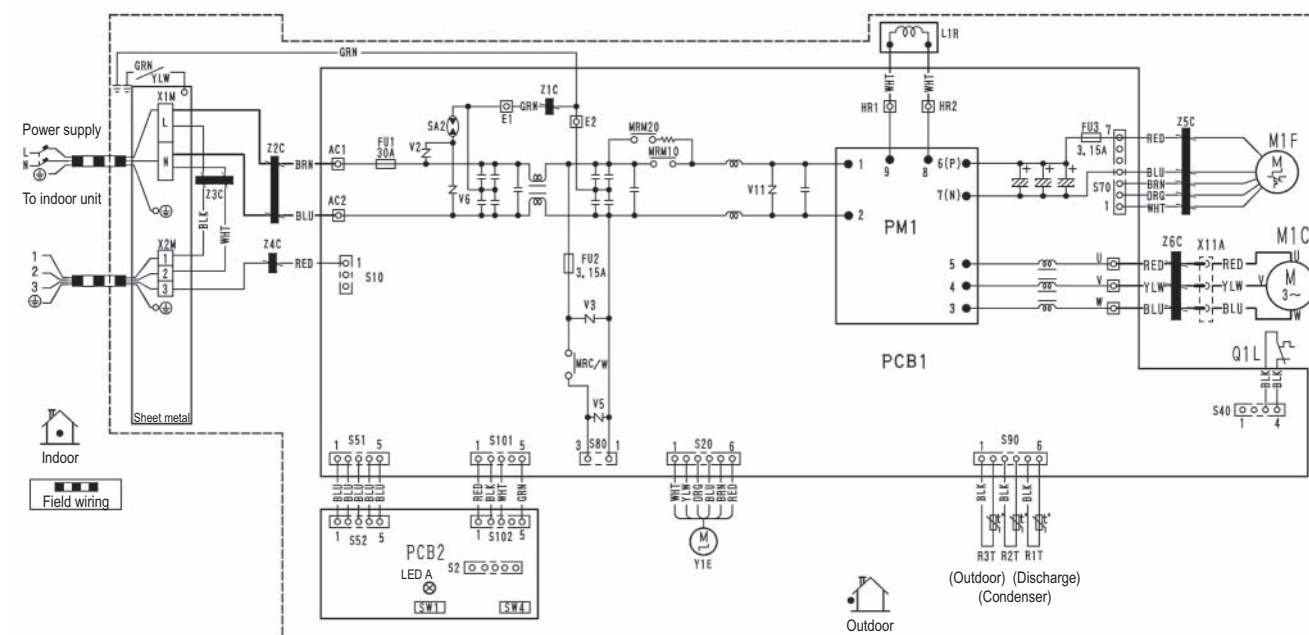


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7 Wiring diagram

7 - 1 Wiring diagram

RKS60F3

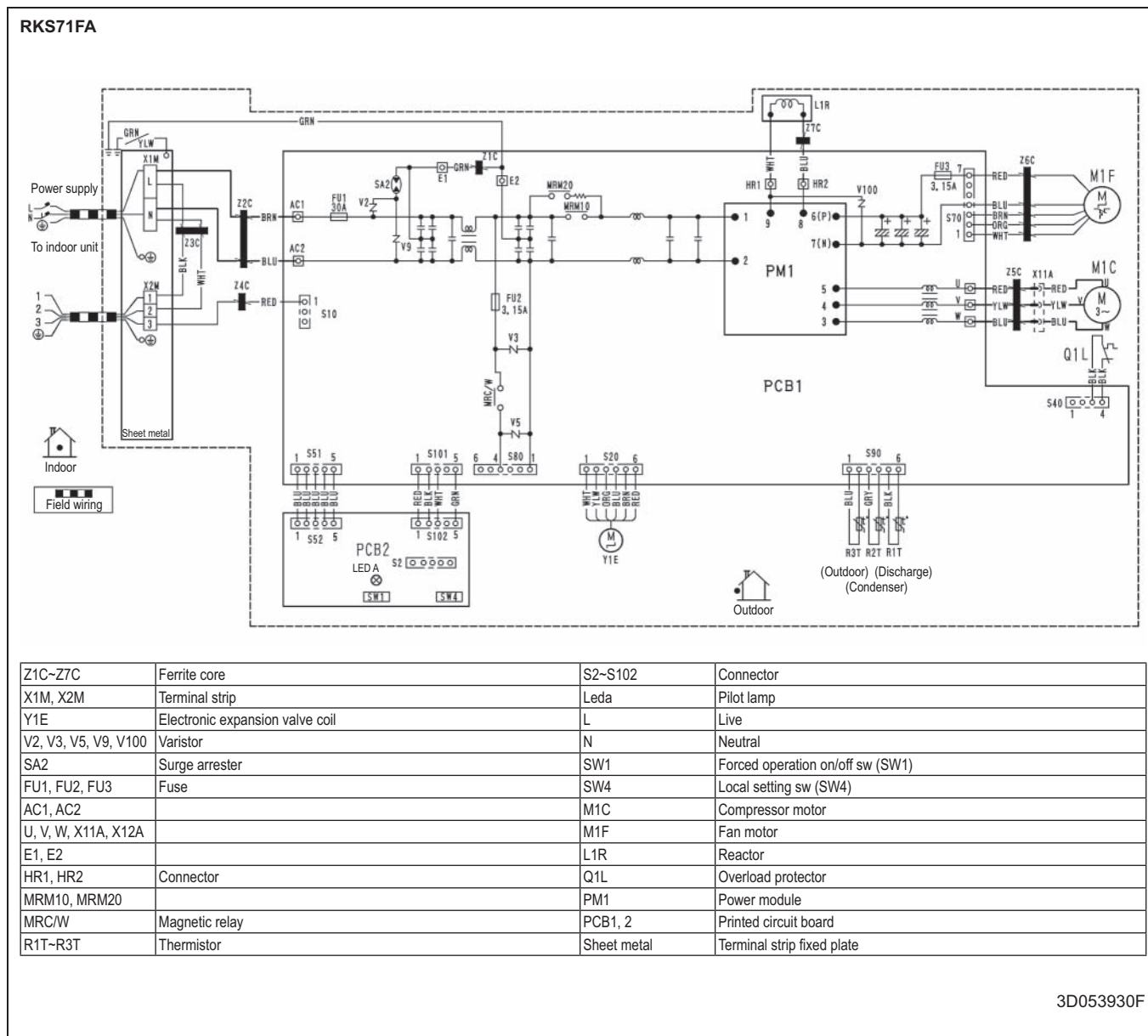


Z1C~Z6C	Ferrite core	S2~S102	Connector
X1M, X2M	Terminal strip	Leda	Pilot lamp
Y1E	Electronic expansion valve coil	L	Live
V2, V3, V5, V6, V11	Varistor	N	Neutral
SA2	Surge arrester	SW1	Forced operation on/off sw (SW1)
FU1, FU2, FU3	Fuse	SW4	Local setting sw (SW4)
AC1, AC2		M1C	Compressor motor
U, V, W, X11A		M1F	Fan motor
E1, E2		L1R	Reactor
HR1, HR2	Connector	Q1L	Overload protector
MRM10, MRM20		PM1	Power module
MRC/W	Magnetic relay	PCB1, 2	Printed circuit board
R1T~R3T	Thermistor	Sheet metal	Terminal strip fixed plate

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7 Wiring diagram

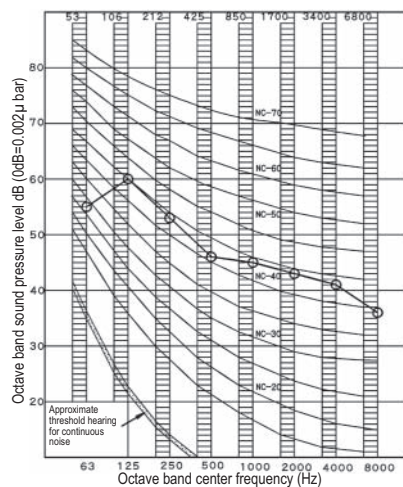
7 - 1 Wiring diagram



8 Sound data

8 - 1 Sound pressure spectrum

RKS60F3



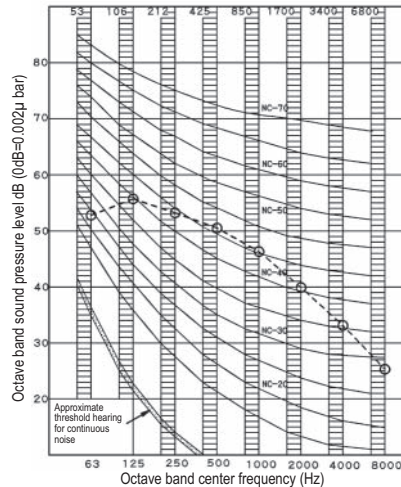
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NOTES

- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Operating conditions:
 - Power source: 220-240V 50Hz
 - JIS
 - ○—○ 50Hz 220-240V
 - Cooling
- 3 Measuring place: measured in an echoic room
- 4 Operation noise differs with operation and ambient conditions.
- 5 Location of microphone.
JIS C 9612
The operation noise measuring method is in accordance with JIS C 9612

Scale	50Hz 220-240v
A	49

RKS71FA



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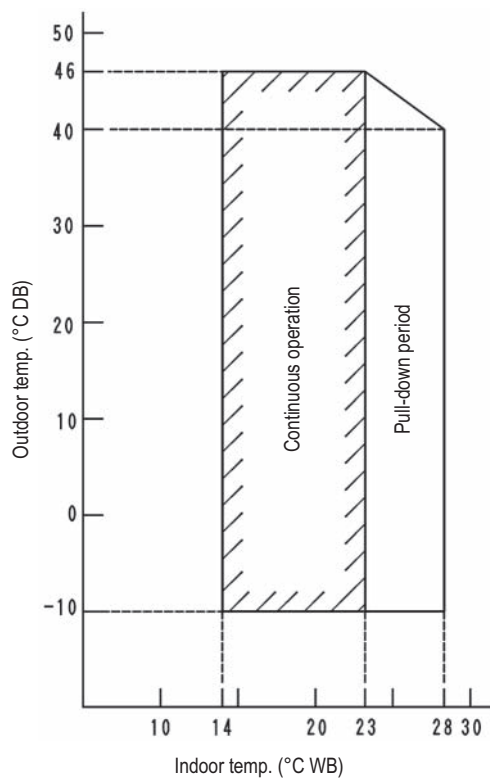
NOTES

- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Operating conditions:
 - Power source: 220-240V 50Hz
 - JIS standard (JIS9612)
 - Cooling
- 3 Measuring place: Measured in an anechoic room
- 4 Operation noise differs with operation and ambient conditions.
- 5 Location of microphone.
JISC 9612
The operation noise measuring method is in accordance with JISC 9612

Scale	50Hz 220-240v
A	52

9 Operation range

RKS60F3
RKS71FA



4D029297V

NOTES

The graph is based on the following conditions:

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



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 intention 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.



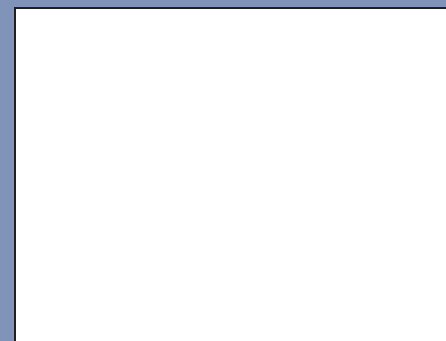
ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



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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