Air Conditioning Technical Data

RXF-D9

EEDEN24

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RXF-D9

1 Features

1 - 1 RXF-D9

› Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
› Daikin outdoor units are equipped with an anti-corrosion treated heat exchanger (blue fin) which ensures greater resistance to the most severe weather conditions
› Outdoor units for pair application
› Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency

INVERTER

Inverter
(25, 35 class)

2 Specifications

2 - 1 Specifications

Technical specifications				FTXF60D + RXF60D9	FTXF71D + RXF71D9
Cooling capacity	Min.		kW	1.7	2.3
	Min.		Btu/h	5,800	7,800
	Min.		kcal/h	1,462	1,978
	Nom.		kW	6	7.1
	Nom.		Btu/h	20,500	24,200
	Nom.		kcal/h	5,159	6,105
	Max.		kW	7	7.3
	Max.		Btu/h	23,900	24,900
	Max.		kcal/h	6,019	6,277
Heating capacity	Min.		kW	1.7	2.3
	Min.		Btu/h	5,800	7,800
	Min.		kcal/h	1,500	2,000
	Nom.		kW	6.4	8.2
	Nom.		Btu/h	21,800	28,000
	Nom.		kcal/h	5,503	7,051
	Max.		kW	8	9
	Max.		Btu/h	27,300	30,700
	Max.		kcal/h	6,879	7,739
Power input	Cooling	Nom.	kW	1.85	2.77
	Heating	Nom.	kW	1.63	2.21
Nominal efficiency	EER			3.25	2.56
	COP			3.93	3.15
	Annual energy consumption		kWh	923	1,387
	Energy labeling Directive	Cooling		A	E
		Heating		A	
Space cooling	Energy efficiency class			A++	A
	Capacity	Pdesign	kW	6	7.1
	SEER			6.15	5.15
	Annual energy consumption		kWh/a	342	483
Space heating (Average climate)	Capacity	Pdesign	kW	4.8	6.2
	Energy efficiency class			A+	A
	SCOP/A			4.06	3.81
	SCOPnet/A			4.09	3.84
	Pdh Heating capacity at -10°		kW	4.24	5.02
	Annual energy consumption		kWh/a	1,654	2,275
	Required back up heating cap at design conditions		kW	0.56	1.18
Space heating (Warm climate)	Capacity	Pdesignh	kW	2.59	3.34
	Energy efficiency class			A+++	
	SCOP			5.17	5.23
	SCOPnet			5.24	5.29
	Annual energy consumption		kWh/a	702	894
	Required back up heating cap at design conditions		kW	0	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	6	7.1
		EERd		3.25	2.56
		Power input	kW	1.85	2.77
	B Condition (30°C - 27/19)	Pdc	kW	4.43	5.24
		EERd		4.17	3.98
		Power input	kW	1.06	1.32
	C Condition (25°C - 27/19)	Pdc	kW	2.85	3.37
		EERd		7.21	6.14
		Power input	kW	0.4	0.55
	D Condition (20°C - 27/19)	Pdc	kW	2.39	2.6
		EERd		12.05	8.11
		Power input	kW	0.2	0.32

2 Specifications

2 - 1 Specifications

Technical specifications					FTXF60D + RXF60D9	FTXF71D + RXF71D9
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10	
	TBivalent	Tbiv (bivalent temperature)		°C	-7	
		Pdh (declared heating cap)		kW	4.25	5.49
		COPd (declared COP)			2.22	
		Power input		kW	1.91	2.47
	A Condition (-7°C)	Pdh (declared heating cap)		kW	4.25	5.49
		COPd (declared COP)			2.22	
		Power input		kW	1.91	2.47
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.59	3.34
		COPd (declared COP)			4.28	3.91
		Power input		kW	0.61	0.85
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.67	2.15
		COPd (declared COP)			5.24	4.72
		Power input		kW	0.32	0.46
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.03	1.55
		COPd (declared COP)			6.41	6.74
		Power input		kW	0.32	0.23
	E condition (-10°C)	Pdh (declared heating cap)		kW	4.21	5.01
		COPd (declared COP)			2.25	2.24
		Power input		kW	1.81	1.89
Space heating (Warm climate)	TOL	Tol (temperature operating limit)		°C	-15	
	TBivalent	Tbiv (bivalent temperature)		°C	2	
		Pdh (declared heating cap)		kW	2.59	3.34
		COPd (declared COP)			4.28	3.91
		Power input		kW	0.61	0.85
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.59	3.34
		COPd (declared COP)			4.28	3.91
		Power input		kW	0.61	0.85
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.67	2.15
		COPd (declared COP)			5.24	4.72
		Power input		kW	0.32	0.46
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.03	1.55
		COPd (declared COP)			6.41	6.74
		Power input		kW	0.32	0.23
	E condition (2°C)	Pdh (declared heating cap)		kW	4.22	4.24
		COPd (declared COP)			2.33	2.24
		Power input		kW	1.81	1.89
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0	
	Off mode	POFF		W	1	
	Standby mode	Cooling	PSB	W	1	
		Heating	PSB	W	1	
	Thermo-stat-off mode	PTO	Cooling	W	12	14
			Heating	W	13	14
Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					Yes	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	63	66
	Sound power level indoor	Cooling	Nom.	dBA	60	62
	Piping length	Cooling	Measuring condition	m	5	

Electrical specifications				FTXF60D + RXF60D9	FTXF71D + RXF71D9
Power factor	Nominal	Cooling	%	99.1	98.8
		Heating	%	98.3	98.4
Current	Nominal running current (RLA) - 50Hz	Heating	A	7.2	11.5
Current - 50Hz	Maximum fuse amps (MFA)		A	20	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range |
See separate drawing for electrical data

2 Specifications

2 - 1 Specifications

Technical Specifications					RXF60D9	RXF71D9
Casing	Colour				Ivory white	
Dimensions	Unit	Height		mm	734	
		Width		mm	870	
		Depth		mm	373	
	Packed unit	Height		mm	820	
		Width		mm	1,050	
		Depth		mm	480	
Weight	Unit			kg	50	
	Packed unit			kg	54	
Packing	Weight			kg	4	
Heat exchanger	Length			mm	920	
	Rows	Quantity			2	
	Fin pitch			mm	1.4	
	Stages	Quantity			32	
	Passes	Quantity			2.2	
	Tube type				ø7 Hi-XD	
	Fin	Type			Waffle fin (PE)	
Fan	Type				Propeller fan	
	Air flow rate	Cooling	Nom.	m^3/min	47.8	
				cfm	1,689	
		Heating	Nom.	m^3/min	45.3	
				cfm	1,600	
Fan motor	Model				DFC07A1VA	
	Output			W	81	
	Speed	Cooling	High	rpm	760	
			Nom.	rpm	740	
			Low	rpm	740	
		Heating	High	rpm	660	
			Nom.	rpm	660	
			Low	rpm	660	
Compressor	Model				2Y147BKBX1P#D	
	Oil Amount			cm^3	650	
	Type				Hermetically sealed swing compressor	
	Output			W	1,300	
	Oil Type				FW68DA	
Operation range	Cooling	Ambient	Min.	°CDB	-10	
			Max.	°CDB	48	
	Heating	Ambient	Min.	°CWB	-15	
				°CDB	10	
			Max.	°CWB	18	
				°CDB	30	
Sound power level	Cooling	Nom.		dBA	63	66
	Heating	Nom.		dBA	63	65
Sound pressure level	Cooling	Nom.		dBA	49	52
	Heating	Nom.		dBA	49	52
Refrigerant	Type				R-32	
	Charge			kg	1.15	
	Charge			tCO2Eq	0.78	
	GWP				675	
Piping connections	Liquid	OD		mm	6.35	
	Gas	OD		mm	12.7	
	Drain	OD		mm	16	
	Piping length	OU - IU	Max.	m	30	
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)	
	Level difference	IU - OU	Max.	m	20	
	Heat insulation				Both liquid and gas pipes	
Capacity control	Method				Inverter controlled	

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Refrigerant charge label;Quantity: 1;

Standard accessories: Multilingual fluorinated greenhouse gases labels;Quantity: 1;

Standard accessories: Drain cap;Quantity: 3;

Standard accessories: Drain plug;Quantity: 1;

Electrical Specifications			RXF60D9	RXF71D9
Power supply	Phase		1~	
	Frequency	Hz	50	
	Voltage	V	220-240	

2 Specifications

2 - 1 Specifications

Electrical Specifications				RXF60D9	RXF71D9
Wiring connections	For power supply	Quantity		3	
		Remark		Earth wire included	
	For connection with indoor	Quantity		4	
		Remark		Earth wire included	
Current - 50Hz	Maximum fuse amps (MFA)	Maximum fuse amps (MFA)	A	16	

See separate drawing for operation range |
See separate drawing for electrical data |
Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

RXF50D

RXF60-71D9

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Outdoor unit	Indoor unit	Hz	Voltage	Voltage range	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
ARXF50A6V1B	ATXF50A2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15.13	16	54	7.1	0.066	0.83	0.045	0.43
		50	230					6.9				
		50	240					6.8				
ARXF60A5V1B9	ATXF60A2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15.16	16	66	8.2	0.066	0.83	0.049	0.46
		50	230					8.1				
		50	240					8.0				
ARXF71A5V1B9	ATXF71A2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15.16	16	84	12.3	0.066	0.83	0.049	0.46
		50	230					12.2				
		50	240					12.1				
RXF50D6V1B	FTXF50D2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15.13	16	54	7.1	0.066	0.83	0.045	0.43
		50	230					6.9				
		50	240					6.8				
RXF60D5V1B9	FTXF60D2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15.16	16	66	8.2	0.066	0.83	0.049	0.46
		50	230					8.1				
		50	240					8.0				
RXF71D5V1B9	FTXF71D2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15.16	16	84	12.3	0.066	0.83	0.049	0.46
		50	230					12.2				
		50	240					12.1				

Symbols

MCA: Minimum Circuit Amperes [A]
MFA: Maximum Fuse Amperes [A]
COMP: Compressor
RHz: Rated operating frequency [Hz]
RLA: Rated Load Amperes [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
kW: Fan motor rated output [kW]
FLA: Full Load Amperes [A]
MAX.: Maximum
MIN.: Minimum

Notes

1) The ·RLA· is based on the following conditions.
   Outdoor temperature ·35·°C DB
   Indoor temperature ·27·°C DB / ·19·°C WB
2) Select the wire size according to the MCA.
3) The maximum allowable voltage that is unbalanced between phases is ·2·%.
4) Use a circuit breaker instead of a fuse.

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXF60D / RXF60D9

Cooling ·50Hz 230V·

AFR	17.3
BF	0.27

Indoor temperature		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	6.15	4.35	1.42	5.87	4.20	1.55	5.59	4.05	1.69	5.48	4.00	1.74	5.31	3.91	1.83	5.03	3.77	1.97
16.0	22	6.42	4.27	1.43	6.14	4.13	1.56	5.86	4.00	1.70	5.75	3.94	1.76	5.59	3.86	1.83	5.31	3.73	1.97
18.0	25	6.70	4.44	1.44	6.42	4.31	1.58	6.14	4.18	1.71	6.03	4.13	1.77	5.86	4.05	1.85	5.58	3.93	1.98
19.0	27	6.84	4.65	1.44	6.56	4.52	1.58	6.28	4.40	1.71	6.17	4.35	1.77	6.00	4.28	1.85	5.72	4.16	1.99
22.0	30	7.25	4.47	1.45	6.97	4.36	1.59	6.69	4.25	1.72	6.58	4.21	1.78	6.41	4.14	1.86	6.14	4.04	2.00
24.0	32	7.53	4.34	1.46	7.25	4.24	1.60	6.97	4.14	1.73	6.86	4.10	1.79	6.69	4.04	1.87	6.41	3.94	2.00

Heating ·50Hz 230V·

AFR	17.9

Indoor temperature	Outdoor temperature [°C WB]											
EDB	-15		-10		-5		0		6		10	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.04	1.05	3.67	1.11	4.28	1.16	4.89	1.51	6.62	1.60	7.20	1.65
20.0	2.86	1.08	3.47	1.13	4.09	1.18	4.70	1.55	6.40	1.63	6.98	1.68
22.0	2.79	1.09	3.40	1.14	4.01	1.20	4.63	1.56	6.31	1.65	6.89	1.70
24.0	2.71	1.10	3.33	1.16	3.94	1.21	4.55	1.58	6.23	1.66	6.80	1.71
25.0	2.67	1.11	3.28	1.16	3.90	1.22	4.52	1.59	6.18	1.66	6.76	1.72
27.0	2.60	1.11	3.21	1.17	3.82	1.22	4.43	1.60	6.09	1.68	6.67	1.73

Symbols
- AFR: Air flow rate [m³/min]
- BF : Bypass factor
- EWB : Entering wet-bulb temperature (°C WB)
- EDB: Entering dry-bulb temperature (°C DB)
- TC: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI : Power input [kW]

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The bold cells indicate the standard conditions.
   Rated operating frequency [Hz]
3. The capacities are based on the following conditions:
   Corresponding refrigerant piping length: ·5· m
   Level difference: ·0·m
4. The air flow rate and bypass factor are mentioned in the table.

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FTXF71D / RXF71D9

Cooling ·50Hz 230V·

AFR	17.3
BF	0.27

Indoor temperature		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	7.28	5.14	2.14	6.95	4.97	2.33	6.61	4.79	2.48	6.48	4.73	2.61	6.28	4.62	2.74	5.95	4.46	2.94
16.0	22	7.60	5.05	2.15	7.27	4.88	2.34	6.93	4.73	2.50	6.80	4.66	2.64	6.61	4.56	2.74	6.28	4.41	2.94
18.0	25	7.93	5.25	2.17	7.60	5.10	2.37	7.27	4.94	2.50	7.14	4.88	2.64	6.93	4.79	2.77	6.60	4.65	2.96
19.0	27	8.09	5.50	2.17	7.76	5.34	2.37	7.43	5.20	2.50	7.30	5.14	2.64	7.10	5.06	2.77	6.77	4.92	2.97
22.0	30	8.58	5.28	2.20	8.25	5.15	2.38	7.92	5.02	2.52	7.79	4.98	2.66	7.58	4.89	2.79	7.27	4.78	2.99
24.0	32	8.91	5.13	2.19	8.58	5.01	2.40	8.25	4.89	2.54	8.12	4.85	2.68	7.92	4.78	2.79	7.58	4.66	2.99

Heating ·50Hz 230V·

AFR	17.9

Indoor temperature	Outdoor temperature [°C WB]											
EDB	-15		-10		-5		0		6		10	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.90	1.79	4.70	1.87	5.48	1.94	6.26	2.02	8.48	2.56	9.22	2.63
20.0	3.67	1.83	4.45	1.90	5.24	1.97	6.03	2.09	8.20	2.60	8.94	2.67
22.0	3.57	1.85	4.36	1.92	5.14	2.00	5.92	2.10	8.08	2.63	8.83	2.70
24.0	3.47	1.86	4.26	1.94	5.05	2.01	5.83	2.13	7.98	2.64	8.72	2.71
25.0	3.42	1.87	4.21	1.96	5.00	2.03	5.79	2.14	7.92	2.66	8.66	2.73
27.0	3.33	1.88	4.11	1.96	4.90	2.03	5.69	2.16	7.80	2.67	8.54	2.74

Symbols
- AFR: Air flow rate [m³/min]
- BF: Bypass factor
- EWB: Entering wet-bulb temperature (°C WB)
- EDB: Entering dry-bulb temperature (°C DB)
- TC: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The bold cells indicate the standard conditions.
   Rated operating frequency [Hz]
3. The capacities are based on the following conditions:
   Corresponding refrigerant piping length: ·5· m
   Level difference: ·0·m
4. The air flow rate and bypass factor are mentioned in the table.

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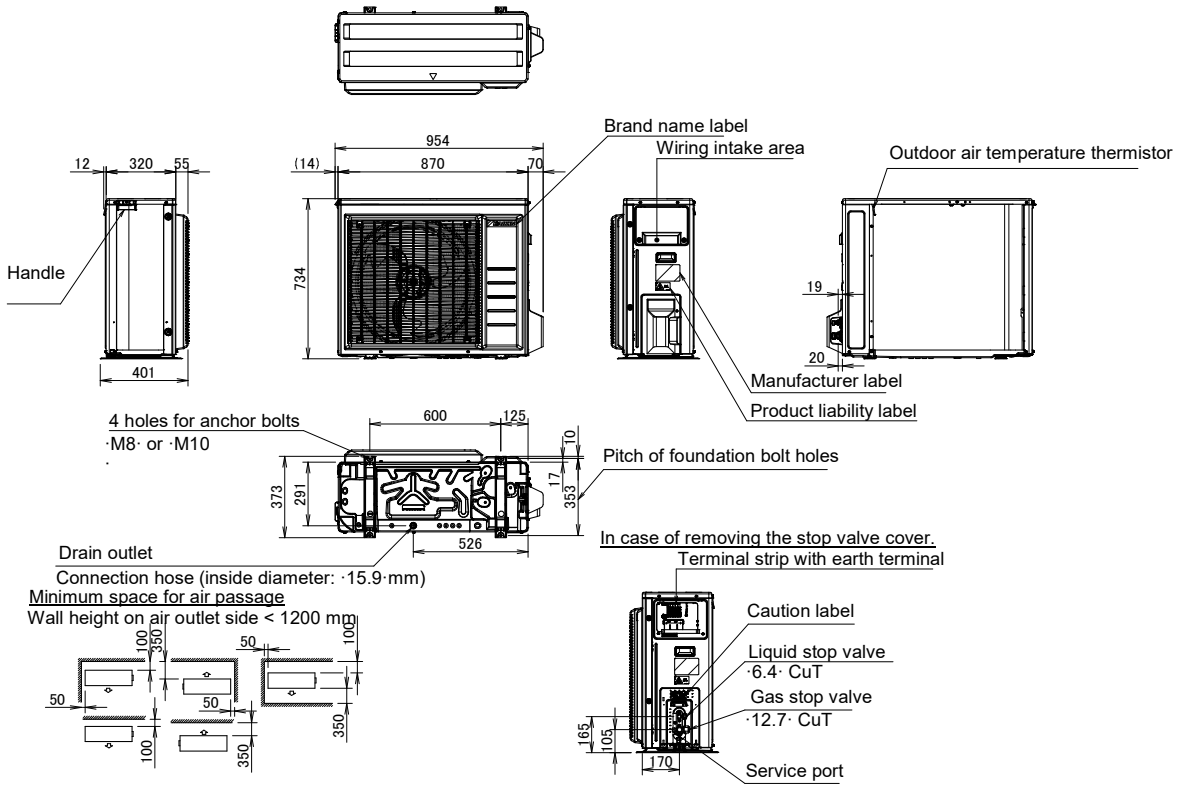
5 Dimensional drawings

5 - 1 Dimensional Drawings

RXF50D
RXF60-71D9



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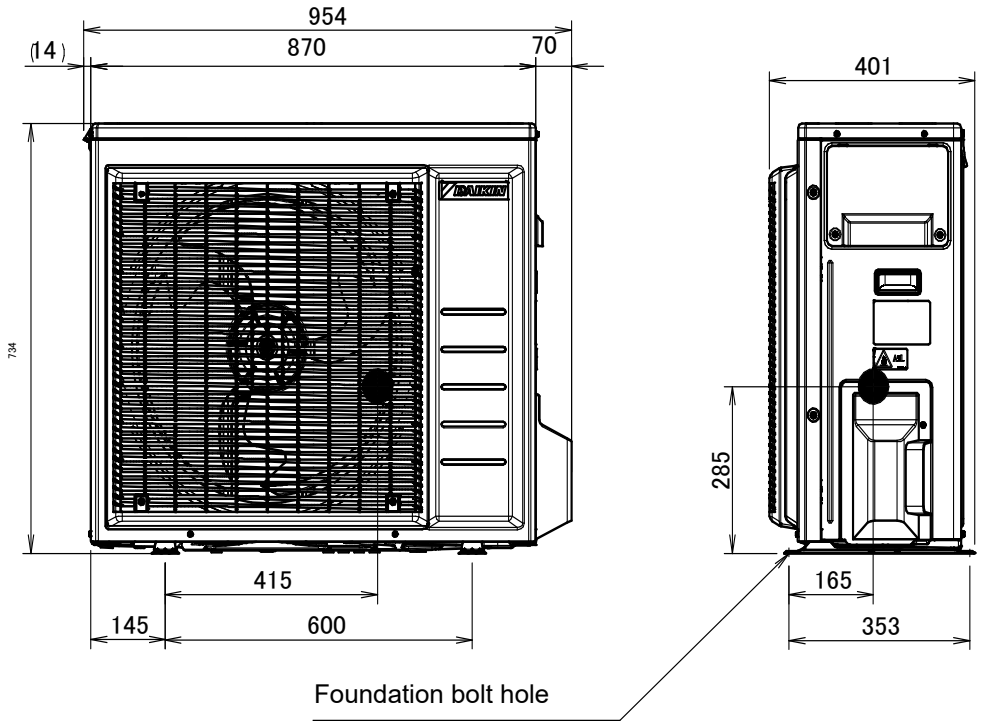
6 Centre of gravity

6 - 1 Centre of Gravity

RXF60-71D9



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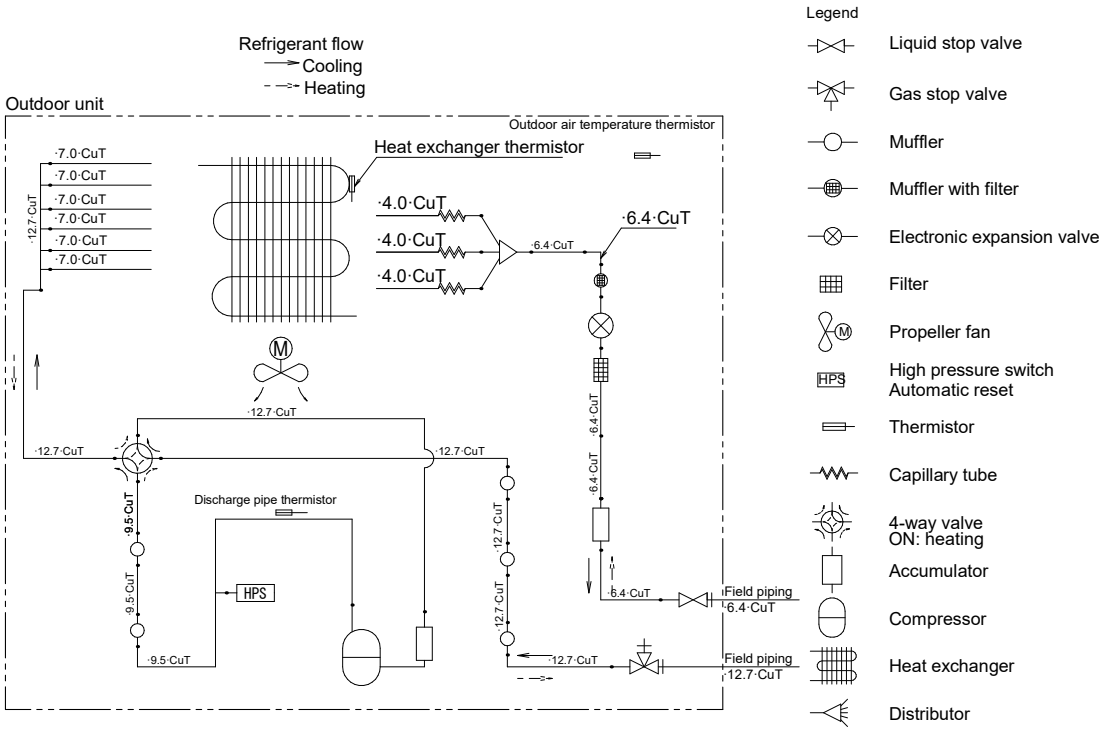
7 Piping diagrams

7 - 1 Piping Diagrams

RXF60-71D9



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8 Wiring diagrams

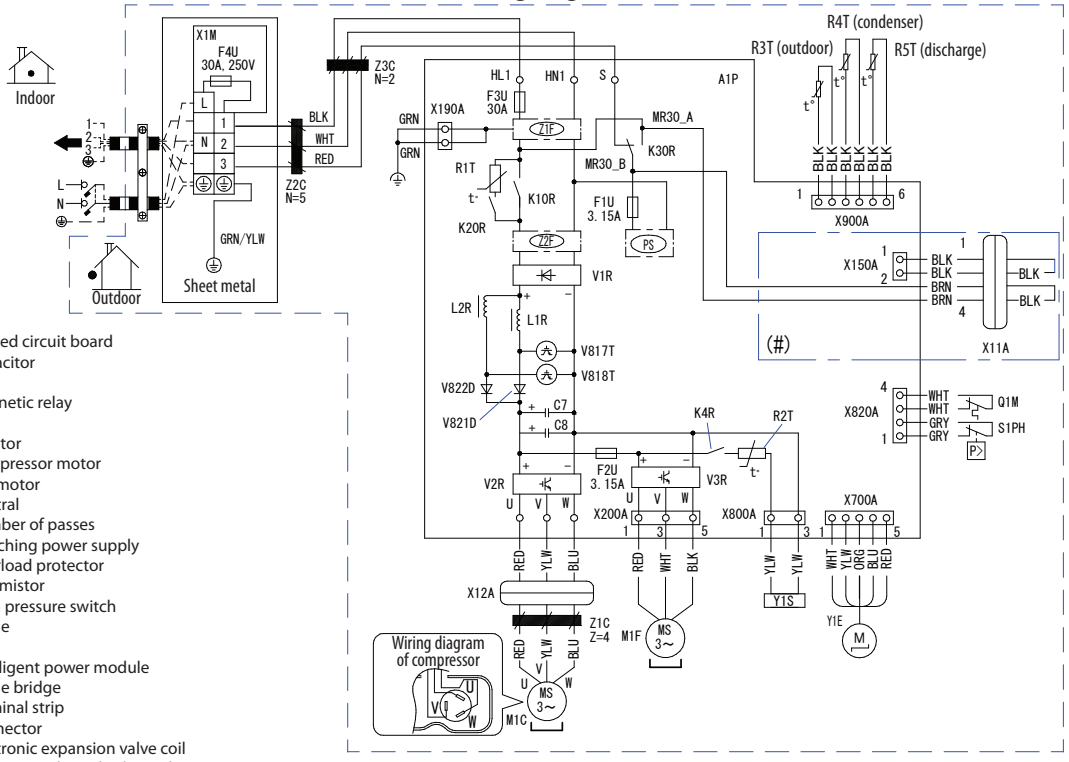
8 - 1 Wiring Diagrams - Single Phase

RXF50D
RXF60-71D9

Field wiring

BLK : Black
BLU : Blue
BRN : Brown
GRN : Green
GRY : Grey
ORG : Orange
YLW : Yellow
RED : Red

Wiring diagram



A1P	Printed circuit board
C7,C8	Capacitor
F1U, F2U, F3U, F4U	Fuse
K4R, K10R, K20R, K30R	Magnetic relay
L	Live
L1R,L2R	Reactor
M1C	Compressor motor
M1F	Fan motor
N	Neutral
N=2,N=4,N=5	Number of passes
PS	Switching power supply
Q1M	Overload protector
R1T~R5T	Thermistor
S1PH	High pressure switch
V821D, V822D	Diode
V817T, V818T	IGBT
V2R, V3R	Intelligent power module
V1R	Diode bridge
X1M	Terminal strip
X1A~X900A	Connector
Y1E	Electronic expansion valve coil
Y1S	Reversing solenoid valve coil
Z1C, Z2C, Z3C	Ferrite core
Z1F, Z2F	Noise filter
⏚	Protective earth
⏚	Noiseless earth

NOTES

1. Refer to the nameplate for the power requirements.
2. Do not remove or replace fuse when the units are energized.
3. (#) Only for the units with the suspend connector specified in the installation manual.

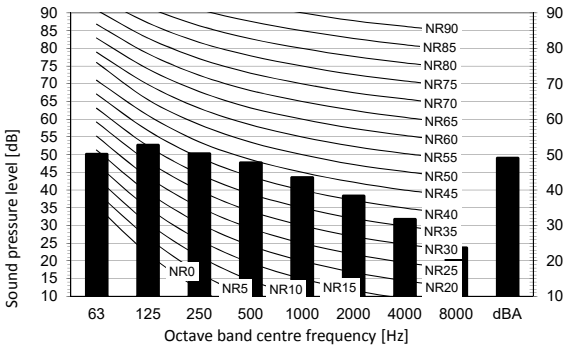
3D150217

9 Sound data

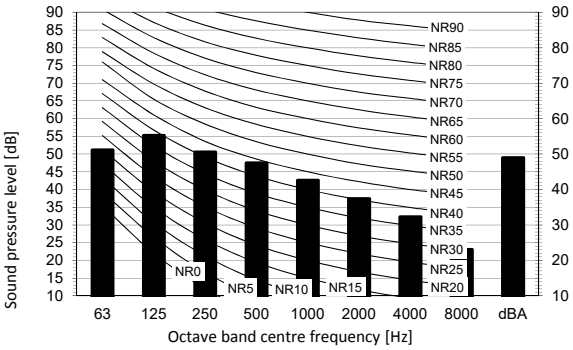
9 - 1 Sound Pressure Spectrum

RXF60D
RXF60D9

Cooling mode



Heating mode



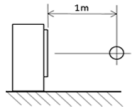
Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale
B ■ Fan speed: High

Cooling	Total dB
A	B
dBA	49

Heating	Total dB
A	B
dBA	49

Location of microphone



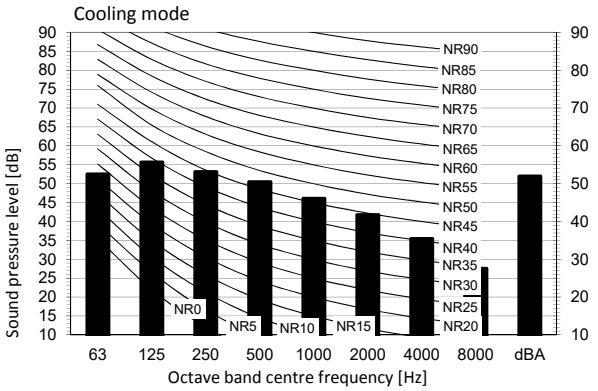
Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

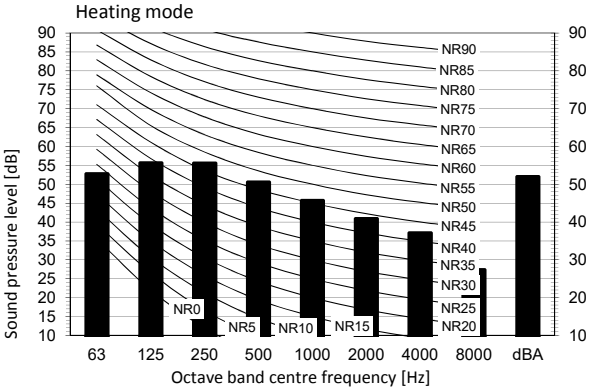
3D115242

RXF71D
RXF71D9

Cooling mode



Heating mode



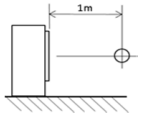
Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale
B ■ Fan speed: High

Cooling	Total dB
A	B
dBA	52

Heating	Total dB
A	B
dBA	52

Location of microphone



Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

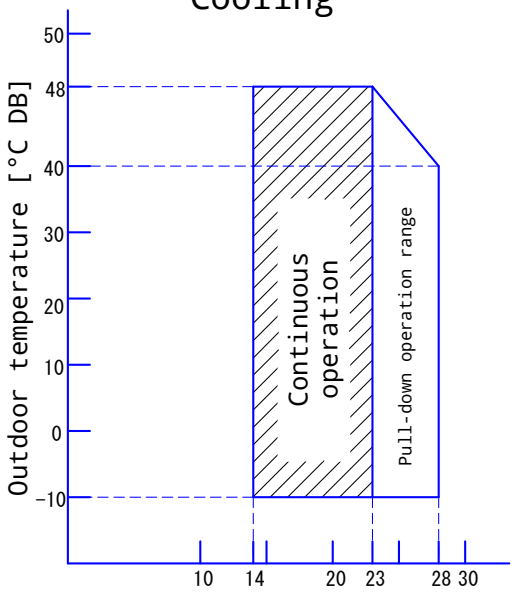
3D115243

10 Operation range

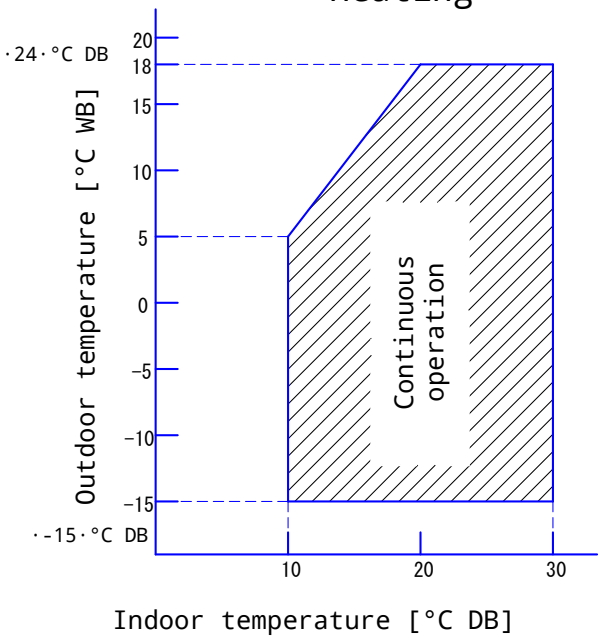
10 - 1 Operation Range

RXF50-71D
RXF60-71D9

Cooling



Heating



The ·graphs· is based on the following conditions.
Corresponding refrigerant piping length: ·5· m
Level difference: ·0·m
Air flow rate High

3D136807

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