

Air Conditioning
Technical Data

RXF-B



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RXF-B

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1 Features

- 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

2 Specifications

2-1 Capacity and Power input				FTXF20B/RXF20B		FTXF25B/RXF25B	
Indoor unit				FTXF20B5V1B		FTXF25B5V1B	
Outdoor unit				RXF20B5V1B		RXF25B5V1B	
Cooling capacity	Min.		kW	1.3			
			Btu/h	4,435.8			
			kcal/h	1,117.8			
	Nom.		kW	2.00		2.50	
			Btu/h	6,824.3		8,530.4	
			kcal/h	1,719.7		2,149.6	
	Max.		kW	2.6		3.0	
			Btu/h	8,871.6		10,236.4	
			kcal/h	2,235.6		2,579.5	
Heating capacity	Min.		kW	1.30			
			Btu/h	4,435.8			
			kcal/h	1,117.8			
	Nom.		kW	2.50		2.80	
			Btu/h	8,530.4		9,554.0	
			kcal/h	2,149.6		2,407.6	
	Max.		kW	3.50		4.00	
			Btu/h	11,942.5		13,648.6	
			kcal/h	3,009.5		3,439.4	
Power input	Cooling	Min.	kW	0.31			
		Nom.	kW	0.51		0.76	
		Max.	kW	0.72		1.05	
	Heating	Min.	kW	0.25			
		Nom.	kW	0.60		0.70	
		Max.	kW	0.95		1.11	
Space cooling	Capacity	Pdesign	kW	2.00		2.50	
	Energy efficiency class			A++			
	SEER			6.15		6.22	
	Annual energy consumption		kWh/a	114		141	
	A Condition (35°C - 27/19)	Pdc	kW	2.00		2.50	
		EERd		3.94		3.30	
		Power input	kW	0.51		0.76	
	B Condition (30°C - 27/19)	Pdc	kW	1.47		1.84	
		EERd		4.57		4.64	
		Power input	kW	0.32		0.40	
	C Condition (25°C - 27/19)	Pdc	kW	1.24		1.45	
		EERd		7.58		7.68	
		Power input	kW	0.16		0.19	
	D Condition (20°C - 27/19)	Pdc	kW	1.32		1.34	
		EERd		11.72		12.09	
		Power input	kW	0.11			

2 Specifications

2-1 Capacity and Power input					FTXF20B/RXF20B		FTXF25B/RXF25B		
Space heating (Average climate)	Capacity	Pdesign	kW		2.20		2.40		
	Energy efficiency class				A+				
	SCOP/A				4.10		4.06		
	SCOPnet/A				4.13		4.09		
	Pdh Heating capacity at -10°		kW		1.99		2.10		
	Annual energy consumption		kWh/a		751		827		
	Required back up heating cap at design conditions		kW		0.21		0.30		
	TOL	Tol (temperature operating limit)	°C	-15					
				Pdh (declared heating cap)	kW	2.05		2.07	
				COPd (declared COP)		2.02		2.04	
				Power input	kW	1.02		1.01	
	TBivalent	Tbiv (bivalent temperature)	°C	-7					
				Pdh (declared heating cap)	kW	1.95		2.12	
				COPd (declared COP)		2.87		2.80	
				Power input	kW	0.68		0.76	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	1.95		2.12			
		COPd (declared COP)		2.87		2.80			
		Power input	kW	0.68		0.76			
	B Condition (2°C)	Pdh (declared heating cap)	kW	1.18		1.29			
		COPd (declared COP)		4.10		4.04			
		Power input	kW	0.29		0.32			
	C Condition (7°C)	Pdh (declared heating cap)	kW	0.91		0.93			
		COPd (declared COP)		5.16		5.13			
		Power input	kW	0.18					
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.09		1.11			
		COPd (declared COP)		6.60		6.57			
		Power input	kW	0.17					
Current	Nominal running current (RLA) - 50Hz	Cooling	A	2.50		3.82			
		Heating	A	3.00		3.20			
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				
Ecolabel logo					No				
Eurovent	Sound power level outdoor	Cooling	Nom.	dBa	60				
	Sound power level indoor	Cooling	Nom.	dBa	55				
	Piping length	Cooling	Measuring condition	m	5.0				
Nominal efficiency	EER				3.94		3.30		
	COP				4.19		4.01		
	Energy labeling Directive	Cooling			A				
		Heating			A				

2 Specifications

2-1 Capacity and Power input					FTXF20B/RXF20B	FTXF25B/RXF25B
Power consumption in other than active mode	Thermostat-off mode	PTO	Cooling	W	12	
			Heating	W	12	
	Crankcase heater mode	PCK		W	0.0	
	Off mode	POFF		W	1.0	
	Standby mode	Cooling	PSB	W	1.0	
		Heating	PSB	W	1.0	
Power factor	Nominal	Cooling		%	88.6 (1)	85.8 (1)
		Heating		%	85.5 (1)	93.8 (1)
Space heating (Warm climate)	Capacity	Pdesignh		kW	1.18	1.29
	Energy efficiency class				A++	
	SCOP				4.99	5.02
	SCOPnet				5.13	5.15
	Annual energy consumption			kWh/a	331	360
	Required back up heating cap at design conditions			kW	0.00	
	TOL	Tol (temperature operating limit)		°C	-15	
		Pdh (declared heating cap)		kW	2.05	2.07
		COPd (declared COP)			2.02	2.04
		Power input		kW	1.02	1.01
	TBivalent	Tbiv (bivalent temperature)		°C	2	
		Pdh (declared heating cap)		kW	1.18	1.29
		COPd (declared COP)			4.10	4.04
		Power input		kW	0.29	0.32
	B Condition (2°C)	Pdh (declared heating cap)		kW	1.18	1.29
		COPd (declared COP)			4.10	4.04
		Power input		kW	0.29	0.32
	C Condition (7°C)	Pdh (declared heating cap)		kW	0.91	0.93
		COPd (declared COP)			5.16	5.13
		Power input		kW	0.18	
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.09	1.11
		COPd (declared COP)			6.60	6.57
		Power input		kW	0.17	

Notes

(1) See separate drawing for electrical data

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.

2-2 Capacity and Power input					FTXF50A/RXF50B	FTXF60A/RXF60B
Indoor unit					FTXF50A2V1B	FTXF60A2V1B
Outdoor unit					RXF50B2V1B	RXF60B2V1B
Cooling capacity	Min.	kW			1.70	
		Btu/h			5,800	
		kcal/h			1,462	
	Nom.	kW			5.00	6.00
		Btu/h			17,100	20,500
		kcal/h			4,299	5,159
	Max.	kW			6.00	7.00
		Btu/h			20,500	23,900
		kcal/h			5,159	6,019

2 Specifications

2-2 Capacity and Power input				FTXF50A/RXF50B	FTXF60A/RXF60B
Heating capacity	Min.		kW	1.70	
			Btu/h	5,800	
			kcal/h	1,500	
	Nom.		kW	6.00	6.40
			Btu/h	20,500	21,800
			kcal/h	5,159	5,503
	Max.		kW	7.70	8.00
			Btu/h	26,300	27,300
			kcal/h	6,621	6,879
Power input	Cooling	Nom.	kW	1.50	1.85
	Heating	Nom.	kW	1.62	1.63
Space cooling	Capacity	Pdesign	kW	5.00	6.00
	Energy efficiency class			A++	
	SEER			6.21	6.15
	Annual energy consumption			kWh/a	282
	A Condition (35°C - 27/19)	Pdc	kW	5.00	6.00
		EERd		3.33	3.25
		Power input	kW	1.50	1.85
	B Condition (30°C - 27/19)	Pdc	kW	3.68	4.42
		EERd		4.67	4.18
		Power input	kW	0.79	1.06
	C Condition (25°C - 27/19)	Pdc	kW	2.37	2.84
		EERd		6.92	7.21
		Power input	kW	0.34	0.39
	D Condition (20°C - 27/19)	Pdc	kW	2.12	2.39
		EERd		11.68	12.05
		Power input	kW	0.18	0.20

2 Specifications

2-2 Capacity and Power input					FTXF50A/RXF50B		FTXF60A/RXF60B			
Space heating (Average climate)	Capacity	Pdesign		kW	4.60		4.80			
	Energy efficiency class				A+					
	SCOP/A				4.06					
	SCOPnet/A				4.09					
	Pdh Heating capacity at -10°			kW	4.12		4.24			
	Annual energy consumption			kWh/a	1,585		1,653			
	Required back up heating cap at design conditions			kW	0.48		0.56			
	TOL	Tol (temperature operating limit)	°C	-15						
				Pdh (declared heating cap)		kW	4.20		4.22	
				COPd (declared COP)		2.06		1.81		
				Power input		kW	2.04		2.33	
	TBivalent	Tbiv (bivalent temperature)	°C	-7						
				Pdh (declared heating cap)		kW	4.07		4.25	
				COPd (declared COP)		2.71		2.25		
				Power input		kW	1.50		1.89	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.07		4.25				
				COPd (declared COP)		2.71		2.25		
				Power input		kW	1.50		1.89	
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.48		2.58				
				COPd (declared COP)		3.98		4.28		
				Power input		kW	0.62		0.60	
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.59		1.66				
				COPd (declared COP)		5.13		5.24		
				Power input		kW	0.31		0.32	
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.80		2.00				
				COPd (declared COP)		6.91		6.41		
				Power input		kW	0.26		0.31	
	Current	Nominal running current (RLA) - 50Hz	Cooling	A	6.90		8.10			
			Heating	A	7.30		7.20			
	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	61		63			
	Sound power level indoor	Cooling	Nom.	dBA	59		60			
	Piping length	Cooling	Measuring condition	m	5.00					
Nominal efficiency	EER				3.33		3.25			
	COP				3.71		3.93			
	Annual energy consumption			kWh	751		923			
	Energy labeling Directive	Cooling			A					
		Heating			A					

2 Specifications

2-2 Capacity and Power input					FTXF50A/RXF50B		FTXF60A/RXF60B	
Power consumption in other than active mode	Thermostat-off mode	PTO	Cooling	W	12			
			Heating	W	12			
	Crankcase heater mode	PCK		W	0			
	Off mode	POFF		W	1			
	Standby mode	Cooling	PSB	W	1			
		Heating	PSB	W	1			
Power factor	Nominal	Cooling		%	94.60 (1)		99.10 (1)	
		Heating		%	96.30 (1)		98.30 (1)	
Space heating (Warm climate)	Capacity	Pdesignh		kW	2.48		2.58	
	Energy efficiency class				A+++			
	SCOP				5.32		5.17	
	SCOPnet				5.39		5.24	
	Annual energy consumption			kWh/a	653		699	
	Required back up heating cap at design conditions			kW	0.00			
	TOL	Tol (temperature operating limit)	°C		-15			
			Pdh (declared heating cap)	kW	4.20		4.22	
		COPd (declared COP)		2.06		1.81		
		Power input		kW	2.04		2.33	
	TBivalent	Tbiv (bivalent temperature)	°C		2			
			Pdh (declared heating cap)	kW	2.48		2.58	
		COPd (declared COP)		3.98		4.28		
		Power input		kW	0.62		0.60	
	B Condition (2°C)	Pdh (declared heating cap)	kW		2.48		2.58	
		COPd (declared COP)		3.98		4.28		
		Power input		kW	0.62		0.60	
	C Condition (7°C)	Pdh (declared heating cap)	kW		1.59		1.66	
		COPd (declared COP)		5.13		5.24		
		Power input		kW	0.31		0.32	
	D Condition (12°C)	Pdh (declared heating cap)	kW		1.80		2.00	
		COPd (declared COP)		6.91		6.41		
		Power input		kW	0.26		0.31	

Notes

(1) See separate drawing for electrical data

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

2-3 Technical Specifications				RXF20B	RXF25B	RXF50B	RXF60B
Capacity control	Method			Variable (inverter)			
Casing	Colour			Ivory white			
Dimensions	Unit	Height	mm	550		734	
		Width	mm	658		870	
		Depth	mm	275		373	
	Packed unit	Height	mm	630		820	
		Width	mm	790		1,050	
		Depth	mm	400		480	
Weight	Unit		kg	26		46.0	50.0
	Packed unit		kg	28		50.0	54.0

2 Specifications

2-3 Technical Specifications					RXF20B		RXF25B		RXF50B		RXF60B	
Packing	Weight			kg	2				4.0			
Heat exchanger	Length			mm	670				943		920	
	Rows		Quantity		1						2	
	Fin pitch			mm	1.40							
	Stages		Quantity		24				32			
	Passes		Quantity		1.6				2.2			
	Tube type				ø7 Hi-XD							
	Tube material				Copper				-			
	Fin		Type		Waffle fin (PE)							
Compressor	Model				1YC25KXD#D				2YC40JXD#C			
	Oil Amount			cm³	375				650			
	Type				Hermetically sealed swing compressor							
	Output			W	870				1,300.0			
	Oil Type				FW68DA							
Fan	Type				Propeller				Propeller fan			
	Air flow rate	Cooling	High	m³/min	27.6				-			
				cfm	975				-			
			Nom.	m³/min	-				43.2		47.8	
				cfm	-				1,527		1,689	
	Heating	High	m³/min	27.1	28.0		-					
			cfm	957	990		-					
		Nom.	m³/min	-				43.2		45.3		
			cfm	-				1,527		1,600		
Fan motor	Model				ZWA138S28A				D55F-31			
	Insulation grade				Class "E"				-			
	Output			W	21				58		81	
	Speed	Cooling	High	rpm	840				740		760	
			Nom.	rpm	-				710		740	
			Low	rpm	700				710		740	
		Heating	High	rpm	870	900		710		660		
			Nom.	rpm	-				710		660	
			Low	rpm	720				630		660	
Sound power level	Cooling			dBA	60				61		63	
	Heating			dBA	61				63			
Sound pressure level	Cooling	High		dBA	46				-			
		Nom.		dBA	-				47		49	
	Heating	High		dBA	47				-			
		Nom.		dBA	-				49			
Operation range	Cooling	Ambient	Min.	°CDB	-10							
			Max.	°CDB	46							
	Heating	Ambient	Min.	°CWB	-15							
			Max.	°CWB	18							
			Max.	°CDB	24							
Refrigerant	Type				R-32							
	Charge			kg	0.55				0.90		1.15	
				TCO ₂ eq	0.37				0.61		0.78	
	GWP				675.0							
Piping connections	Liquid	OD		mm	6.35				6.4			
	Gas	OD		mm	9.5				12.7			
	Drain	OD		mm	18				16			
	Piping length	OU - IU	Max.	m	15				30			
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)							
	Level difference	IU - OU	Max.	m	12				20			
	Heat insulation				-				Both liquid and gas pipes			

Standard Accessories : Drain plug; Quantity : 1;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Refrigerant charge label; Quantity : 1;

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

2 Specifications

Standard Accessories : General safety precautions; Quantity : 1;

Standard Accessories : Drain cap (1); Quantity : 6;

Standard Accessories : Drain cap (2); Quantity : 3;

2

2-4 Electrical Specifications			RXF20B	RXF25B	RXF50B	RXF60B
Power supply	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-240			
Wiring connections	For power supply	Quantity	3			
		Remark	Earth wire included			
	For connection with indoor	Quantity	4			
		Remark	Earth wire included			

Notes

See separate drawing for operation range

See separate drawing for electrical data

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

RXF20-25B

Unit combination restrictions		Power supply						COMP		OFM		IFM	
Indoor unit	Outdoor units	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA	
FTXP20L2V1B	RXP20L5V1B	50	220	Maximum · 50-Hz · 264-V Minimum · 50-Hz · 198-V	10,4	16	36,0	2,8	0,024	0,17	0,024	0,34	
		50	230										
		50	240										
FTXP25L2V1B	RXP25L5V1B	50	220	Maximum · 50-Hz · 264-V Minimum · 50-Hz · 198-V	10,4	16	48,0	3,3	0,024	0,17	0,024	0,34	
		50	230										
		50	240										
FTXP35L2V1B	RXP35L5V1B	50	220	Maximum · 50-Hz · 264-V Minimum · 50-Hz · 198-V	10,4	16	70,0	4,7	0,021	0,16	0,037	0,45	
		50	230										
		50	240										
ATXP20L2V1B	ARXP20L5V1B	50	220	Maximum · 50-Hz · 264-V Minimum · 50-Hz · 198-V	10,4	16	36,0	2,8	0,024	0,17	0,024	0,34	
		50	230										
		50	240										
ATXP25L2V1B	ARXP25L5V1B	50	220	Maximum · 50-Hz · 264-V Minimum · 50-Hz · 198-V	10,4	16	48,0	3,3	0,024	0,17	0,024	0,34	
		50	230										
		50	240										
ATXP35L2V1B	ARXP35L5V1B	50	220	Maximum · 50-Hz · 264-V Minimum · 50-Hz · 198-V	10,4	16	70,0	4,7	0,021	0,16	0,037	0,45	
		50	230										
		50	240										
FTXF20B5V1B	RXF20B5V1B	50	220	Maximum · 50-Hz · 264-V Minimum · 50-Hz · 198-V	10,4	16	36,0	2,8	0,024	0,17	0,024	0,34	
		50	230										
		50	240										
FTXF25B5V1B	RXF25B5V1B	50	220	Maximum · 50-Hz · 264-V Minimum · 50-Hz · 198-V	10,4	16	48,0	3,3	0,024	0,17	0,024	0,34	
		50	230										
		50	240										
FTXF35A2V1B	RXF35A5V1B	50	220	Maximum · 50-Hz · 264-V Minimum · 50-Hz · 198-V	10,4	16	70,0	4,7	0,021	0,16	0,037	0,45	
		50	230										
		50	240										

Symbols

- ① Hz
- ② Voltage
- ③ Voltage range

MCA: Minimum Circuit Amperes [A]

MFA: Maximum Fuse Amperes [A]

RLA: Rated Load Amperes [A]

COMP: Compressor

OFM: Outdoor fan motor

IFM: Indoor fan motor

FLA: Full Load Amperes [A]

kW: Fan motor rated output [kW]

RHz: Rated operating frequency [Hz]

Notes

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

3D114887

RXF50-60B

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor unit	Outdoor unit	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTXP50L2V1B	RXP50L2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,5	16	54	6,5	0,080	0,53	0,045	0,43
		50	230					6,3				
		50	240					6,1				
FTXP60L2V1B	RXP60L2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,7	16	66	8,1	0,058	0,38	0,049	0,46
		50	230					8,0				
		50	240					7,9				
FTXP71L2V1B	RXP71L2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,7	16	84	11,9	0,058	0,38	0,049	0,46
		50	230					11,8				
		50	240					11,7				
FTXF50A2V1B	RXF50B2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,5	20	54	7,1	0,068	0,34	0,045	0,43
		50	230					6,9				
		50	240					6,8				
FTXF60A2V1B	RXF60B2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,7	20	66	8,2	0,068	0,34	0,049	0,46
		50	230					8,1				
		50	240					8,0				
FTXF71A2V1B	RXF71A2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,7	20	84	12,3	0,068	0,34	0,049	0,46
		50	230					12,2				
		50	240					12,1				

Notes

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

Symbols

- ① Hz
 - ② Voltage
 - ③ Voltage range
- MCA Minimum Circuit Ampere [A]
MFA Maximum Fuse Ampere [A]
RLA Rated load amps [A]
- COMP Compressor
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere [A]
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]

3D115378A

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

4

FTXF20B / RXF20B

Cooling

·50· Hz ·230· V

AFR	9,8
BF	0,22

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	2,05	1,80	0,40	1,96	1,76	0,43	1,86	1,72	0,47	1,83	1,70	0,49	1,77	1,67	0,51	1,68	1,63	0,54
16,0	22	2,14	1,77	0,40	2,05	1,73	0,44	1,95	1,69	0,47	1,92	1,68	0,49	1,86	1,65	0,51	1,77	1,61	0,55
18,0	25	2,23	1,89	0,40	2,14	1,86	0,44	2,05	1,82	0,47	2,01	1,81	0,49	1,95	1,78	0,51	1,86	1,75	0,55
19,0	27	2,28	2,03	0,40	2,19	2,00	0,44	2,09	1,96	0,48	2,06	1,95	0,49	2,00	1,93	0,51	1,91	1,89	0,55
22,0	30	2,42	1,97	0,40	2,32	1,94	0,44	2,23	1,91	0,48	2,19	1,90	0,49	2,14	1,88	0,52	2,05	1,85	0,55
24,0	32	2,51	1,93	0,41	2,42	1,91	0,44	2,32	1,88	0,48	2,29	1,87	0,50	2,23	1,85	0,52	2,14	1,82	0,56

Heating

·50· Hz ·230· V

AFR	10,3
-----	------

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		1,19	0,39	1,43	0,40	1,67	0,42	1,92	0,56	2,59	0,59	2,81	0,61
20,0		1,12	0,40	1,36	0,41	1,60	0,44	1,84	0,57	2,50	0,60	2,73	0,62
22,0		1,09	0,40	1,33	0,42	1,57	0,44	1,81	0,57	2,47	0,61	2,69	0,63
24,0		1,06	0,40	1,30	0,42	1,54	0,45	1,78	0,59	2,43	0,61	2,66	0,63
25,0		1,04	0,41	1,28	0,42	1,52	0,45	1,76	0,59	2,41	0,62	2,64	0,63
27,0		1,01	0,41	1,25	0,44	1,49	0,45	1,74	0,59	2,38	0,62	2,61	0,64

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

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

3D126456

FTXF25B / RXF25B

Cooling

50 Hz 230 V

AFR	10,1
BF	0,22

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	2,56	2,08	0,59	2,44	2,03	0,64	2,33	1,97	0,69	2,28	1,95	0,71	2,21	1,92	0,75	2,10	1,86	0,80
16,0	22	2,68	2,05	0,59	2,56	1,99	0,64	2,44	1,94	0,70	2,40	1,92	0,72	2,33	1,89	0,76	2,21	1,84	0,81
18,0	25	2,79	2,17	0,59	2,68	2,12	0,64	2,56	2,07	0,70	2,51	2,06	0,72	2,44	2,03	0,76	2,33	1,98	0,81
19,0	27	2,85	2,31	0,59	2,73	2,27	0,64	2,62	2,22	0,70	2,57	2,20	0,72	2,50	2,18	0,76	2,38	2,13	0,81
22,0	30	3,02	2,24	0,60	2,91	2,20	0,65	2,79	2,16	0,71	2,74	2,14	0,73	2,67	2,12	0,77	2,56	2,08	0,81
24,0	32	3,14	2,19	0,60	3,02	2,15	0,65	2,90	2,12	0,71	2,86	2,10	0,73	2,79	2,08	0,77	2,67	2,04	0,83

Heating

50 Hz 230 V

AFR	10,3
-----	------

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		1,33	0,45	1,61	0,48	1,87	0,50	2,15	0,65	2,89	0,68	3,15	0,71
20,0		1,25	0,47	1,52	0,49	1,79	0,51	2,06	0,66	2,80	0,70	3,05	0,72
22,0		1,22	0,47	1,48	0,49	1,75	0,52	2,03	0,67	2,76	0,70	3,01	0,73
24,0		1,19	0,48	1,46	0,50	1,73	0,52	2,00	0,68	2,73	0,71	2,98	0,73
25,0		1,17	0,48	1,44	0,50	1,71	0,52	1,98	0,68	2,71	0,71	2,96	0,74
27,0		1,14	0,48	1,41	0,51	1,67	0,53	1,95	0,69	2,67	0,72	2,92	0,74

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

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

3D126457

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXF50A / RXF50B

Cooling 50 Hz 230 V

AFR	16,8
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	5,12	3,71	1,15	4,89	3,59	1,27	4,66	3,47	1,37	4,56	3,42	1,42	4,42	3,35	1,48	4,19	3,24	1,59
16,0	22	5,35	3,64	1,16	5,12	3,53	1,27	4,89	3,42	1,37	4,79	3,38	1,43	4,65	3,31	1,49	4,42	3,20	1,60
18,0	25	5,58	3,80	1,16	5,35	3,70	1,28	5,12	3,59	1,38	5,02	3,55	1,43	4,88	3,49	1,49	4,65	3,39	1,61
19,0	27	5,70	3,99	1,17	5,47	3,89	1,28	5,23	3,79	1,38	5,14	3,75	1,44	5,00	3,70	1,50	4,77	3,60	1,61
22,0	30	6,04	3,85	1,18	5,81	3,76	1,29	5,58	3,67	1,39	5,49	3,63	1,44	5,35	3,58	1,51	5,11	3,50	1,62
24,0	32	6,27	3,74	1,19	6,04	3,66	1,30	5,81	3,58	1,40	5,72	3,55	1,45	5,58	3,50	1,51	5,34	3,42	1,63

Heating 50 Hz 230 V

AFR	17,3
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	2,86	1,04	3,43	1,10	4,01	1,15	4,58	1,51	6,21	1,58	6,75	1,64	
20,0	2,68	1,07	3,26	1,13	3,83	1,18	4,41	1,54	6,00	1,62	6,54	1,67	
22,0	2,61	1,09	3,19	1,14	3,76	1,19	4,34	1,56	5,92	1,63	6,46	1,69	
24,0	2,54	1,10	3,12	1,15	3,69	1,20	4,27	1,57	5,83	1,65	6,38	1,70	
25,0	2,51	1,10	3,08	1,16	3,66	1,21	4,23	1,58	5,79	1,65	6,33	1,71	
27,0	2,43	1,11	3,01	1,17	3,59	1,22	4,17	1,59	5,71	1,67	6,25	1,72	

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

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The bold cells indicate the standard conditions.

Rated operating frequency [Hz]

- The capacities are based on the following conditions:

Corresponding refrigerant piping length: 5 m

Level difference: 0m

- The air flow rate and bypass factor are mentioned in the table.

3D113930A

FTXF60A / RXF60B

Cooling 50 Hz 230 V

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 50 Hz 230 V

AFR	17,9
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
°C	°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

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The bold cells indicate the standard conditions.

Rated operating frequency [Hz]

- The capacities are based on the following conditions:

Corresponding refrigerant piping length: 5 m

Level difference: 0m

- The air flow rate and bypass factor are mentioned in the table.

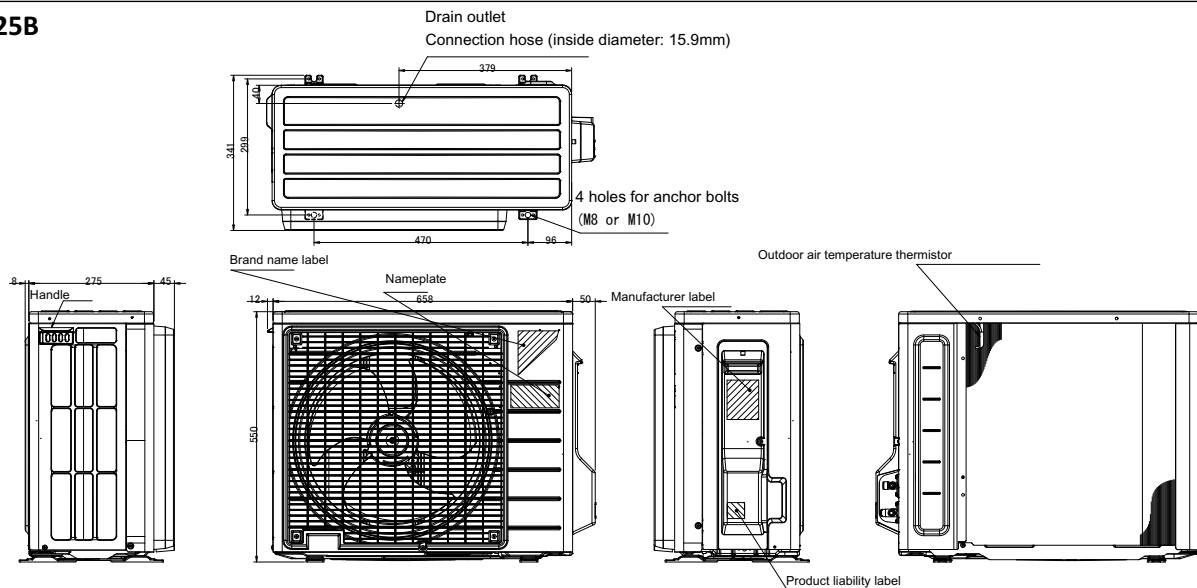
3D113931A

5 Dimensional drawings

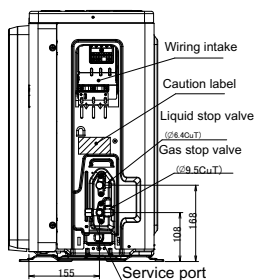
5 - 1 Dimensional Drawings

5

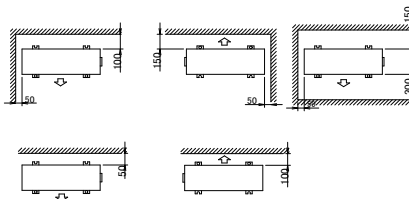
RXF20-25B



In case of removing the stop valve cover.

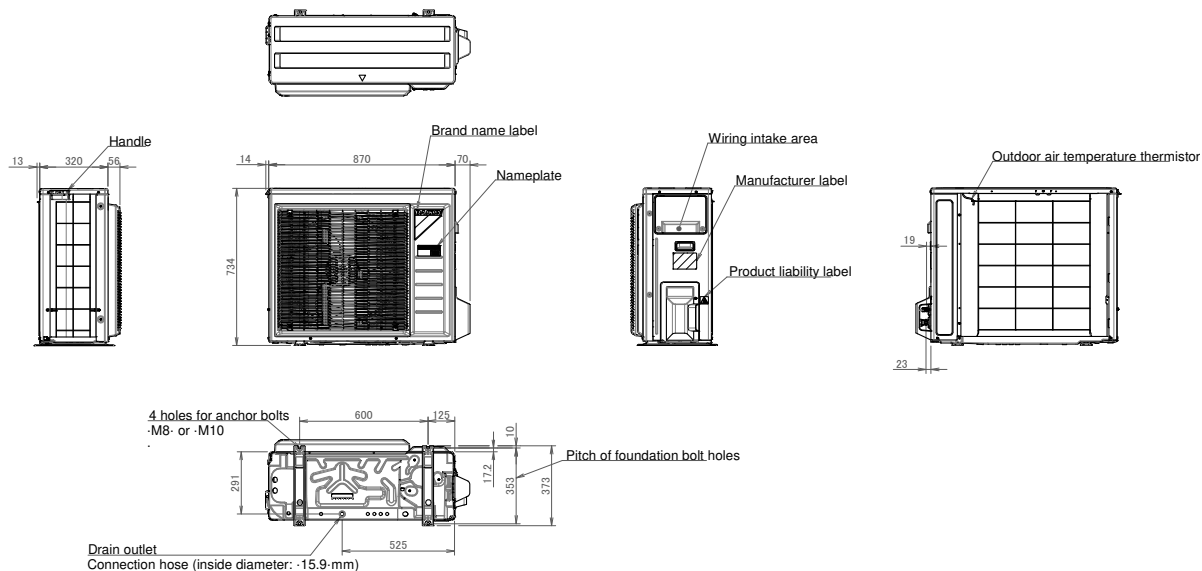


Minimum space for air passage
Wall height on air outlet side < 1200 mm

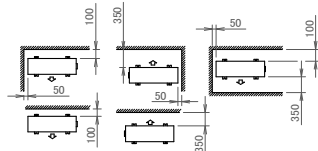


2D113526

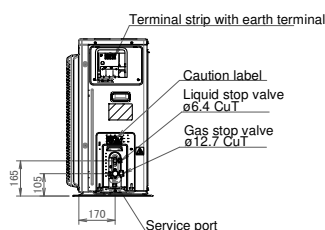
RXF50-60B



Minimum space for air passage
Wall height on air outlet side < 1200 mm



In case of removing the stop valve cover.

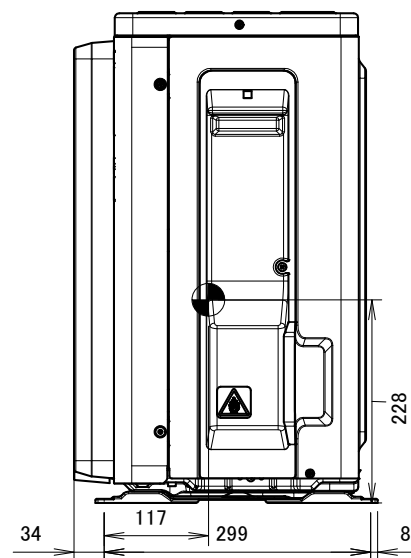
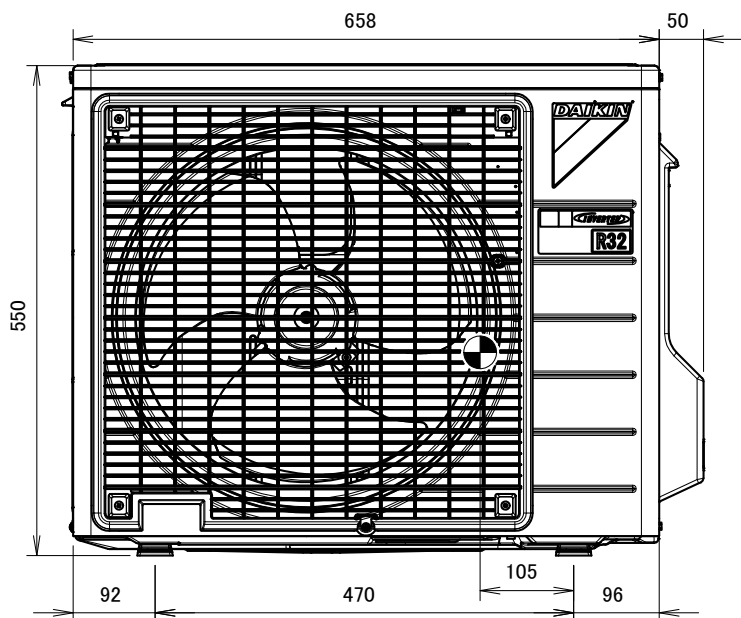


3D114108A

6 Centre of gravity

6 - 1 Centre of Gravity

RXF20-25B

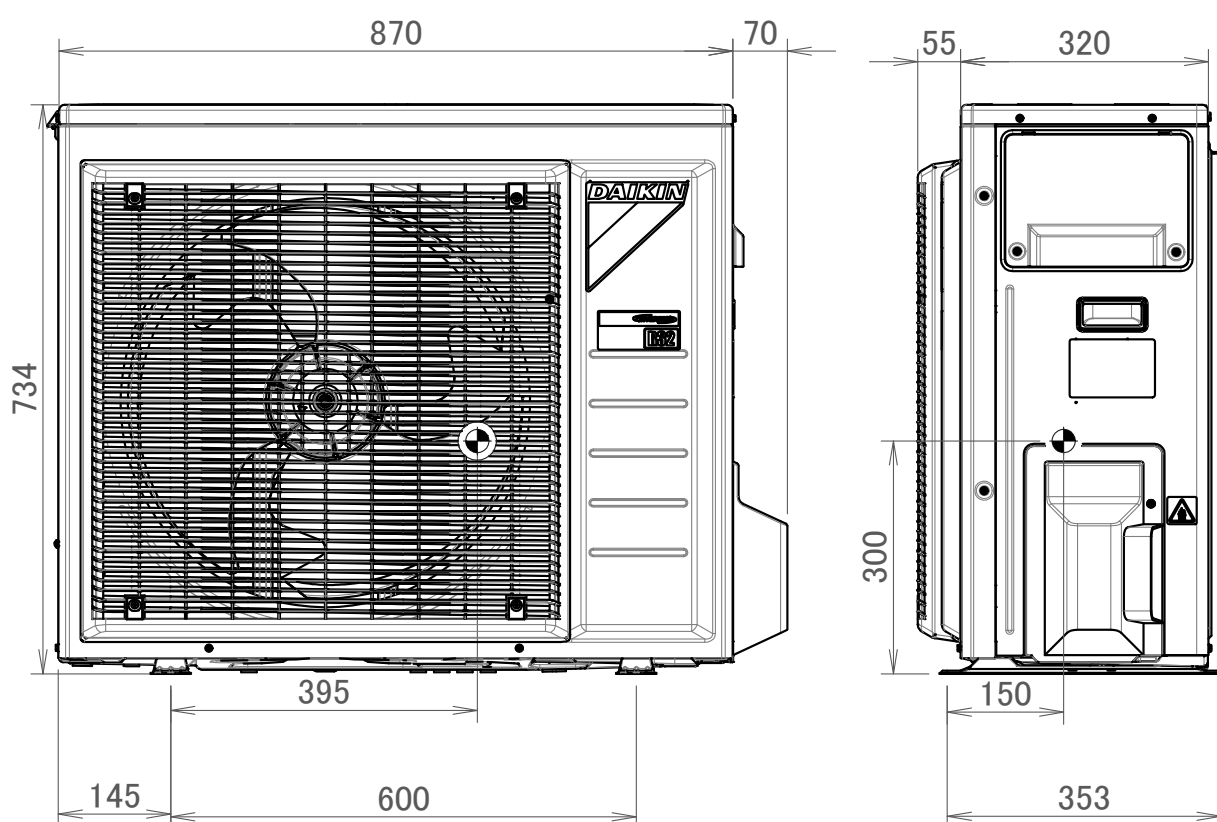


4D116239

6 Centre of gravity

6 - 1 Centre of Gravity

RXF50B

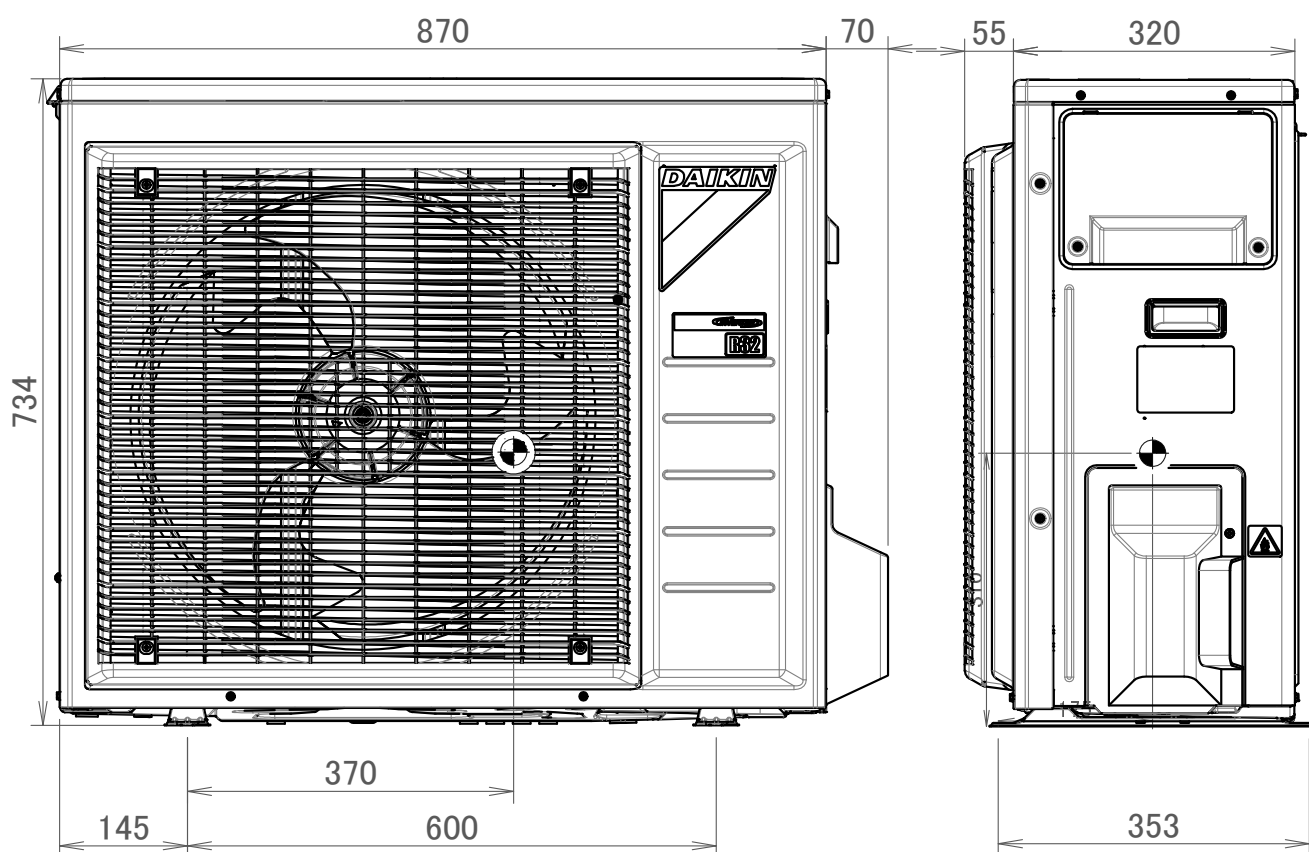


4D114820

6 Centre of gravity

6 - 1 Centre of Gravity

RXF60B



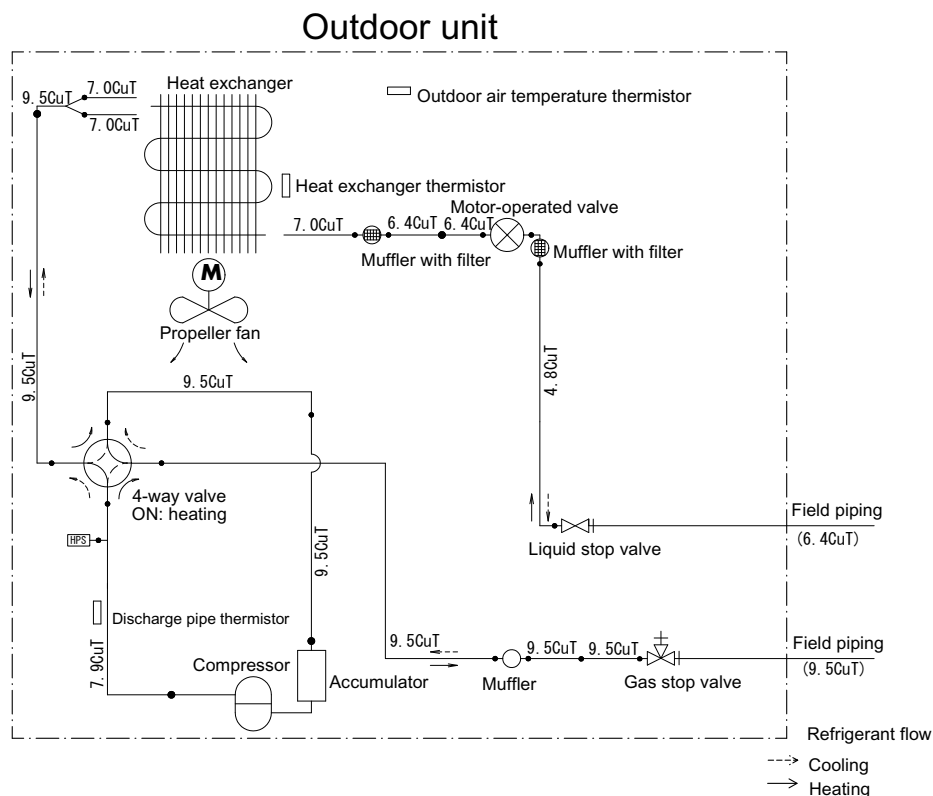
4D114824

7 Piping diagrams

7 - 1 Piping Diagrams

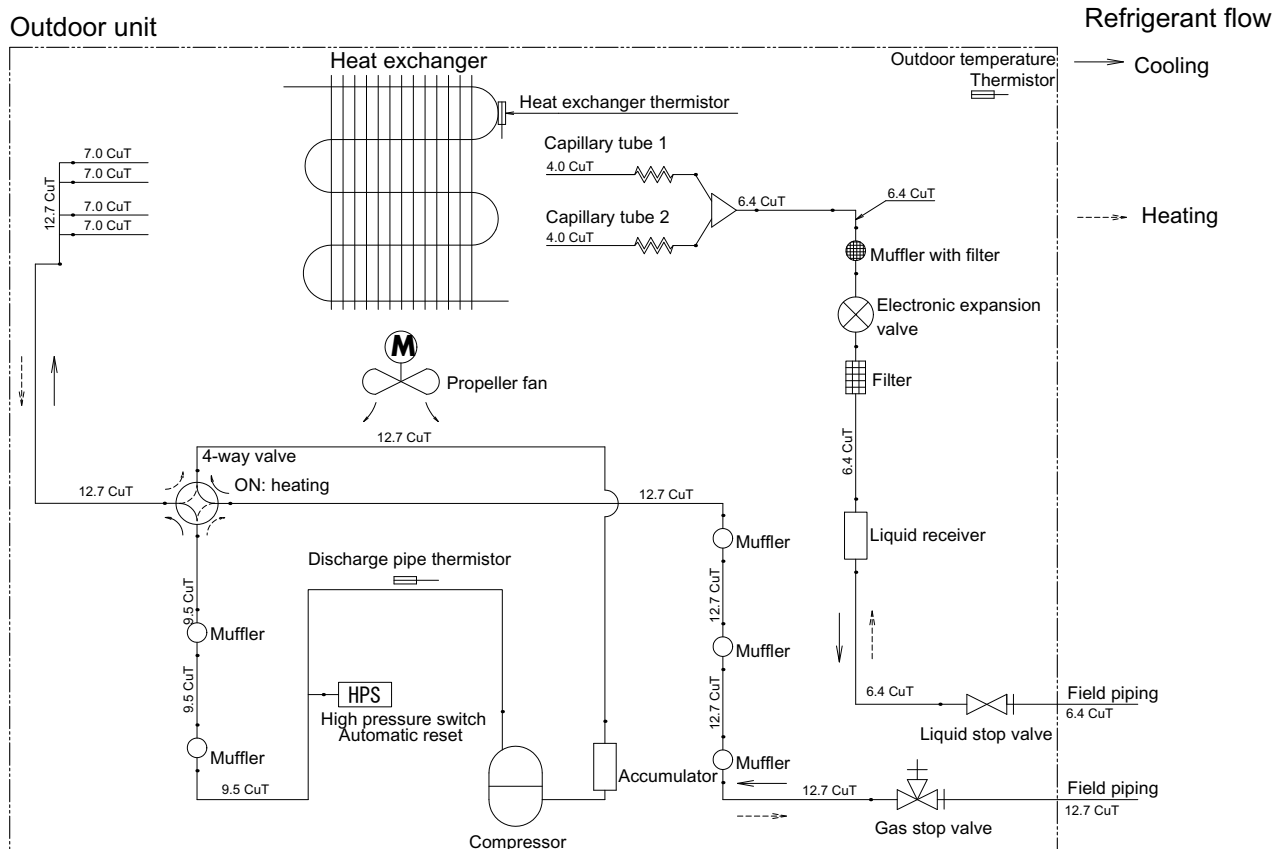
7

RXF20-25B



3D116254

RXF50B



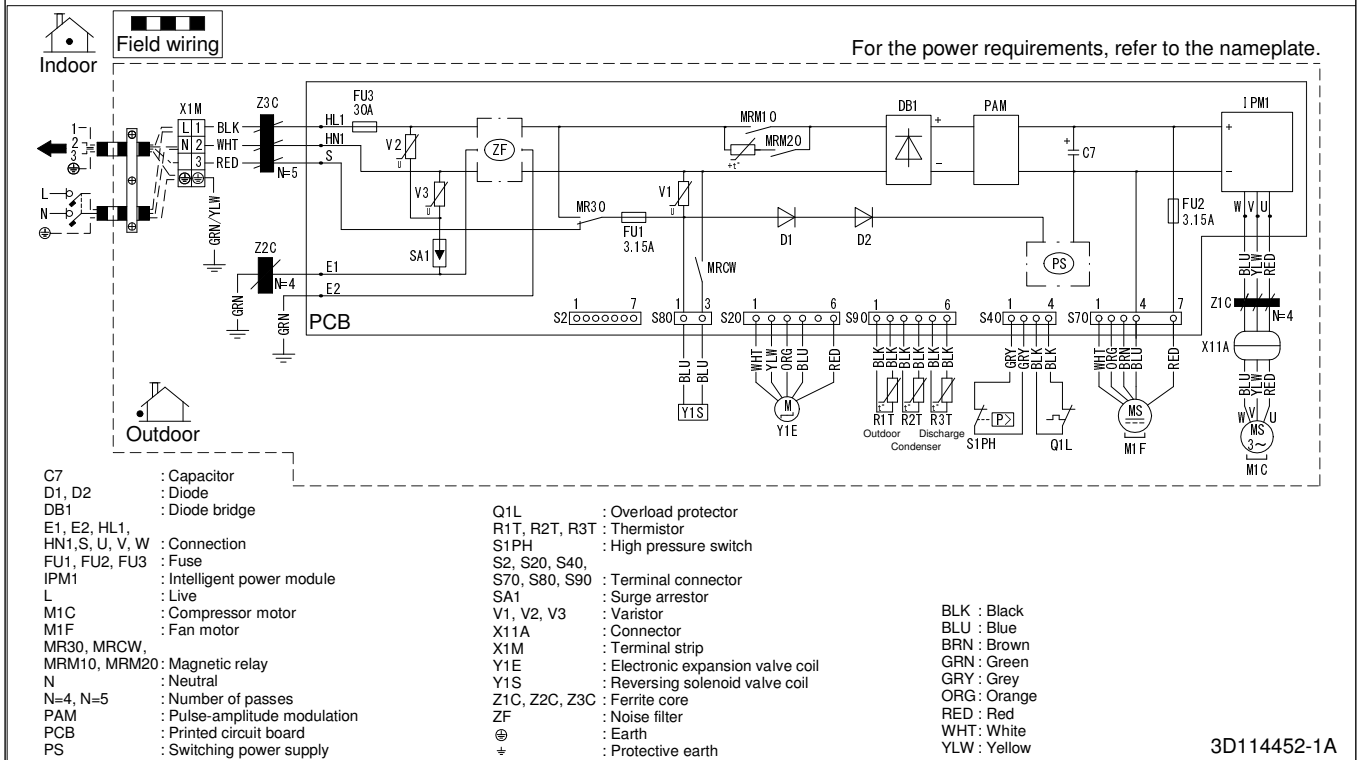
3D114451

8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

RXF50-60B

Wiring diagram



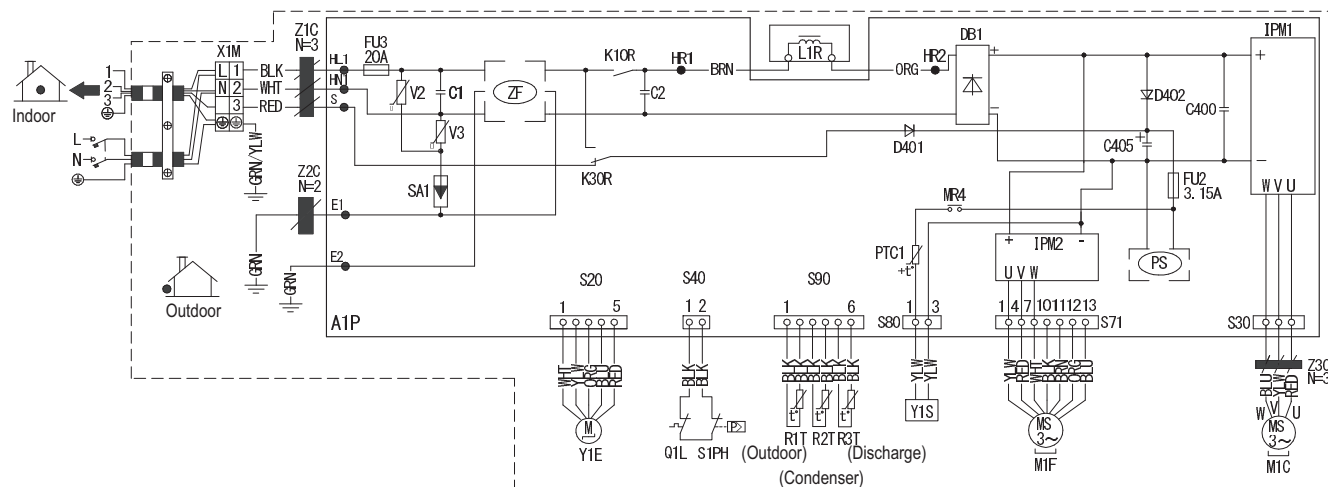
3D114452A

8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

RXF20-25B

Wiring diagram



C1, C2, C400, C405	Capacitor
HL1, HN1, S, E1, E2, HR1, HR2	Connection
D401, D402	Diode
DB1	Diode bridge
FU2, FU3	Fuse
IPM1, IPM2	Intelligent power module
L1R	Reactor
M1C	Compressor motor
M1F	Fan motor
K30R, K10R, MR4	Magnetic relay
A1P	Printed circuit board
PS	Switching power supply
Q1L	Overload protector
R1T, R2T, R3T	Thermistor
S1PH	High pressure switch
SA1	Surge arrester
S20, S30, S40, S71, S80, S90	Connector
V2, V3	Varistor
X1M	Terminal strip
Y1S	Reversing solenoid valve coil
PTC1	Thermistor PTC
Y1E	Electronic expansion valve coil
Z1C, Z2C, Z3C	Ferrite core
ZF	Noise filter

BLK:	Black
WHT:	White
BRN:	Brown
RED:	Red
GRN:	Green
YLW:	Yellow
ORG:	Orange
BLU:	Blue

⊕ : Protective earth

⊕ : Earth

▬ : Field wiring

NOTES

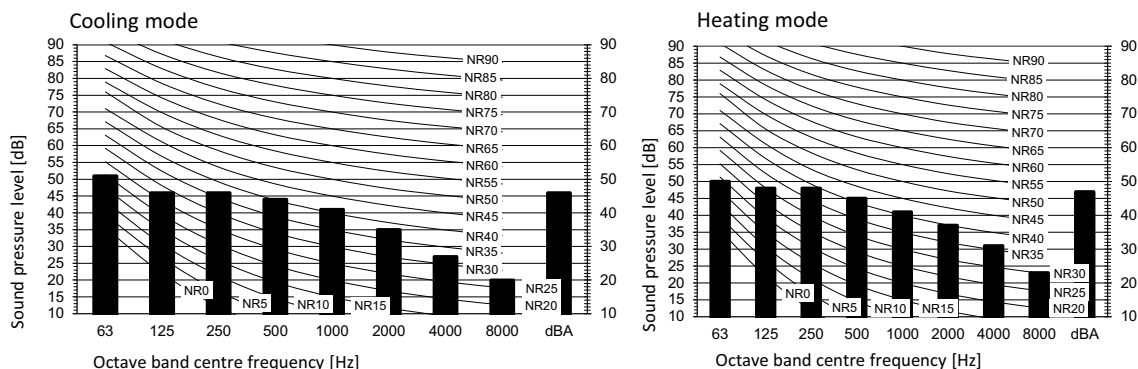
1. Refer to the nameplate for the power requirements.

3D114611A

9 Sound data

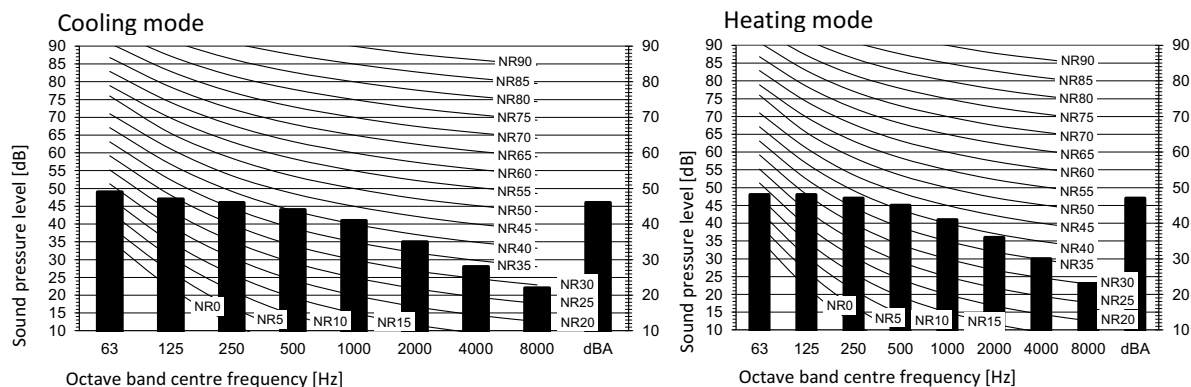
9 - 1 Sound Pressure Spectrum

RXF20B



3D092072D

RXF25B

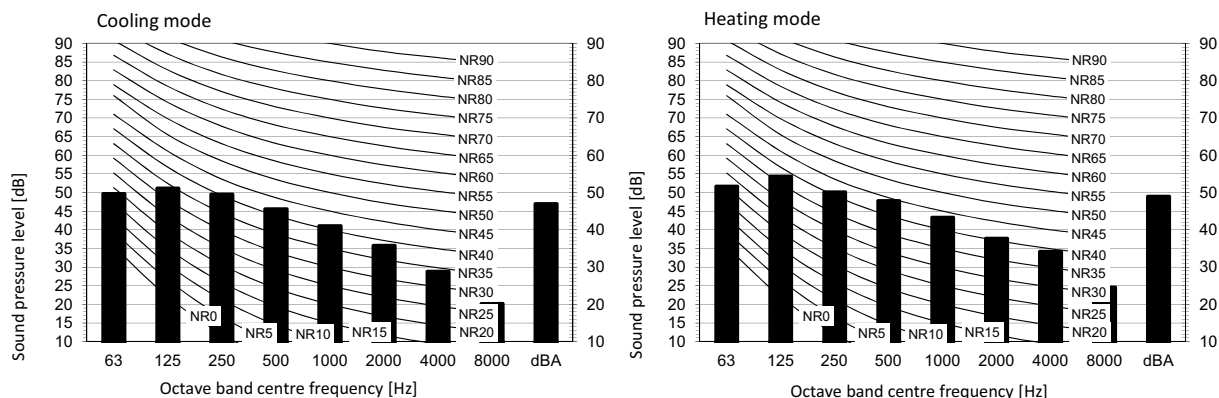


3D092073D

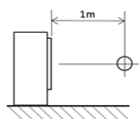
9 Sound data

9 - 1 Sound Pressure Spectrum

RXF50B



Location of microphone

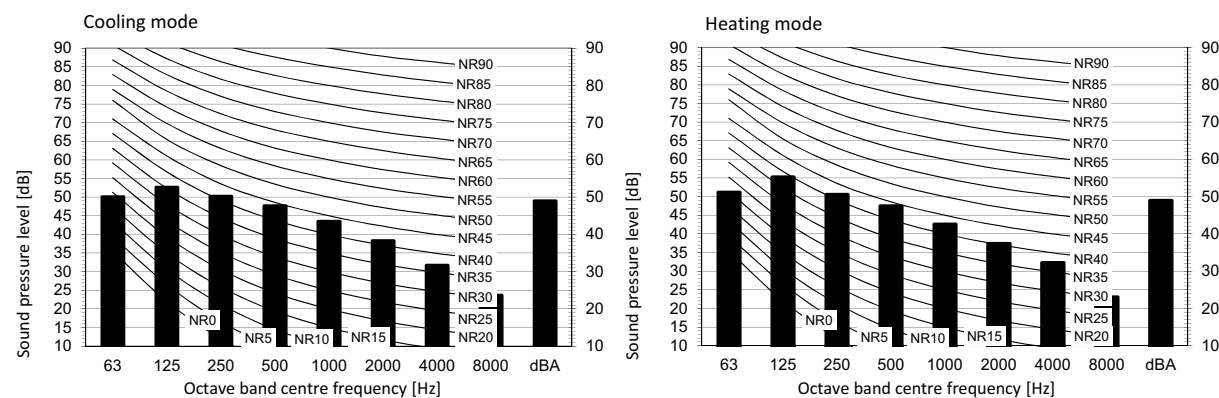


Notes

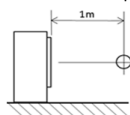
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D115241

RXF60B



Location of microphone



Notes

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

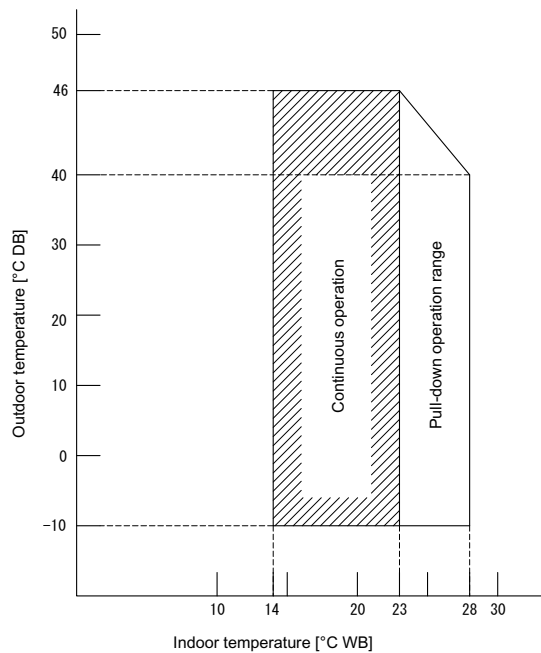
3D115242

10 Operation range

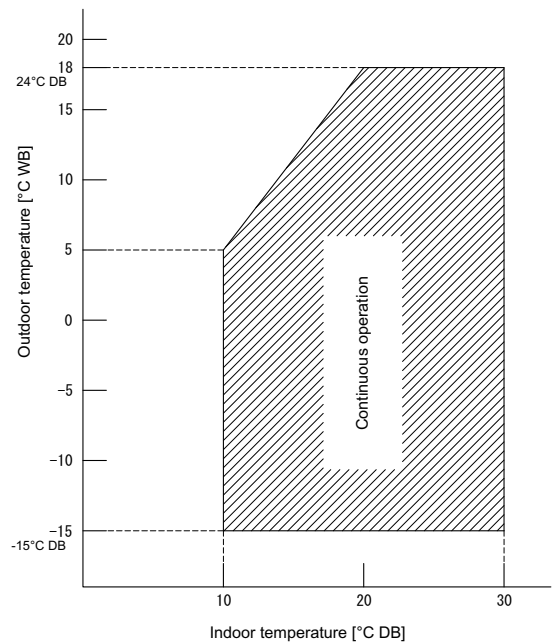
10 - 1 Operation Range

RXF-B

Cooling



Heating

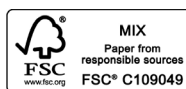


Notes

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

3D100846E

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