Air Conditioning Technical Data

RXF-F

EEDEN25

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RXF-F

1 Features

1 - 1 RXF-F

› 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				FTXF20F + RXF20F	FTXF25F + RXF25F	FTXF35F + RXF35F	FTXF42F + RXF42F	FTXF50F + RXF50F
Indoor unit				FTXF20F5V1B	FTXF25F5V1B	FTXF35F5V1B	FTXF42F5V1B	FTXF50F5V1B
Outdoor unit				RXF20F5V1B	RXF25F5V1B	RXF35F5V1B	RXF42F5V1B	RXF50F5V1B
Cooling capacity	Min.		kW	1.3			1.4	1.3
	Min.		Btu/h	4,400			4,800	4,500
	Min.		kcal/h	1,118			1,204	1,144.4
	Nom.		kW	2	2.5	3.3	4.2	5
	Nom.		Btu/h	6,800	8,500	11,300	14,300	17,100
	Nom.		kcal/h	1,720	2,150	2,838	3,611	4,302.1
	Max.		kW	2.4	2.8	3.8	4.3	5.3
	Max.		Btu/h	8,200	9,600	12,800	14,700	18,200
	Max.		kcal/h	2,064	2,408	3,224	3,697	4,586
Heating capacity	Min.		kW	1.3			1.4	1.43
	Min.		Btu/h	4,400			4,800	4,900
	Min.		kcal/h	1,118			1,204	1,230.4
	Nom.		kW	2.4	2.8	3.5	4.6	5.4
	Nom.		Btu/h	8,200	9,600	11,900	15,700	18,400
	Nom.		kcal/h	2,064	2,408	3,010	3,955	4,646.3
	Max.		kW	3.3	3.7	4.4	5	6.13
	Max.		Btu/h	11,300	12,600	15,000	17,100	20,900
	Max.		kcal/h	2,838	3,181	3,783	4,300	5,274.4
Power input	Cooling	Min.	kW	0.31				0.27
		Nom.	kW	0.592	0.772	1	1.27	1.52
		Max.	kW	0.72	1.05	1.4	1.5	1.74
	Heating	Min.	kW	0.25				0.26
		Nom.	kW	0.64	0.75	0.94	1.24	1.46
		Max.	kW	0.95	1.11	1.5	1.4	1.91
Nominal efficiency	EER			3.38	3.24		3.3	
	COP			3.75	3.73	3.72	3.71	
	Annual energy consumption		kWh	108	135	188	226	269
	Energy labeling Directive	Cooling		A				
		Heating		A				
Space cooling	Energy efficiency class			A++				
	Capacity	Pdesign	kW	2	2.5	3.5	4.2	5
	SEER			6.5				
	Annual energy consumption		kWh/a	108	135	188	226	269
Space heating (Average climate)	Capacity	Pdesign	kW	2.2	2.4	2.6	3.3	3.8
	Energy efficiency class			A+				
	SCOP/A			4.2			4.3	4.1
	SCOPnet/A			4.25			4.36	4.15
	Pdh Heating capacity at -10°		kW	1.86	1.97	2.21	2.61	3.24
	Annual energy consumption		kWh/a	733	801	867	1,075	1,297
	Required back up heating cap at design conditions		kW	0.34	0.43	0.39	0.69	0.56
Space heating (Warm climate)	Capacity	Pdesignh	kW	1.18	1.29	1.4	1.78	2.05
	Energy efficiency class			A+++				
	SCOP			5.2	5.22	5.26	5.25	5.17
	SCOPnet			5.5		5.59	5.61	5.47
	Annual energy consumption		kWh/a	318	346	373	475	555
	Required back up heating cap at design conditions		kW	0				
Space cooling	A Condition	Pdc	kW	2	2.5	3.5	4.2	5
	(35°C - 27/19)	EERd		3.38	3.24	3.1	3.3	
		Power input	kW	0.592	0.772	1.13	1.27	1.52
	B Condition	Pdc	kW	1.47	1.84	2.58	3.09	3.68
	(30°C - 27/19)	EERd		5.41	4.79	4.64	4.7	5.1
		Power input	kW	0.272	0.395	0.556	0.657	0.722
	C Condition	Pdc	kW	1.14	1.18	1.66	1.99	2.37
	(25°C - 27/19)	EERd		8.52	8.41	8.55	7.91	7.6
		Power input	kW	0.134	0.137	0.194	0.242	0.312
	D Condition	Pdc	kW	1.3		1.32	1.35	1.8
	(20°C - 27/19)	EERd		11.7		11.8	11.9	
		Power input	kW	0.111		0.112	0.113	0.151

2 Specifications

2 - 1 Specifications

Technical specifications					FTXF20F + RXF20F	FTXF25F + RXF25F	FTXF35F + RXF35F	FTXF42F + RXF42F	FTXF50F + RXF50F
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-15				
	TBivalent	Tbiv (bivalent temperature)		°C	-7				
		Pdh (declared heating cap)		kW	1.95	2.12	2.3		3.36
		COPd (declared COP)			2.69		2.6	2.66	2.55
		Power input		kW	0.725	0.788	0.885	1.1	1.32
	A Condition (-7°C)	Pdh (declared heating cap)		kW	1.95	2.12	2.3	2.92	3.36
		COPd (declared COP)			2.69		2.6	2.66	2.55
		Power input		kW	0.725	0.771	0.875	1.08	1.32
	B Condition (2°C)	Pdh (declared heating cap)		kW	1.18	1.29	1.4	1.78	2.05
		COPd (declared COP)			4.2	4.18		4.44	4.05
		Power input		kW	0.281	0.309	0.335	0.401	0.506
	C Condition (7°C)	Pdh (declared heating cap)		kW	0.92		0.93	1.14	1.49
		COPd (declared COP)			5.66	5.62	5.65	5.42	5.72
	C Condition (7°C)	Power input		kW	0.163	0.164	0.165	0.21	0.26
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.06		1.1		1.75
		COPd (declared COP)			6.98	6.85	6.86	6.88	6.75
		Power input		kW	0.152	0.155	0.16		0.259
	E condition (-10°C)	Pdh (declared heating cap)		kW	1.71		2.05	2.1	3.24
		COPd (declared COP)			2.55		2	2.06	2.58
		Power input		kW	0.67		1.03	1.02	1.26
Space heating (Warm climate)	TOL	Tol (temperature operating limit)		°C	-15				
	TBivalent	Tbiv (bivalent temperature)		°C	2				
		Pdh (declared heating cap)		kW	1.18	1.29	1.4	1.78	2.05
		COPd (declared COP)			4.2	4.18		4.44	4.05
		Power input		kW	0.281	0.309	0.335	0.401	0.506
	B Condition (2°C)	Pdh (declared heating cap)		kW	1.18	1.29	1.4	1.78	2.05
		COPd (declared COP)			4.2	4.18		4.44	4.05
		Power input		kW	0.281	0.309	0.335	0.401	0.506
	C Condition (7°C)	Pdh (declared heating cap)		kW	0.92		0.93	1.14	1.49
		COPd (declared COP)			5.66	5.62	5.65	5.42	5.72
		Power input		kW	0.163	0.164	0.165	0.21	0.26
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.06		1.1		1.75
		COPd (declared COP)			6.98	6.85	6.86	6.88	6.75
		Power input		kW	0.152	0.155	0.16		0.259
	E condition (2°C)	Pdh (declared heating cap)		kW	1.71		2.05	2.1	2.05
		COPd (declared COP)			2.55		2	2.06	4.05
		Power input		kW	0.67		1.03	1.02	0.506
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	23	24	29	40	
			Heating	W	23		29	40	
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	Yes	No		
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	60		61		
	Sound power level indoor	Cooling	Nom.	dBA	53	54		59	
	Piping length	Cooling	Measuring condition	m	5				

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

Technical Specifications		RXF20F	RXF25F	RXF35F	RXF42F	RXF50F
Casing	Colour	Ivory white				

2 Specifications

2 - 1 Specifications

Technical Specifications					RXF20F	RXF25F	RXF35F	RXF42F	RXF50F
Dimensions	Unit	Height		mm	556				610
		Width		mm	740				923
		Depth		mm	343				367
	Packed unit	Height		mm	630				675
		Width		mm	790				1,007
		Depth		mm	400				450
Weight	Unit			kg	24			28	40
	Packed unit			kg	26			30	43
Packing	Weight			kg	2				3
Heat exchanger	Length			mm	670			647	869
	Rows	Quantity			1			2	
	Fin pitch			mm	1.4				
	Stages	Quantity			24				26
	Tube type				ø7 Hi-XD				
	Tube material				Copper				
	Fin	Type			Waffle Hydrophilic Blue Fin				
Fan	Type				Propeller				
	Air flow rate	Cooling	High	m^3/min	27.6	29		28.5	40.1
				cfm	975	1,024		1,006	1,416
		Heating	High	m^3/min	27.1	28		27.5	40.1
				cfm	957	990		971	1,416
Fan motor	Model				DFC03Z1VA				DFC05A3VA
	Insulation grade				Class "E"				
	Output			W	28				50
	Speed	Cooling	High	rpm	760	820			870
			Low	rpm	640				600
		Heating	High	rpm	790	820			870
			Low	rpm	550				600
Compressor	Model				1Y078BKAX1P#D			1Y091BKCX1P#G	2Y147BKBX1P#D
	Oil Amount			cm^3	400			375	650
	Type				Hermetically sealed swing compressor				
	Output			W	700				1,300
	Oil Type				FW68DA				
Operation range	Cooling	Ambient	Min.	°CDB	-10				
			Max.	°CDB	48				
Operation range	Heating	Ambient	Min.	°CWB	-15				
			Max.	°CWB	18				
Sound power level	Cooling	Nom.		dBA	60		61		
	Heating	Nom.		dBA	60		62		61
Sound pressure level	Cooling	High		dBA	46		48		
	Heating	High		dBA	47		48		49
Refrigerant	Type				R-32				
	Charge			kg	0.42		0.55	0.75	0.8
	Charge			tCO2Eq	0.28		0.37	0.51	0.54
	GWP				675				
Piping connections	Liquid	OD		mm	6				
	Gas	OD		mm	9.5				12.7
	Drain	OD		mm	18				16
	Piping length	OU - IU	Min.	m	2				
			Max.	m	20				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				
Capacity control	Method				Variable (inverter)				

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Refrigerant charge label;Quantity: 1;

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

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: Drain plug;Quantity: 1;

2 Specifications

2 - 1 Specifications

Electrical Specifications				RXF20F	RXF25F	RXF35F	RXF42F	RXF50F
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				
Current - 60Hz	Maximum fuse amps (MFA)		A	16				

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

3 Electrical data

3 - 1 Electrical Data

RXF-F
ARXF-F

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor unit	Outdoor unit	Hz	Voltage	Voltage range	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTXF20F5V1B	RXF20F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	8,06	16	39,0	2,7	0,024	0,17	0,029	0,41
		50	230					2,6				
		50	240					2,5				
FTXF25F5V1B	RXF25F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	8,14	16	54,0	3,0	0,033	0,24	0,029	0,41
		50	230					2,8				
		50	240					2,7				
FTXF35F5V1B	RXF35F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	9,36	16	68,0	4,4	0,033	0,24	0,037	0,52
		50	230					4,2				
		50	240					4,0				
FTXF42F5V1B	RXF42F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	9,44	16	78,0	5,7	0,030	0,23	0,050	0,60
		50	230					5,4				
		50	240					5,2				
FTXF50F5V1B	RXF50F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	10,43	16	64,0	5,7	0,052	0,63	0,050	0,60
		50	230					5,5				
		50	240					5,3				
ATXF20F5V1B	ARXF20F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	8,06	16	39,0	2,7	0,024	0,17	0,029	0,41
		50	230					2,6				
		50	240					2,5				
ATXF25F5V1B	ARXF25F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	8,14	16	54,0	3,0	0,033	0,24	0,029	0,41
		50	230					2,8				
		50	240					2,7				
ATXF35F5V1B	ATXF35F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	9,36	16	68,0	4,4	0,033	0,24	0,037	0,52
		50	230					4,2				
		50	240					4,0				
ATXF42F5V1B	ATXF42F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	9,44	16	78,0	5,7	0,030	0,23	0,050	0,60
		50	230					5,4				
		50	240					5,2				
ATXF50F5V1B	RXF50F5V1B	50	220	Maximum ·50·Hz ·264·V Minimum ·50·Hz ·198·V	10,43	16	64,0	5,7	0,052	0,63	0,050	0,60
		50	230					5,5				
		50	240					5,3				

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXF20F / RXF20F

Cooling ·50Hz 220-240V·

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	20	2,05	1,80	0,48	1,96	1,76	0,52	1,86	1,72	0,56	1,83	1,70	0,57	1,77	1,67	0,59	1,68	1,63	0,63
16	22	2,14	1,77	0,48	2,05	1,73	0,52	1,95	1,69	0,55	1,92	1,68	0,57	1,86	1,65	0,59	1,77	1,61	0,63
18	25	2,23	1,89	0,48	2,14	1,86	0,52	2,05	1,82	0,56	2,01	1,81	0,57	1,95	1,78	0,59	1,86	1,75	0,63
19	27	2,28	2,03	0,48	2,19	2,00	0,52	2,09	1,96	0,56	2,06	1,95	0,57	2,00	1,93	0,59	1,91	1,89	0,63
22	30	2,42	1,97	0,49	2,32	1,94	0,53	2,23	1,91	0,57	2,19	1,90	0,58	2,14	1,88	0,60	2,05	1,85	0,64
24	32	2,51	1,93	0,49	2,42	1,91	0,53	2,32	1,88	0,57	2,29	1,87	0,58	2,23	1,85	0,60	2,14	1,82	0,64

Heating ·50Hz 220-240V·

AFR	10,4

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	1,09	0,41	1,33	0,42	1,57	0,44	1,82	0,60	2,46	0,63	2,71	0,65
20	1,02	0,42	1,26	0,43	1,50	0,47	1,74	0,61	2,40	0,64	2,63	0,66
22	0,99	0,42	1,23	0,44	1,47	0,47	1,71	0,61	2,37	0,65	2,59	0,67
24	0,96	0,42	1,20	0,44	1,44	0,48	1,68	0,63	2,33	0,65	2,56	0,67
25	0,94	0,43	1,18	0,44	1,42	0,48	1,66	0,63	2,31	0,66	2,54	0,67
27	0,91	0,43	1,15	0,47	1,39	0,48	1,64	0,63	2,28	0,66	2,51	0,68

Heating capacity at nominal operating frequency, measured according to ·EN 14511·.

Indoor temperature	Outdoor temperature [°C WB]													
EDB	-15		-10		-5		0		6		10		20	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
20	1,48	0,87	1,98	0,89	2,01	0,91	2,46	0,93	3,30	0,95	3,59	0,96	4,31	1,00

Heating capacity at maximum operating frequency, measured according to EN 14511

Notes
1) The bold cells indicate the standard conditions.
2) The capacities are based on the following conditions:
   Corresponding refrigerant piping length: ·5· m
   Level difference: ·0·m
3) The air flow rate and bypass factor are mentioned in the table.
4) The ratings shown are net capacities which include a deduction for indoor fan motor heat.
5) The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).

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]

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FTXF25F / RXF25F

Cooling ·50Hz 220-240V·

AFR	10,0
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	20	2,56	2,08	0,61	2,44	2,03	0,66	2,33	1,97	0,72	2,28	1,95	0,74	2,21	1,92	0,77	2,10	1,86	0,82
16	22	2,68	2,05	0,60	2,56	1,99	0,66	2,44	1,94	0,71	2,40	1,92	0,74	2,33	1,89	0,77	2,21	1,84	0,83
18	25	2,79	2,17	0,60	2,68	2,12	0,66	2,56	2,07	0,71	2,51	2,06	0,74	2,44	2,03	0,77	2,33	1,98	0,83
19	27	2,85	2,31	0,60	2,73	2,27	0,66	2,62	2,22	0,71	2,57	2,20	0,74	2,50	2,18	0,77	2,38	2,13	0,83
22	30	3,02	2,24	0,62	2,91	2,20	0,67	2,79	2,16	0,73	2,74	2,14	0,75	2,67	2,12	0,78	2,56	2,08	0,83
24	32	3,14	2,19	0,61	3,02	2,15	0,66	2,90	2,12	0,72	2,86	2,10	0,75	2,79	2,08	0,78	2,67	2,04	0,84

Heating ·50Hz 220-240V·

AFR	10,4

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	1,33	0,48	1,61	0,51	1,87	0,53	2,15	0,70	2,89	0,73	3,15	0,76
20	1,25	0,50	1,52	0,52	1,79	0,54	2,06	0,71	2,80	0,75	3,05	0,77
22	1,22	0,50	1,48	0,52	1,75	0,55	2,03	0,72	2,76	0,75	3,01	0,78
24	1,19	0,51	1,46	0,53	1,73	0,55	2,00	0,73	2,73	0,76	2,98	0,78
25	1,17	0,51	1,44	0,53	1,71	0,55	1,98	0,73	2,71	0,76	2,96	0,79
27	1,14	0,51	1,41	0,54	1,67	0,57	1,95	0,74	2,67	0,77	2,92	0,79

Heating capacity at nominal operating frequency, measured according to ·EN 14511·.

Indoor temperature	Outdoor temperature [°C WB]													
EDB	-15		-10		-5		0		6		10		20	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
20	2,04	1,13	2,44	1,16	2,44	1,19	2,77	1,22	3,70	1,26	4,02	1,28	4,58	1,24

Heating capacity at maximum operating frequency, measured according to EN 14511

Notes
1) The bold cells indicate the standard conditions.
2) The capacities are based on the following conditions:
   Corresponding refrigerant piping length: ·5· m
   Level difference: ·0·m
3) The air flow rate and bypass factor are mentioned in the table.
4) The ratings shown are net capacities which include a deduction for indoor fan motor heat.
5) The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).

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]

4D153057

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXF35F / RXF35F

Cooling ·50Hz 220-240V·

AFR	11,5
BF	0,23

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	20	3,38	2,54	0,76	3,22	2,46	0,84	3,07	2,39	0,91	3,01	2,36	0,94	2,92	2,31	0,99	2,76	2,23	1,06
16	22	3,54	2,50	0,77	3,38	2,42	0,84	3,22	2,35	0,92	3,17	2,33	0,95	3,07	2,28	0,99	2,92	2,22	1,07
18	25	3,69	2,62	0,77	3,54	2,56	0,85	3,38	2,49	0,92	3,32	2,46	0,95	3,22	2,42	1,00	3,07	2,36	1,07
19	27	3,76	2,76	0,77	3,61	2,70	0,85	3,45	2,64	0,92	3,39	2,61	0,95	3,30	2,57	1,00	3,15	2,52	1,08
22	30	3,99	2,67	0,78	3,84	2,61	0,86	3,68	2,56	0,93	3,62	2,54	0,96	3,53	2,50	1,01	3,38	2,44	1,08
24	32	4,14	2,60	0,79	3,99	2,55	0,86	3,84	2,50	0,94	3,77	2,48	0,97	3,68	2,44	1,01	3,53	2,39	1,09

Heating ·50Hz 220-240V·

AFR	11,9

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	1,66	0,60	2,00	0,63	2,34	0,67	2,69	0,87	3,62	0,92	3,94	0,95
20	1,57	0,62	1,90	0,65	2,24	0,68	2,58	0,90	3,50	0,94	3,82	0,97
22	1,52	0,63	1,86	0,66	2,20	0,69	2,54	0,90	3,45	0,94	3,77	0,98
24	1,48	0,63	1,82	0,67	2,15	0,70	2,49	0,91	3,40	0,95	3,72	0,99
25	1,46	0,64	1,79	0,67	2,14	0,70	2,48	0,92	3,38	0,96	3,69	0,99
27	1,42	0,64	1,76	0,68	2,09	0,71	2,43	0,92	3,33	0,97	3,65	1,00

Heating capacity at nominal operating frequency, measured according to ·EN 14511·.

Indoor temperature	Outdoor temperature [°C WB]													
EDB	-15		-10		-5		0		6		10		20	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
20	2,43	1,35	2,66	1,39	2,90	1,42	3,30	1,46	4,40	1,50	4,78	1,53	5,44	1,48

Heating capacity at maximum operating frequency, measured according to EN 14511

Notes
1) The bold cells indicate the standard conditions.
2) The capacities are based on the following conditions:
   Corresponding refrigerant piping length: ·5· m
   Level difference: ·0·m
3) The air flow rate and bypass factor are mentioned in the table.
4) The ratings shown are net capacities which include a deduction for indoor fan motor heat.
5) The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).

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]

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FTXF42F / RXF42F

Cooling ·50Hz 220-240V·

AFR	12,6
BF	0,23

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	20	4,17	3,14	1,04	4,02	3,07	1,11	3,86	3,01	1,19	3,80	2,98	1,22	3,71	2,93	1,26	3,56	2,87	1,34
16	22	4,38	3,09	1,04	4,22	3,02	1,11	4,07	2,97	1,19	4,00	2,94	1,22	3,91	2,90	1,26	3,76	2,85	1,34
18	25	4,57	3,24	1,05	4,41	3,19	1,12	4,26	3,14	1,20	4,19	3,11	1,23	4,10	3,08	1,27	3,94	3,03	1,35
19	27	4,66	3,42	1,05	4,51	3,37	1,12	4,35	3,33	1,20	4,29	3,30	1,23	4,20	3,27	1,27	4,05	3,24	1,35
22	30	4,95	3,31	1,06	4,80	3,26	1,13	4,64	3,23	1,21	4,58	3,21	1,24	4,49	3,18	1,28	4,34	3,13	1,36
24	32	5,14	3,23	1,06	4,99	3,19	1,13	4,83	3,15	1,21	4,77	3,14	1,24	4,68	3,10	1,28	4,53	3,07	1,36

Heating ·50Hz 220-240V·

AFR	12,8

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	2,18	0,79	2,63	0,83	3,08	0,88	3,54	1,15	4,76	1,21	5,18	1,25
20	2,06	0,82	2,50	0,86	2,94	0,90	3,39	1,19	4,60	1,24	5,02	1,28
22	2,00	0,83	2,44	0,87	2,89	0,91	3,34	1,19	4,53	1,24	4,95	1,29
24	1,95	0,83	2,39	0,88	2,83	0,92	3,27	1,20	4,47	1,25	4,89	1,31
25	1,92	0,84	2,35	0,88	2,81	0,92	3,26	1,21	4,44	1,27	4,85	1,31
27	1,87	0,84	2,31	0,90	2,75	0,94	3,19	1,21	4,38	1,28	4,80	1,32

Heating capacity at nominal operating frequency, measured according to ·EN 14511·.

Indoor temperature	Outdoor temperature [°C WB]													
EDB	-15		-10		-5		0		6		10		20	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
20	2,60	1,07	2,92	1,18	3,12	1,25	3,52	1,32	5,00	1,40	5,26	1,47	5,26	1,41

Heating capacity at maximum operating frequency, measured according to EN 14511

Notes
1) The bold cells indicate the standard conditions.
2) The capacities are based on the following conditions:
   Corresponding refrigerant piping length: ·5· m
   Level difference: ·0·m
3) The air flow rate and bypass factor are mentioned in the table.
4) The ratings shown are net capacities which include a deduction for indoor fan motor heat.
5) The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).

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]

4D153059

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXF50F / RXF50F

Cooling ·50Hz 220-240V·

AFR	12,6
BF	0,23

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	20	4,97	3,53	1,29	4,82	3,47	1,37	4,66	3,40	1,44	4,60	3,38	1,47	4,51	3,33	1,52	4,36	3,27	1,59
16	22	5,18	3,49	1,29	5,02	3,42	1,37	4,87	3,36	1,44	4,80	3,34	1,47	4,71	3,30	1,52	4,56	3,25	1,59
18	25	5,37	3,64	1,30	5,21	3,59	1,38	5,06	3,53	1,45	4,99	3,50	1,48	4,90	3,48	1,53	4,74	3,43	1,60
19	27	5,46	3,82	1,30	5,31	3,77	1,38	5,15	3,73	1,45	5,09	3,70	1,48	5,00	3,67	1,53	4,85	3,63	1,60
22	30	5,75	3,71	1,31	5,60	3,66	1,39	5,44	3,63	1,46	5,38	3,61	1,49	5,29	3,58	1,54	5,14	3,53	1,61
24	32	5,94	3,62	1,31	5,79	3,58	1,39	5,63	3,54	1,46	5,57	3,53	1,49	5,48	3,50	1,54	5,33	3,46	1,61

Heating ·50Hz 220-240V·

AFR	12,8

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	2,77	1,05	3,43	1,13	3,69	1,21	4,10	1,29	5,56	1,38	6,09	1,45
20	2,61	1,12	3,27	1,20	3,55	1,28	3,96	1,36	5,40	1,46	5,93	1,52
22	2,55	1,15	3,21	1,23	3,49	1,31	3,90	1,39	5,34	1,49	5,87	1,55
24	2,48	1,18	3,15	1,26	3,43	1,34	3,85	1,42	5,27	1,52	5,80	1,58
25	2,45	1,20	3,11	1,28	3,40	1,36	3,82	1,44	5,24	1,53	5,77	1,60
27	2,39	1,23	3,05	1,31	3,34	1,39	3,77	1,47	5,18	1,56	5,71	1,63

Heating capacity at nominal operating frequency, measured according to ·EN 14511·.

Indoor temperature	Outdoor temperature [°C WB]													
EDB	-15		-10		-5		0		6		10		20	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
20	3,15	1,36	3,53	1,50	3,78	1,59	4,26	1,67	6,05	1,78	6,37	1,86	6,37	1,79

Heating capacity at maximum operating frequency, measured according to EN 14511

Notes

1) The bold cells indicate the standard conditions.
2) The capacities are based on the following conditions:
   Corresponding refrigerant piping length: ·5· m
   Level difference: ·0·m
3) The air flow rate and bypass factor are mentioned in the table.
4) The ratings shown are net capacities which include a deduction for indoor fan motor heat.
5) The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).

Symbols

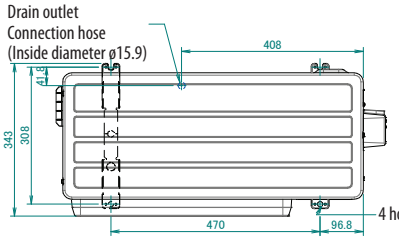
AFR: Air flow rate [m³/min]
BF: Bypass factor
EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Total capacity [kW]
SHC: Sensible heat capacity [kW]
PI: Power input [kW]

4D153060

5 Dimensional drawings

5 - 1 Dimensional Drawings

RXF20-42F
ARXF20-42F

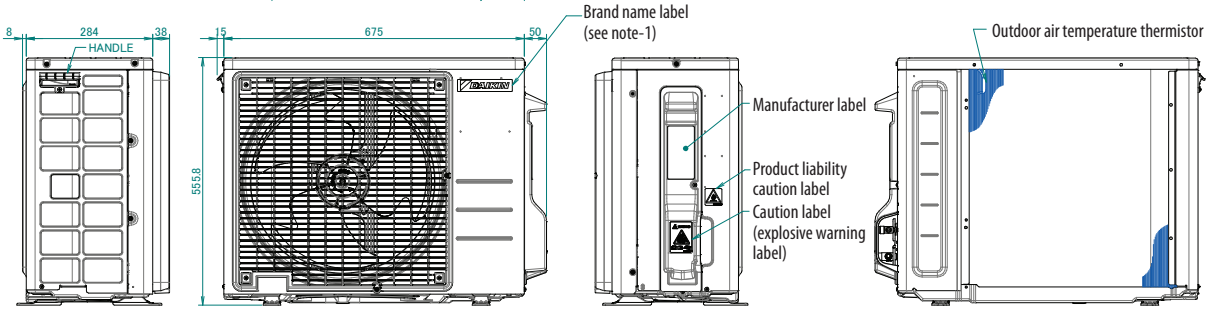


NOTATION

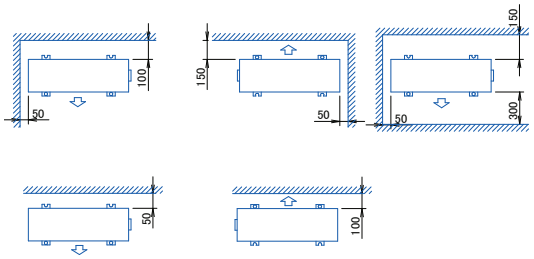
1- brand name label details can be seen below.

Daikin brand label: 3P698070-1

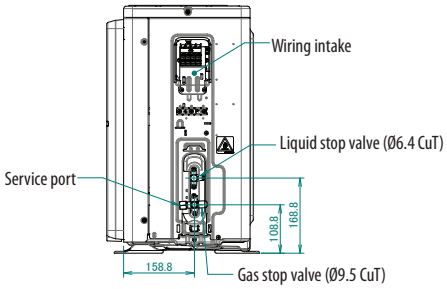
Siesta brand label: 3P698070-3



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

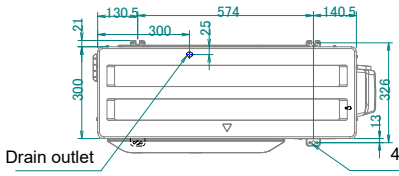


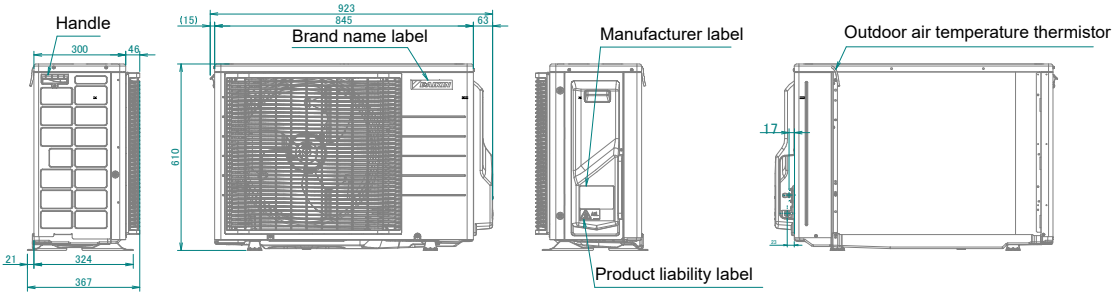
In case of removing the stop valve cover.



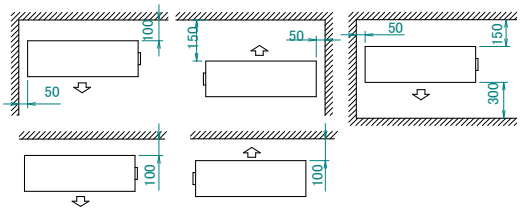
2D143507

RXF50F
ARXF50F

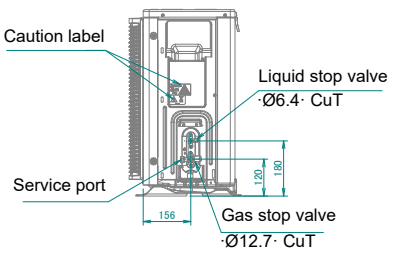




Minimum space for air passage
Wall height on air outlet side < 1200 mm



In case of removing the stop valve cover.

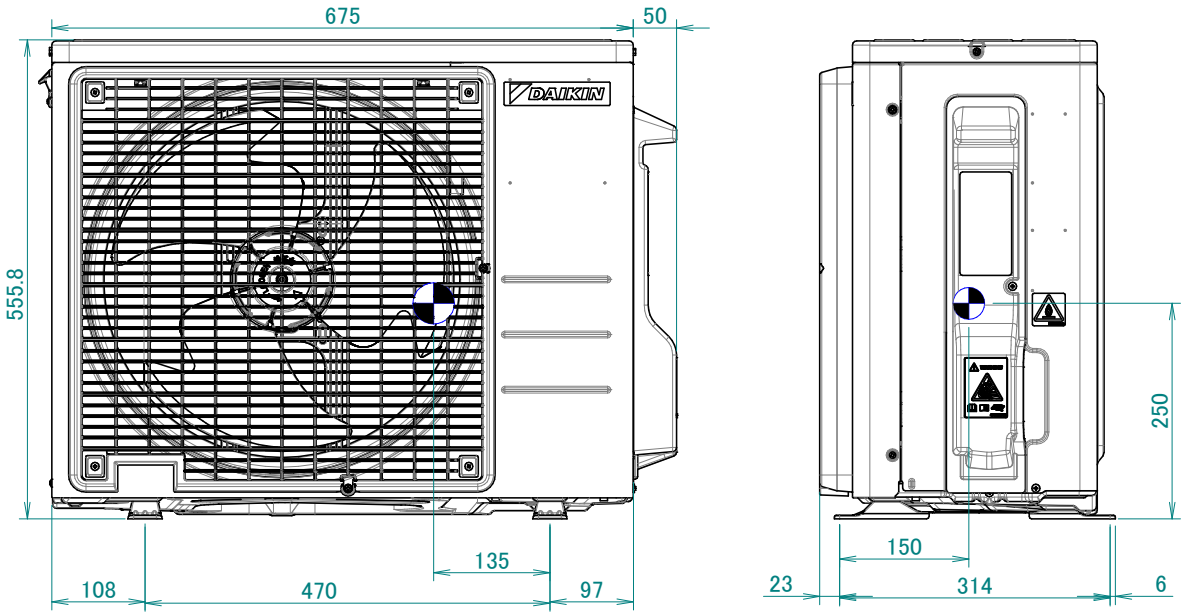


3D153218

6 Centre of gravity

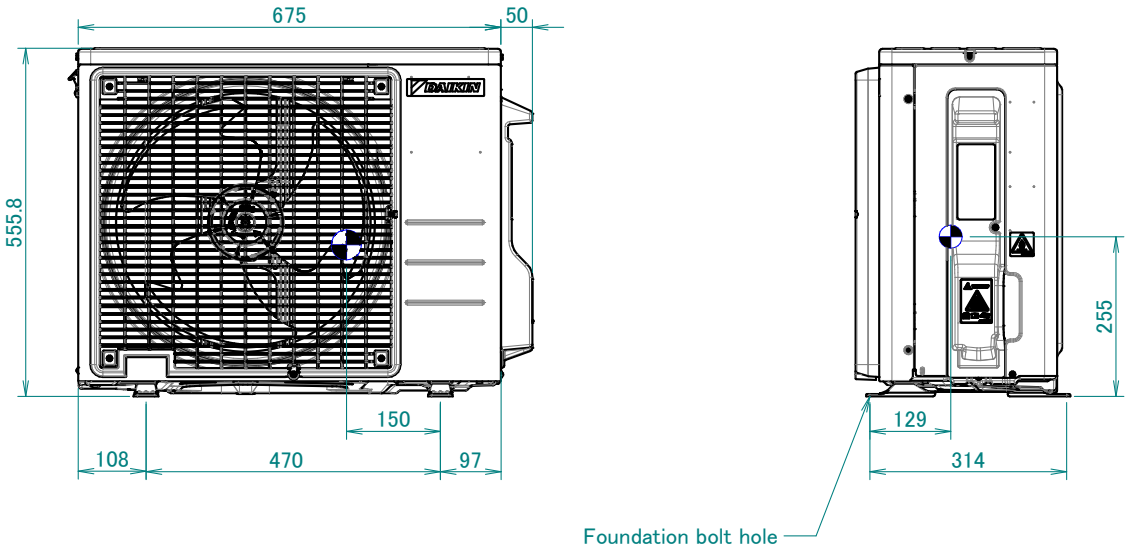
6 - 1 Centre of Gravity

RXF20-35F
ARXF20-35F



4D144283

RXF42F
ARXF42F

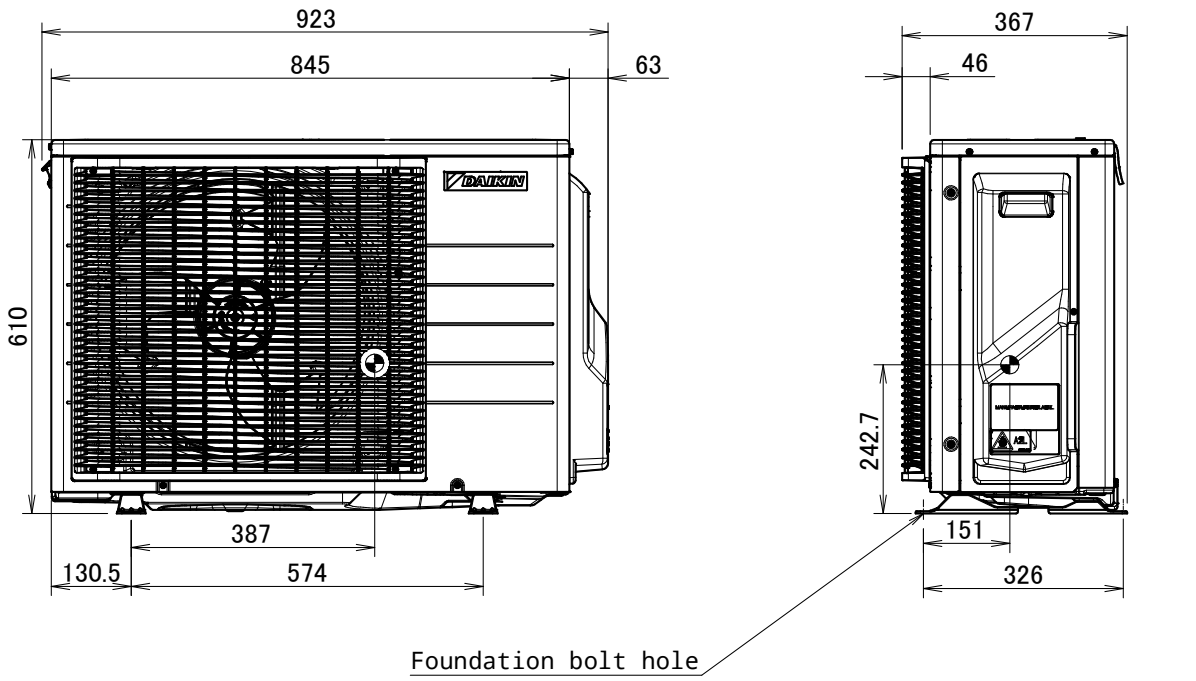


4D144285

6 Centre of gravity

6 - 1 Centre of Gravity

RXF50F
ARXF50F

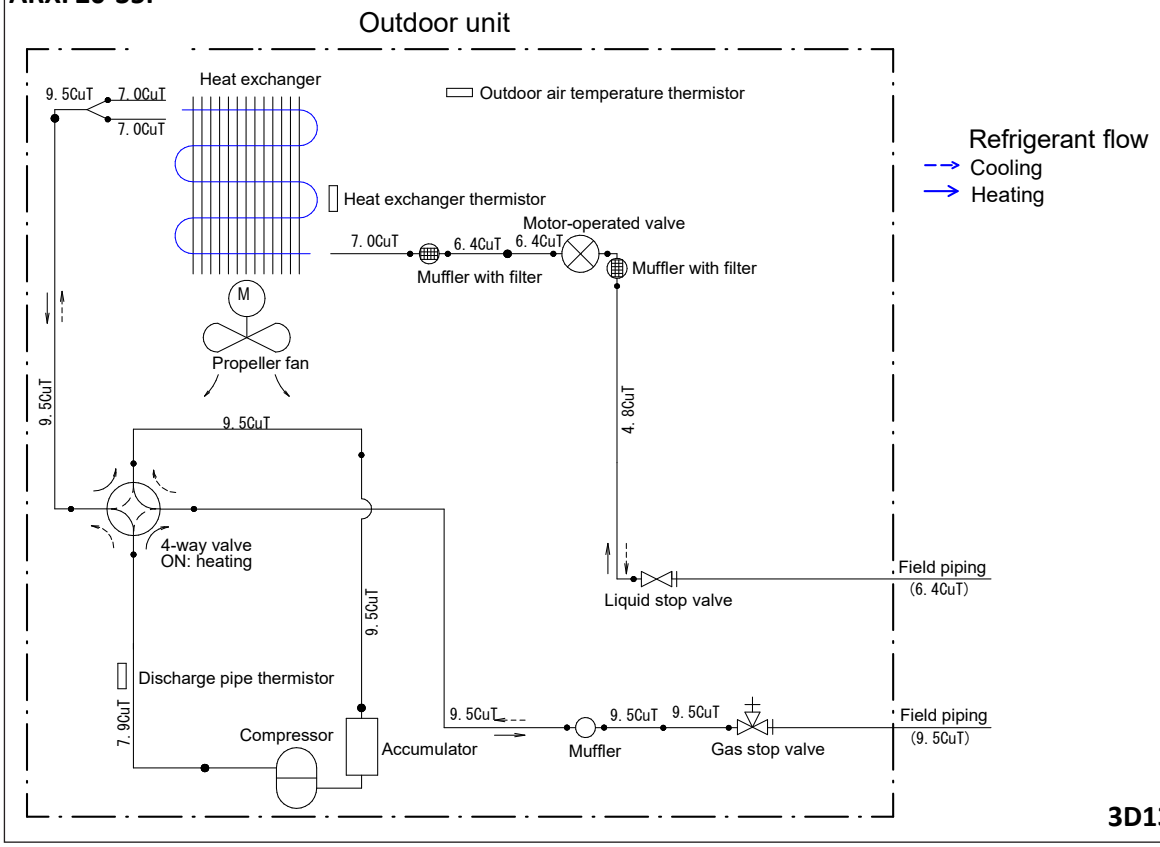


4D148193

7 Piping diagrams

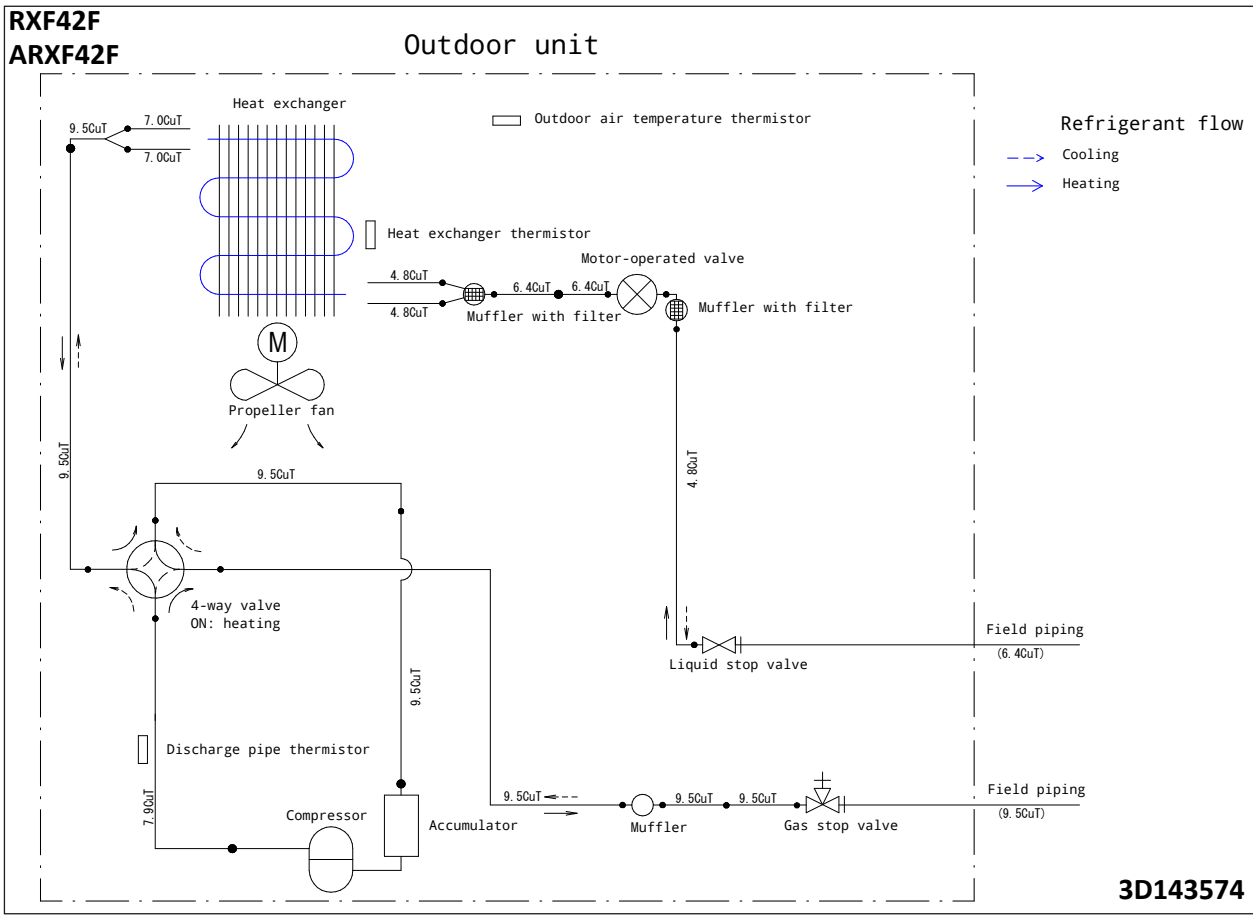
7 - 1 Piping Diagrams

RXF20-35F
ARXF20-35F



3D136644

RXF42F
ARXF42F

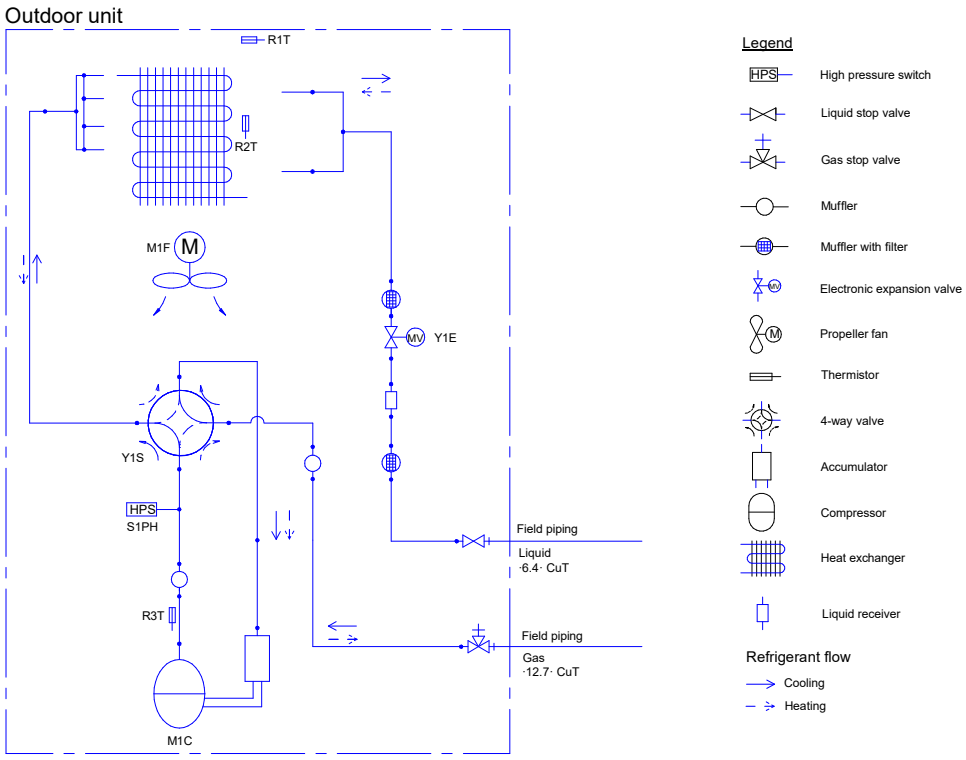


3D143574

7 Piping diagrams

7 - 1 Piping Diagrams

RXF50F
ARXF50F



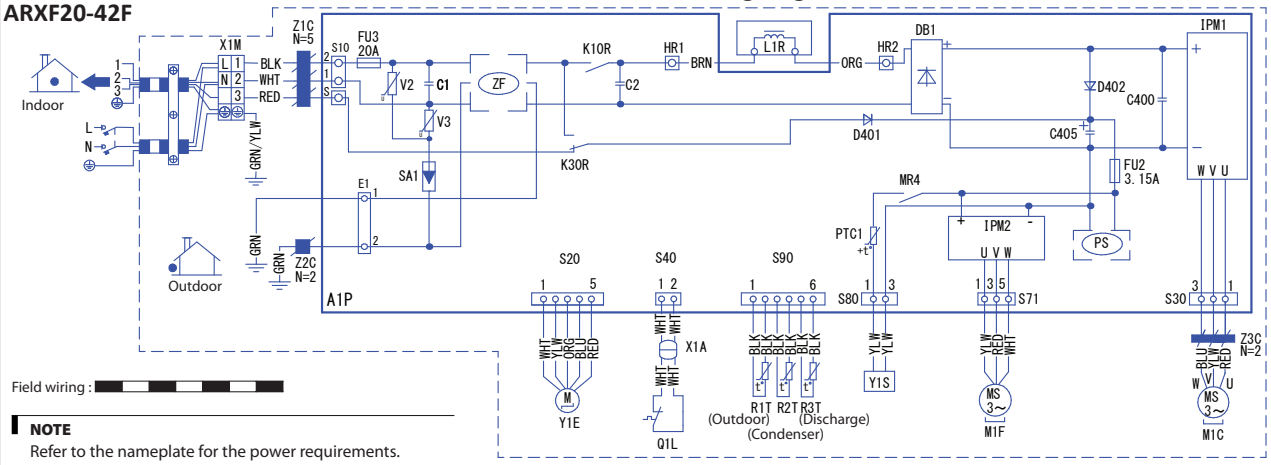
3D153079A

8 Wiring diagrams

8 - 1 Wiring Diagrams - Three Phase

RXF20-42F
ARXF20-42F

Wiring diagram



NOTE

Refer to the nameplate for the power requirements.

Wire colors

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

C1, C2, C400, C405	Capacitor
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

SA1	Surge arrester
S, S10, S20, S30, S40, S71, S80, S90, E1, HR1, HR2, X1A	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
⏚	Protective earth
⏚	Earth

NOTES

1. Size : lenght 140 x height 80
2. Refer to purchasing specification AS303002, unless otherwise specified.
3. This drawing was drawn on cad system.
4. Refer to the "cad03919-3d134368-1-wiring-diagram-210406.ai" formatted file unless otherwise specified.

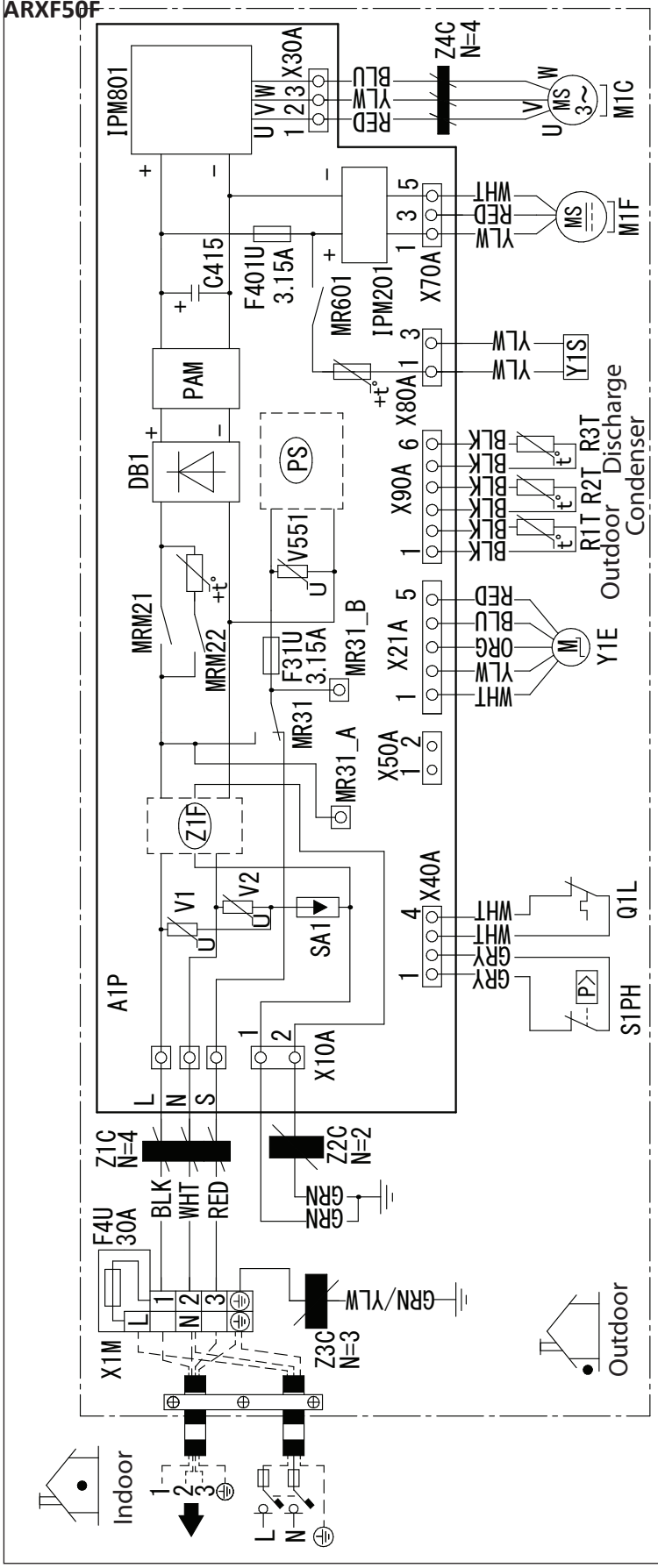
3D134368

8 Wiring diagrams

8 - 1 Wiring Diagrams - Three Phase

RXF50F
ARXF50F

Wiring diagram



For the power requirements, refer to the nameplate

A1P	Printed circuit board
C415	Capacitor
DB1	Diode bridge
IPM201, IPM801	Intelligent power module
L	Live
M1C	Compressor motor
M1F	Fan motor
N	Neutral
PAM	Pulse-amplitude modulation
PS	Switching power supply
Q1L	Overload protector
S1PH	High pressure switch
SA1	Surge arrestor
X1M	Terminal strip
Y1E	Electronic expansion valve coil
Y1S	Reversing solenoid valve coil
F4U, F31U, F401U	Fuse
MRM21, MRM22, MR31, MR601,	Magnetic relay
R1T, R2T, R3T	Thermistor
X10A, X21A, X30A, X40A, X50A, X70A, X80A, X90A	Connector
V1, V2, V551	Varistor
Z1C, Z2C, Z3C, Z4C	Ferrite core
S, MR31_A, MR31_B	Connection
Z1F	Noise filter

BLK : Black
WHT : White
BRN : Brown
RED : Red
GRN : Green
YLW : Yellow
ORG : Orange
BLU : Blue
GRY : Grey
⏚ : Protective earth
⏚ : Earth

: Field wiring

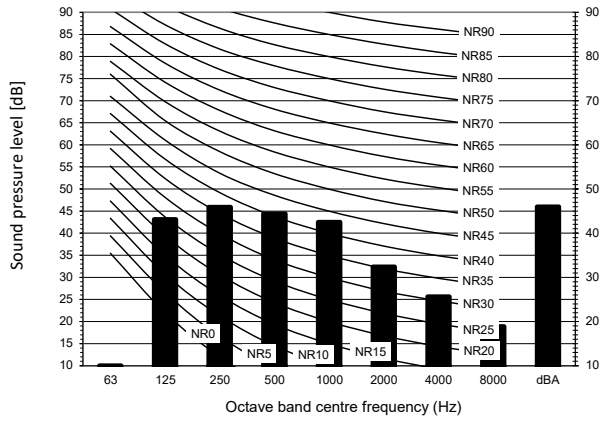
4D147370B

9 Sound data

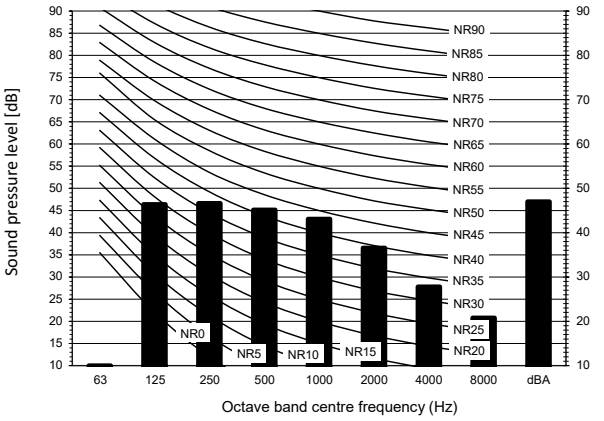
9 - 1 Sound Pressure Spectrum

RXF20F
ARXF20F

Cooling mode



Heating mode



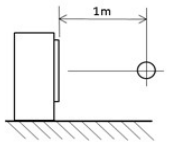
Legend

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

A Scale

B Fan speed: High

Location of microphone



Cooling	Total dB
A	B
dBA	46

Heating	Total dB
A	B
dBA	47

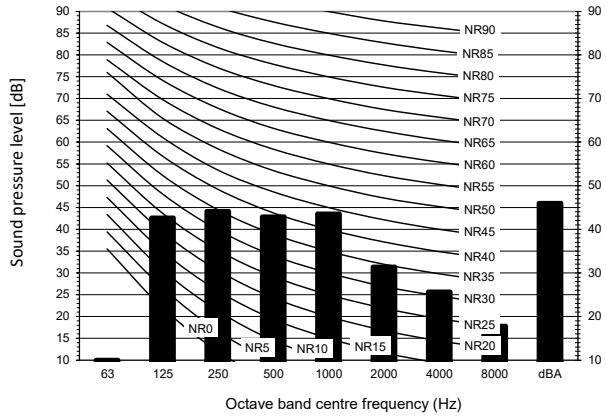
Notes

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

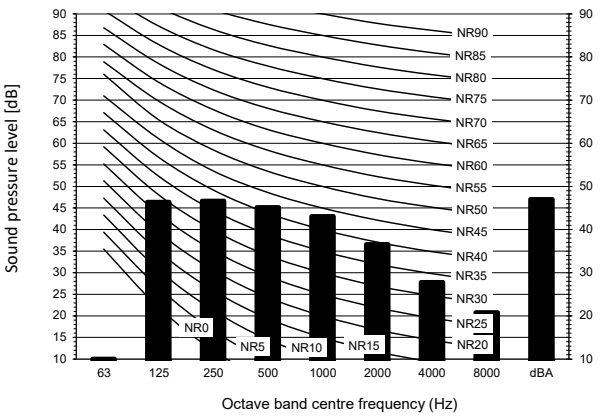
4D131996

RXF25F
ARXF25F

Cooling mode



Heating mode



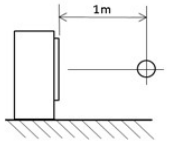
Legend

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

A Scale

B Fan speed: High

Location of microphone



Cooling	Total dB
A	B
dBA	46

Heating	Total dB
A	B
dBA	47

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

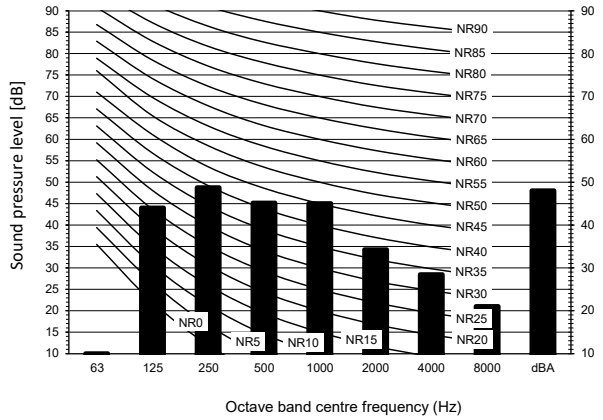
4D131997

9 Sound data

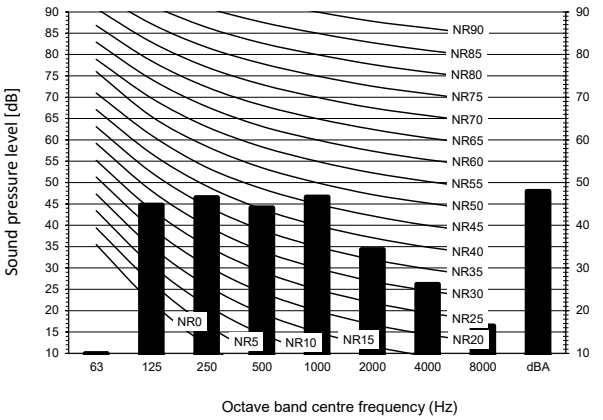
9 - 1 Sound Pressure Spectrum

RXF35F
ARXF35F

Cooling mode



Heating mode



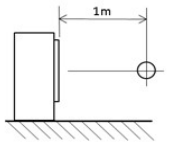
Legend

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

A Scale

B Fan speed: High

Location of microphone



Cooling	Total dB
A	B
dBA	48

Heating	Total dB
A	B
dBA	48

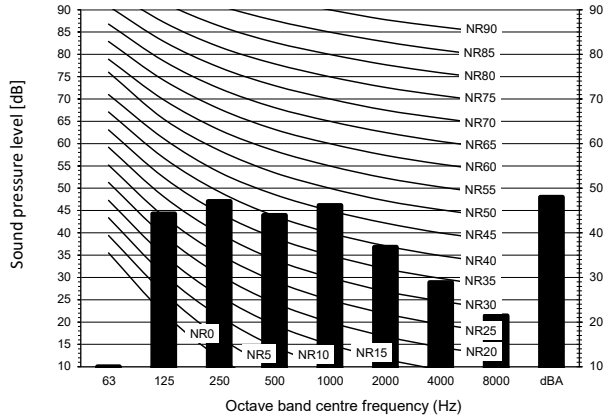
Notes

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

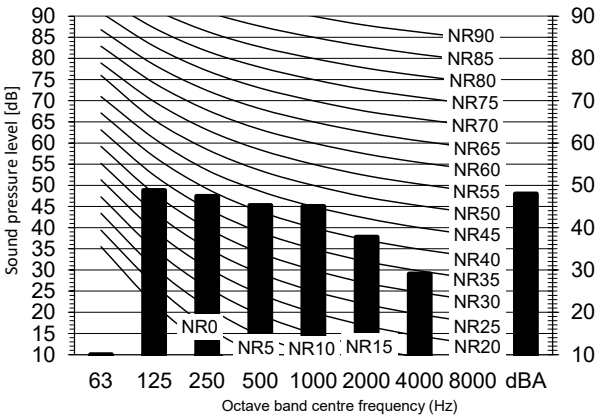
4D131998

RXF42F
ARXF42F

Cooling mode



Heating mode



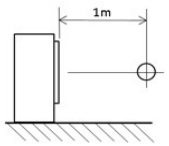
Legend

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

A Scale

B Fan speed: High

Location of microphone



Cooling	Total dB
A	B
dBA	48

Heating	Total dB
A	B
dBA	48

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

4D131999

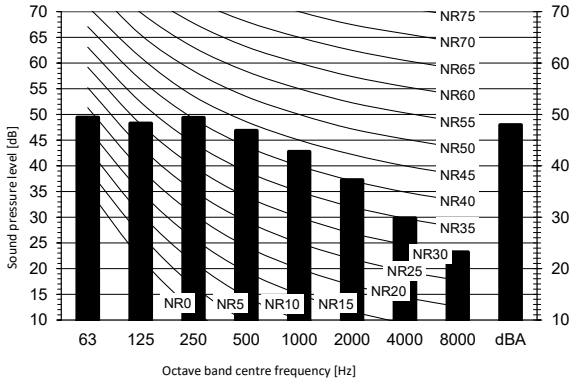
9 Sound data

9 - 1 Sound Pressure Spectrum

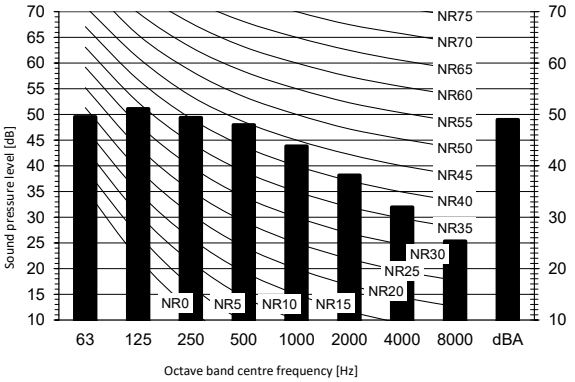
RXF50F
ARXF50F

9

Cooling mode



Heating mode



Legend

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

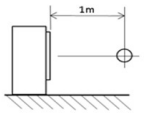
A Scale

B Fan speed: High

Cooling	Total dB
A	B
dBA	48

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

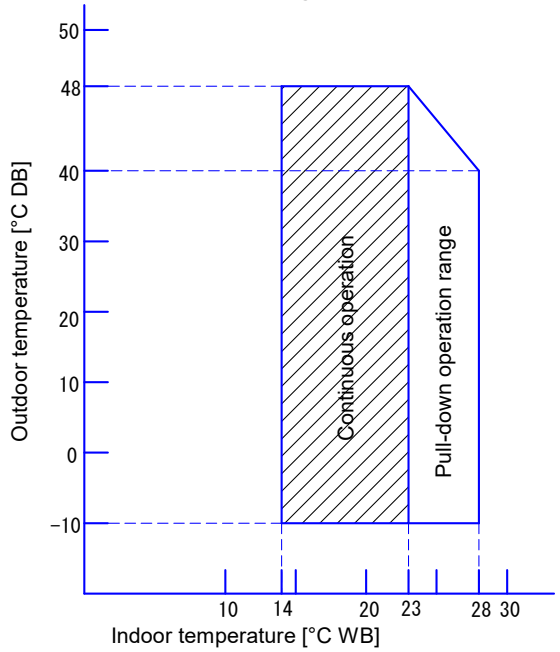
4D153717

10 Operation range

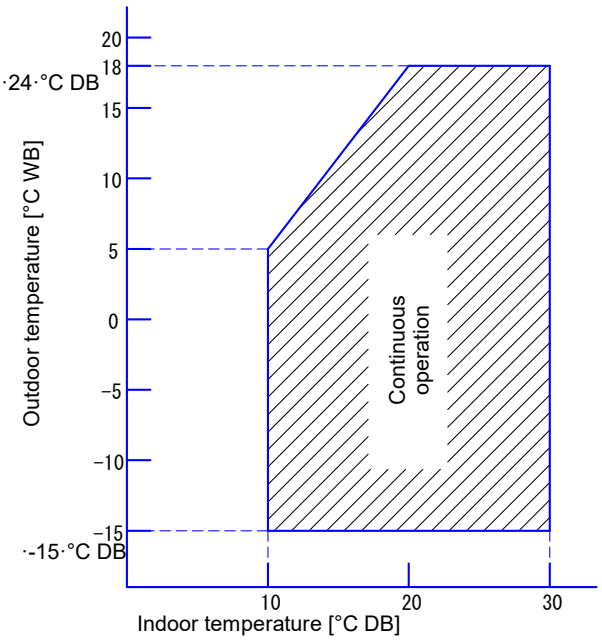
10 - 1 Operation Range

RXF-F
ARXF-F

Cooling



Heating



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

3D669693A

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