



technical data

RKS-F2V1B

air conditioning systems

Split
Sky Air

R-410A

Split - Sky Air

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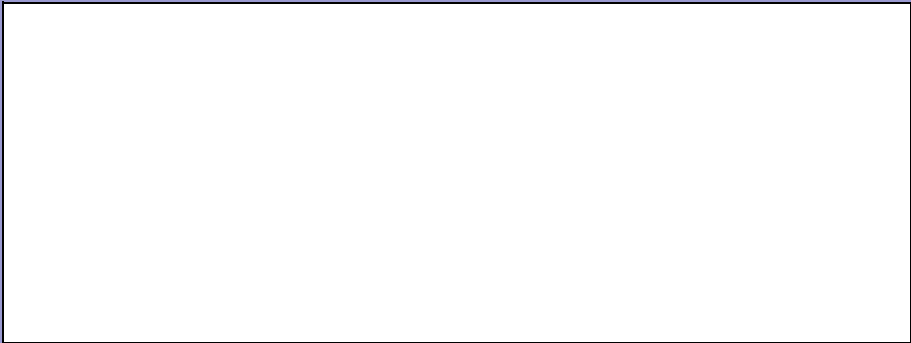
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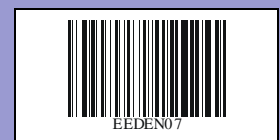


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DAIKIN EUROPE N.V.

Naamloze Vennootschap
Zandvoordestraat 300
B-8400 Oostende, Belgium
www.daikin.eu
BTW: BE 0412 120 336
RPR Oostende



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RKS-F2V1B

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1 Features

1



2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RKS25F2V1B	RKS35F2V1B	RKS50F2V1B	RKS60F2V1B	RKS71FV1B
For combination indoor units + outdoor units	Indoor Units			FVXS25FV1B	FVXS35FV1B	FTKS50FV1B	FTKS60FV1B	FTKS71FV1B
Cooling capacity	Minimum	kW		1.3	1.4	1.7	1.7	2.3
	Standard	kW		2.5	3.5	5.0	6.0	7.1
	Maximum	kW		3.0	3.8	6.0	6.7	8.5
Nominal input	Cooling	Minimum	kW	0.30	0.30	0.44	0.44	0.57
		Standard	kW	0.57	1.02	1.55	1.99	2.35
		Maximum	kW	0.92	1.25	2.08	2.40	3.20
For combination indoor units + outdoor units	EER	Nominal		4.39	3.43	3.23	3.02	3.02
	Energy Labeling Directive	Cooling		A	A	A	B	B
		Annual energy consumption	kWh		285	510	775	995
	Indoor Units				FCQ35C7VEB	FVXS50FV1B	FDKS60CVMB	
Cooling capacity	Minimum	kW			1.4	1.4	1.7	
	Standard	kW			3.4	5.0	6.0	
	Maximum	kW			3.7	5.6	6.5	
Nominal input	Cooling	Minimum	kW			0.50	0.44	
		Standard	kW		0.95	1.55	2.13	
		Maximum	kW			2.00	2.49	
For combination indoor units + outdoor units	EER	Nominal			3.58	3.23	2.82	
	Energy Labeling Directive	Cooling			A	A	C	
		Annual energy consumption	kWh			475	775	1065
	Indoor Units					FDKS50CVMB	FCQ60C7VEB	
Cooling capacity	Minimum	kW				1.7	0.9	
	Standard	kW				5.0	5.7	
	Maximum	kW				5.3	6.0	
Nominal input	Cooling	Minimum	kW			0.44		
		Standard	kW			1.65	1.64	
		Maximum	kW			1.93		
For combination indoor units + outdoor units	EER	Nominal				3.03	3.48	
	Energy Labeling Directive	Cooling				B	A	
		Annual energy consumption	kWh				825	820
	Indoor Units					FLKS50BAVMB	FFQ60B8V1B	
Cooling capacity	Minimum	kW				1.7		
	Standard	kW				4.9	5.8	
	Maximum	kW				5.3		
Nominal input	Cooling	Minimum	kW			0.44		
		Standard	kW			1.72	2.07	
		Maximum	kW			1.95		
For combination indoor units + outdoor units	EER	Nominal				2.85	2.80	
	Energy Labeling Directive	Cooling				C	D	
		Annual energy consumption	kWh				860	1035
	Indoor Units					FTKS50D2V1W	FBO60B8V1	
Cooling capacity	Minimum	kW				1.7		
	Standard	kW				5.0	5.7	
	Maximum	kW				5.2		
Nominal input	Cooling	Minimum	kW			0.44		
		Standard	kW			1.65	2.19	
		Maximum	kW			1.82		

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RKS25F2V1B	RKS35F2V1B	RKS50F2V1B	RKS60F2V1B	RKS71FV1B
For combination indoor units + outdoor units	EER	Nominal				3.03	2.60	
	Energy Labeling Directive	Cooling				B	E	
	Annual energy consumption	kWh				825	1095	
	Indoor Units					FTKS50D2V1L	FHQ60BVV1B	
Cooling capacity	Minimum	kW				1.7	1.7	
	Standard	kW				5.0	5.7	
	Maximum	kW				5.2	6.0	
Nominal input	Cooling	Minimum	kW			0.44	0.44	
		Standard	kW			1.65	2.15	
		Maximum	kW			1.82	2.23	
For combination indoor units + outdoor units	EER	Nominal				3.03	2.65	
	Energy Labeling Directive	Cooling				B	E	
	Annual energy consumption	kWh				825	1075	
	Indoor Units					FCQ50C7VEB		
Cooling capacity	Minimum	kW				0.9		
	Standard	kW				5.0		
	Maximum	kW				5.6		
Nominal input	Cooling	Standard	kW			1.41		
For combination indoor units + outdoor units	EER	Nominal				3.55		
	Energy Labeling Directive	Cooling				A		
	Annual energy consumption	kWh				705		
	Indoor Units					FBQ50B8V1		
Cooling capacity	Standard	kW				5.0		
Nominal input	Cooling	Standard	kW			1.92		
For combination indoor units + outdoor units	EER	Nominal				2.60		
	Energy Labeling Directive	Cooling				E		
	Annual energy consumption	kWh				960		
	Indoor Units					FFQ50B8V1B		
Cooling capacity	Standard	kW				4.7		
Nominal input	Cooling	Standard	kW			1.80		
For combination indoor units + outdoor units	EER	Nominal				2.61		
	Energy Labeling Directive	Cooling				D		
	Annual energy consumption	kWh				900		
	Indoor Units					FHQ50BVV1B		
Cooling capacity	Minimum	kW				1.7		
	Standard	kW				5.0		
	Maximum	kW				5.6		
Nominal input	Cooling	Minimum	kW			0.44		
		Standard	kW			1.83		
		Maximum	kW			2.02		
For combination indoor units + outdoor units	EER	Nominal				2.73		
	Energy Labeling Directive	Cooling				D		
	Annual energy consumption	kWh				915		

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RKS25F2V1B	RKS35F2V1B	RKS50F2V1B	RKS60F2V1B	RKS71FV1B	
Casing	Colour			Ivory White					
Dimensions	Unit	Height	mm	600	550	735	735	770	
		Width	mm	700	765	825	825	900	
		Depth	mm	210	285	300	300	320	
	Packing	Height	mm	696	617	797	797	900	
		Width	mm	786	882	960	960	925	
Depth		mm	286	363	390	390	390		
Weight	Unit		kg	14	34	48	47	71	
	Packed Unit		kg	18	40	52	52	78	
Heat Exchanger	Dimensions	Length	mm	805	805	845	845	859	
		Nr of Rows			2	2	2	2	2
		Fin Pitch	mm	1.4	1.4	1.8	1.8	1.4	
		Nr of Stages			24	24	32	32	34
	Tube type			Hi-Xa(7)	Hi-Xa(7)	Hi-Xa(8)	Hi-Xa(8)	Hi-Xa(7)	
	Fin	Type	Waffle fin						
Treatment		Anti-corrosion treatment (PE)							
Fan	Type			Propeller	Turbo fan	Propeller	Propeller	Propeller	
	Quantity			1	1	1	1	1	
	Air Flow Rate (nominal at 230V)	Cooling	m ³ /min	33.5	33.5	48.9	50.9	54.5	
		Motor			1	1	1	1	1
			Model	D23B-28	D23B-28	KFD-380-50-8A	KFD-380-50-8A	KFD-280-66-8A	
Motor	Speed (nominal)	Cooling	rpm	860(H) - 620(L)	860(H) - 620(L)	780	810	860	
Fan	Motor	Output	W	23	23		53	66	
Compressor	Quantity			1	1	1	1	1	
	Motor	Model		1YC23NXD#C	1YC23NXD#C	2YC36BXD#C	2YC36BXD#C	2YC63BXD#D	
		Type			Hermetically sealed swing compressor				
		Motor Output	W	600		1100	1100	1920	
Operation Range	Cooling	Min	°CDB	-10	-10	-10	-10	-10	
		Max	°CDB	46	+46	46	46	46	
Sound Level (nominal)	Cooling	Sound Power	dBA	61	62	61	63	66	
		Sound Pressure	dBA	46(H) - 43(L)	47(H) - 44(L)	47(H)/44(L)	49(H) - 46(SL)	52	
Sound Level (Night quiet)	Sound Pressure		dBA					49	
Refrigerant	Type			R-410A					
	Charge		kg	1.0	1.0	1.5	1.5	2.3	
Refrigerant Oil	Type			FVC50K					
	Charged Volume		l	0.375	0.375	0.65	0.65	0.75	
Piping connections	Liquid (OD)	Quantity				1	1	1	
		Diameter (OD)	mm	6.35	6.35	6.35	6.35	6.35	
	Gas	Quantity				1	1	1	
		Diameter (OD)	mm	9.5	9.5	12.7	12.7	15.9	
	Drain	Quantity				1	1	1	
		Diameter (OD)	mm	20	20	20	18	18	
	Piping Length	Maximum	m	20	20	30	30	30	
		Chargeless	m	10	10	10	10	10	
	Additional Refrigerant Charge		kg/m	0.02/>10m	0.02/10m	0.02/>10	0.02/>10m	0.02/>10m	
	Installation height difference	Maximum	m	15	15	20	20	20	
Heat Insulation			Both liquid and gas pipes						

2 Specifications

2-2 TECHNICAL SPECIFICATIONS		RKS25F2V1B	RKS35F2V1B	RKS50F2V1B	RKS60F2V1B	RKS71FV1B
Standard Accessories	Item	Installation manual				
	Quantity	1	1	1	1	1
Notes		Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.				

2

2-3 ELECTRICAL SPECIFICATIONS			RKS25F2V1B	RKS35F2V1B	RKS50F2V1B	RKS60F2V1B	RKS71FV1B	
Power Supply	Name		V1					
	Phase		1	1	1	1	1	
	Frequency	Hz	50	50	50	50	50	
	Voltage	V	220-240/220-230	220-240	220-240	220-240	220-240/220-230	
Current	Nominal running current (RLA)	Cooling (A)	A	3.2	4.6	6.64	8.62	10.20
	Starting current (cooling/heating)		A	3.5	4.9	7.2	9.2	10.8
	Maximum Running Current		A	3.4	4.8	7.02	9.01	10.59
Wiring connections	For Power Supply	Quantity	3	3	3	3	3	
	For connection with indoor	Quantity	4	4	4	4	4	
		Remark	(including earth wiring)					

3 Electrical data

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FVXS25FV1B	RKS25F2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	52	3.0	23	0.16	48	0.05
		50 - 230					2.8				
		50 - 240					2.7				

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SYMBOLS

- MCA : Min. Circuit Amps (A)
- MFA : Max. Fuse Amps (A)
- RHz : Rated operating frequency (Hz)
- RLA : Rated Load Amps (A)
- OFM : Outdoor Fan Motor
- IFM : Indoor Fan Motor
- FLA : Full Load Amps (A)
- W : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19.0°CWB
Outdoor temp. : 35°CDB
2. Maximum allowable voltage unbalance between phases is 2%
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.
5. For more details concerning conditional connections, see <http://extranet.daikineurope.com>, select "E-Data Books". Finally, click on the document title of your choice.

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FVXS35FV1B	RKS35F2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	9.75	10.0	80	4.4	23	0.16	48	0.05
		50 - 230					4.2				
		50 - 240					4.0				

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SYMBOLS

- MCA : Min. Circuit Amps (A)
- MFA : Max. Fuse Amps (A)
- RHz : Rated operating frequency (Hz)
- RLA : Rated Load Amps (A)
- OFM : Outdoor Fan Motor
- IFM : Indoor Fan Motor
- FLA : Full Load Amps (A)
- W : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19.0°CWB
Outdoor temp. : 35°CDB
2. Maximum allowable voltage unbalance between phases is 2%
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.
5. For more details concerning conditional connections, see <http://extranet.daikineurope.com>, select "E-Data Books". Finally, click on the document title of your choice.

3 Electrical data

3

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTKS50FV1B	RKS50F2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20.0	67	6.7	53	0.27	43	0.16
		50 - 230					6.4				
		50 - 240					6.1				
FTKS60FV1B	RKS60F2V1B	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				
FTKS71FV1B	RKS71FV1B	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				

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SYMBOLS

- MCA : Min. Circuit Amps (A)
- MFA : Max. Fuse Amps (A)
- RHz : Rated operating frequency (Hz)
- RLA : Rated Load Amps (A)
- OFM : Outdoor Fan Motor
- IFM : Indoor Fan Motor
- FLA : Full Load Amps (A)
- W : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19.0°CWB
Outdoor temp. : 35°CDB
2. Maximum allowable voltage unbalance between phases is 2%
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.
5. For more details concerning conditional connections, see <http://extranet.daikineurope.com>, select "E-Data Books". Finally, click on the document title of your choice.

4 Capacity tables

4 - 1 Cooling capacity tables


FVXS25FV1B+RKS25F2V1B																		AFR	8.2
Cooling																		BF	0.10
220-240V [50Hz]																			
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	2.56	2.00	0.44	2.44	1.95	0.48	2.33	1.89	0.52	2.28	1.87	0.54	2.21	1.84	0.56	2.10	1.78	0.61
16.0	22	2.68	1.97	0.44	2.56	1.92	0.48	2.44	1.87	0.52	2.40	1.84	0.54	2.33	1.81	0.57	2.21	1.76	0.61
18.0	25	2.79	2.08	0.44	2.68	2.03	0.48	2.56	1.98	0.53	2.51	1.96	0.54	2.44	1.93	0.57	2.33	1.89	0.61
19.0	27	2.85	2.21	0.44	2.73	2.16	0.49	2.62	2.11	0.53	2.57	2.09	0.54	2.50	2.07	0.57	2.38	2.02	0.61
22.0	30	3.02	2.13	0.45	2.91	2.09	0.49	2.79	2.05	0.53	2.74	2.03	0.55	2.67	2.01	0.57	2.56	1.97	0.62
24.0	32	3.14	2.08	0.45	3.02	2.04	0.49	2.90	2.01	0.53	2.86	1.99	0.55	2.79	1.97	0.58	2.67	1.93	0.62

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

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


FVXS35FV1B+RKS35F2V1B																		AFR	8.5
Cooling																		BF	0.11
220-240V [50Hz]																			
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	3.59	2.54	0.78	3.42	2.46	0.86	3.26	2.37	0.93	3.19	2.34	0.96	3.10	2.29	1.01	2.93	2.21	1.08
16.0	22	3.75	2.50	0.79	3.58	2.42	0.86	3.42	2.34	0.94	3.36	2.31	0.97	3.26	2.26	1.01	3.10	2.18	1.09
18.0	25	3.91	2.60	0.79	3.75	2.52	0.87	3.58	2.45	0.94	3.52	2.42	0.97	3.42	2.37	1.02	3.26	2.30	1.09
19.0	27	3.99	2.72	0.79	3.83	2.65	0.87	3.66	2.57	0.94	3.60	2.55	0.97	3.50	2.50	1.02	3.34	2.43	1.10
22.0	30	4.23	2.61	0.80	4.07	2.55	0.88	3.90	2.49	0.95	3.84	2.46	0.98	3.74	2.43	1.03	3.58	2.36	1.10
24.0	32	4.39	2.54	0.81	4.23	2.48	0.88	4.07	2.42	0.96	4.00	2.40	0.99	3.90	2.37	1.03	3.74	2.31	1.11

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

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

4 Capacity tables

4 - 1 Cooling capacity tables

4

FCQ35C7VEB+RKS35F2V1B

AFR	10.5
BF	0.28

Cooling

220-240V [50Hz]


Indoor		Outdoor temperature (°CDB)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	3.48	2.49	0.73	3.33	2.40	0.80	3.17	2.32	0.87	3.10	2.29	0.90	3.01	2.24	0.94	2.85	2.16	1.01
16.0	22	3.64	2.44	0.73	3.48	2.37	0.80	3.32	2.29	0.87	3.26	2.26	0.90	3.17	2.21	0.94	3.01	2.14	1.01
18.0	25	3.80	2.54	0.74	3.64	2.47	0.81	3.48	2.40	0.88	3.42	2.37	0.91	3.32	2.33	0.95	3.16	2.26	1.02
19.0	27	3.87	2.67	0.74	3.72	2.60	0.81	3.56	2.53	0.88	3.49	2.50	0.91	3.40	2.46	0.95	3.24	2.39	1.02
22.0	30	4.11	2.57	0.75	3.95	2.50	0.82	3.79	2.44	0.89	3.73	2.42	0.91	3.63	2.38	0.96	3.48	2.32	1.03
24.0	32	4.27	2.49	0.75	4.11	2.44	0.82	3.95	2.38	0.89	3.89	2.36	0.92	3.79	2.33	0.96	3.63	2.27	1.03

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

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

FTKS50FV1B+RKS50F2V1B

AFR	14.7
BF	0.28

Cooling

220-240V [50Hz]


Indoor		Outdoor temperature (°CDB)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.12	3.61	1.19	4.89	3.49	1.30	4.66	3.37	1.42	4.56	3.32	1.46	4.42	3.25	1.53	4.19	3.13	1.65
16.0	22	5.35	3.55	1.20	5.12	3.43	1.31	4.89	3.32	1.43	4.79	3.27	1.47	4.65	3.21	1.54	4.42	3.10	1.65
18.0	25	5.58	3.69	1.20	5.35	3.58	1.32	5.12	3.47	1.43	5.02	3.43	1.48	4.88	3.37	1.55	4.65	3.26	1.66
19.0	27	5.70	3.86	1.21	5.47	3.75	1.32	5.23	3.65	1.44	5.14	3.61	1.48	5.00	3.55	1.56	4.77	3.45	1.66
22.0	30	6.04	3.71	1.22	5.81	3.62	1.33	5.58	3.52	1.45	5.49	3.49	1.49	5.35	3.43	1.56	5.11	3.35	1.67
24.0	32	6.27	3.60	1.22	6.04	3.52	1.34	5.81	3.43	1.45	5.72	3.40	1.50	5.58	3.35	1.57	5.34	3.27	1.68

3D051926A

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  shows nominal (rated) capacities and power input.
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
- Capacities are based on following conditions:
 Corresponding refrigerant piping length: 7.5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

4 Capacity tables

4 - 1 Cooling capacity tables

FVXS50FV1B+RKS50F2V1B																			AFR		10.7					
Cooling																			BF		0.13					
																			220-240V [50Hz]							
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	4.53	3.19	1.13	4.53	3.19	1.27	4.53	3.19	1.41	4.53	3.19	1.46	4.42	3.13	1.53	4.19	3.01	1.65							
16.0	22	5.35	3.45	1.20	5.12	3.33	1.31	4.89	3.21	1.43	4.79	3.16	1.47	4.65	3.09	1.54	4.42	2.98	1.65							
18.0	25	5.58	3.56	1.20	5.35	3.45	1.32	5.12	3.34	1.43	5.02	3.29	1.48	4.88	3.23	1.55	4.65	3.12	1.66							
19.0	27	5.70	3.71	1.21	5.47	3.60	1.32	5.23	3.49	1.44	5.14	3.45	1.48	5.00	3.39	1.55	4.77	3.28	1.66							
22.0	30	6.04	3.56	1.22	5.81	3.46	1.33	5.58	3.37	1.45	5.49	3.33	1.49	5.35	3.27	1.56	5.11	3.18	1.67							
24.0	32	6.27	3.45	1.22	6.04	3.36	1.34	5.81	3.27	1.45	5.72	3.24	1.50	5.58	3.19	1.57	5.34	3.10	1.68							

3D056338

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

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

4 Capacity tables

4 - 1 Cooling capacity tables


FFQ50B8V1B+RKS50F2V1B																			AFR		12.0	
Cooling																			BF		0.16	
																			230V [50Hz]			
Indoor		Outdoor temperature (°CDB)																				
EWB (°C)	EDB (°C)	20			25			30			32			35			40					
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
14.0	20	4.76	3.51	1.45	4.61	3.44	1.55	4.46	3.37	1.64	4.40	3.34	1.68	4.31	3.30	1.74	4.16	3.23	1.83			
16.0	22	4.92	3.54	1.48	4.77	3.47	1.57	4.62	3.40	1.67	4.56	3.38	1.70	4.47	3.33	1.76	4.32	3.26	1.86			
18.0	25	5.07	3.58	1.50	4.92	3.51	1.60	4.77	3.44	1.69	4.71	3.41	1.73	4.62	3.37	1.79	4.47	3.30	1.88			
19.0	27	5.15	3.59	1.52	5.00	3.52	1.61	4.85	3.45	1.71	4.79	3.43	1.74	4.70	3.38	1.80	4.55	3.31	1.90			
22.0	30	5.38	3.65	1.55	5.23	3.58	1.65	5.08	3.51	1.74	5.02	3.48	1.78	4.93	3.44	1.84	4.78	3.37	1.93			
24.0	32	5.54	3.68	1.58	5.39	3.61	1.68	5.24	3.54	1.77	5.18	3.51	1.81	5.09	3.47	1.87	4.94	3.40	1.96			

3D041022

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  shows nominal (rated) capacities and power input.
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- SHC is based on each EWB and EDB
 $SHC^* = SHC \text{ correction for other dry bulb} = 0.02 \times AFR(m^3/min.) \times (1 - BF) \times (DB^* - EDB)$
 Add SHC* to SHC.
- Capacities are based on following conditions:
 Corresponding refrigerant piping length: 7.5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

4 Capacity tables

4 - 1 Cooling capacity tables

FBQ50B8V1+RKS50F2V1B

Cooling 220-240V [50Hz]


Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			30			32			35			40		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
50	14,0	20,0	5,1	3,6	1,57	4,9	3,5	1,67	4,8	3,4	1,76	4,7	3,4	1,80	4,6	3,4	1,86	4,5	3,3	1,95
	16,0	22,0	5,2	3,6	1,60	5,1	3,5	1,69	4,9	3,5	1,79	4,9	3,4	1,83	4,8	3,4	1,88	4,6	3,3	1,98
	18,0	25,0	5,4	3,6	1,62	5,2	3,6	1,72	5,1	3,5	1,81	5,0	3,5	1,85	4,9	3,4	1,91	4,8	3,4	2,00
	19,0	27,0	5,5	3,7	1,64	5,3	3,6	1,73	5,2	3,5	1,83	5,1	3,5	1,87	5,0	3,5	1,92	4,9	3,4	2,02
	22,0	30,0	5,7	3,7	1,68	5,5	3,6	1,77	5,4	3,6	1,87	5,3	3,5	1,90	5,2	3,5	1,96	5,1	3,4	2,08
	24,0	32,0	5,8	3,7	1,70	5,7	3,7	1,80	5,5	3,6	1,89	5,5	3,6	1,93	5,4	3,5	1,99	5,2	3,5	2,08

3TW25112-1B

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  shows nominal (rated) capacities and power input.
- SHC is based on each EWB and EDB
 $SHC^* = SHC \text{ correction for other dry bulb} = 0.29 \times 60 \times AFR [m^3/min.] \times (1-BF) \times (DB^*-EDB)/860$
 Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible.
Do not extrapolate.
- Capacities are based on following conditions:
 Corresponding refrigerant piping length: 7.5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

Model		FBQ
35	AFR	11.5
	BF	0.15
50	AFR	14
	BF	0.15
60	AFR	19
	BF	0.11

4 Capacity tables

4 - 1 Cooling capacity tables

4

FCQ50C7VEB+RKS50F2V1B

AFR	12.5
BF	0.21

Cooling 220-240V [50Hz]


Indoor		Outdoor temperature (°CDB)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.12	3.56	1.08	4.89	3.43	1.19	4.66	3.31	1.29	4.56	3.26	1.33	4.42	3.18	1.39	4.19	3.06	1.50
16.0	22	5.35	3.49	1.09	5.12	3.37	1.19	4.89	3.26	1.30	4.79	3.21	1.34	4.65	3.14	1.40	4.42	3.03	1.50
18.0	25	5.58	3.62	1.09	5.35	3.50	1.20	5.12	3.40	1.30	5.02	3.35	1.34	4.88	3.29	1.41	4.65	3.18	1.51
19.0	27	5.70	3.77	1.10	5.47	3.67	1.20	5.23	3.56	1.31	5.14	3.52	1.35	5.00	3.46	1.41	4.77	3.35	1.51
22.0	30	6.04	3.62	1.11	5.81	3.53	1.21	5.58	3.44	1.32	5.49	3.40	1.36	5.35	3.34	1.42	5.11	3.25	1.52
24.0	32	6.27	3.52	1.11	6.04	3.43	1.22	5.81	3.34	1.32	5.72	3.31	1.36	5.58	3.26	1.43	5.34	3.18	1.53

3D057249

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

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

FTKS60FV1B+RKS60F2V1B

AFR	16.2
BF	0.29

Cooling 220-240V [50Hz]


Indoor		Outdoor temperature (°CDB)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.60	3.94	1.49	5.60	3.94	1.66	5.59	3.94	1.82	5.48	3.88	1.88	5.31	3.79	1.97	5.03	3.64	2.12
16.0	22	6.42	4.17	1.54	6.14	4.02	1.68	5.86	3.88	1.83	5.75	3.82	1.89	5.59	3.74	1.98	5.31	3.60	2.12
18.0	25	6.70	4.31	1.54	6.42	4.17	1.69	6.14	4.04	1.84	6.03	3.99	1.90	5.86	3.91	1.99	5.58	3.78	2.13
19.0	27	6.84	4.49	1.55	6.56	4.36	1.70	6.28	4.23	1.84	6.17	4.18	1.90	6.00	4.10	1.99	5.72	3.98	2.14
22.0	30	7.25	4.31	1.56	6.97	4.19	1.71	6.69	4.08	1.86	6.58	4.04	1.91	6.41	3.97	2.00	6.14	3.86	2.15
24.0	32	7.53	4.18	1.57	7.25	4.07	1.72	6.97	3.97	1.86	6.86	3.93	1.92	6.69	3.87	2.01	6.41	3.77	2.16

3D051927A

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  shows nominal (rated) capacities and power input.
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
- Capacities are based on following conditions:
 Corresponding refrigerant piping length: 7.5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

4 Capacity tables

4 - 1 Cooling capacity tables


FFQ60B8V1B+RKS60F2V1B																			AFR	15.0
Cooling																			BF	0.11
																			230V [50Hz]	
Indoor		Outdoor temperature (°CDB)																		
EWB (°C)	EDB (°C)	20			25			30			32			35			40			
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	
14.0	20	5.86	4.30	1.72	5.71	4.23	1.82	5.56	4.16	1.91	5.50	4.13	1.95	5.41	4.09	2.01	5.26	4.02	2.10	
16.0	22	6.02	4.34	1.75	5.87	4.27	1.84	5.72	4.20	1.94	5.66	4.17	1.97	5.57	4.13	2.03	5.42	4.06	2.13	
18.0	25	6.17	4.37	1.77	6.02	4.30	1.87	5.87	4.23	1.96	5.81	4.20	2.00	5.72	4.16	2.06	5.57	4.09	2.15	
19.0	27	6.25	4.39	1.79	6.10	4.32	1.88	5.95	4.25	1.98	5.89	4.22	2.01	5.80	4.18	2.07	5.65	4.11	2.17	
22.0	30	6.48	4.44	1.82	6.33	4.37	1.92	6.18	4.30	2.01	6.12	4.27	2.05	6.03	4.23	2.11	5.88	4.16	2.20	
24.0	32	6.64	4.47	1.85	6.49	4.40	1.95	6.34	4.33	2.04	6.28	4.30	2.08	6.19	4.26	2.14	6.04	4.19	2.23	

3D041027

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  shows nominal (rated) capacities and power input.
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- SHC is based on each EWB and EDB
 $SHC^* = SHC \text{ correction for other dry bulb} = 0.02 * AFR(m^3/min.) * (1 - BF) * (DB^* - EDB)$
 Add SHC* to SHC.
- Capacities are based on following conditions:
 Corresponding refrigerant piping length: 7.5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

4 Capacity tables

4 - 1 Cooling capacity tables

FBQ60B8V1+RKS60F2V1B

Cooling 220-240V [50Hz]


Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			30			32			35			40		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
60	14,0	20,0	5,8	4,6	1,84	5,6	4,6	1,94	5,5	4,5	2,08	5,4	4,5	2,07	5,3	4,4	2,13	5,2	4,3	2,22
	16,0	22,0	5,9	4,7	1,87	5,8	4,6	1,96	5,6	4,5	2,06	5,6	4,5	2,10	5,5	4,5	2,15	5,3	4,4	2,25
	18,0	25,0	6,1	4,7	1,89	5,9	4,6	1,99	5,8	4,6	2,08	5,7	4,5	2,12	5,6	4,5	2,18	5,5	4,4	2,27
	19,0	27,0	6,2	4,7	1,91	6,0	4,6	2,00	5,9	4,6	2,10	5,8	4,5	2,13	5,7	4,5	2,19	5,6	4,4	2,29
	22,0	30,0	6,4	4,8	1,95	6,2	4,7	2,04	6,1	4,6	2,14	6,0	4,6	2,17	5,9	4,6	2,23	5,8	4,5	2,33
	24,0	32,0	6,5	4,8	1,97	6,4	4,7	2,07	6,2	4,7	2,18	6,2	4,6	2,20	6,1	4,6	2,26	5,9	4,5	2,35

3TW25112-1B

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  shows nominal (rated) capacities and power input.
- SHC is based on each EWB and EDB
 $SHC^* = SHC \text{ correction for other dry bulb}$
 $= 0.29 \times 60 \times AFR [m^3/min.] \times (1-BF) \times (DB^*-EDB)/860$
 Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible.
Do not extrapolate.
- Capacities are based on following conditions:
 Corresponding refrigerant piping length: 7.5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

Model		FBQ
35	AFR	11.5
	BF	0.15
50	AFR	14
	BF	0.15
60	AFR	19
	BF	0.11

4 Capacity tables

4 - 1 Cooling capacity tables


FCQ60C7VEB+RKS60F2V1B																			AFR	13.5
Cooling																			BF	0.21
																			220-240V [50Hz]	
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		5.84	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

3D057251

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

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


FTKS71FV1B+RKS71FV1B																			AFR	17.4
Cooling																			BF	0.30
																			220-240V [50Hz]	
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		5.93	4.18	1.64	5.93	4.18	1.86	5.93	4.18	2.07	5.93	4.18	2.16	5.93	4.18	2.29	5.93	4.18	2.50
16.0	22		7.28	4.67	1.78	7.27	4.66	1.99	6.94	4.48	2.16	6.81	4.41	2.23	6.61	4.31	2.33	6.28	4.14	2.51
18.0	25		7.93	4.98	1.82	7.60	4.81	2.00	7.27	4.65	2.17	7.13	4.58	2.24	6.94	4.48	2.34	6.61	4.33	2.52
19.0	27		8.09	5.16	1.83	7.76	5.00	2.00	7.43	4.84	2.18	7.30	4.78	2.25	7.10	4.69	2.35	6.77	4.53	2.52
22.0	30		8.58	4.95	1.84	8.25	4.81	2.02	7.92	4.67	2.19	7.79	4.61	2.26	7.59	4.53	2.37	7.26	4.39	2.54
24.0	32		8.91	4.79	1.85	8.58	4.66	2.03	8.25	4.53	2.20	8.12	4.48	2.27	7.92	4.40	2.38	7.59	4.28	2.55

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

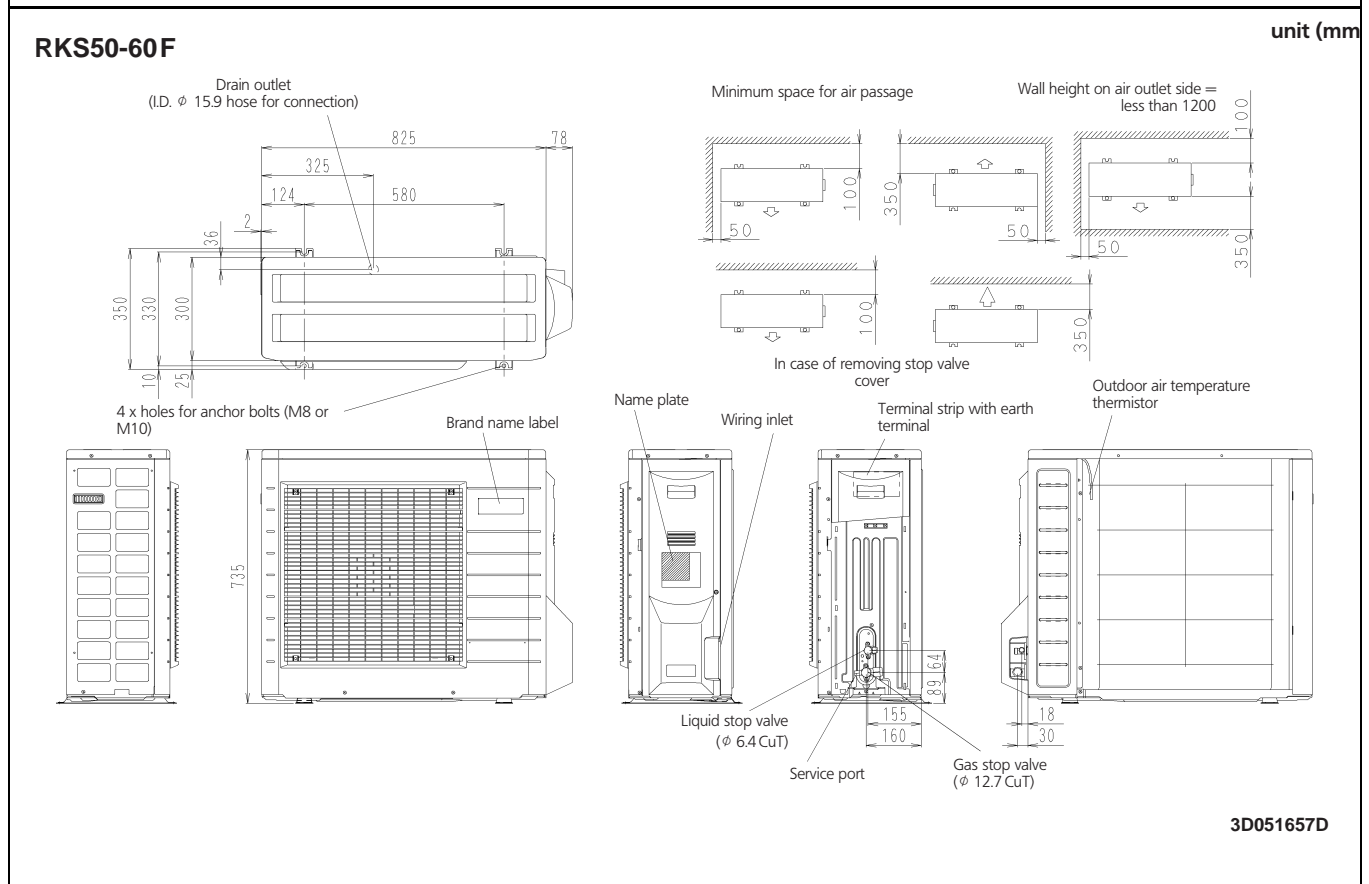
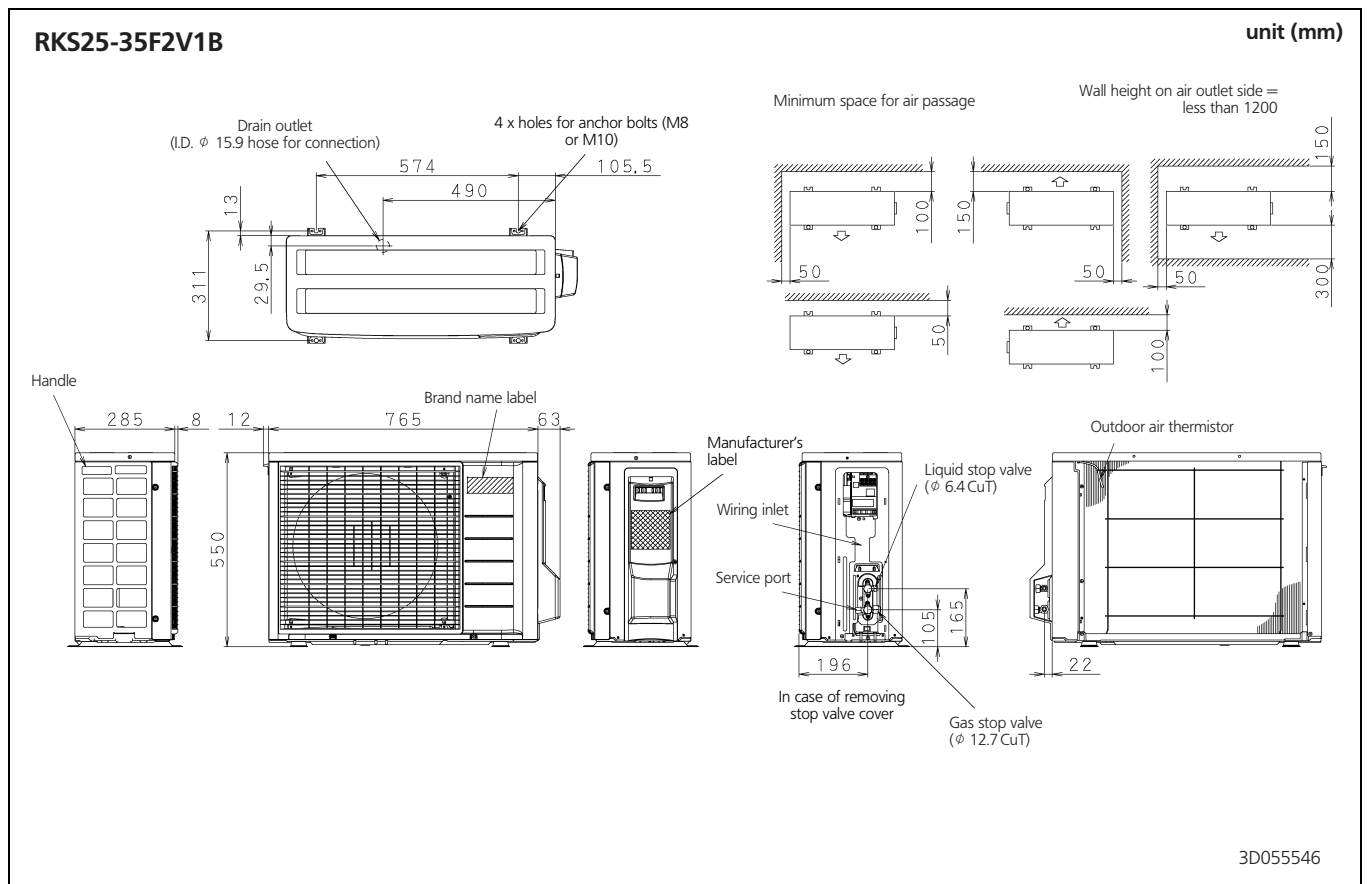
NOTES

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

5 Dimensional drawing & centre of gravity

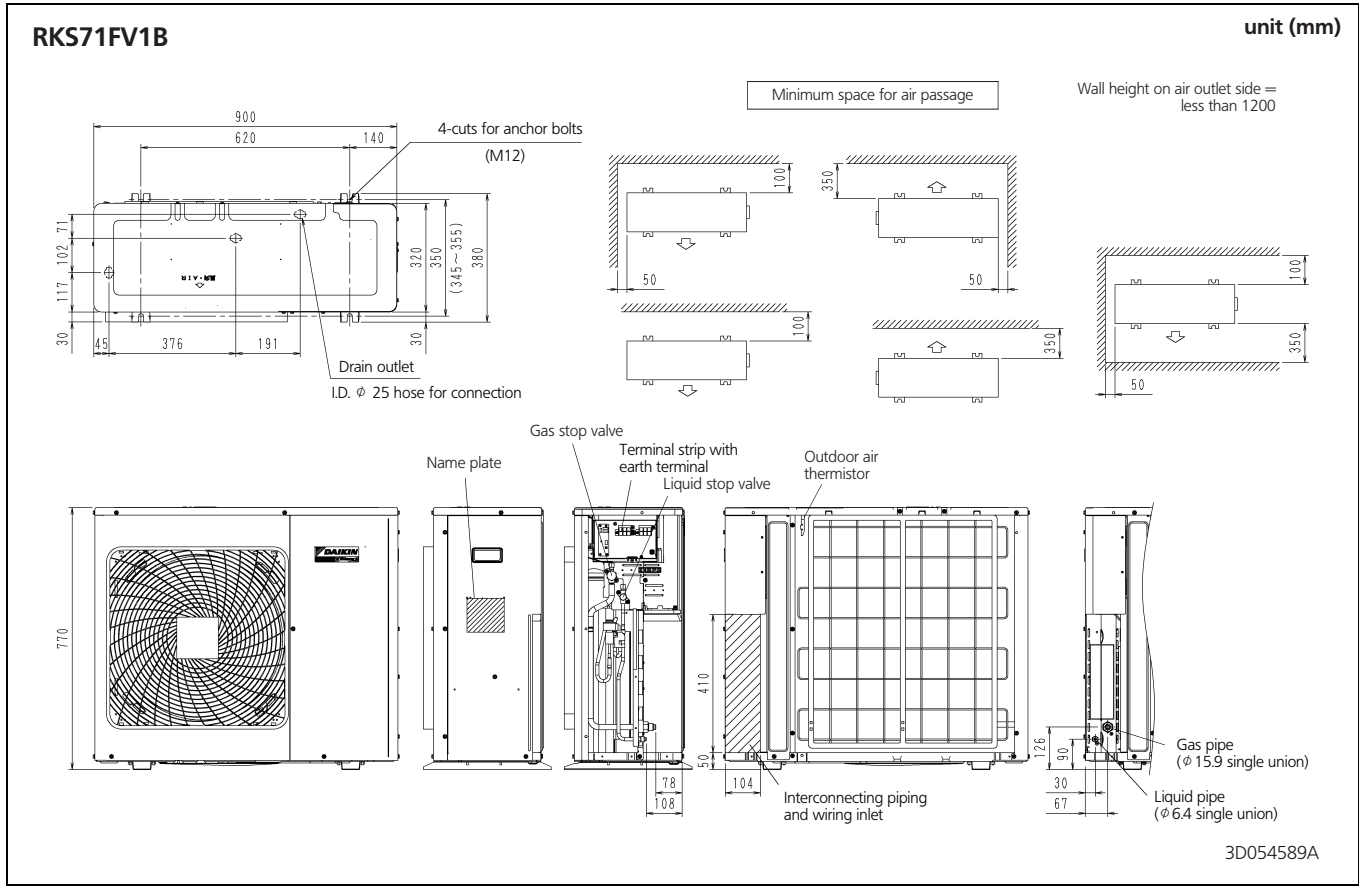
5 - 1 Dimensional drawing

5



5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

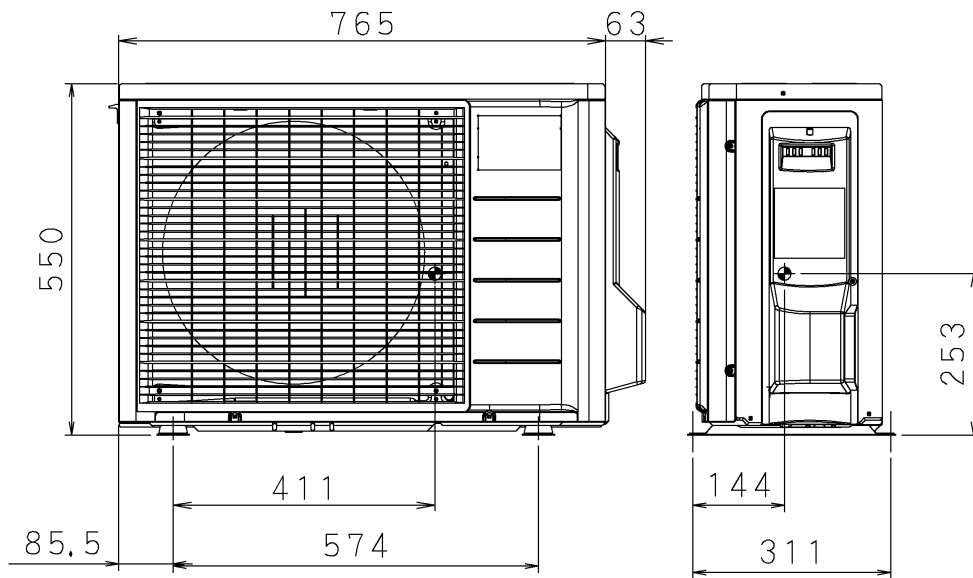


5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

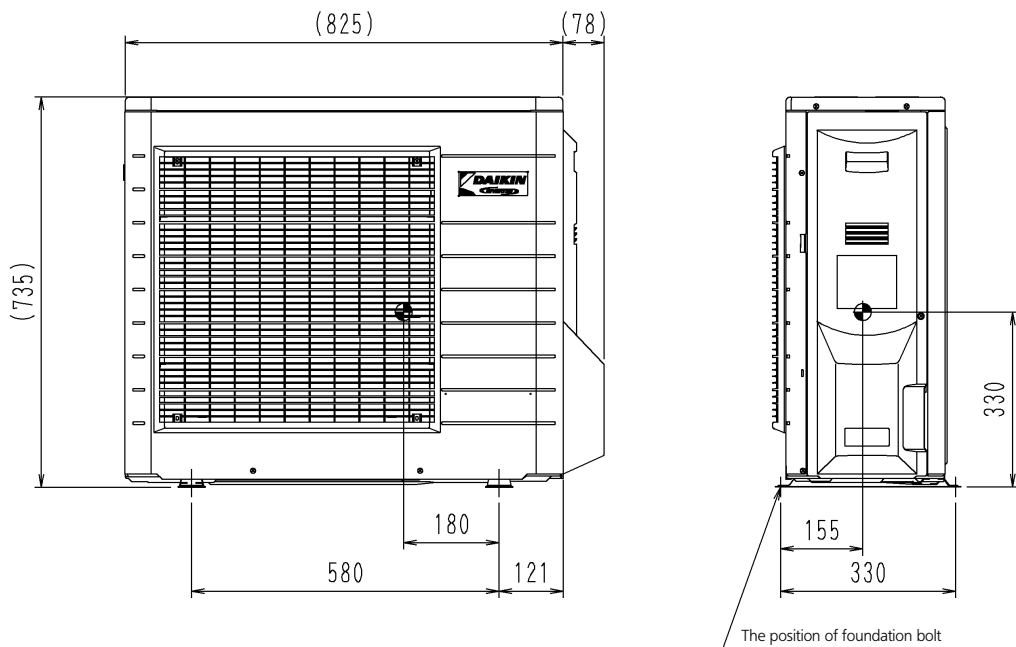
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RKS25-35F2V1B



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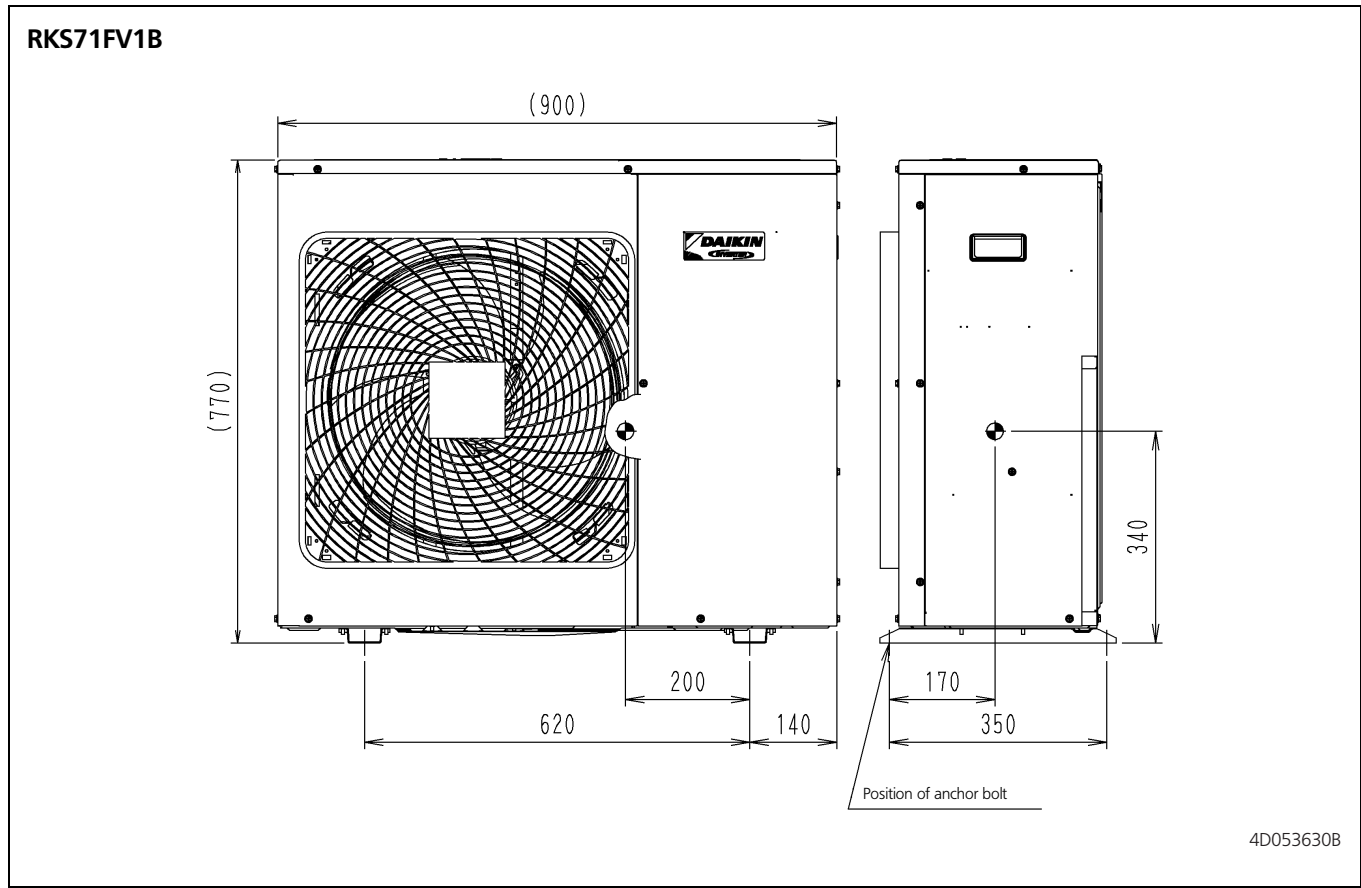
RKS50-60F2V1B



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5 Dimensional drawing & centre of gravity

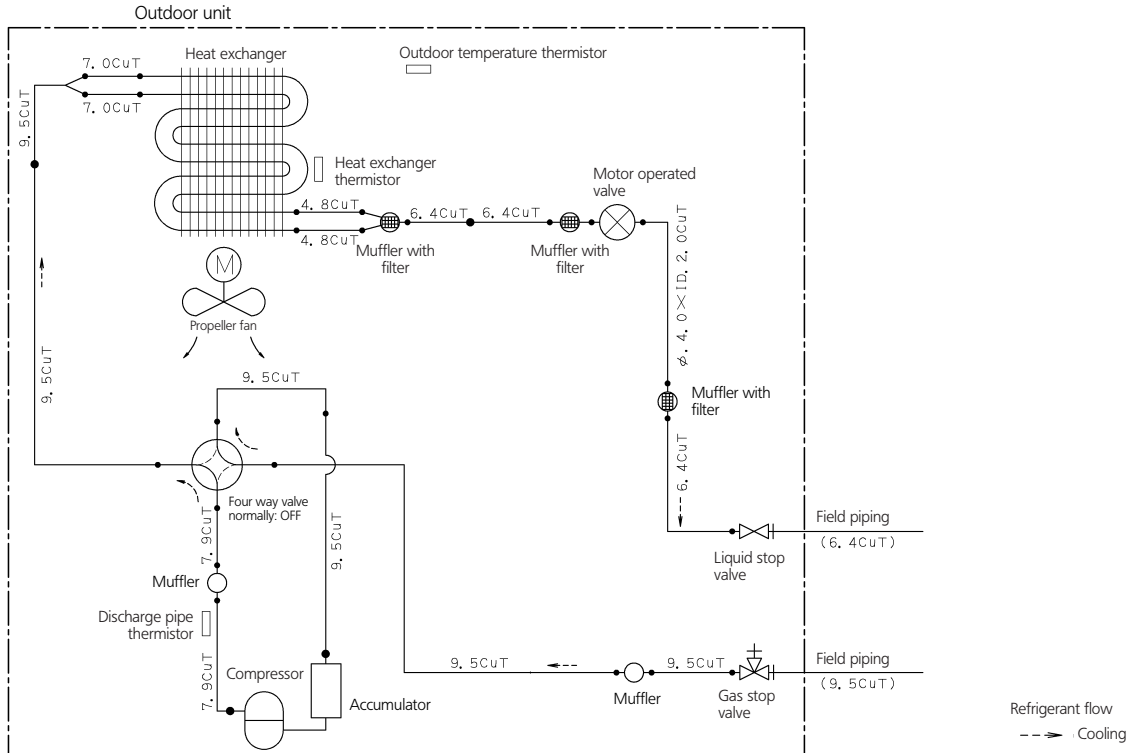
5 - 2 Centre of gravity



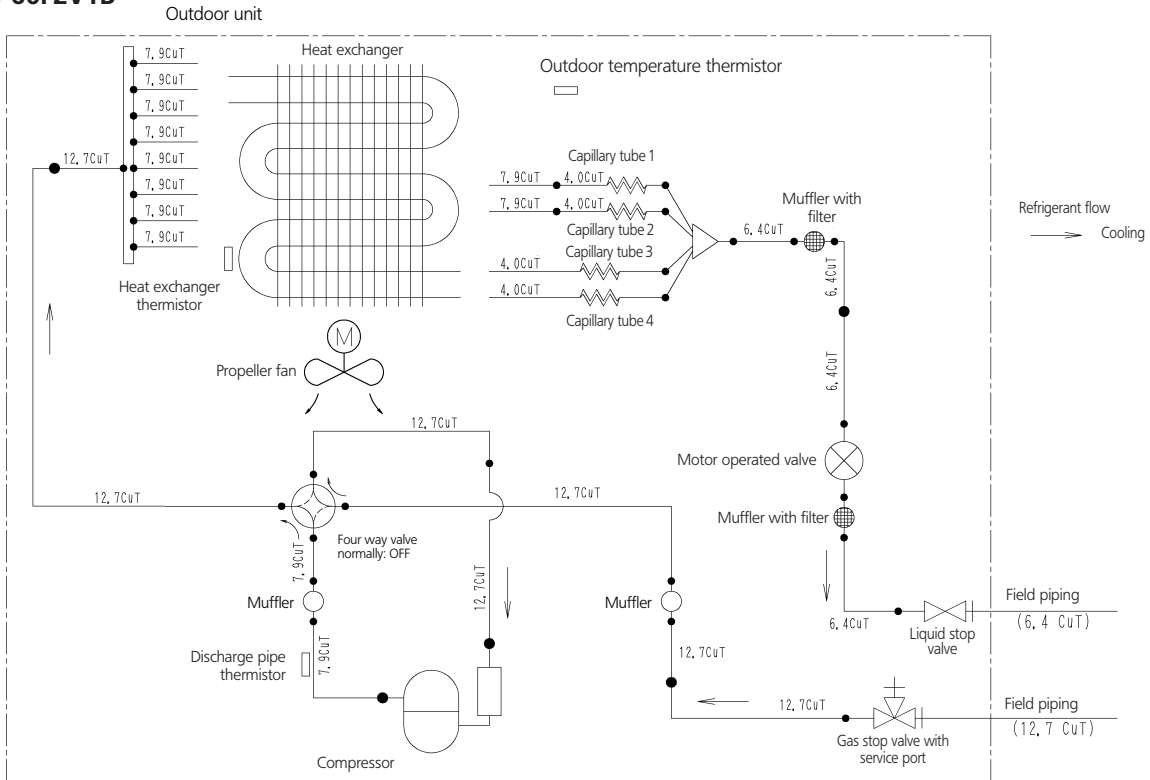
6 Piping diagram

6

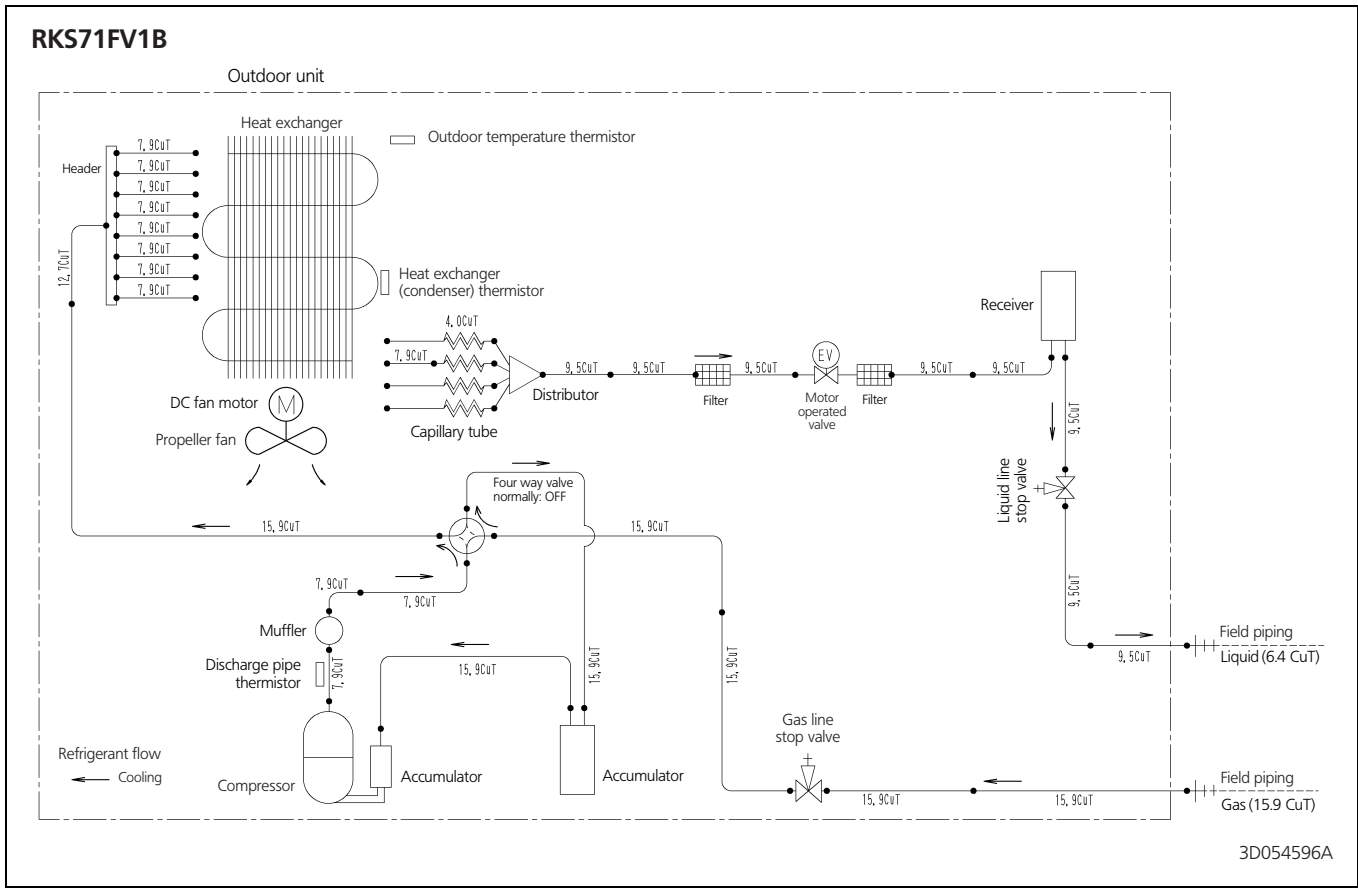
RKS25-35F



RKS50-60F2V1B



6 Piping diagram

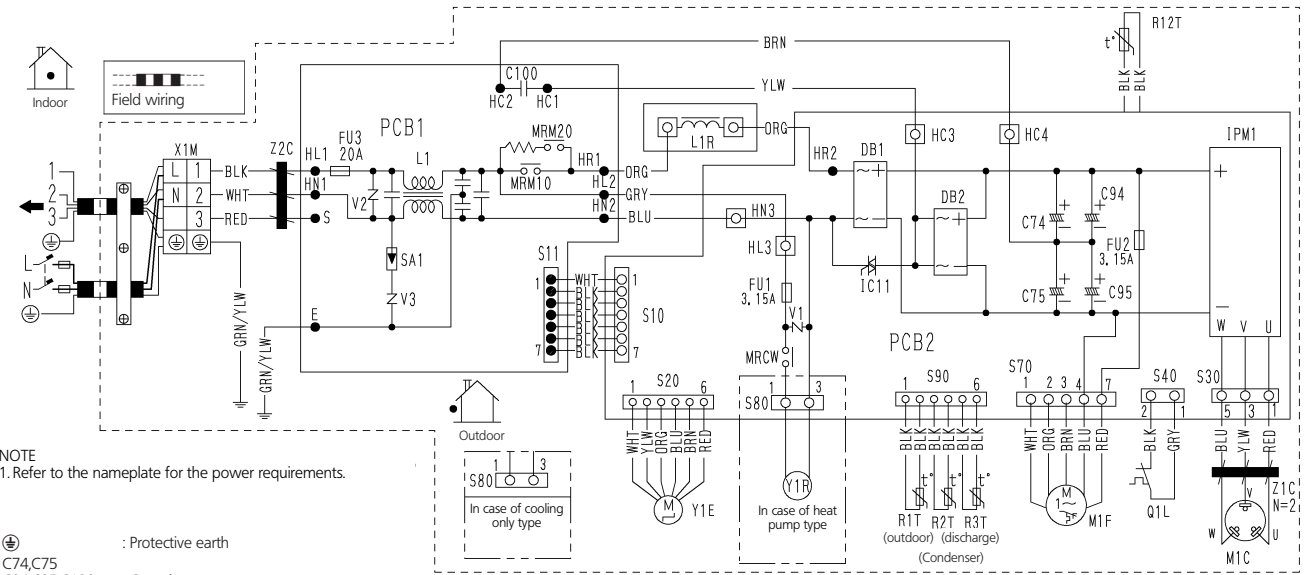


7 Wiring diagram

7 - 1 Wiring diagram

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RKS25-35F2V1B

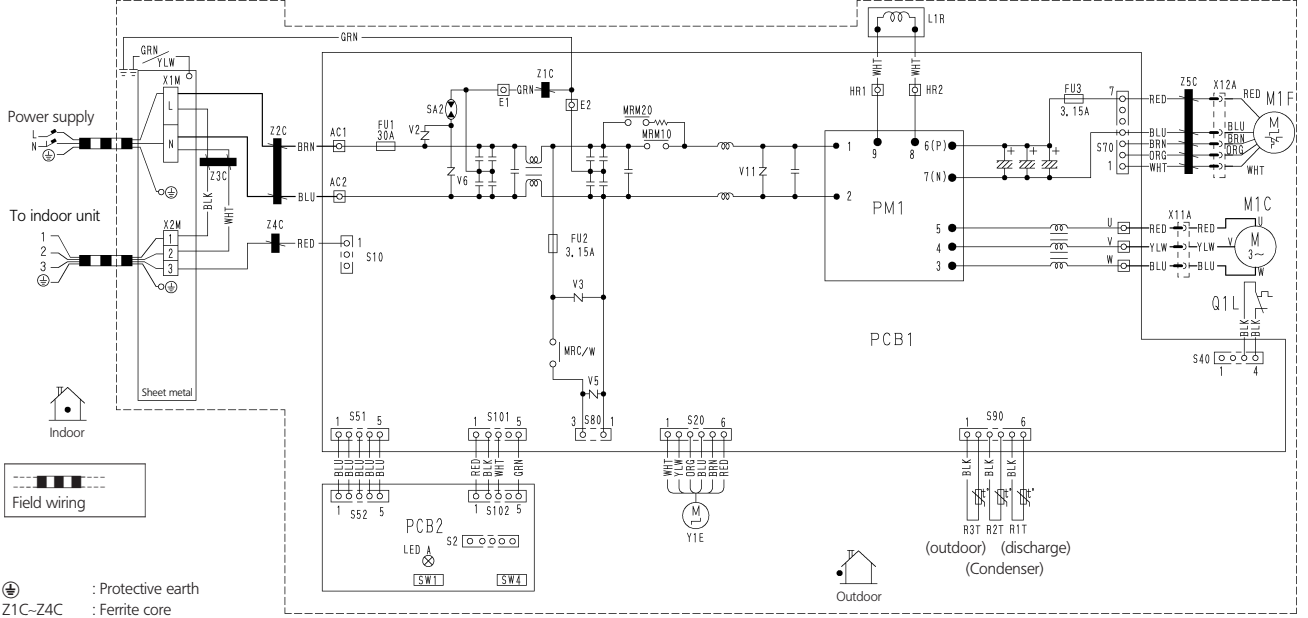


NOTE
1. Refer to the nameplate for the power requirements.

- ⊕ : Protective earth
- C74,C75 : Capacitor
- C94,C95,C100 : Capacitor
- DB1,DB2 : Diode bridge
- FU1,FU2,FU3 : Fuse
- IC11 : Triac
- IPM1 : Intelligent power module
- L : Live
- L1 : Coil
- L1R : Reactor
- M1C : Compressor motor
- M1F : Fan motor
- MRCW,MRM10,MRM20 : Magnetic relay
- N : Neutral
- PCB1,PCB2 : Printed circuit board
- Q1L : Overload protector
- R1T,R2T,R3T,R12T : Thermistor
- S10,S11,S20 : Switch
- S30,S40,S70 : Switch
- S80,S90,S91 : Switch
- HC3,HC4,HL3,HN3 : Connector
- SA1 : Surge arrester
- V1,V2,V3 : Varistor
- X1M : Terminal strip
- Y1E : Electronic expansion valve coil
- Y1R : Reversing solenoid valve coil
- Z1C,Z2C : Ferrite core

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RKS50F2V1B

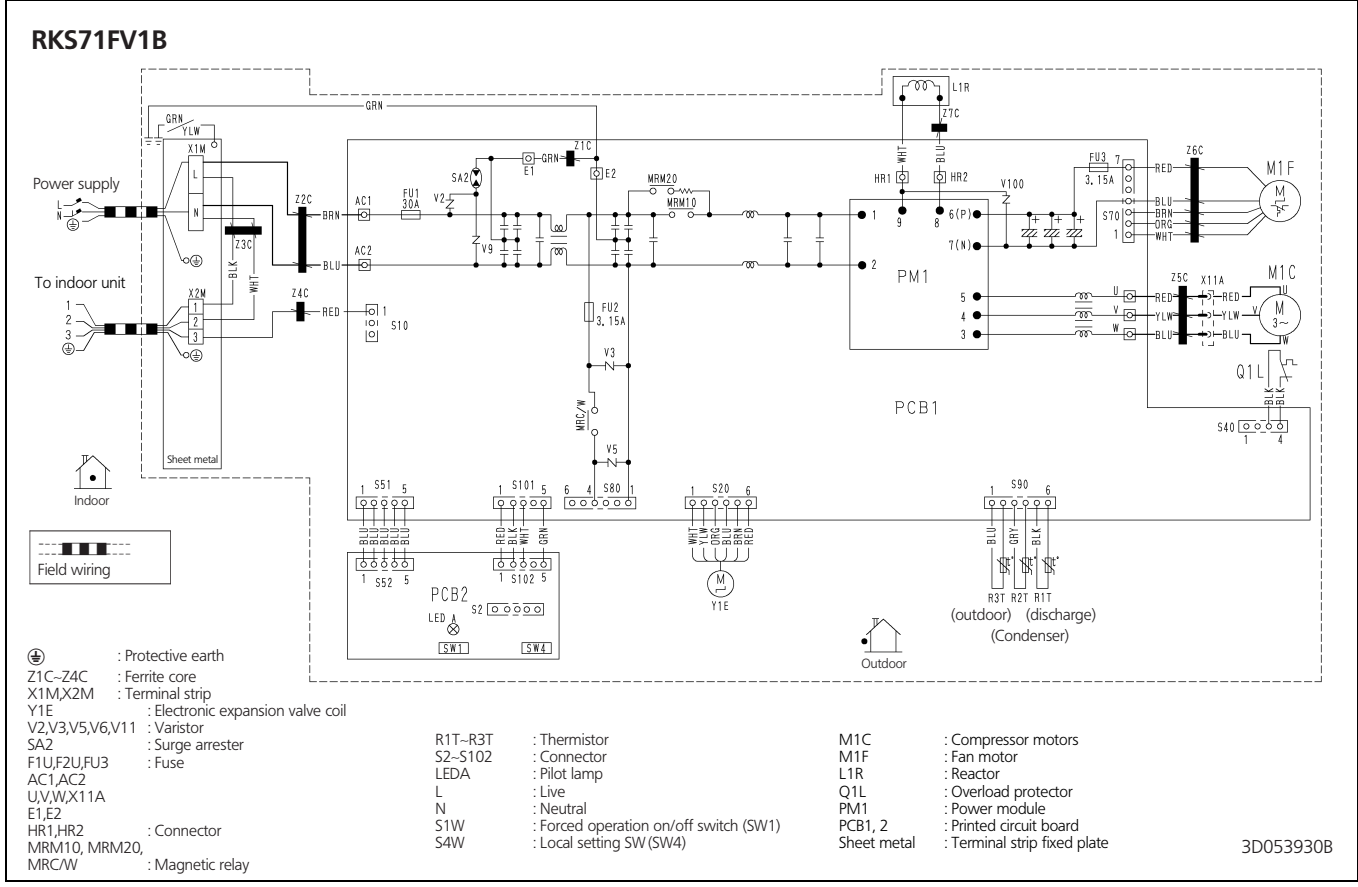
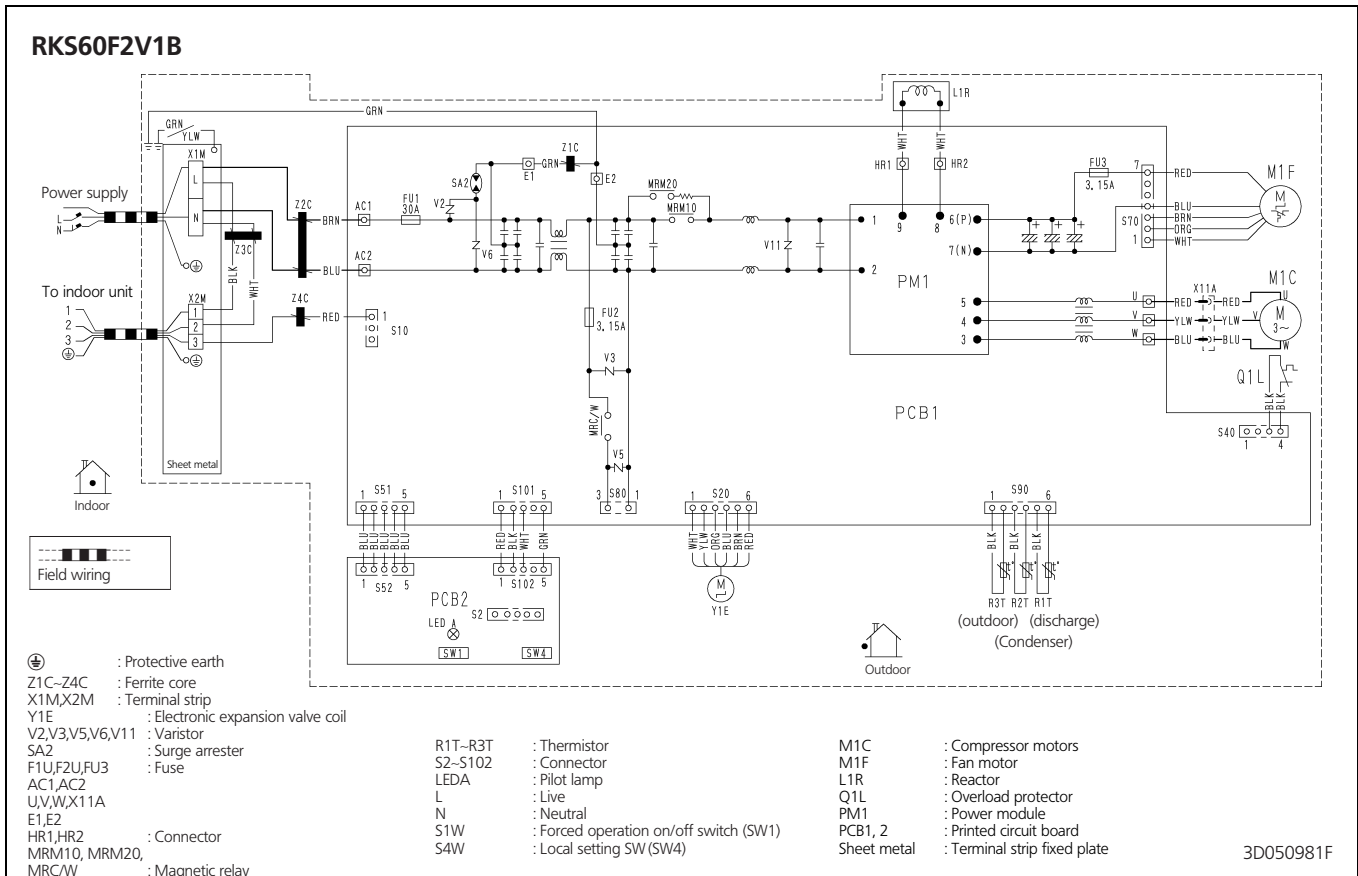


- ⊕ : Protective earth
- Z1C-Z4C : Ferrite core
- X1M,X2M : Terminal strip
- Y1E : Electronic expansion valve coil
- V2,V3,V5,V6,V11 : Varistor
- SA2 : Surge arrester
- F1U,F2U,FU3 : Fuse
- AC1,AC2 : Connector
- U,V,W,X11A : Connector
- E1,E2 : Connector
- HR1,HR2 : Connector
- MRM10,MRM20,MRM20 : Magnetic relay
- R1T-R3T : Thermistor
- S2-S102 : Connector
- LEDA : Pilot lamp
- L : Live
- N : Neutral
- S1W : Forced operation on/off switch (SW1)
- S4W : Local setting SW (SW4)
- M1C : Compressor motors
- M1F : Fan motor
- L1R : Reactor
- Q1L : Overload protector
- PM1 : Power module
- PCB1, 2 : Printed circuit board
- Sheet metal : Terminal strip fixed plate

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7 Wiring diagram

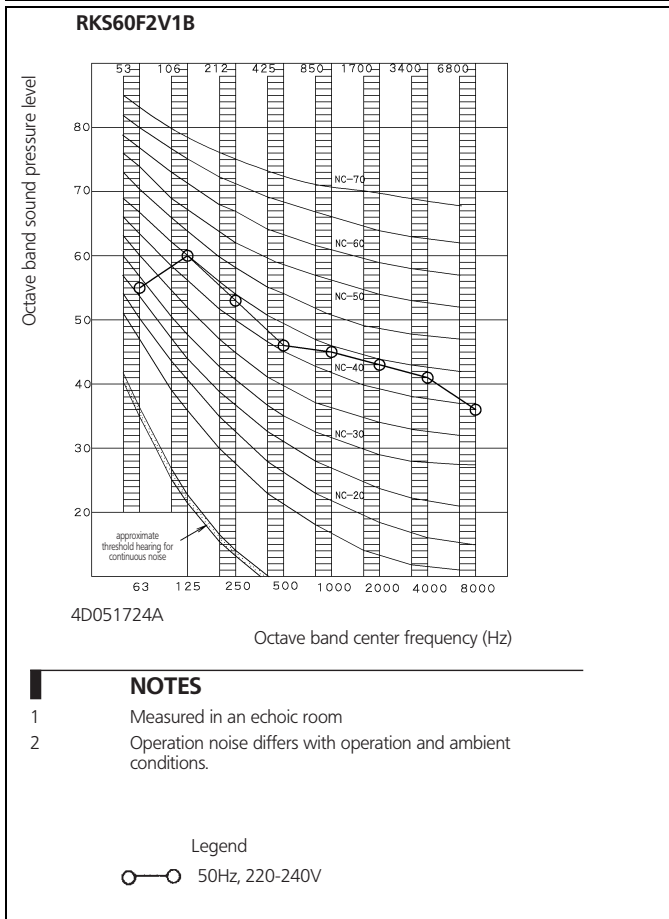
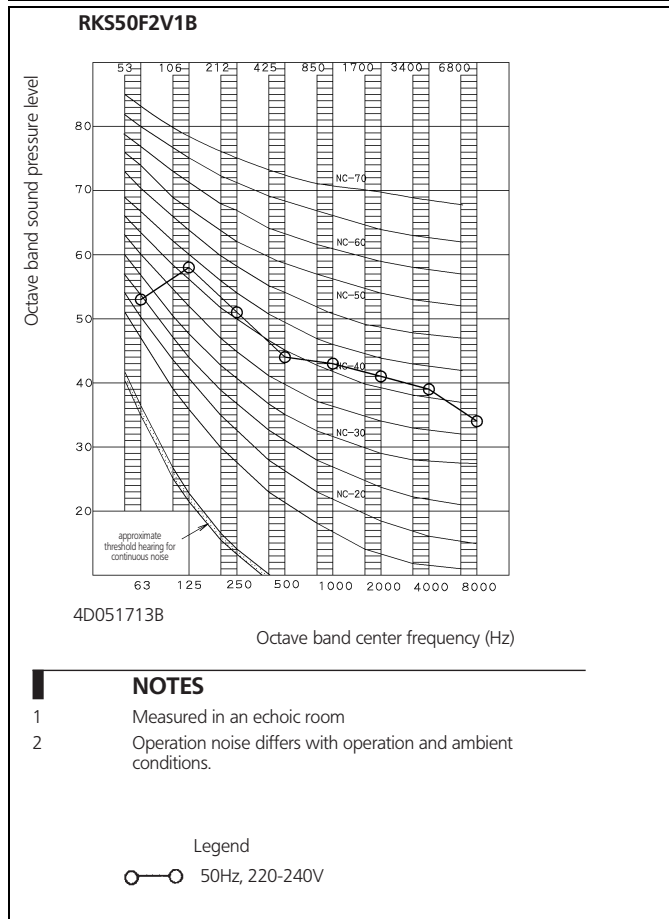
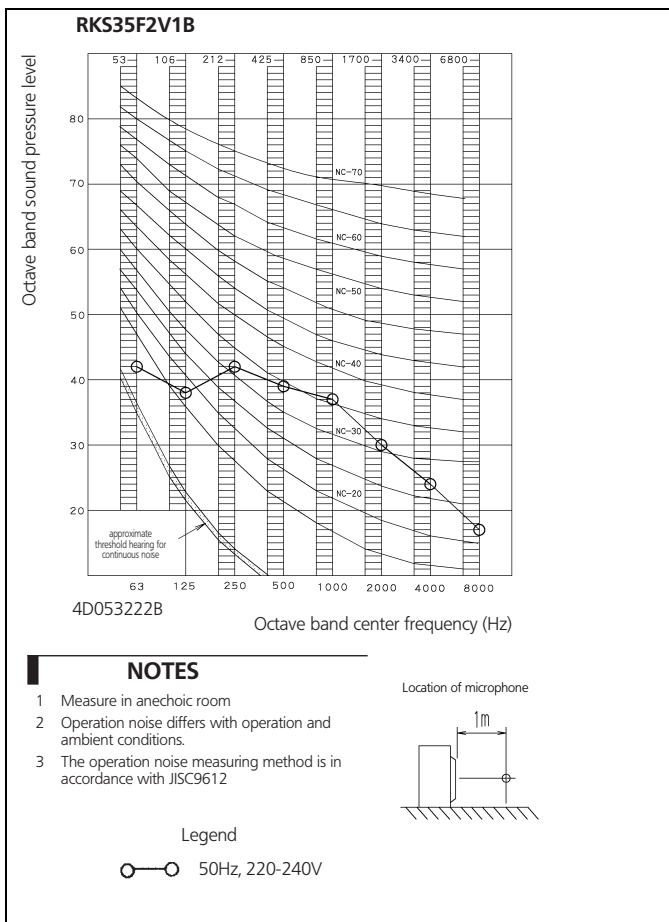
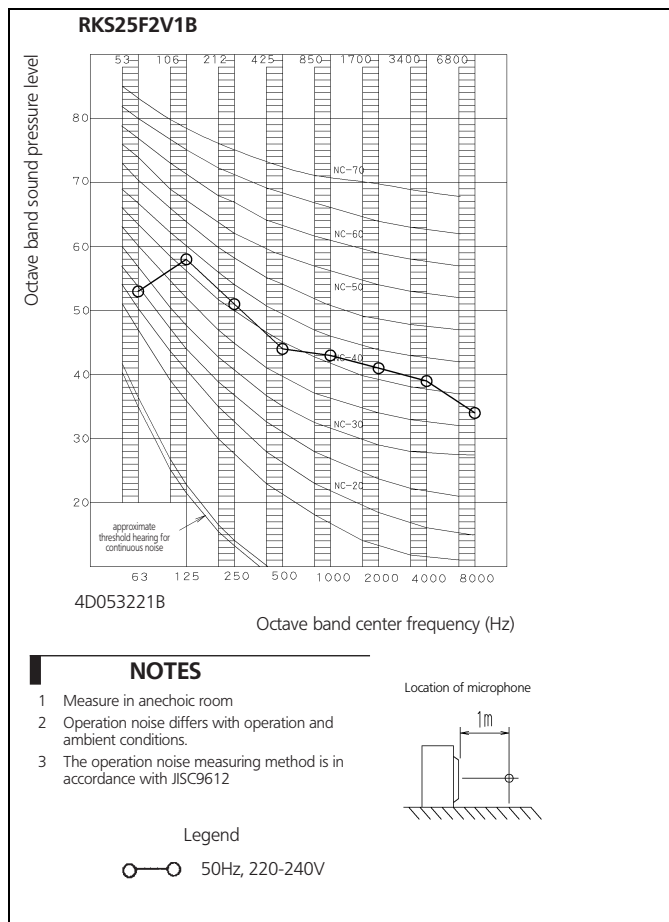
7 - 1 Wiring diagram



8 Sound data

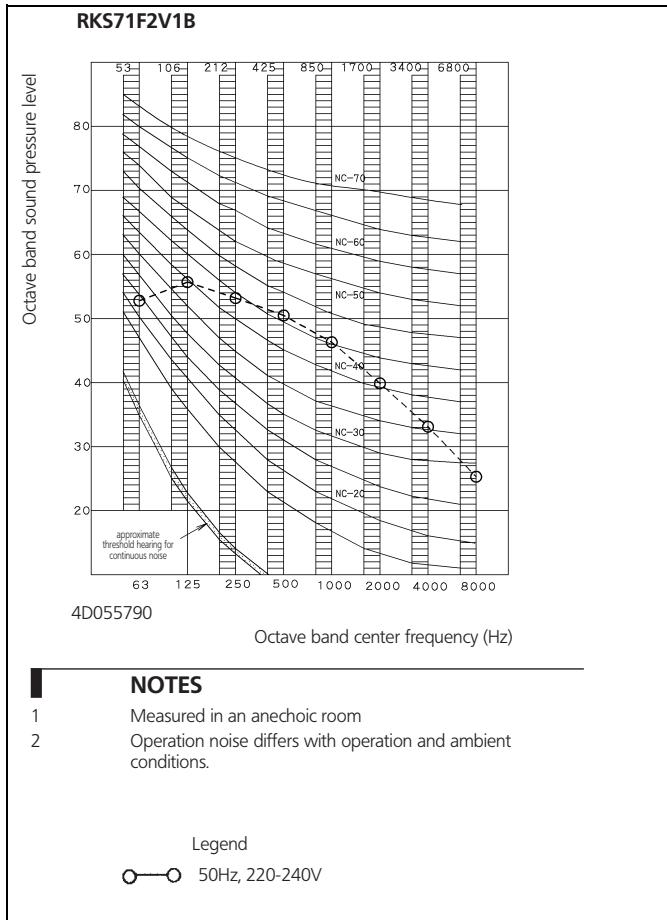
8 - 1 Sound pressure spectrum

8



8 Sound data

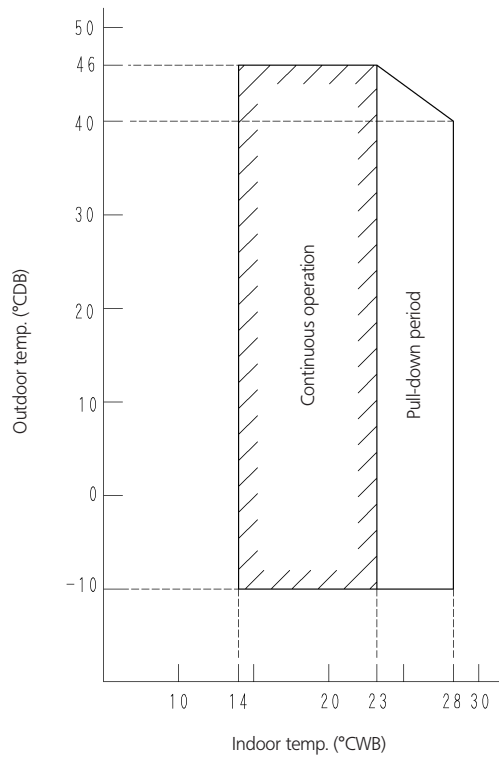
8 - 1 Sound pressure spectrum



9 Operation range

9

RKS25-35F2V1B
RKS50-71F2V1B



Notes:

- The graph is based on the following conditions:
- 1. Equivalent piping length 7.5 m
 - 2. Level difference 0 m
 - 3. Air flow rate high

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