DAIKIN

technical data

air conditioning systems

RKS-C
RKS-B

Pair Application,
Inverter Controlled Unit

OPTIMISED DESIGN
R-410A

Split Sky Air

Split - Sky Air

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

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice.

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RKS-C / RKS-B

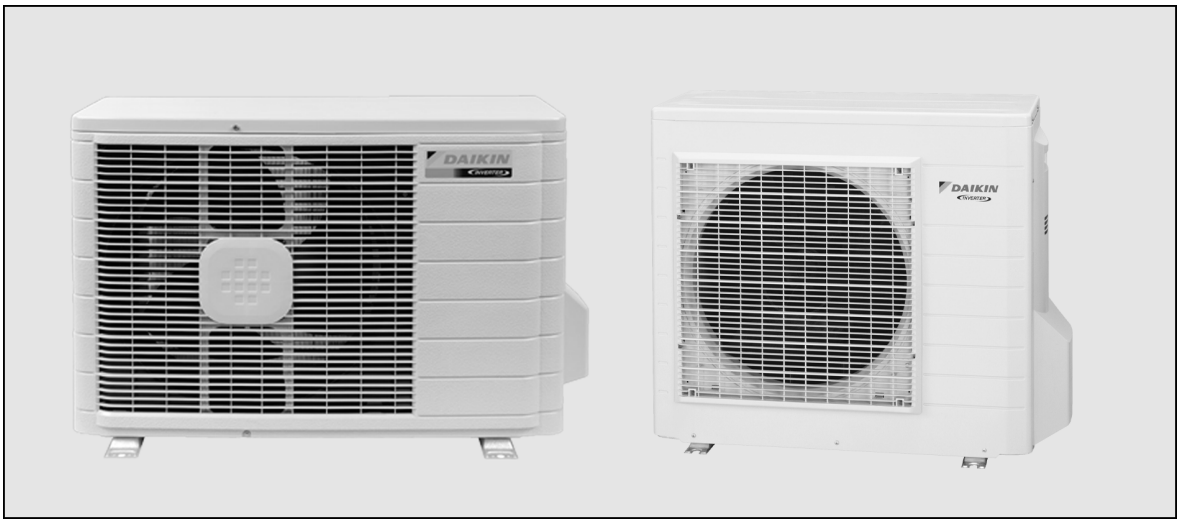
OPTIMISED DESIGN R-410A

1 Features

1

Outdoor units for pair application

- Daikin outdoor units can be mounted easily on a roof or terrace or simply placed against an outside wall. They are fitted with a swing compressor, renowned for its low noise and high energy efficiency.



2 Specifications

TECHNICAL SPECIFICATIONS						
OUTDOOR UNITS				**RKS20CVMB**	**RKS25CVMB**	**RKS35B/CVMB**
DIMENSIONS	Unit	H	mm	550		
		W	mm	765		
		D	mm	285		
WEIGHT			kg	31		
COLOUR	Unit			Ivory white		
SOUND LEVEL	Sound pressure (1) (Cooling)	high/low	dB(A)	46/43	46/43	47/44
	Sound power (2) (Cooling)	high	dB(A)	61	61	62
FAN	Air flow rate (Cooling)	high/low	m^3/min	36.2/27.4	36.2/27.4	33.4/24.9
	Speed (Cooling)	high	rpm	860	860	860
		low	rpm	660	660	660
	Model			Propeller fan		
	Motor output		W	31		
HEAT EXCHANGER	Type			WH fin, Ø 7Hi-XA tube		
	Rows x stages x fin pitch		mm	2 x 12 x 1.4		2 x 24 x 1.4
REFRIGERANT CIRCUIT	Refrigerant type			R-410A		
	Refrigerant charge		kg	0.80	0.80	1.00
	Maximum allowable distance between indoor and outdoor		m	20	20	20
	Maximum allowable level difference		m	15	15	15
	Refrigerant control			Motor operated expansion valve		
COMPRESSOR	Type			Hermetically sealed swing type		
	Model			1YC23NXD#A		
	Motor output			600		
	Oil type			FVC50K		
	Oil charge volume		ℓ	0.375		
PIPING CONNECTIONS		liquid	mm	ϕ6.4		
		gas	mm	ϕ9.5		
		drain	mm	ϕ18.0		
INSULATION MATERIAL	Heat insulation			Both liquid and gas pipes		

ELECTRICAL SPECIFICATIONS						
OUTDOOR UNITS				**RKS20CVMB**	**RKS25CVMB**	**RKS35B/CVMB**
CURRENT	Nominal running current	cooling	A	2.62	3.72	4.72
	Max. running current	cooling	A	Please refer to electrical data		
	Starting current	cooling	A	3.5	4.4	5.4

OUTDOOR UNITS			**RKS20CVMB**	**RKS25CVMB**	**RKS35B/CVMB**
POWER SUPPLY			VM		
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		1~		
	Frequency	Hz	50		
	Voltage	V	230		

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NOTES

1 The sound pressure level is measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 8 of this chapter.

2 The sound power level is an absolute value indicating the "power" which a sound source generates.

2 Specifications

TECHNICAL SPECIFICATIONS

OUTDOOR UNITS				RKS50BVMB9	RKS60BVMB9	RKS71BVMB9
DIMENSIONS	Unit	H	mm	735		
		W	mm	825		
		D	mm	300		
WEIGHT			kg	49	53	55
COLOUR	Unit			Ivory white		
SOUND LEVEL	Sound pressure (1) (Cooling)	high/low	dB(A)	47/*	49/*	52/*
	Sound power (2) (Cooling)	high	dB(A)	63	64	66
FAN	Air flow rate (Cooling)	high/low	m3/min	47.7/44.1	47.6/44.1	51.5/41.5
	Speed (Cooling)	high	rpm	700	730	790
		low	rpm	650	680	650
	Model			Propeller fan		
	Motor output		W	53		
HEAT EXCHANGER	Type			Waffle fin, ∅ 8 Hi-XA tube		
	Rows x stages x fin pitch		mm	1 x 32 x 1.6	2 x 32 x 1.8	
REFRIGERANT CIRCUIT	Refrigerant type			R-410A		
	Refrigerant charge		kg	1.20	1.70	1.70
	Maximum allowable distance between indoor and outdoor		m	30		
	Maximum allowable level difference		m	20		
	Refrigerant control			-		
COMPRESSOR	Type			Hermetically sealed swing type		
	Model			2YC32HXD		2YC45BXD
	Motor output			1,500	1,500	1,900
	Oil type			FVC50K		
	Oil charge volume		ℓ	0.65	0.65	0.75
PIPING CONNECTIONS		liquid	mm	ϕ6.4		
		gas	mm	ϕ12.7		ϕ15.9
		drain	mm	ϕ18.0		
INSULATION MATERIAL	Heat insulation			Both liquid and gas pipes		

* This information was not available at the time of publication.

ELECTRICAL SPECIFICATIONS

OUTDOOR UNITS				RKS50BVMB9	RKS60BVMB9	RKS71BVMB9
CURRENT	Nominal running current	cooling	A	6.82	9.12	10.90
	Max. running current	cooling	A	Please refer to electrical data		
	Starting current	cooling	A	7.3	9.3	11.1

OUTDOOR UNITS			RKS50BVMB9	RKS60BVMB9	RKS71BVMB9
POWER SUPPLY			VM	VM	VM
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		1~	1~	1~
	Frequency	Hz	50	50	50
	Voltage	V	230	230	230

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NOTES

1 The sound pressure level is measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 8 of this chapter.

2 The sound power level is an absolute value indicating the "power" which a sound source generates.

2 Specifications

ELECTRICAL DATA

RKS+FTKS20C

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTKS20CVMB	RKS20CVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	12	15	38	2.8	31	0.20	18	0.20

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RKS+FTKS25C

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTKS25CVMB	RKS25CVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	12	15	51	3.9	31	0.20	18	0.20

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RKS+FTKS35C

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTKS35CVMB	RKS35CVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	12	15	77	4.9	35	0.22	18	0.20

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RKS+FTKS50B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTKS50BVMB	RKS50BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	72	6.92	53	0.18	40	0.16

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RKS+FTKS60B
RKS+FTKS71B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTKS60BVMB	RKS60BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	72	8.86	53	0.24	43	0.16
FTKS71BVMB	RKS71BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	16.8	20	80	10.58	53	0.26	43	0.18

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RKS+FVKS25B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FVKS25BVMB	RKS25BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	15	15	49	3.25	19	0.35	28	0.16

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RKS+FVKS35B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FVKS35BVMB	RKS35BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	15	15	82	5.05	19	0.35	28	0.16

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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
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://www.daikineurope.com/extranet, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
   Finally, click on the document title of your choice.

2 Specifications

2 ELECTRICAL DATA

RKS+FVKS50B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FVKS50BVMB	RKS50BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	76	7.04	53	0.18	14+14	0.31

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RKS+FLKS25B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FLKS25BVMB	RKS25BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	15	15	48	3.17	19	0.35	34	0.34

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RKS+FLKS35B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FLKS35BVMB	RKS35BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	15	15	81	5.03	19	0.35	34	0.38

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RKS+FLKS50B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FLKS50BVMB	RKS50BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	75	7.00	53	0.18	34	0.54

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RKS+FFQ25B
RKS+FFQ35B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FFQ25BV1B	RKS25BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	15	15	54	3.55	19	0.35	55	0.6
FFQ35BV1B	RKS35BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	15	15	81	5.08	19	0.35	55	0.6

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RKS+FFQ50B
RKS+FFQ60B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FFQ50BV1B	RKS50BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	72	7.43	53	0.18	55	0.7
FFQ60BV1B	RKS60BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	85	8.45	53	0.24	55	0.7

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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
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://www.daikineurope.com/extranet, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
   Finally, click on the document title of your choice.

2 Specifications

ELECTRICAL DATA

RKS+FCQ35B
RKS+FCQ50B
RKS+FCQ60B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FCQ35B7V1	RKS35BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	15	16	75	4.70	19	0.35	45	0.6
FCQ50B7V1	RKS50BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	78	7.38	53	0.18	45	0.6
FCQ60B7V1	RKS60BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	89	8.72	53	0.24	45	0.6

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RKS+FHQ35B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FHQ35BUV1B	RKS35BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	15	15	78	4.91	19	0.35	62	0.6

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RKS+FHQ50B
RKS+FHQ60B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FHQ50BUV1B	RKS50BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	79	7.5	53	0.18	62	0.6
FHQ60BUV1B	RKS60BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	90	8.84	53	0.24	62	0.6

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RKS+FBQ35B
RKS+FBQ50B
RKS+FBQ60B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FBQ35B7V1	RKS35BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	15	16	70	4.42	19	0.35	65	0.5
FBQ50B7V1	RKS50BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	75	7.00	53	0.18	85	0.7
FBQ60B7V1	RKS60BVMB9	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	91	8.96	53	0.24	125	0.9

3TW25081-2

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
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://www.daikineurope.com/extranet, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
   Finally, click on the document title of your choice.

3 Capacity tables

RKS+FTKS20C

AFR	7.5
BF	0.21

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	1.61	0.38	1.96	1.56	0.42	1.86	1.52	0.46	1.83	1.50	0.47	1.77	1.47	0.49	1.68	1.43	0.53
16.0	22	2.14	1.58	0.39	2.05	1.54	0.42	1.95	1.49	0.46	1.92	1.48	0.47	1.86	1.45	0.50	1.77	1.41	0.53
18.0	25	2.23	1.67	0.39	2.14	1.63	0.42	2.05	1.59	0.46	2.01	1.57	0.48	1.95	1.55	0.50	1.86	1.51	0.54
19.0	27	2.28	1.77	0.39	2.19	1.73	0.43	2.09	1.69	0.46	2.06	1.68	0.48	2.00	1.66	0.50	1.91	1.62	0.54
22.0	30	2.42	1.71	0.39	2.32	1.68	0.43	2.23	1.64	0.47	2.19	1.63	0.48	2.14	1.61	0.50	2.05	1.58	0.54
24.0	32	2.51	1.67	0.39	2.42	1.64	0.43	2.32	1.61	0.47	2.29	1.60	0.48	2.23	1.58	0.51	2.14	1.55	0.54

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RKS+FTKS25C

AFR	7.5
BF	0.21

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	2.44	1.80	0.50	2.44	1.80	0.58	2.33	1.74	0.64	2.28	1.72	0.66	2.21	1.69	0.69	2.10	1.63	0.74
16.0	22	2.68	1.83	0.54	2.56	1.77	0.59	2.44	1.72	0.64	2.40	1.70	0.66	2.33	1.66	0.69	2.21	1.61	0.74
18.0	25	2.79	1.91	0.54	2.68	1.86	0.59	2.56	1.81	0.64	2.51	1.79	0.66	2.44	1.76	0.69	2.33	1.71	0.74
19.0	27	2.85	2.01	0.54	2.73	1.96	0.59	2.62	1.91	0.64	2.57	1.89	0.66	2.50	1.86	0.70	2.38	1.81	0.75
22.0	30	3.02	1.94	0.55	2.91	1.89	0.60	2.79	1.85	0.65	2.74	1.83	0.67	2.67	1.80	0.70	2.56	1.76	0.75
24.0	32	3.14	1.88	0.55	3.02	1.84	0.60	2.90	1.80	0.65	2.86	1.79	0.67	2.79	1.76	0.70	2.67	1.72	0.75

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RKS+FTKS35C

AFR	7.5
BF	0.17

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	2.54	1.88	0.55	2.54	1.88	0.63	2.54	1.88	0.72	2.54	1.88	0.76	2.54	1.88	0.83	2.54	1.88	0.96
16.0	22	3.23	2.12	0.70	3.23	2.12	0.81	3.23	2.12	0.94	3.23	2.12	0.99	3.17	2.09	1.05	3.01	2.01	1.13
18.0	25	3.80	2.41	0.82	3.64	2.33	0.90	3.48	2.26	0.98	3.42	2.23	1.01	3.32	2.18	1.06	3.16	2.11	1.14
19.0	27	3.87	2.51	0.82	3.72	2.43	0.90	3.56	2.36	0.98	3.49	2.33	1.01	3.40	2.29	1.06	3.42	2.21	1.14
22.0	30	4.11	2.41	0.83	3.95	2.34	0.91	3.79	2.27	0.99	3.73	2.25	1.02	3.63	2.21	1.07	3.48	2.15	1.15
24.0	32	4.27	2.33	0.84	4.11	2.27	0.91	3.95	2.21	0.99	3.89	2.19	1.02	3.79	2.15	1.07	3.63	2.09	1.15

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RKS+FTKS50B

AFR	11.4
BF	0.22

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	5.06	3.28	1.31	4.91	3.21	1.41	4.76	3.14	1.50	4.70	3.11	1.54	4.61	3.07	1.60	4.46	3.00	1.69
16.0	22	5.22	3.31	1.34	5.07	3.24	1.43	4.92	3.17	1.53	4.86	3.14	1.56	4.77	3.10	1.62	4.62	3.03	1.72
18.0	25	5.37	3.34	1.36	5.22	3.27	1.46	5.07	3.20	1.55	5.01	3.18	1.59	4.92	3.13	1.65	4.77	3.06	1.74
19.0	27	5.45	3.36	1.38	5.30	3.29	1.47	5.15	3.22	1.57	5.09	3.19	1.60	5.00	3.15	1.66	4.85	3.08	1.76
22.0	30	5.68	3.41	1.41	5.53	3.34	1.51	5.38	3.27	1.60	5.32	3.24	1.64	5.23	3.20	1.70	5.08	3.13	1.79
24.0	32	5.84	3.45	1.44	5.69	3.38	1.54	5.54	3.31	1.63	5.48	3.28	1.67	5.39	3.24	1.73	5.24	3.17	1.82

3D040892

SYMBOLS

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

NOTES

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

3 Capacity tables

RKS+FTKS60B

AFR	16.2
BF	0.29

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	6.06	3.97	1.77	5.91	3.90	1.87	5.76	3.83	1.96	5.70	3.80	2.00	5.61	3.76	2.06	5.46	3.69	2.15
16.0	22	6.22	4.00	1.80	6.07	3.93	1.89	5.92	3.86	1.99	5.86	3.83	2.02	5.77	3.79	2.08	5.62	3.72	2.18
18.0	25	6.37	4.03	1.82	6.22	3.96	1.92	6.07	3.89	2.01	6.01	3.87	2.05	5.92	3.82	2.11	5.77	3.75	2.20
19.0	27	6.45	4.05	1.84	6.30	3.98	1.93	6.15	3.91	2.03	6.09	3.88	2.06	6.00	3.84	2.12	5.85	3.77	2.22
22.0	30	6.68	4.10	1.87	6.53	4.03	1.97	6.38	3.96	2.06	6.32	3.93	2.10	6.23	3.89	2.16	6.08	3.82	2.25
24.0	32	6.84	4.14	1.90	6.69	4.07	2.00	6.54	4.00	2.09	6.48	3.97	2.13	6.39	3.93	2.19	6.24	3.86	2.28

3D04089

RKS+FTKS71B

AFR	16.7
BF	0.27

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	7.16	4.60	2.18	7.01	4.53	2.28	6.86	4.46	2.37	6.80	4.43	2.41	6.71	4.39	2.47	6.56	4.32	2.56
16.0	22	7.32	4.63	2.21	7.17	4.56	2.30	7.02	4.49	2.40	6.96	4.46	2.43	6.87	4.42	2.49	6.72	4.35	2.59
18.0	25	7.47	4.67	2.23	7.32	4.60	2.33	7.17	4.53	2.42	7.11	4.50	2.46	7.02	4.46	2.52	6.87	4.39	2.61
19.0	27	7.55	4.68	2.25	7.40	4.61	2.34	7.25	4.54	2.44	7.19	4.52	2.47	7.10	4.47	2.53	6.95	4.40	2.63
22.0	30	7.78	4.73	2.28	7.63	4.66	2.38	7.48	4.59	2.47	7.42	4.57	2.51	7.33	4.52	2.57	7.18	4.45	2.66
24.0	32	7.94	4.77	2.31	7.79	4.70	2.41	7.64	4.63	2.50	7.58	4.60	2.54	7.49	4.56	2.60	7.34	4.49	2.69

3D040896

RKS+FVKS25B

AFR	8.1
BF	0.29

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	2.33	1.58	0.52	2.25	1.52	0.58	2.17	1.47	0.65	2.14	1.45	0.66	2.08	1.41	0.67	2.00	1.35	0.72
16.0	22	2.51	1.70	0.53	2.43	1.65	0.59	2.35	1.59	0.66	2.31	1.56	0.67	2.25	1.52	0.68	2.16	1.46	0.74
18.0	25	2.70	1.83	0.54	2.61	1.77	0.61	2.52	1.71	0.67	2.48	1.68	0.68	2.42	1.64	0.69	2.32	1.57	0.75
19.0	27	2.80	1.89	0.55	2.70	1.83	0.61	2.61	1.77	0.67	2.57	1.74	0.68	2.50	1.60	0.70	2.40	1.62	0.76
22.0	30	3.09	2.09	0.56	2.99	2.02	0.63	2.88	1.95	0.69	2.84	1.92	0.70	2.76	1.87	0.72	2.65	1.79	0.78
24.0	32	3.28	2.22	0.57	3.18	2.15	0.64	3.07	2.08	0.71	3.02	2.04	0.72	2.94	1.99	0.73	2.81	1.91	0.79

3D040390

RKS+FVKS35B

AFR	8.3
BF	0.13

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	3.26	2.12	0.87	3.15	2.05	0.97	3.04	1.98	1.07	2.99	1.95	1.09	2.92	1.90	1.11	2.79	1.82	1.20
16.0	22	3.52	2.29	0.88	3.40	2.21	0.99	3.29	2.14	1.09	3.23	2.10	1.10	3.15	2.05	1.13	3.02	1.96	1.22
18.0	25	3.78	2.46	0.90	3.66	2.38	1.00	3.53	2.30	1.11	3.47	2.26	1.12	3.38	2.20	1.15	3.24	2.11	1.24
19.0	27	3.91	2.54	0.91	3.78	2.46	1.01	3.65	2.38	1.12	3.59	2.34	1.13	3.50	2.28	1.16	3.35	2.18	1.26
22.0	30	4.32	2.81	0.93	4.18	2.72	1.04	4.04	2.62	1.15	3.97	2.58	1.17	3.87	2.51	1.19	3.71	2.41	1.29
24.0	32	4.60	2.99	0.95	4.45	2.89	1.06	4.29	2.79	1.17	4.22	2.74	1.19	4.11	2.67	1.22	3.94	2.56	1.32

3D040391

SYMBOLS

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

NOTES

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

3 Capacity tables

RKS+FVKS50B

AFR	10.8
BF	0.23

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	4.86	3.15	1.35	4.71	3.08	1.45	4.56	3.01	1.54	4.50	2.98	1.58	4.41	2.94	1.64	4.26	2.87	1.73
16.0	22	5.02	3.18	1.38	4.87	3.11	1.47	4.72	3.04	1.57	4.66	3.02	1.60	4.57	2.97	1.66	4.42	2.90	1.76
18.0	25	5.17	3.22	1.40	5.02	3.15	1.50	4.87	3.08	1.59	4.81	3.05	1.63	4.72	3.01	1.69	4.57	2.94	1.78
19.0	27	5.25	3.23	1.42	5.10	3.16	1.51	4.95	3.09	1.61	4.89	3.07	1.64	4.80	3.02	1.70	4.65	2.95	1.80
22.0	30	5.48	3.29	1.45	5.33	3.22	1.55	5.18	3.15	1.64	5.12	3.12	1.68	5.03	3.08	1.74	4.88	3.01	1.83
24.0	32	5.64	3.32	1.48	5.49	3.25	1.58	5.34	3.18	1.67	5.28	3.15	1.71	5.19	3.11	1.77	5.04	3.04	1.86

3D040894

RKS+FLKS25B

AFR	7.6
BF	0.32

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	2.33	1.52	0.54	2.25	1.47	0.60	2.17	1.42	0.66	2.14	1.40	0.67	2.08	1.36	0.68	2.00	1.30	0.74
16.0	22	2.51	1.64	0.54	2.43	1.59	0.61	2.35	1.53	0.67	2.31	1.51	0.68	2.25	1.47	0.70	2.16	1.41	0.75
18.0	25	2.70	1.76	0.55	2.61	1.71	0.62	2.52	1.65	0.68	2.48	1.62	0.69	2.42	1.58	0.71	2.32	1.51	0.77
19.0	27	2.80	1.82	0.56	2.70	1.76	0.62	2.61	1.70	0.69	2.57	1.67	0.70	2.50	1.83	0.72	2.40	1.56	0.77
22.0	30	3.09	2.02	0.58	2.99	1.95	0.64	2.88	1.88	0.71	2.84	1.85	0.72	2.76	1.80	0.74	2.65	1.73	0.80
24.0	32	3.28	2.14	0.59	3.18	2.07	0.65	3.07	2.00	0.72	3.02	1.97	0.73	2.94	1.92	0.75	2.81	1.84	0.81

3D040382

RKS+FLKS35B

AFR	8.6
BF	0.35

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	3.26	2.02	0.91	3.15	1.95	1.02	3.04	1.89	1.12	2.99	1.86	1.14	2.92	1.81	1.17	2.79	1.73	1.26
16.0	22	3.52	2.18	0.93	3.40	2.11	1.04	3.29	2.04	1.14	3.23	2.00	1.16	3.15	1.95	1.19	3.02	1.87	1.29
18.0	25	3.78	2.35	0.95	3.66	2.27	1.06	3.53	2.19	1.16	3.47	2.15	1.18	3.38	2.10	1.21	3.24	2.01	1.31
19.0	27	3.91	2.43	0.95	3.78	2.35	1.06	3.65	2.27	1.17	3.59	2.23	1.19	3.50	2.17	1.22	3.35	2.08	1.32
22.0	30	4.32	2.68	0.98	4.18	2.59	1.10	4.04	2.50	1.21	3.97	2.46	1.23	3.87	2.40	1.26	3.71	2.30	1.36
24.0	32	4.60	2.85	1.00	4.45	2.76	1.12	4.29	2.66	1.23	4.22	2.62	1.25	4.11	2.55	1.28	3.94	2.44	1.38

3D040383

RKS+FLKS50B

AFR	11.4
BF	0.18

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	4.96	3.26	1.37	4.81	3.19	1.47	4.66	3.12	1.56	4.60	3.09	1.60	4.51	3.05	1.66	4.36	2.98	1.75
16.0	22	5.12	3.30	1.40	4.97	3.23	1.49	4.82	3.16	1.59	4.76	3.13	1.62	4.67	3.09	1.68	4.52	3.02	1.78
18.0	25	5.27	3.33	1.42	5.12	3.26	1.52	4.97	3.19	1.61	4.91	3.16	1.65	4.82	3.12	1.71	4.67	3.05	1.80
19.0	27	5.35	3.35	1.44	5.20	3.28	1.53	5.05	3.21	1.63	4.99	3.18	1.66	4.90	3.14	1.72	4.75	3.07	1.82
22.0	30	5.58	3.40	1.47	5.43	3.33	1.57	5.28	3.26	1.66	5.22	3.23	1.70	5.13	3.19	1.76	4.98	3.12	1.85
24.0	32	5.74	3.43	1.50	5.59	3.36	1.60	5.44	3.29	1.69	5.38	3.26	1.73	5.29	3.22	1.79	5.14	3.15	1.88

3D040893

SYMBOLS

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

NOTES

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

3 Capacity tables

RKS+FFQ25B

AFR	9.0
BF	0.24

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	2.33	1.82	0.62	2.25	1.76	0.69	2.17	1.70	0.76	2.14	1.67	0.78	2.08	1.62	0.79	2.00	1.56	0.86
16.0	22	2.51	1.96	0.63	2.43	1.90	0.71	2.35	1.83	0.78	2.31	1.80	0.79	2.25	1.75	0.81	2.16	1.68	0.87
18.0	25	2.70	2.11	0.64	2.61	2.04	0.72	2.52	1.97	0.79	2.48	1.93	0.80	2.42	1.88	0.82	2.32	1.81	0.89
19.0	27	2.80	2.18	0.65	2.70	2.11	0.72	2.61	2.04	0.80	2.57	2.00	0.81	2.50	1.95	0.83	2.40	1.87	0.90
22.0	30	3.09	2.41	0.67	2.99	2.33	0.75	2.88	2.25	0.82	2.84	2.21	0.84	2.76	2.15	0.85	2.65	2.06	0.92
24.0	32	3.28	2.56	0.68	3.18	2.48	0.76	3.07	2.39	0.84	3.02	2.35	0.85	2.94	2.29	0.87	2.81	2.20	0.94

3D040764

RKS+FFQ35B

AFR	10.0
BF	0.25

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	3.17	2.25	0.97	3.06	2.18	1.09	2.96	2.10	1.20	2.91	2.07	1.22	2.83	2.02	1.24	2.71	1.93	1.35
16.0	22	3.42	2.43	0.99	3.31	2.35	1.10	3.19	2.27	1.22	3.14	2.24	1.24	3.06	2.18	1.27	2.93	2.09	1.37
18.0	25	3.67	2.62	1.01	3.55	2.53	1.12	3.43	2.44	1.24	3.37	2.40	1.26	3.29	2.34	1.29	3.15	2.24	1.39
19.0	27	3.80	2.71	1.02	3.68	2.62	1.13	3.55	2.53	1.25	3.49	2.48	1.27	3.40	2.42	1.30	3.26	2.32	1.41
22.0	30	4.20	2.99	1.05	4.06	2.89	1.17	3.92	2.79	1.29	3.86	2.74	1.31	3.76	2.67	1.34	3.60	2.56	1.45
24.0	32	4.47	3.18	1.07	4.32	3.07	1.19	4.17	2.97	1.31	4.10	2.92	1.33	4.00	2.84	1.36	3.83	2.72	1.48

3D040766

RKS+FFQ50B

AFR	12.0
BF	0.16

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	4.76	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

RKS+FFQ60B

AFR	15.0
BF	0.11

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.86	4.30	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.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)

NOTES

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

3 Capacity tables

RKS+FCQ35-60B

Cooling capacity **230V [50Hz]**

Outdoor	Indoor		Outdoor temperature (°C)																	
	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
35	14.0	20.0	3.2	2.7	0.91	3.1	2.6	1.01	3.0	2.5	1.12	2.9	2.4	1.13	2.8	2.4	1.16	2.7	2.3	1.25
	16.0	22.0	3.4	2.9	0.92	3.3	2.8	1.03	3.2	2.7	1.14	3.1	2.6	1.15	3.1	2.6	1.18	2.9	2.5	1.28
	18.0	25.0	3.7	3.1	0.94	3.6	3.0	1.05	3.4	2.9	1.16	3.4	2.8	1.17	3.3	2.8	1.20	3.2	2.6	1.30
	19.0	27.0	3.8	3.2	0.95	3.7	3.1	1.06	3.6	3.0	1.17	3.5	2.9	1.18	3.4	2.9	1.21	3.3	2.7	1.31
	22.0	30.0	4.2	3.5	0.97	4.1	3.4	1.09	3.9	3.3	1.20	3.9	3.2	1.22	3.8	3.2	1.25	3.6	3.0	1.35
	24.0	32.0	4.5	3.8	0.99	4.3	3.6	1.11	4.2	3.5	1.22	4.1	3.4	1.24	4.0	3.4	1.27	3.8	3.2	1.37
50	14.0	20.0	5.1	3.7	1.57	4.9	3.6	1.67	4.8	3.5	1.76	4.7	3.5	1.80	4.6	3.5	1.86	4.5	3.4	1.95
	16.0	22.0	5.2	3.7	1.60	5.1	3.6	1.69	4.9	3.6	1.79	4.9	3.5	1.83	4.8	3.5	1.88	4.6	3.4	1.98
	18.0	25.0	5.4	3.7	1.62	5.2	3.7	1.72	5.1	3.6	1.81	5.0	3.6	1.85	4.9	3.5	1.91	4.8	3.5	2.00
	19.0	27.0	5.5	3.8	1.64	5.3	3.7	1.73	5.2	3.6	1.83	5.1	3.6	1.87	5.0	3.6	1.92	4.9	3.5	2.02
	22.0	30.0	5.7	3.8	1.68	5.5	3.7	1.77	5.4	3.7	1.87	5.3	3.6	1.90	5.2	3.6	1.96	5.1	3.5	2.06
	24.0	32.0	5.8	3.8	1.70	5.7	3.8	1.80	5.5	3.7	1.89	5.5	3.7	1.93	5.4	3.6	1.99	5.2	3.6	2.08
60	14.0	20.0	5.8	4.5	1.84	5.6	4.4	1.94	5.5	4.3	2.03	5.4	4.3	2.07	5.3	4.3	2.13	5.2	4.2	2.22
	16.0	22.0	5.9	4.5	1.87	5.8	4.4	1.96	5.6	4.4	2.06	5.6	4.4	2.10	5.5	4.3	2.15	5.3	4.2	2.25
	18.0	25.0	6.1	4.6	1.89	5.9	4.5	1.99	5.8	4.4	2.08	5.7	4.4	2.12	5.6	4.3	2.18	5.5	4.3	2.27
	19.0	27.0	6.2	4.6	1.91	6.0	4.5	2.00	5.9	4.4	2.10	5.8	4.4	2.13	5.7	4.4	2.19	5.6	4.3	2.29
	22.0	30.0	6.4	4.6	1.95	6.2	4.6	2.04	6.1	4.5	2.14	6.0	4.5	2.17	5.9	4.4	2.23	5.8	4.3	2.33
	24.0	32.0	6.5	4.7	1.97	6.4	4.6	2.07	6.2	4.5	2.16	6.2	4.5	2.20	6.1	4.4	2.26	5.9	4.4	2.35

3TW25082-1

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. Shows nominal cooling capacities and power input
3. TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.29 x 60 x AFR (m^3/min) x (1-BF) x (DB-EDB)/860
   Add SHC* to SHC.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

Model		FCQ
35	AFR	14
	BF	0.16
50	AFR	15
	BF	0.16
60	AFR	18
	BF	0.10

3 Capacity tables

RKS+FHQ35B

AFR	13
BF	0.20

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	3.17	2.47	0.91	3.06	2.39	1.01	2.96	2.30	1.12	2.91	2.27	1.13	2.83	2.21	1.16	2.71	2.11	1.25
16.0	22	3.42	2.67	0.92	3.31	2.58	1.03	3.19	2.49	1.14	3.14	2.45	1.15	3.06	2.38	1.18	2.93	2.28	1.28
18.0	25	3.67	2.86	0.94	3.55	2.77	1.05	3.43	2.67	1.16	3.37	2.63	1.17	3.29	2.56	1.20	3.15	2.45	1.30
19.0	27	3.80	2.96	0.95	3.68	2.86	1.06	3.55	2.77	1.17	3.49	2.72	1.18	3.40	2.65	1.21	3.26	2.54	1.31
22.0	30	4.20	3.27	0.97	4.06	3.17	1.09	3.92	3.06	1.20	3.86	3.01	1.22	3.76	2.93	1.25	3.60	2.81	1.35
24.0	32	4.47	3.48	0.99	4.32	3.37	1.11	4.17	3.25	1.22	4.10	3.20	1.24	4.00	3.11	1.27	3.83	2.98	1.37

3D040599

RKS+FHQ50B

AFR	13
BF	0.1

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	5.06	3.63	1.48	4.91	3.56	1.58	4.76	3.49	1.67	4.70	3.46	1.71	4.61	3.42	1.77	4.46	3.35	1.86
16.0	22	5.22	3.66	1.51	5.07	3.59	1.60	4.92	3.52	1.70	4.86	3.49	1.73	4.77	3.45	1.79	4.62	3.38	1.89
18.0	25	5.37	3.69	1.53	5.22	3.62	1.63	5.07	3.55	1.72	5.01	3.53	1.76	4.92	3.48	1.82	4.77	3.41	1.91
19.0	27	5.45	3.71	1.55	5.30	3.64	1.64	5.15	3.57	1.74	5.09	3.54	1.77	5.00	3.50	1.83	4.85	3.43	1.93
22.0	30	5.68	3.76	1.58	5.53	3.69	1.68	5.38	3.62	1.77	5.32	3.59	1.81	5.23	3.55	1.87	5.08	3.48	1.96
24.0	32	5.84	3.80	1.61	5.69	3.73	1.71	5.54	3.66	1.80	5.48	3.63	1.84	5.39	3.59	1.90	5.24	3.52	1.99

3D040601

RKS+FHQ60B

AFR	17
BF	0.2

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
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	5.76	4.17	1.80	5.61	4.10	1.90	5.46	4.03	1.99	5.40	4.00	2.03	5.31	3.96	2.09	5.16	3.89	2.18
16.0	22	5.92	4.21	1.83	5.77	4.14	1.92	5.62	4.07	2.02	5.56	4.04	2.05	5.47	4.00	2.11	5.32	3.93	2.21
18.0	25	6.07	4.24	1.85	5.92	4.17	1.95	5.77	4.10	2.04	5.71	4.07	2.08	5.62	4.03	2.14	5.47	3.96	2.23
19.0	27	6.15	4.26	1.87	6.00	4.19	1.96	5.85	4.12	2.06	5.79	4.09	2.09	5.70	4.05	2.15	5.55	3.98	2.25
22.0	30	6.38	4.31	1.90	6.23	4.24	2.00	6.08	4.17	2.09	6.02	4.14	2.13	5.93	4.10	2.19	5.78	4.03	2.28
24.0	32	6.54	4.34	1.93	6.39	4.27	2.03	6.24	4.20	2.12	6.18	4.17	2.16	6.09	4.13	2.22	5.94	4.06	2.31

3D040604

SYMBOLS

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

NOTES

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

3 Capacity tables

RKS+FBQ35-60B

Cooling capacity **230V [50Hz]**

Outdoor	Indoor		Outdoor temperature (°C)																	
	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
35	14.0	20.0	3.2	2.4	0.91	3.1	2.3	1.01	3.0	2.2	1.12	2.9	2.2	1.13	2.8	2.1	1.16	2.7	2.0	1.25
	16.0	22.0	3.4	2.6	0.92	3.3	2.5	1.03	3.2	2.4	1.14	3.1	2.4	1.15	3.1	2.3	1.18	2.9	2.2	1.28
	18.0	25.0	3.7	2.8	0.94	3.6	2.7	1.05	3.4	2.6	1.16	3.4	2.5	1.17	3.3	2.5	1.20	3.2	2.4	1.30
	19.0	27.0	3.8	2.9	0.95	3.7	2.8	1.06	3.6	2.7	1.17	3.5	2.6	1.18	3.4	2.6	1.21	3.3	2.4	1.31
	22.0	30.0	4.2	3.2	0.97	4.1	3.0	1.09	3.9	2.9	1.20	3.9	2.9	1.22	3.8	2.8	1.25	3.6	2.7	1.35
	24.0	32.0	4.5	3.3	0.99	4.3	3.2	1.11	4.2	3.1	1.22	4.1	3.1	1.24	4.0	3.0	1.27	3.8	2.9	1.37
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	2.06
	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
60	14.0	20.0	5.8	4.6	1.84	5.6	4.6	1.94	5.5	4.5	2.03	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	2.16	6.2	4.6	2.20	6.1	4.6	2.26	5.9	4.5	2.35

3TW25112-1

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

NOTES

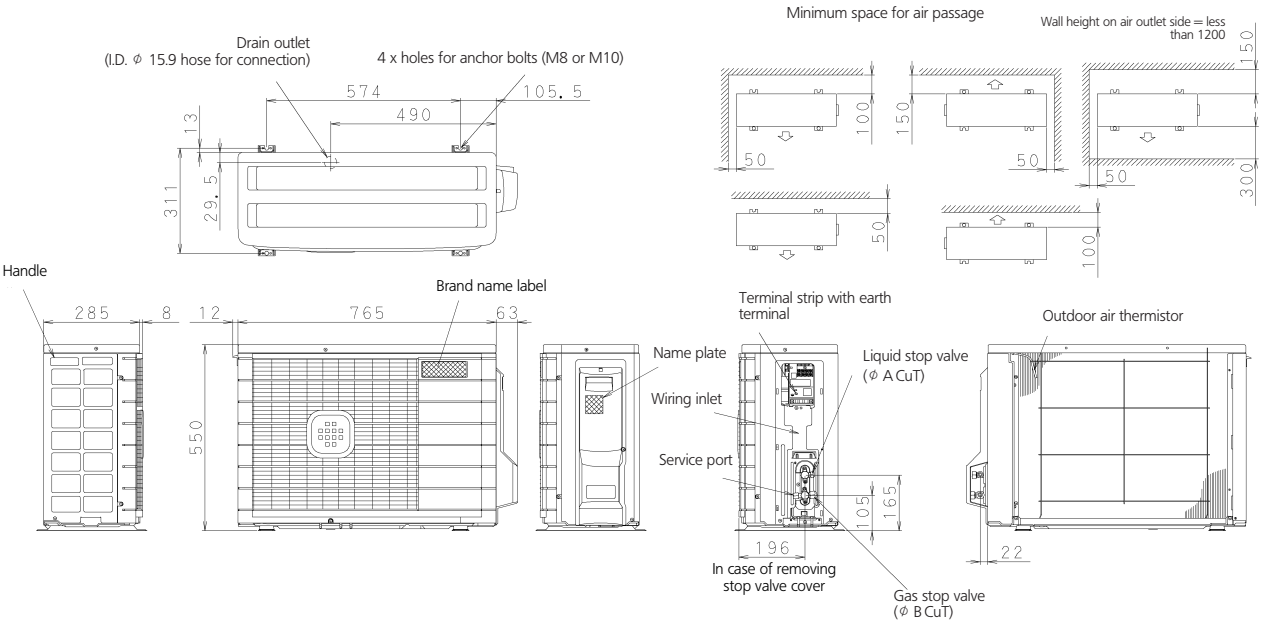
1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. Shows nominal cooling capacities and power input
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.29 x 60 x AFR (m^3/min) x (1-BF) x (DB-EDB)/860
   Add SHC* to SHC.
4. Direct interpolation is permissible.
   Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

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

4 Dimensional drawings

RKS20,25,35C

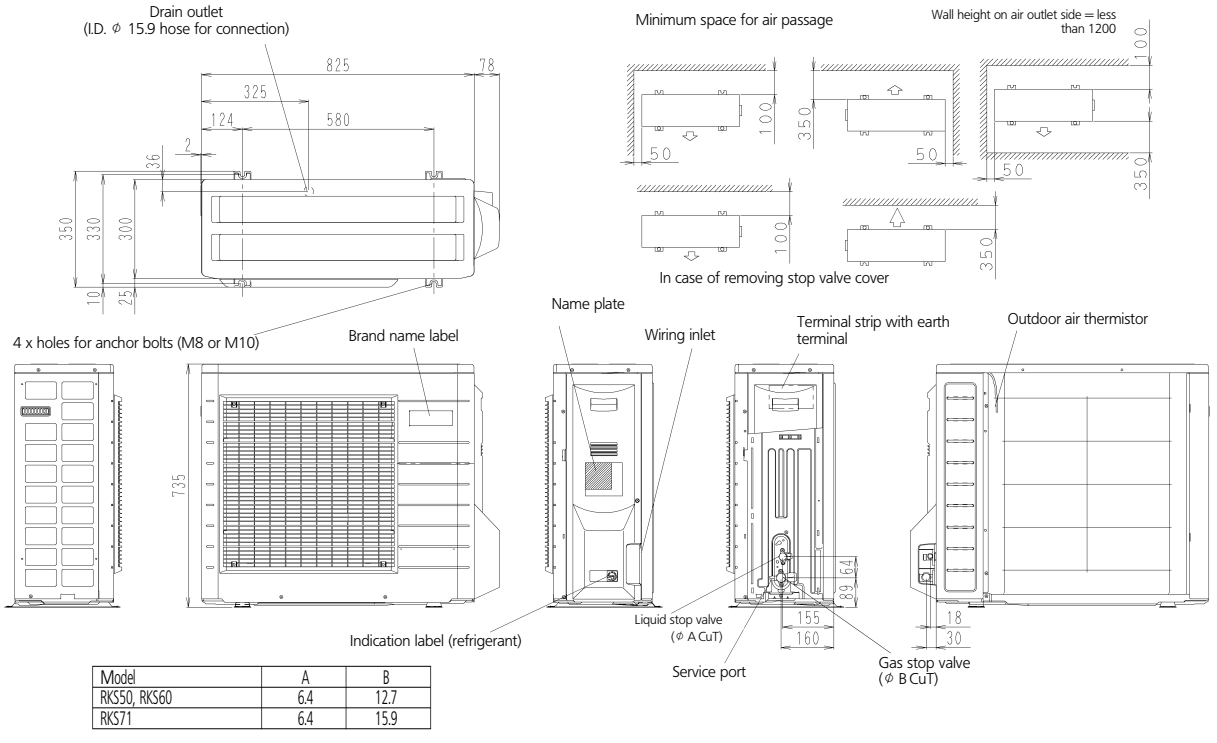
unit (mm)



3D041800

RKS50,60,71B

unit (mm)



Model	A	B
RKS50, RKS60	6.4	12.7
RKS71	6.4	15.9

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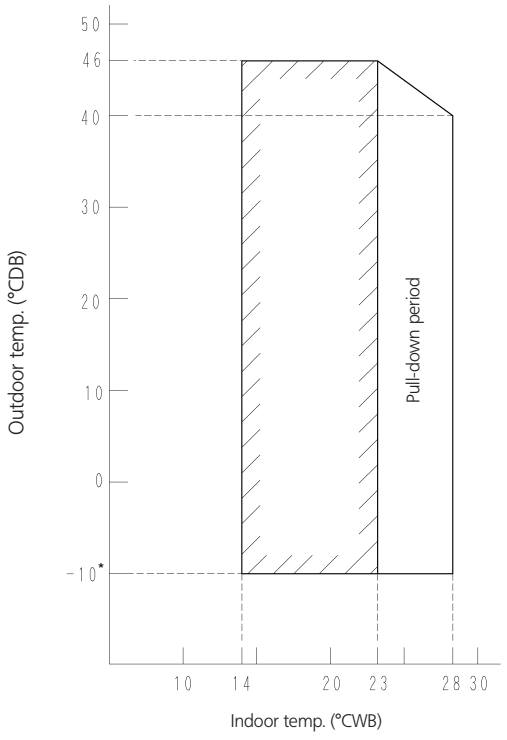
5 Operation range

5

RKS20,25,35C
RKS50,60,71B



Notes:

The graph is based on the following conditions:

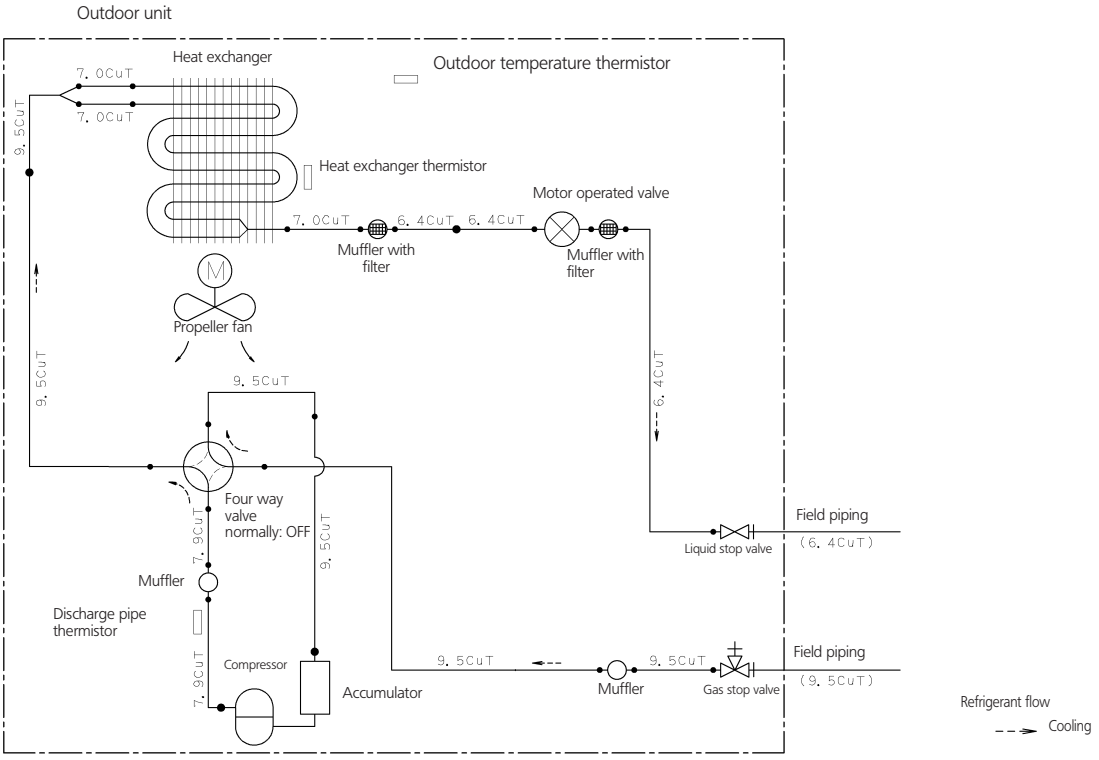
1. Equivalent piping length	7.5 m
2. Level difference	0 m
3. Air flow rate	high

4D029297C

* Possibility to extend the operation range down to -15°C by turning on the switch on the outdoor unit PCB. In this case, the unit will stop operation at -20°C or lower and will recover when temperature rises again.

6 Piping diagrams

RKS20,25C



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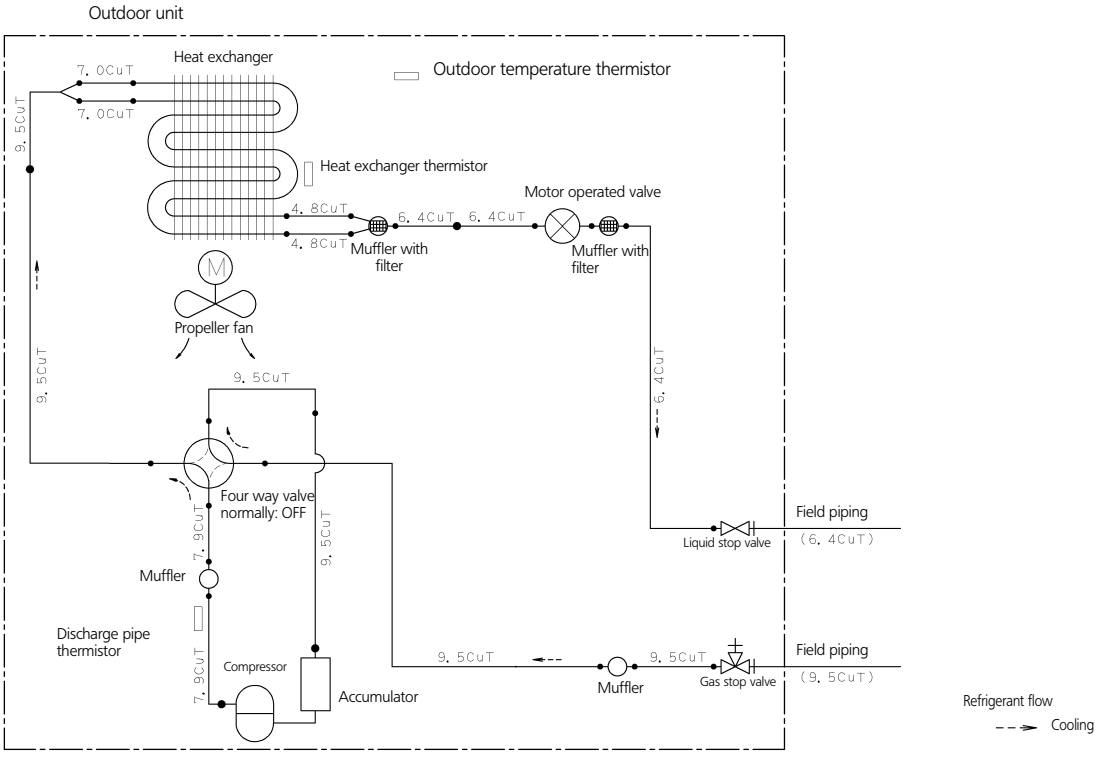
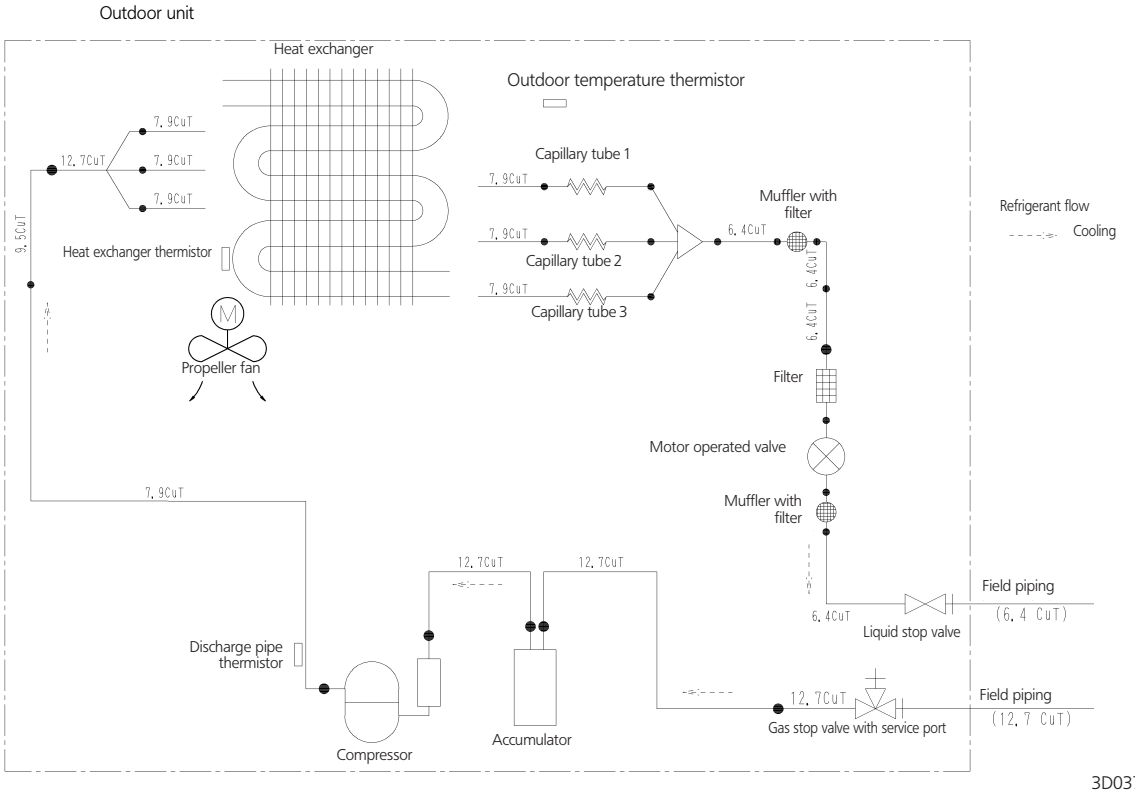
RKS35C



3D043691

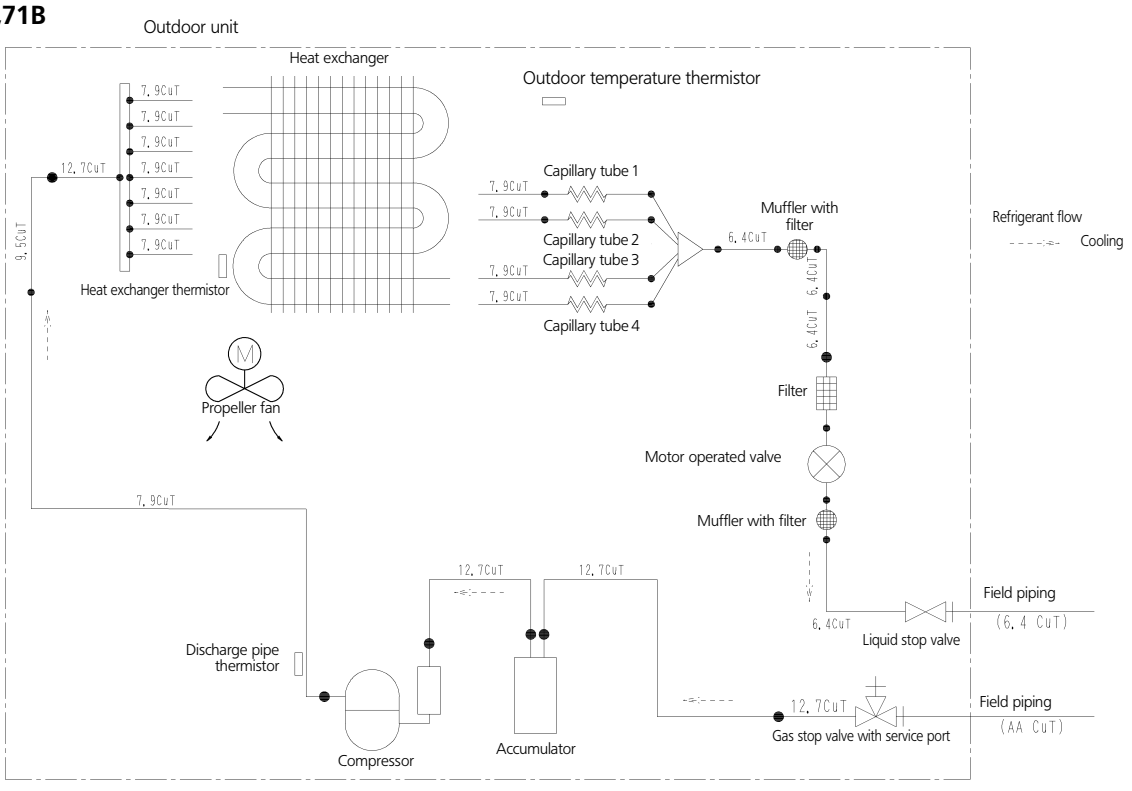
6 Piping diagrams

RKS50B



3D037835A

RKS60,71B



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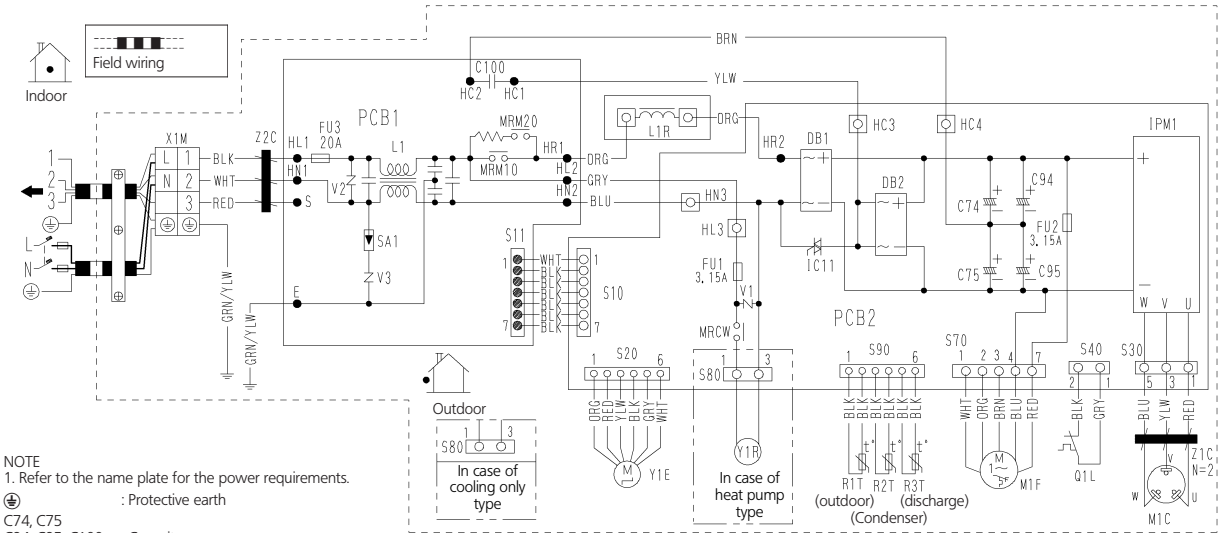
7 Wiring diagrams

RKS20,25,35C



NOTE
1. Refer to the name plate for the power requirements.

⏚	: Protective earth				
C74, C75					
C94, C95, C100	: Capacitor				
DB1, DB2	: Diode bridge				
F1U, F2U, F3U	: Fuse				
IC11	: Solid state relay				
IPM1	: Intelligent power module				
L	: Live	N	: Neutral		
L1	: Coil	PCB1, PCB2	: Printed circuit board		
L1R	: Reactor	Q1L	: Overload protector	SA1	: Surge arrester
M1C	: Compressor motor	R1T, R2T, R3T,	: Thermistor	Z1C, Z2C	: Ferrite core
M1F	: Fan motor	S10, S11, S20,		V1, V2, V3	: Varistor
PCB1	: Printed circuit board	S30, S40, S70		Y1E	: Electronic expansion valve coil
MRCW,		S80, S90, S91		Y1R	: Reversing solenoide valve coil
MRM10, MRM20	: Magnetic relay	HC3, HC4, HL3, HN3	: Connector	X1M	: Terminal strip

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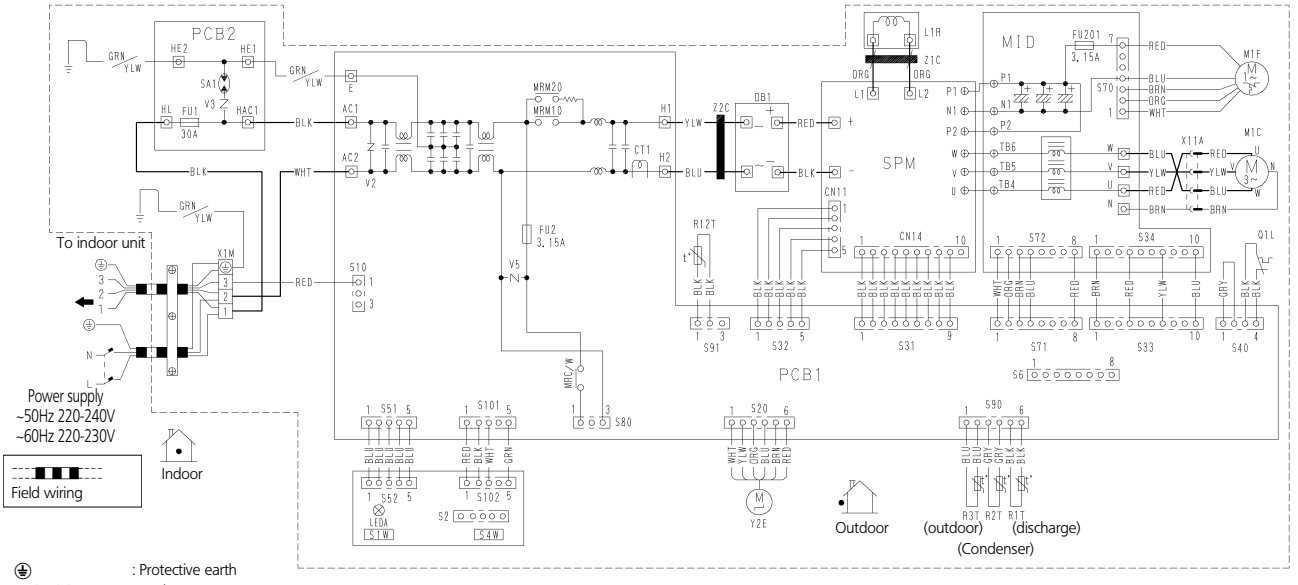
RKS50,60,71B



⏚	: Protective earth				
Z1C, Z2C	: Ferrite core				
X1M	: Terminal strip				
Y2E	: Electronic expansion valve coil	R1T~R3T	: Thermistor		
V2~V5	: Varistor	S2~S102	: Connector	DB1	: Diode bridge
F1U, F2U, FU201	: Fuse	LEDA	: Pilot lamp	M1C	: Compressor motor
HE1, HE2, HAC1,		PCB1, PCB2	: Printed circuit board	M1F	: Fan motor
E, AC1, AC2		L	: Live	L1R	: Reactor
H1, H2, HL		N	: Neutral	Q1L	: Overload protector
L1, L2, X11A	: Connector	S1W	: Forced operation on/off switch (SW1)	CT1	: Current transformer
MRM10, MRM20,		S4W	: Local setting	MID	: Molded interconnect device
MRC/W	: Magnetic relay	SA1	: Surge arrester	SPM	: System power module

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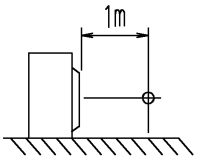
8 Sound level

8-1 Sound level data

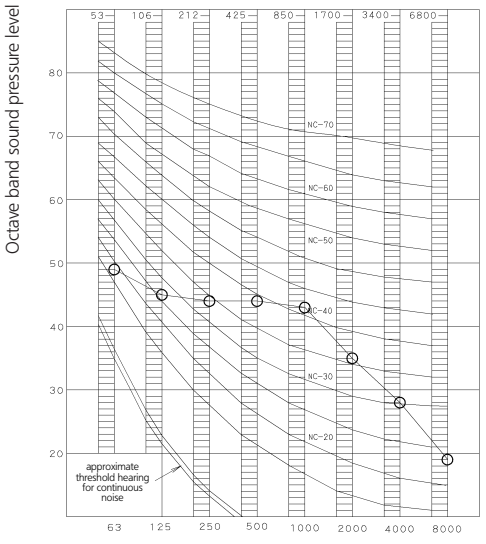
Cooling only

Model	Sound pressure level		Measuring location	Sound power level (cooling)
	230V, 50Hz			
	Cooling			
	H	L		
RKS20C	46	43		61
RKS25C	46	43		61
RKS35C	47	44		62
RKS50B	47	*		63
RKS60B	49	*		64
RKS71B	52	*		66

* This information was not available at the time of publication.

8-2 Sound pressure spectrum

RKS20-25C (Cooling)



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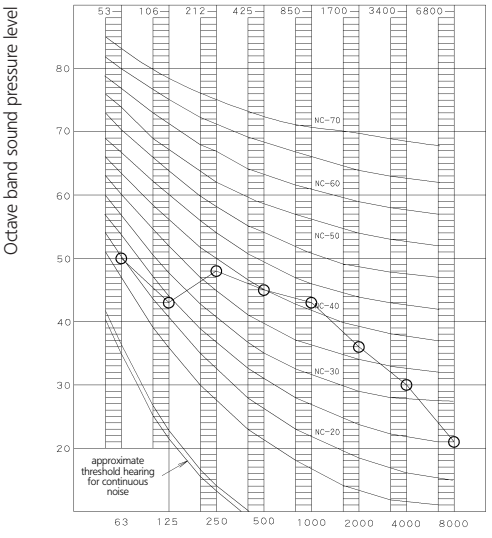
Octave band center frequency (Hz)

RKS35C (Cooling)



4D044106

Octave band center frequency (Hz)

Legend

50/60Hz, 220-240/220-230V

NOTES

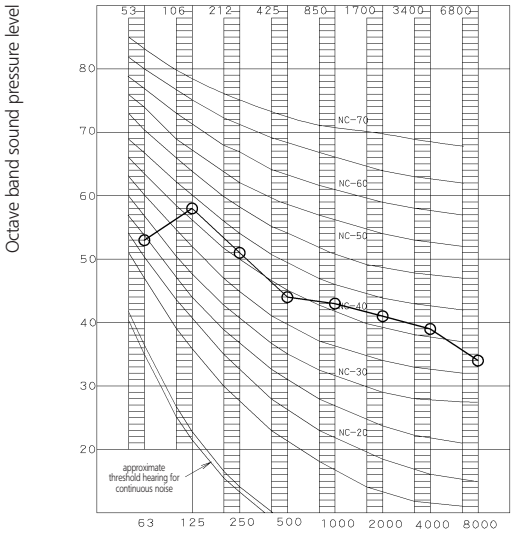
1 Operation sound is measured in an anechoic chamber.
2 Operation sound level differs with operation and ambient conditions.
3 Reference acoustic pressure 0dB = 20μPa

8 Sound level

8-2 Sound pressure spectrum

Cooling only

RKS50B



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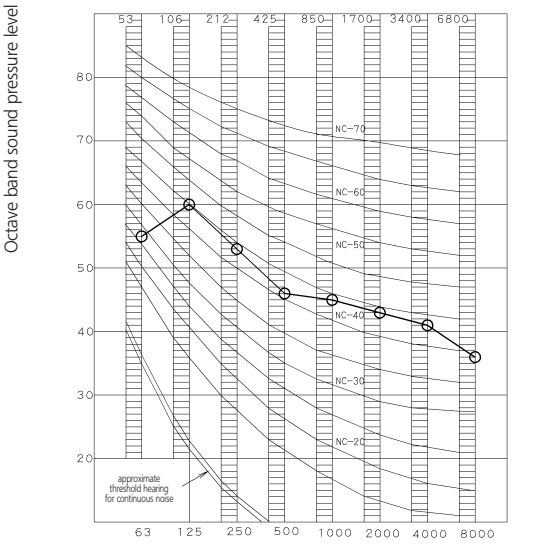
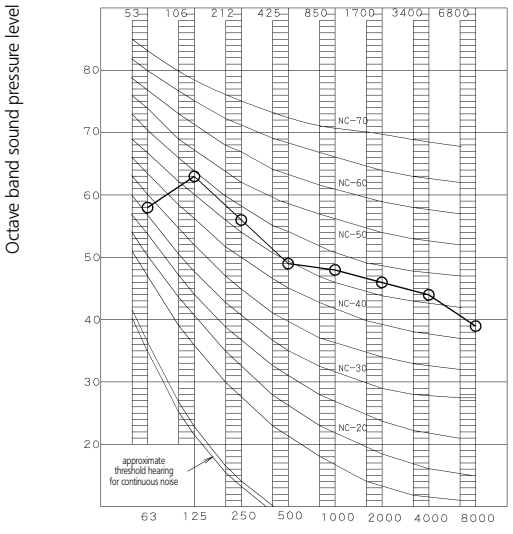
RKS60B



4D040949

RKS71B



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Legend

50/60Hz, 220-240/220-230V

NOTES

1 Operation sound is measured in an anechoic chamber.
2 Operation sound level differs with operation and ambient conditions.
3 Reference acoustic pressure 0dB = 20μPa

9 Accessories

9-1 Standard accessories

RKS-C/B

Accessories supplied with the outdoor unit:	
Installation manual	1

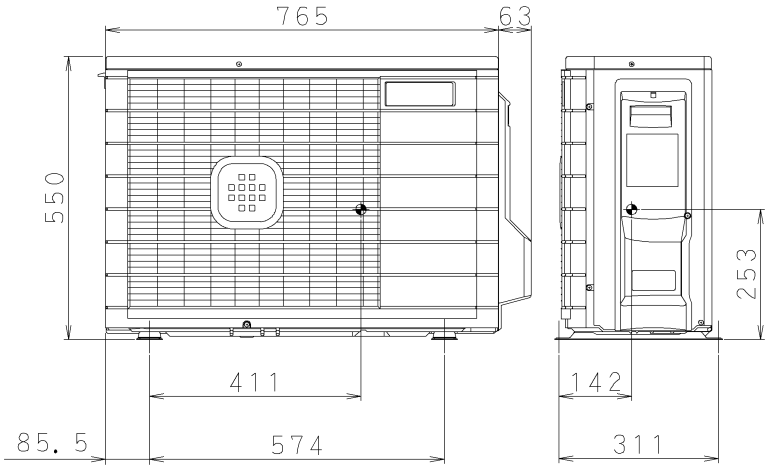
9-2 Optional accessories

RKS-C/B

	RKS20CVMB	RKS25CVMB	RKS35CVMB	RKS50BVMB9	RKS60BVMB9	RKS71BVMB9
Air direction adjustment grille	KPW937A4			KPW945A4		

10 Center of gravity

RKS20,25,35C



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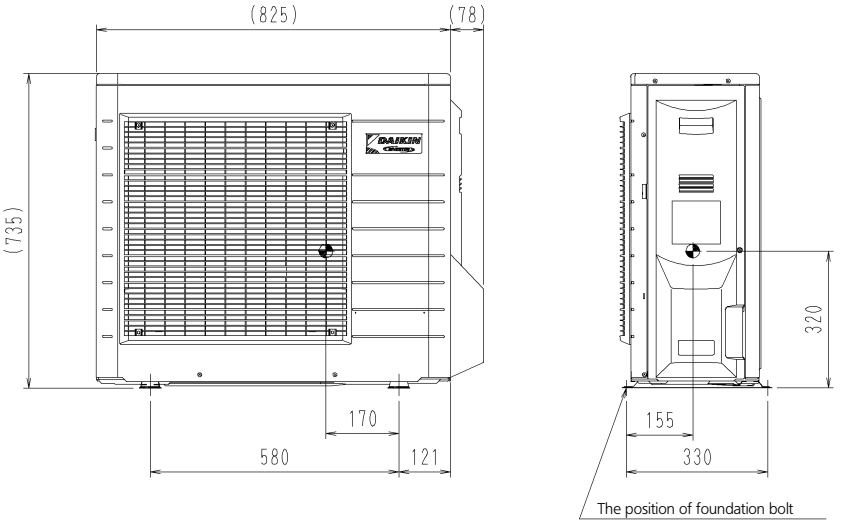
RKS50,60B



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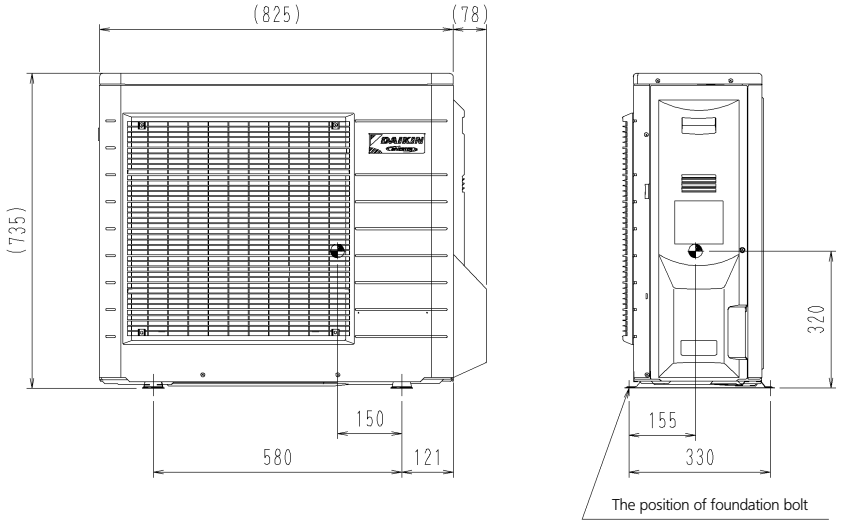
10 Center of gravity

10

RKS71B



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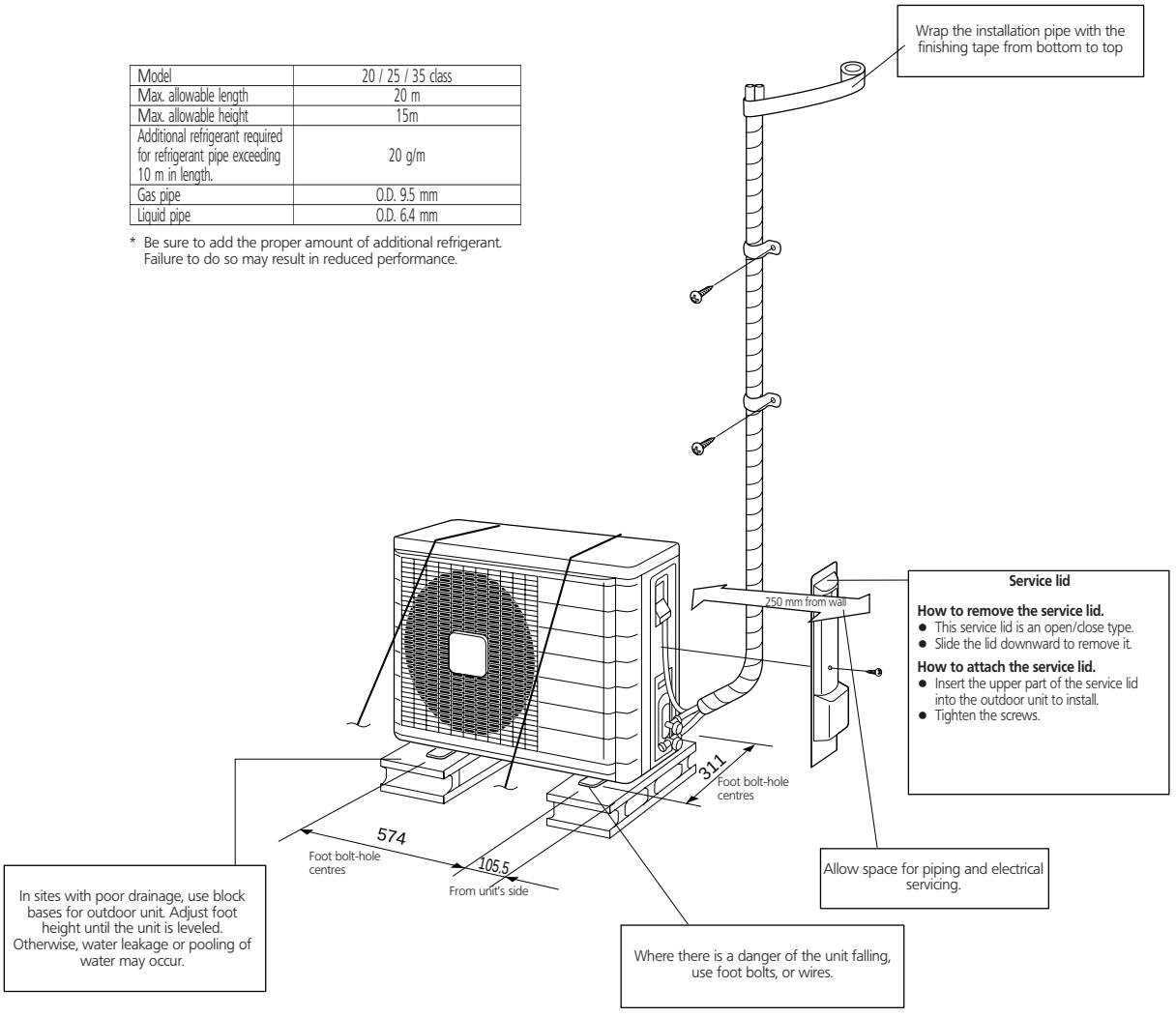
11 Installation

RKS20,25,35C

Outdoor unit installation drawings

Model	20 / 25 / 35 class
Max. allowable length	20 m
Max. allowable height	15m
Additional refrigerant required for refrigerant pipe exceeding 10 m in length.	20 g/m
Gas pipe	O.D. 9.5 mm
Liquid pipe	O.D. 6.4 mm

* Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.



unit (mm)

11 Installation

RKS50,60,71B

Outdoor unit installation drawings

Model	50 class	60 class	71 class
Max. allowable length	30m		
Max. allowable height	20m		
Additional refrigerant required for refrigerant pipe exceeding 10 m in length.	20 g/m		
Gas pipe	O.D. 12.7 mm		O.D. 9.5 mm
Liquid pipe	O.D. 6.4 mm		

* Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.