DAIKIN

technical data

RKS-E2V1B

air conditioning systems

R-410A

Split Sky Air

Split - Sky Air

Het ISO14001 assures an effective environmental management system in order to help protect human health and the environment from 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. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

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RKS-E2V1B

1 Features

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

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT					RKS20E2V1B	RKS25E2V1B	RKS35E2V1B
For combination indoor units + outdoor units	Indoor Units				FTKS20D3VMW	FTKS25D3VMW	FTKS35D3VMW
Cooling capacity	Minimum	kW			1.2	1.2	1.2
	Standard	kW			2.0	2.5	3.4
	Maximum	kW			2.6	3.0	3.8
Nominal input	Cooling	Minimum	kW		0.30	0.3	0.30
		Standard	kW		0.48	0.6	1.00
		Maximum	kW		0.82	0.8	1.22
For combination indoor units + outdoor units	EER	Nominal			4.17	4.17	3.40
	Energy Labeling Directive	Cooling				A	A
	Annual energy consumption		kWh		240	300	500
	Indoor Units				FTKS20D3VML	FTKS25D3VML	FTKS35DVML
Cooling capacity	Minimum	kW			1.2	1.2	1.2
	Standard	kW			2.0	2.5	3.4
	Maximum	kW			2.6	3.0	3.8
Nominal input	Cooling	Minimum	kW		0.30	0.3	0.30
		Standard	kW		0.48	0.6	1.00
		Maximum	kW		0.82	0.8	1.22
For combination indoor units + outdoor units	EER	Nominal				4.17	3.40
	COP	Nominal			4.17		
	Energy Labeling Directive	Cooling				A	A
	Annual energy consumption		kWh		240	300	500
	Indoor Units					FLKS25BAVMB	FDKS35EAVMB
Cooling capacity	Minimum	kW				1.2	1.4
	Standard	kW				2.5	3.4
	Maximum	kW				3.0	3.8
Nominal input	Cooling	Minimum	kW			0.30	
		Standard	kW			0.65	1.09
		Maximum	kW			0.86	
For combination indoor units + outdoor units	EER	Nominal				3.85	3.12
	Energy Labeling Directive	Cooling				A	B
	Annual energy consumption		kWh			325	545
	Indoor Units					FDKS25EAVMB	FLKS35BAVMB
Cooling capacity	Minimum	kW				1.3	1.2
	Standard	kW				2.4	3.5
	Maximum	kW				3.0	3.8
Nominal input	Cooling	Standard	kW			0.69	1.13
For combination indoor units + outdoor units	EER	Nominal				3.48	3.10
	Energy Labeling Directive	Cooling				A	B
	Annual energy consumption		kWh			345	565
	Indoor Units					FFQ25B8V1B	FFQ35B8V1B
Cooling capacity	Standard	kW				2.5	3.4
Nominal input	Cooling	Standard	kW			0.73	1.10
For combination indoor units + outdoor units	EER	Nominal				3.42	3.09
	Energy Labeling Directive	Cooling				A	B
	Annual energy consumption		kWh			365	550
	Indoor Units						FBQ35B8V1

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RKS20E2V1B	RKS25E2V1B	RKS35E2V1B
Cooling capacity	Standard	kW				3.4
Nominal input	Cooling	Standard	kW			1.17
For combination indoor units + outdoor units	EER	Nominal				2.91
	Energy Labeling Directive	Cooling				C
	Annual energy consumption		kWh			585
	Indoor Units					FHQ35BVV1B
Cooling capacity	Minimum	kW				1.4
	Standard	kW				3.4
	Maximum	kW				3.7
Nominal input	Cooling	Standard	kW			1.05
For combination indoor units + outdoor units	EER	Nominal				3.24
	Energy Labeling Directive	Cooling				A
	Annual energy consumption		kWh			525

2-2 TECHNICAL SPECIFICATIONS				RKS20E2V1B	RKS25E2V1B	RKS35E2V1B
Casing	Colour			Ivory White		
Dimensions	Unit	Height	mm	550	550	550
		Width	mm	765	765	765
		Depth	mm	285	285	285
	Packing	Height	mm	589	617	617
		Width	mm	882	882	882
		Depth	mm	363	363	363
Weight	Unit		kg	30	32	32
	Packed Unit		kg	35	38	38
Heat Exchanger	Dimensions	Length	mm	828	805	805
		Nr of Rows		1	2	2
		Fin Pitch	mm	1.4	1.4	1.4
		Nr of Stages		24	24	24
	Tube type			Hi-Xa(7)		
	Fin	Type		Waffle fin		
		Treatment		Anti-corrosion treatment (PE)		
Fan	Type			Propeller		
	Quantity				1	1
	Air Flow Rate (nominal at 230V)	Cooling	m³/min	36.2(H) - 25.7(L)	33.5(H) - 23.4(L)	33.5(H) - 23.4(L)
	Motor	Quantity		1	1	1
		Model		D238-28		
Motor	Speed (nominal)	Cooling	rpm	860(H) - 620(L)	860(H) - 620(L)	
Fan	Motor	Output	W	50	50	50
Compressor	Quantity			1	1	1
	Motor	Model		1YC23NXD#C		
		Type		Hermetically sealed swing compressor		
		Motor Output	W	600	600	600
Operation Range	Cooling	Min	°CDB	-10	-10	-10
		Max	°CDB	+46	+46	+46
Sound Level (nominal)	Cooling	Sound Power	dBA	61(H)	61(H)	62(H)
		Sound Pressure	dBA	46(H) - 43(L)	46(H) - 43(L)	47(H) - 44(L)
Refrigerant	Type			R-410A		
	Charge		kg	0.8	1.0	1.0

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RKS20E2V1B	RKS25E2V1B	RKS35E2V1B
Refrigerant Oil	Type			FVC50K		
	Charged Volume		l	0.375	0.375	0.375
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.35	6.35	6.35
	Gas	Diameter (OD)	mm	9.5	9.5	9.5
	Drain	Diameter (OD)	mm	18	18	18
	Piping Length	Maximum	m	20	20	20
		Chargeless	m		10	10
	Additional Refrigerant Charge		kg/m	0.02/>10m		
	Installation height difference	Maximum	m	15	15	15
	Heat Insulation			Both liquid and gas pipes		
Standard Accessories	Item			Installation manual		
	Quantity			1	1	1
Notes				Nominal cooling capacities are based on : indoor temperature : 270CDB, 190CWB, outdoor temperature : 350CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.		

2-3 ELECTRICAL SPECIFICATIONS				RKS20E2V1B	RKS25E2V1B	RKS35E2V1B
Power Supply	Name			V1		
	Phase			1	1	1
	Frequency		Hz	50	50	50
	Voltage		V	220-240		
Current	Nominal running current (RLA)	Cooling (A)	A	2.44	3.14	4.42
	Starting current (cooling/heating)		A	2.8	3.5	4.8
	Maximum Running Current		A		3.33	4.61
Wiring connections	For Power Supply	Quantity		3	3	3
	For connection with indoor	Quantity		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
FTKS20D3VMW/L	RKS20E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	40	2.3 2.1 2.0	23	0.20	40	0.14

3D055006

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
FTKS25D3VMW/L	RKS25E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	48.5	3.0 2.8 2.7	23	0.22	40	0.14

3D055008

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

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FLKS25BAVMB	RKS25E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	50	3.2 3.1 2.9	23	0.16	34	0.34

3D055010B

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
FDKS25EAVMB	RKS25E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	54.5	3.5 3.3 3.2	23	0.16	62	0.5

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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.
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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
FFQ25B8V1B	RKS25E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	55	3.7 3.5 3.4	23	0.16	55	0.6

3D055010B

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
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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
FTKS35D3VMW/L	RKS35E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	75	4.3 4.1 3.9	23	0.22	40	0.14

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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
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3. Select wire size based on the larger value of MCA.
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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
FLKS35BAVMB	RKS35E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	82	4.8 4.6 4.4	23	0.22	34	0.38

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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)
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Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FDKS35EAVMB	RKS35E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	78	4.7 4.5 4.3	23	0.22	62	0.5

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MCA : Min. Circuit Amps (A)
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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
FBQ35B8V1	RKS35E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	80	5.1 4.9 4.7	23	0.16	65	0.5

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3

SYMBOLS

MCA : Min. Circuit Amps (A)
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RHz : Rated operating frequency (Hz)
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   Indoor temp.: 27°CDB/19.0°CWB
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Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FCQ35B8V1	RKS35E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	78	4.8 4.5 4.3	23	0.16	45	0.6

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SYMBOLS

MCA : Min. Circuit Amps (A)
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RHz : Rated operating frequency (Hz)
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   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.
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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
FFQ35B8V1B	RKS35E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	79	4.8 4.6 4.4	23	0.16	55	0.6

3D055011B

SYMBOLS

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Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FHQ35BVV1B	RKS35E2V1B	50 - 220 50 - 230 50 - 240	Max. 50Hz 264V Min. 50Hz 198V	9.75	10	76	4.5 4.3 4.1	23	0.22	62	0.6

3D055011B

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

FTKS20D3VMW/L+RKS20E2V1B

AFR	8.7
BF	0.21

Cooling **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	2.05	1.71	0.37	1.96	1.66	0.40	1.86	1.62	0.44	1.83	1.60	0.45	1.77	1.58	0.47	1.68	1.53	0.51
16.0	22	2.14	1.68	0.37	2.05	1.64	0.41	1.95	1.60	0.44	1.92	1.58	0.46	1.86	1.56	0.48	1.77	1.52	0.51
18.0	25	2.23	1.78	0.37	2.14	1.75	0.41	2.05	1.71	0.44	2.01	1.69	0.46	1.95	1.67	0.48	1.86	1.64	0.51
19.0	27	2.28	1.91	0.37	2.19	1.87	0.41	2.09	1.83	0.44	2.06	1.82	0.46	2.00	1.80	0.48	1.91	1.76	0.52
22.0	30	2.42	1.85	0.38	2.32	1.82	0.41	2.23	1.78	0.45	2.19	1.77	0.46	2.14	1.75	0.48	2.05	1.72	0.52
24.0	32	2.51	1.81	0.38	2.42	1.78	0.41	2.32	1.75	0.45	2.29	1.74	0.46	2.23	1.72	0.49	2.14	1.69	0.52

3D055186

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

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

FTKS25D3VMW/L+RKS25E2V1B

AFR	8.7
BF	0.24

Cooling **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	1.93	0.46	2.44	1.87	0.50	2.33	1.82	0.55	2.28	1.79	0.57	2.21	1.76	0.59	2.10	1.70	0.64
16.0	22	2.68	1.90	0.46	2.56	1.84	0.51	2.44	1.79	0.55	2.40	1.77	0.57	2.33	1.74	0.60	2.21	1.69	0.64
18.0	25	2.79	1.99	0.47	2.68	1.94	0.51	2.56	1.89	0.55	2.51	1.87	0.57	2.44	1.84	0.60	2.33	1.80	0.64
19.0	27	2.85	2.11	0.47	2.73	2.06	0.51	2.62	2.01	0.56	2.57	1.99	0.57	2.50	1.96	0.60	2.38	1.92	0.64
22.0	30	3.02	2.03	0.47	2.91	1.99	0.52	2.79	1.95	0.56	2.74	1.93	0.58	2.67	1.91	0.60	2.56	1.86	0.65
24.0	32	3.14	1.98	0.47	3.02	1.94	0.52	2.90	1.90	0.56	2.86	1.89	0.58	2.79	1.86	0.61	2.67	1.83	0.65

3D055187

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

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

4 Capacity tables

4 - 1 Cooling capacity tables

FLKS25BAVMB+RKS25E2V1B

AFR	7.6
BF	0.32

Cooling **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	2.52	1.77	0.49	2.44	1.73	0.55	2.33	1.67	0.59	2.28	1.65	0.61	2.21	1.61	0.64	2.10	1.55	0.69
16.0	22	2.68	1.76	0.50	2.56	1.71	0.55	2.44	1.65	0.60	2.40	1.63	0.62	2.33	1.59	0.65	2.21	1.54	0.69
18.0	25	2.79	1.83	0.50	2.68	1.78	0.55	2.56	1.72	0.60	2.51	1.70	0.62	2.44	1.67	0.65	2.33	1.62	0.70
19.0	27	2.85	1.91	0.51	2.73	1.86	0.55	2.62	1.81	0.60	2.57	1.79	0.62	2.50	1.76	0.65	2.38	1.71	0.70
22.0	30	3.02	1.84	0.51	2.91	1.79	0.56	2.79	1.75	0.61	2.74	1.73	0.63	2.67	1.70	0.65	2.56	1.66	0.70
24.0	32	3.14	1.79	0.51	3.02	1.74	0.56	2.90	1.70	0.61	2.86	1.68	0.63	2.79	1.66	0.66	2.67	1.62	0.71

3D055191

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

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

FDKS25EAVMB+RKS25E2V1B

AFR	8.7
BF	0.17

Cooling **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	2.46	1.94	0.53	2.35	1.89	0.58	2.24	1.84	0.63	2.19	1.81	0.65	2.12	1.78	0.68	2.01	1.73	0.73
16.0	22	2.57	1.91	0.53	2.46	1.86	0.58	2.35	1.81	0.63	2.30	1.79	0.65	2.23	1.76	0.69	2.12	1.71	0.74
18.0	25	2.68	2.02	0.54	2.57	1.97	0.59	2.46	1.92	0.64	2.41	1.91	0.66	2.34	1.88	0.69	2.23	1.83	0.74
19.0	27	2.74	2.14	0.54	2.62	2.10	0.59	2.51	2.05	0.64	2.47	2.04	0.66	2.40	2.01	0.69	2.29	1.97	0.74
22.0	30	2.90	2.07	0.54	2.79	2.03	0.59	2.68	1.99	0.64	2.63	1.98	0.66	2.57	1.96	0.69	2.45	1.92	0.75
24.0	32	3.01	2.02	0.54	2.90	1.99	0.60	2.79	1.95	0.65	2.74	1.94	0.67	2.68	1.92	0.70	2.56	1.88	0.75

3D055193

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

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

4 Capacity tables

4 - 1 Cooling capacity tables

FFQ25B8V1B+RKS25E2V1B

AFR	9
BF	0.24

Cooling **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	1.95	0.56	2.44	1.89	0.61	2.33	1.84	0.67	2.28	1.81	0.69	2.21	1.78	0.72	2.10	1.72	0.78
16.0	22	2.68	1.92	0.56	2.56	1.86	0.62	2.44	1.81	0.67	2.40	1.79	0.69	2.33	1.76	0.73	2.21	1.71	0.78
18.0	25	2.79	2.01	0.57	2.68	1.96	0.62	2.56	1.92	0.67	2.51	1.90	0.70	2.44	1.87	0.73	2.33	1.82	0.78
19.0	27	2.85	2.13	0.57	2.73	2.08	0.62	2.62	2.04	0.68	2.57	2.02	0.70	2.50	1.99	0.73	2.38	1.94	0.78
22.0	30	3.02	2.06	0.57	2.91	2.02	0.63	2.79	1.97	0.68	2.74	1.96	0.70	2.67	1.93	0.73	2.56	1.89	0.79
24.0	32	3.14	2.01	0.58	3.02	1.97	0.63	2.90	1.93	0.68	2.86	1.91	0.71	2.79	1.89	0.74	2.67	1.85	0.79

3D055488

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

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

FTKS35D3VMW/L+RKS35E2V1B

AFR	8.9
BF	0.24

Cooling **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	3.31	2.33	0.77	3.31	2.33	0.84	3.17	2.25	0.92	3.10	2.22	0.94	3.01	2.17	0.99	2.85	2.09	1.06
16.0	22	3.64	2.38	0.77	3.48	2.30	0.85	3.32	2.22	0.92	3.26	2.19	0.95	3.17	2.14	0.99	3.01	2.07	1.07
18.0	25	3.80	2.47	0.78	3.64	2.39	0.85	3.48	2.32	0.92	3.42	2.29	0.95	3.32	2.24	1.00	3.16	2.17	1.07
19.0	27	3.87	2.57	0.78	3.72	2.50	0.85	3.56	2.43	0.93	3.49	2.40	0.96	3.40	2.36	1.00	3.24	2.29	1.07
22.0	30	4.11	2.47	0.78	3.95	2.41	0.86	3.79	2.35	0.93	3.73	2.32	0.96	3.63	2.28	1.01	3.48	2.22	1.08
24.0	32	4.27	2.40	0.79	4.11	2.34	0.86	3.95	2.28	0.94	3.89	2.26	0.97	3.79	2.23	1.01	3.63	2.17	1.08

3D055188

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

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

4 Capacity tables

4 - 1 Cooling capacity tables

FLKS35BAVMB+RKS35E2V1B

AFR	8.6
BF	0.35

Cooling **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	2.72	1.92	0.87	2.72	1.92	0.95	2.72	1.92	1.03	2.72	1.92	1.07	2.72	1.92	1.12	2.72	1.92	1.20
16.0	22	3.34	2.14	0.87	3.34	2.14	0.96	3.34	2.14	1.04	3.34	2.14	1.07	3.26	2.10	1.12	3.10	2.01	1.21
18.0	25	3.91	2.42	0.88	3.75	2.34	0.96	3.58	2.26	1.04	3.52	2.22	1.08	3.42	2.17	1.13	3.26	2.09	1.21
19.0	27	3.99	2.51	0.88	3.83	2.43	0.96	3.66	2.34	1.05	3.60	2.31	1.08	3.50	2.27	1.13	3.34	2.19	1.21
22.0	30	4.23	2.40	0.89	4.07	2.33	0.97	3.90	2.26	1.05	3.84	2.23	1.09	3.74	2.19	1.14	3.58	2.12	1.22
24.0	32	4.39	2.32	0.89	4.23	2.26	0.98	4.07	2.19	1.06	4.00	2.16	1.09	3.90	2.13	1.14	3.74	2.06	1.23

3D055192

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

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

FDKS35EAVMB+RKS35E2V1B

AFR	8.7
BF	0.17

Cooling **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	3.48	2.46	0.84	3.33	2.38	0.92	3.17	2.30	1.00	3.10	2.26	1.03	3.01	2.21	1.08	2.85	2.13	1.16
16.0	22	3.64	2.42	0.84	3.48	2.34	0.92	3.32	2.26	1.00	3.26	2.23	1.03	3.17	2.19	1.08	3.01	2.11	1.16
18.0	25	3.80	2.51	0.85	3.64	2.44	0.93	3.48	2.37	1.01	3.42	2.34	1.04	3.32	2.30	1.09	3.16	2.22	1.17
19.0	27	3.87	2.63	0.85	3.72	2.56	0.93	3.56	2.49	1.01	3.49	2.46	1.04	3.40	2.42	1.09	3.24	2.35	1.17
22.0	30	4.11	2.53	0.86	3.95	2.47	0.94	3.79	2.40	1.02	3.73	2.38	1.05	3.63	2.34	1.10	3.48	2.28	1.18
24.0	32	4.27	2.46	0.86	4.11	2.40	0.94	3.95	2.34	1.02	3.89	2.32	1.05	3.79	2.29	1.10	3.63	2.23	1.18

3D055194

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

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

4 Capacity tables

4 - 1 Cooling capacity tables

FBQ35B8V1+RKS35E2V1B

AFR	11.5
BF	0.15

Cooling **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	3.48	2.70	0.90	3.33	2.62	0.98	3.17	2.55	1.07	3.10	2.52	1.11	3.01	2.47	1.16	2.85	2.40	1.24
16.0	22	3.64	2.65	0.90	3.48	2.58	0.99	3.32	2.51	1.08	3.26	2.48	1.11	3.17	2.44	1.16	3.01	2.37	1.25
18.0	25	3.80	2.80	0.91	3.64	2.73	0.99	3.48	2.66	1.08	3.42	2.64	1.12	3.32	2.60	1.17	3.16	2.53	1.25
19.0	27	3.87	2.96	0.91	3.72	2.90	1.00	3.56	2.84	1.08	3.49	2.81	1.12	3.40	2.77	1.17	3.24	2.71	1.26
22.0	30	4.11	2.86	0.92	3.95	2.81	1.00	3.79	2.75	1.09	3.73	2.73	1.13	3.63	2.70	1.18	3.48	2.64	1.26
24.0	32	4.27	2.79	0.92	4.11	2.74	1.01	3.95	2.69	1.10	3.89	2.67	1.13	3.79	2.64	1.18	3.63	2.59	1.27

3D055494

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

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

FCQ35B8V1+RKS35E2V1B

AFR	14
BF	0.16

Cooling **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	3.48	2.91	0.84	3.33	2.84	0.92	3.17	2.76	1.00	3.10	2.73	1.03	3.01	2.69	1.08	2.85	2.62	1.16
16.0	22	3.64	2.86	0.84	3.48	2.79	0.92	3.32	2.72	1.00	3.26	2.70	1.03	3.17	2.66	1.08	3.01	2.59	1.16
18.0	25	3.80	3.04	0.85	3.64	2.98	0.93	3.48	2.92	1.01	3.42	2.89	1.04	3.32	2.85	1.09	3.16	2.79	1.17
19.0	27	3.87	3.25	0.85	3.72	3.19	0.93	3.56	3.13	1.01	3.49	3.10	1.04	3.40	3.07	1.09	3.24	3.01	1.17
22.0	30	4.11	3.15	0.86	3.95	3.10	0.94	3.79	3.04	1.02	3.73	3.02	1.05	3.63	2.99	1.10	3.48	2.94	1.18
24.0	32	4.27	3.08	0.86	4.11	3.03	0.94	3.95	2.99	1.02	3.89	2.97	1.05	3.79	2.94	1.10	3.63	2.89	1.18

3D055492

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

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

4 Capacity tables

4 - 1 Cooling capacity tables

FFQ35B8V1B+RKS35E2V1B

AFR	10
BF	0.25

Cooling **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	3.48	2.48	0.84	3.33	2.40	0.93	3.17	2.32	1.01	3.10	2.29	1.04	3.01	2.24	1.09	2.85	2.16	1.17
16.0	22	3.64	2.44	0.85	3.48	2.36	0.93	3.32	2.28	1.01	3.26	2.25	1.04	3.17	2.21	1.09	3.01	2.13	1.17
18.0	25	3.80	2.54	0.85	3.64	2.46	0.93	3.48	2.39	1.02	3.42	2.36	1.05	3.32	2.32	1.10	3.16	2.25	1.18
19.0	27	3.87	2.66	0.86	3.72	2.59	0.94	3.56	2.52	1.02	3.49	2.49	1.05	3.40	2.45	1.10	3.24	2.39	1.18
22.0	30	4.11	2.56	0.86	3.95	2.50	0.94	3.79	2.44	1.03	3.73	2.41	1.06	3.63	2.38	1.11	3.48	2.32	1.19
24.0	32	4.27	2.49	0.87	4.11	2.43	0.95	3.95	2.37	1.03	3.89	2.35	1.06	3.79	2.32	1.11	3.63	2.26	1.19

3D055490

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

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

FHQ35BVV1B+RKS35E2V1B

AFR	13
BF	0.20

Cooling **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	3.48	2.76	0.81	3.33	2.69	0.88	3.17	2.61	0.96	3.10	2.58	0.99	3.01	2.54	1.04	2.85	2.47	1.12
16.0	22	3.64	2.72	0.81	3.48	2.65	0.89	3.32	2.58	0.97	3.26	2.55	1.00	3.17	2.51	1.04	3.01	2.44	1.12
18.0	25	3.80	2.87	0.81	3.64	2.81	0.89	3.48	2.74	0.97	3.42	2.72	1.00	3.32	2.68	1.05	3.16	2.61	1.13
19.0	27	3.87	3.05	0.82	3.72	2.99	0.89	3.56	2.93	0.97	3.49	2.90	1.00	3.40	2.87	1.05	3.24	2.80	1.13
22.0	30	4.11	2.95	0.82	3.95	2.90	0.90	3.79	2.84	0.98	3.73	2.82	1.01	3.63	2.79	1.06	3.48	2.73	1.13
24.0	32	4.27	2.88	0.83	4.11	2.83	0.91	3.95	2.78	0.98	3.89	2.76	1.02	3.79	2.73	1.06	3.63	2.68	1.14

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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)

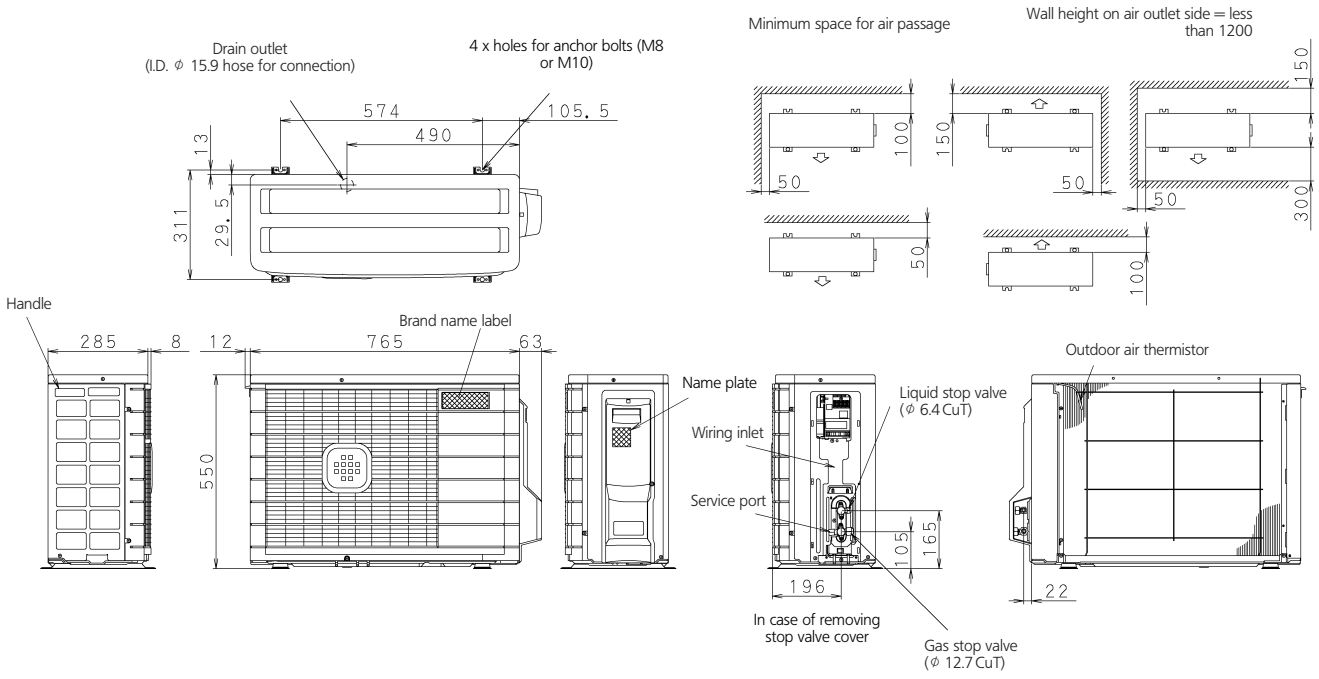
NOTES

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

5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

RKS20-35E2V1B **unit (mm)**



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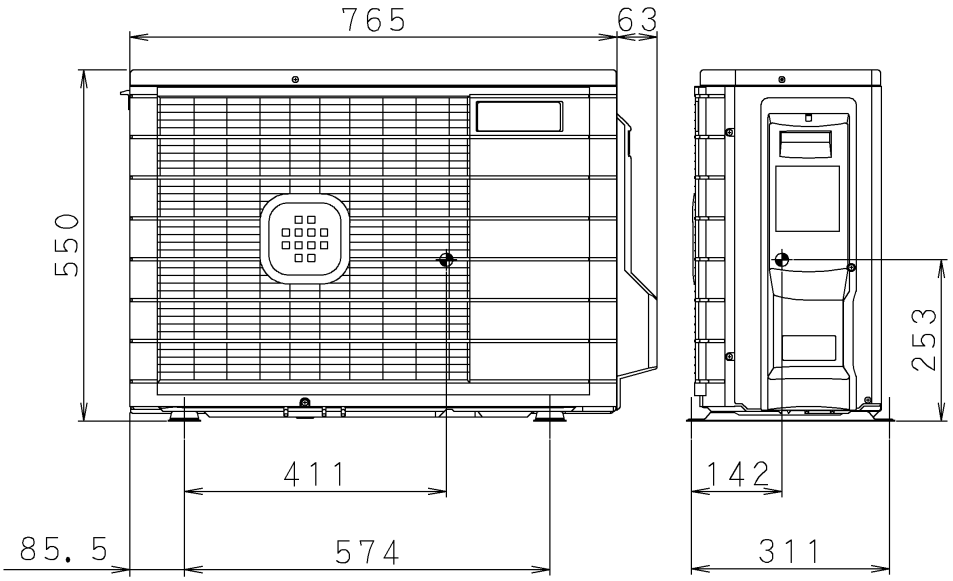
5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

RKS20-35E2V1B



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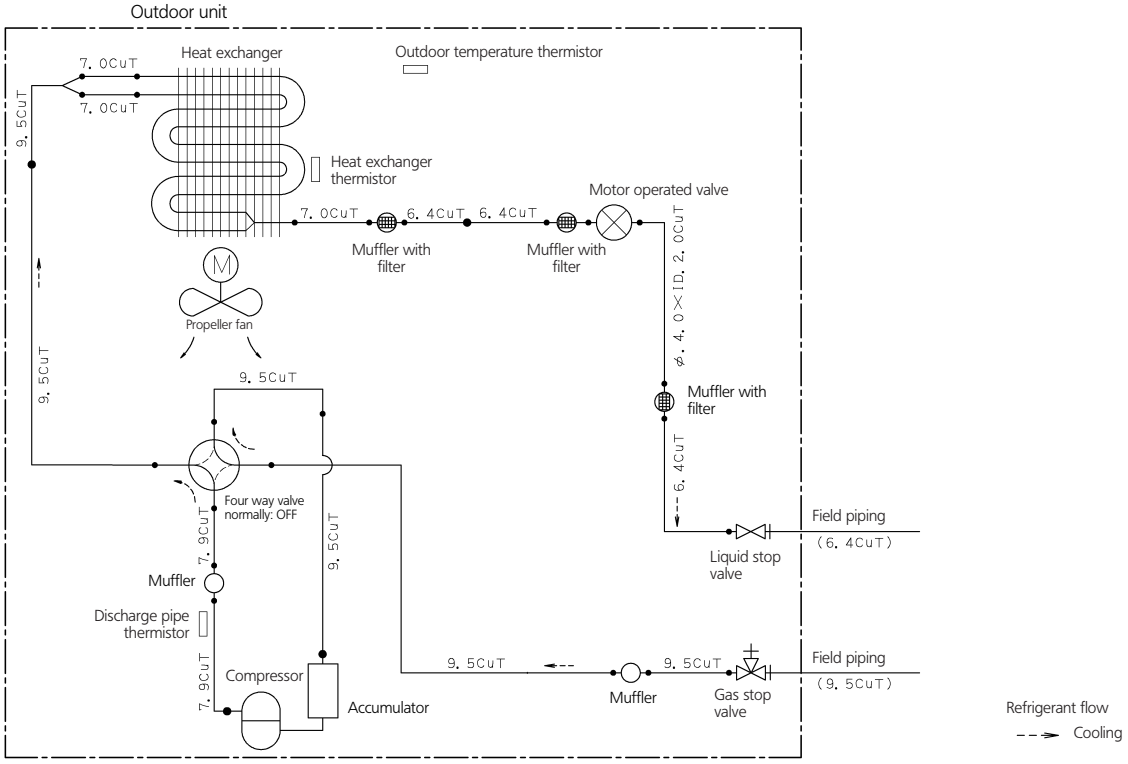
6 Piping diagram

RKS20E2V1B



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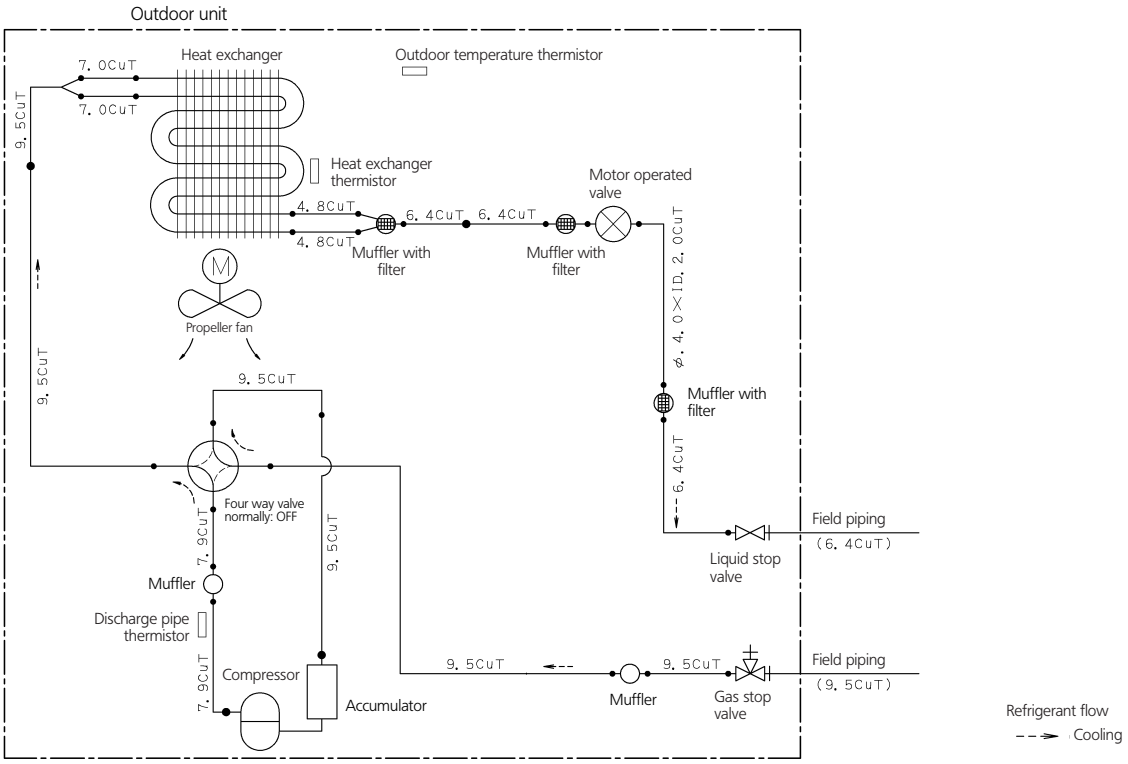
RKS25-35E2V1B



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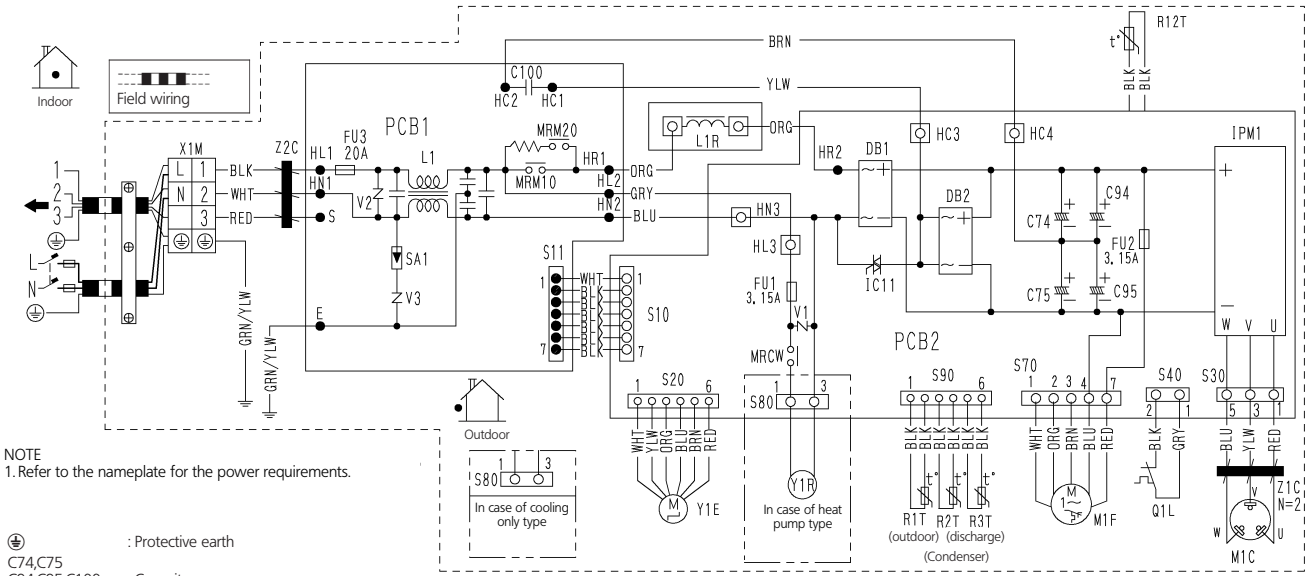
7 Wiring diagram

7 - 1 Wiring diagram

RKS20-35E2V1B



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

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

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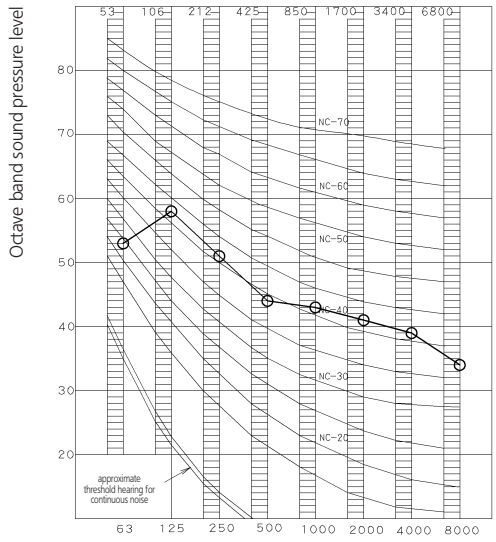
8 Sound data

8 - 1 Sound pressure spectrum

RKS20-25E2V1B



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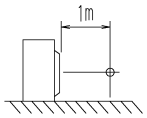
NOTES

1 Measure in anechoic room
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

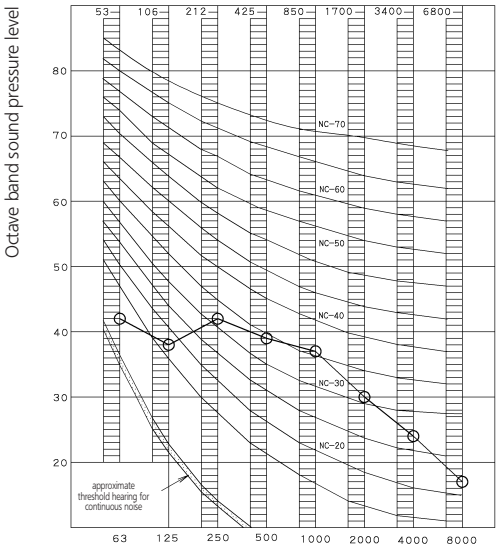
Location of microphone



Legend

50Hz, 220-240V

RKS35E2V1B

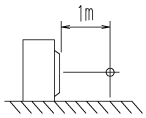


4D053222B

NOTES

1 Measure in anechoic room
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

Location of microphone

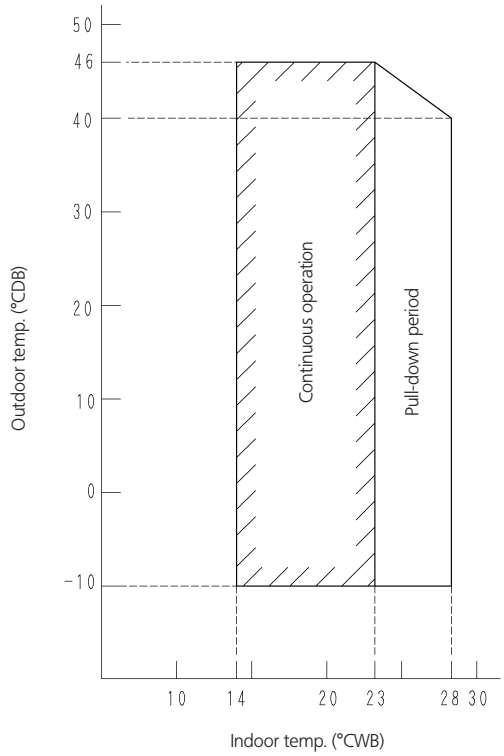


Legend

50Hz, 220-240V

9 Operation range

RKS20-35E2V1B



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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9 Operation range