DAIKIN

technical data

air conditioning systems

RKS-E2V1B

Wall Mounted Unit

Split Sky Air

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RKS-E2V1B

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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				RKS50E2V1B	RKS60E2V1B	RKS71E2V1B
For combination indoor units + outdoor units	Indoor Units			FTKS50D2V1W	FTKS60EV1B	FTKS71EV1B
Nominal Capacity	Cooling	Minimum	kW	2.0	2.0	4.0
		Standard	kW	5.0	6.0	7.0
		Maximum	kW	5.2	6.7	8.3
Nominal input	Cooling	Minimum	kW	0.500	0.500	1.080
		Standard	kW	1.650	1.990	2.480
		Maximum	kW	1.820	2.400	3.580
For combination indoor units + outdoor units	EER	Cooling		3.03	3.02	2.82
	Energy Labeling Directive	Cooling		B	B	C
	Annual energy consumption		kWh	825	995	1240
	Indoor Units			FTKS50D2V1L	FDKS60CVMB	
Nominal Capacity	Cooling	Minimum	kW	2.0	2.0	
		Standard	kW	5.0	6.0	
		Maximum	kW	5.2	6.5	
Nominal input	Cooling	Minimum	kW	0.500	0.500	
		Standard	kW	1.650	2.130	
		Maximum	kW	1.820	2.490	
For combination indoor units + outdoor units	EER	Cooling		3.03	2.82	
	Energy Labeling Directive	Cooling		B	C	
	Annual energy consumption		kWh	825	1,065	
	Indoor Units			FTKS50EV1B		
Nominal Capacity	Cooling	Minimum	kW	2.0		
		Standard	kW	5.0		
		Maximum	kW	6.0		
Nominal input	Cooling	Minimum	kW	0.500		
		Standard	kW	1.550		
		Maximum	kW	2.080		
For combination indoor units + outdoor units	EER	Cooling		3.23		
	Energy Labeling Directive	Cooling		A		
	Annual energy consumption		kWh	775		
	Indoor Units			FLKS50BAVMB		
Nominal Capacity	Cooling	Minimum	kW	0.9		
		Standard	kW	4.9		
		Maximum	kW	5.3		
Nominal input	Cooling	Minimum	kW	0.450		
		Standard	kW	1.720		
		Maximum	kW	1.950		
For combination indoor units + outdoor units	EER	Cooling		2.85		
	Energy Labeling Directive	Cooling		C		
	Annual energy consumption		kWh	860		
	Indoor Units			FVKS50BAVMB		
Nominal Capacity	Cooling	Minimum	kW	0.9		
		Standard	kW	4.8		
		Maximum	kW	5.3		
Nominal input	Cooling	Minimum	kW	0.450		
		Standard	kW	1.700		
		Maximum	kW	2.350		
For combination indoor units + outdoor units	EER	Cooling		2.82		
	Energy Labeling Directive	Cooling		C		
	Annual energy consumption		kWh	850		
	Indoor Units			FDKS50CVMB		

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RKS50E2V1B	RKS60E2V1B	RKS71E2V1B
Nominal Capacity	Cooling	Minimum	kW	2.0		
		Standard	kW	5.0		
		Maximum	kW	5.3		
Nominal input	Cooling	Minimum	kW	0.500		
		Standard	kW	1.650		
		Maximum	kW	1.930		
For combination indoor units + outdoor units	EER	Cooling		3.03		
	Energy Labeling Directive	Cooling		B		
	Annual energy consumption		kWh	825		

2-2 TECHNICAL SPECIFICATIONS				RKS50E2V1B	RKS60E2V1B	RKS71E2V1B
Casing	Colour			Ivory White		
Dimensions	Unit	Height	mm	735	735	735
		Width	mm	825	825	825
		Depth	mm	300	300	300
	Packing	Height	mm	797	797	797
		Width	mm	960	960	960
		Depth	mm	390	390	390
Weight	Unit		kg	47	47	55
	Packed Unit		kg	52	52	61
Heat Exchanger	Dimensions	Length	mm	845	845	845
		Nr of Rows		2	2	2
		Fin Pitch	mm	1.80	1.80	1.80
		Nr of Stages		32	32	32
	Tube type			Hi-Xa(8)		
	Fin	Type		Waffle fin		
		Treatment		Anti-corrosion treatment (PE)		
Fan	Type			Propeller		
	Quantity			1	1	1
	Air Flow Rate (nominal at 230V)	Cooling	m³/min	48.9	50.9	59.4
	Motor	Quantity		1	1	1
		Model		KFD-380-50-8A		
Motor	Speed (nominal)	Cooling	rpm	780	810	940
Fan	Motor	Output	W	53	53	53
Compressor	Quantity			1	1	1
	Motor	Model		2YC36BXD#A	2YC36BXD#A	2YC63BXD#C
		Type		Hermetically sealed swing compressor		
		Motor Output	W	1100	1100	1920
Operation Range	Cooling	Min	°CDB	-10.0	-10.0	-10.0
		Max	°CDB	46.0	46.0	46.0
Sound Level (nominal)	Cooling	Sound Power	dBA	61.0	63.0	66.0
		Sound Pressure	dBA	47.0	49.0	53.0
Refrigerant	Type			R-410A		
	Charge		kg	1.5	1.5	1.7
Refrigerant Oil	Type			FVC50K		
	Charged Volume		l	0.65	0.65	0.75
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.35	6.35	6.35
	Gas	Diameter (OD)	mm	12.7	12.7	15.9
	Drain	Diameter (OD)	mm	18	18	18
	Piping Length	Maximum	m	30	30	30
	Additional Refrigerant Charge		kg/m	0.02/>10m		
	Max. internunit level difference		m	20.0	20.0	20.0
	Heat Insulation			Both liquid and gas pipes		
Standard Accessories	Item			Installation manual		
	Quantity			1	1	1

2 Specifications

2-2 TECHNICAL SPECIFICATIONS	RKS50E2V1B	RKS60E2V1B	RKS71E2V1B
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.		
	Sound levels are measured in an anechoic room		
	Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings of this chapter.		
	The sound power level is an absolute value indicating the power which a sound source generates.		

2-3 ELECTRICAL SPECIFICATIONS				RKS50E2V1B	RKS60E2V1B	RKS71E2V1B
Power Supply	Name			V1		
	Phase			1	1	1
	Frequency		Hz	50	50	50
	Voltage		V	220-240		
	Voltage range	Minimum	V	-10%		
		Maximum	V	+10%		
Current	Nominal running current (RLA)	Cooling (A)	A	7.09	8.62	10.70
	Starting current (cooling/heating)		A	7.3	8.8	10.9
	Z-max	List		No requirements		
Wiring connections	For Power Supply	Quantity		3	3	3
	For connection with indoor	Quantity		4	4	4
		Remark		included earth wiring		
Power Supply Intake				Outdoor unit only		

3 Electrical data

RKS50E

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTKS50D2V1W FTKS50D2V1L	RKS50E2V1B	50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	72	6.8	53	0.27	40	0.16
FTKS50EV1B	RKS50E2V1B	50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	67	6.4	53	0.27	43	0.16
FLKS50BAVMB	RKS50E2V1B	50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	73	7.1	53	0.27	34	0.54
FVKS50BAVMB	RKS50E2V1B	50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	74	7.0	53	0.27	14+14	0.31
FDKS50CVMB	RKS50E2V1B	50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	74	6.8	53	0.27	130	0.70

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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.

RKS60E

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTKS60EV1B	RKS60E2V1B	50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	84	8.3	53	0.32	43	0.16
FDKS60CVMB	RKS60E2V1B	50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	87	8.9	53	0.32	130	0.80

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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

RKS71E

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTKS71EV1B	RKS71E2V1B	50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	19.75	20	60.5	10.4	53	0.42	43	0.18

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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

FTKS50D+RKS50E

AFR	11.4
BF	0.31

Cooling capacity **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	3.83	2.70	1.12	3.83	2.70	1.28	3.83	2.70	1.43	3.83	2.70	1.49	3.83	2.70	1.58	3.83	2.70	1.73
16.0	22	4.70	3.01	1.21	4.70	3.01	1.36	4.70	3.01	1.50	4.70	3.01	1.56	4.65	2.99	1.64	4.42	2.86	1.76
18.0	25	5.58	3.46	1.28	5.35	3.33	1.40	5.12	3.21	1.52	5.02	3.17	1.57	4.88	3.10	1.65	4.65	2.98	1.77
19.0	27	5.70	3.57	1.28	5.47	3.45	1.41	5.23	3.34	1.53	5.14	3.29	1.58	5.00	3.22	1.65	4.77	3.11	1.77
22.0	30	6.04	3.42	1.30	5.81	3.32	1.42	5.58	3.21	1.54	5.49	3.17	1.59	5.35	3.11	1.66	5.11	3.01	1.78
24.0	32	6.27	3.31	1.30	6.04	3.21	1.42	5.81	3.12	1.55	5.72	3.08	1.60	5.58	3.02	1.67	5.34	2.93	1.79

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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. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ shows nominal (rated) 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. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on 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.

FTKS50E+RKS50E

AFR	14.7
BF	0.28

Cooling capacity **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	5.12	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	1.55	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

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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. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ shows nominal (rated) 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. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on 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.

4 Capacity tables

4 - 1 Cooling capacity tables

FLKS50B+RKS50E

AFR	11.4
BF	0.18

Cooling capacity **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	4.96	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

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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. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ shows nominal (rated) 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. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on 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.

FVKS50B+RKS50E

AFR	10.8
BF	0.23

Cooling capacity **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	4.86	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

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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. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ shows nominal (rated) 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. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on 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.

4 Capacity tables

4 - 1 Cooling capacity tables

FDKS50C+RKS50E

AFR	12.0
BF	0.11

Cooling capacity **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	3.92	2.76	1.13	3.92	2.76	1.29	3.92	2.76	1.44	3.92	2.76	1.50	3.92	2.76	1.59	3.92	2.76	1.74
16.0	22	4.81	3.08	1.22	4.81	3.08	1.37	4.81	3.08	1.51	4.79	3.07	1.57	4.65	3.00	1.64	4.42	2.88	1.76
18.0	25	5.58	3.47	1.28	5.35	3.35	1.40	5.12	3.23	1.52	5.02	3.18	1.57	4.88	3.11	1.65	4.65	3.00	1.77
19.0	27	5.70	3.59	1.28	5.47	3.47	1.41	5.23	3.36	1.53	5.14	3.31	1.58	5.00	3.24	1.65	4.77	3.13	1.77
22.0	30	6.04	3.44	1.30	5.81	3.33	1.42	5.58	3.23	1.54	5.49	3.19	1.59	5.35	3.13	1.66	5.11	3.03	1.78
24.0	32	6.27	3.32	1.30	6.04	3.23	1.42	5.81	3.13	1.55	5.72	3.10	1.60	5.58	3.04	1.67	5.34	2.95	1.79

3D052273

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. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ shows nominal (rated) 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. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on 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.

FTKS60E+RKS60E

AFR	16.2
BF	0.29

Cooling capacity **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	5.60	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

3D051927

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. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ shows nominal (rated) 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. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on 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.

4 Capacity tables

4 - 1 Cooling capacity tables

FDKS60C+RKS60E

AFR	16.0
BF	0.12

Cooling capacity **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	6.12	4.31	1.63	5.87	4.18	1.79	5.59	4.03	1.95	5.48	3.97	2.01	5.31	3.89	2.11	5.03	3.74	2.26
16.0	22	6.42	4.25	1.64	6.14	4.11	1.80	5.86	3.97	1.96	5.75	3.92	2.02	5.59	3.84	2.12	5.31	3.70	2.27
18.0	25	6.70	4.41	1.65	6.42	4.28	1.81	6.14	4.15	1.97	6.03	4.10	2.03	5.86	4.02	2.13	5.58	3.90	2.28
19.0	27	6.84	4.61	1.66	6.56	4.49	1.82	6.28	4.36	1.97	6.17	4.31	2.04	6.00	4.24	2.13	5.72	4.12	2.29
22.0	30	7.25	4.43	1.67	6.97	4.32	1.83	6.69	4.21	1.99	6.58	4.17	2.05	6.41	4.10	2.14	6.13	3.99	2.30
24.0	32	7.53	4.30	1.68	7.25	4.20	1.84	6.97	4.10	2.00	6.86	4.06	2.06	6.69	4.00	2.15	6.35	3.89	2.30

3D052274

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. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ shows nominal (rated) 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. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on 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.

FTKS71E+RKS71E

AFR	17.4
BF	0.30

Cooling capacity **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	1.78	5.93	4.18	2.00	5.93	4.18	2.22	5.93	4.18	2.31	5.93	4.18	2.44	5.87	4.14	2.64
16.0	22	7.28	4.67	1.90	7.17	4.60	2.10	6.84	4.43	2.28	6.71	4.37	2.35	6.52	4.26	2.46	6.19	4.10	2.65
18.0	25	7.82	4.92	1.92	7.49	4.76	2.11	7.16	4.60	2.29	7.03	4.53	2.36	6.84	4.44	2.47	6.51	4.28	2.66
19.0	27	7.98	5.11	1.93	7.65	4.95	2.11	7.33	4.79	2.30	7.20	4.73	2.37	7.00	4.64	2.48	6.67	4.49	2.66
22.0	30	8.46	4.90	1.95	8.14	4.76	2.13	7.81	4.62	2.31	7.68	4.56	2.39	7.48	4.48	2.50	7.16	4.35	2.68
24.0	32	8.78	4.74	1.96	8.46	4.61	2.14	8.13	4.49	2.32	8.00	4.44	2.40	7.81	4.36	2.51	7.48	4.24	2.69

3D052801

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

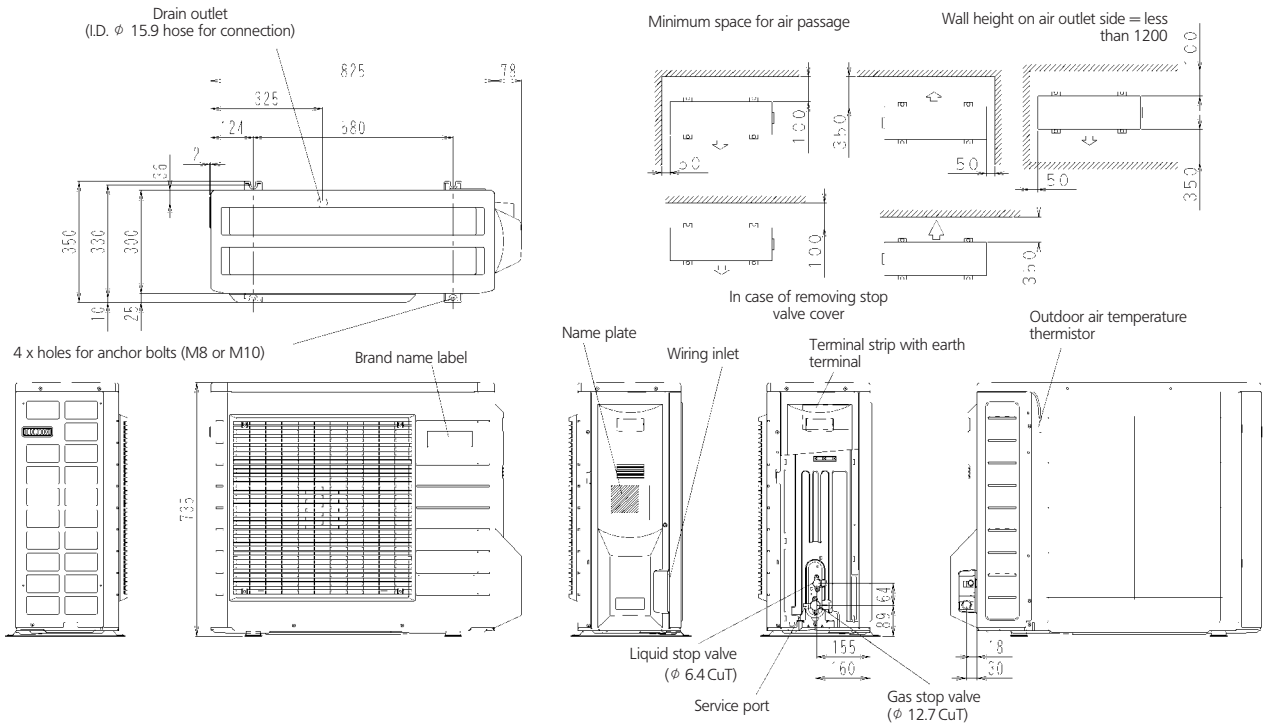
1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ shows nominal (rated) capacities and power input.
3. TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
4. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on 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.

5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

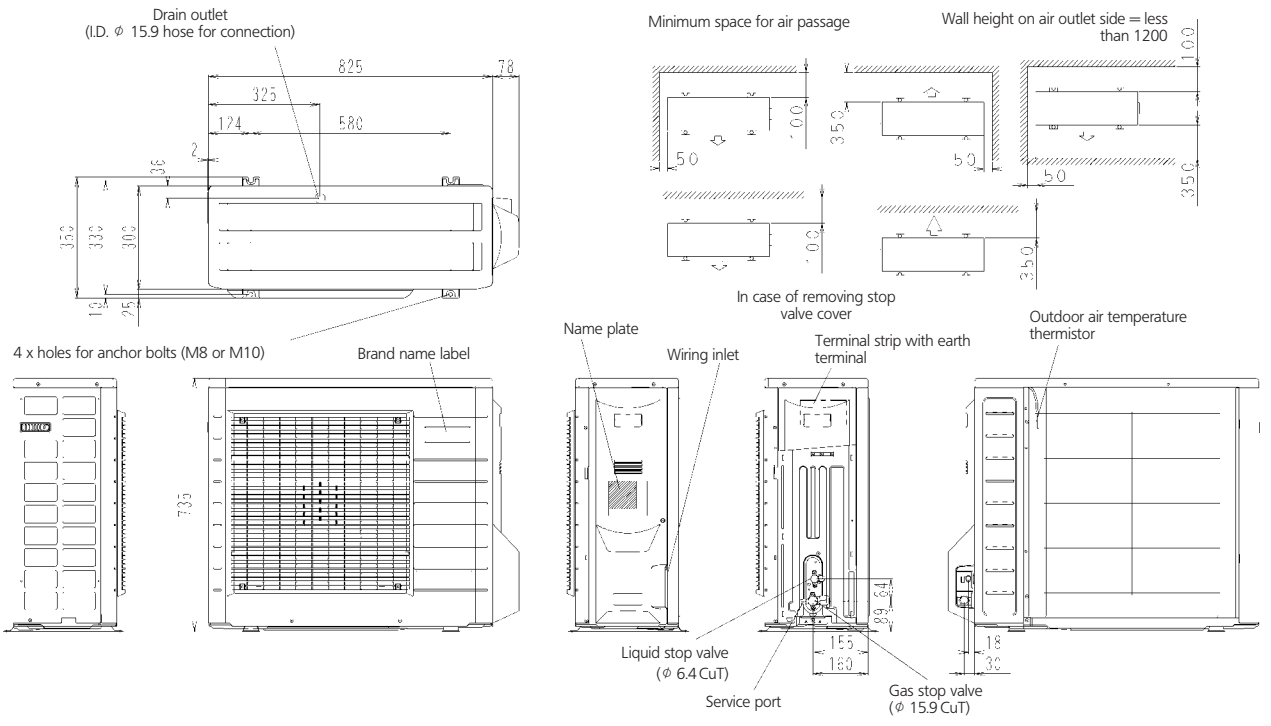
5

RKS50,60E **unit (mm)**



3D051657B

RKS71E **unit (mm)**

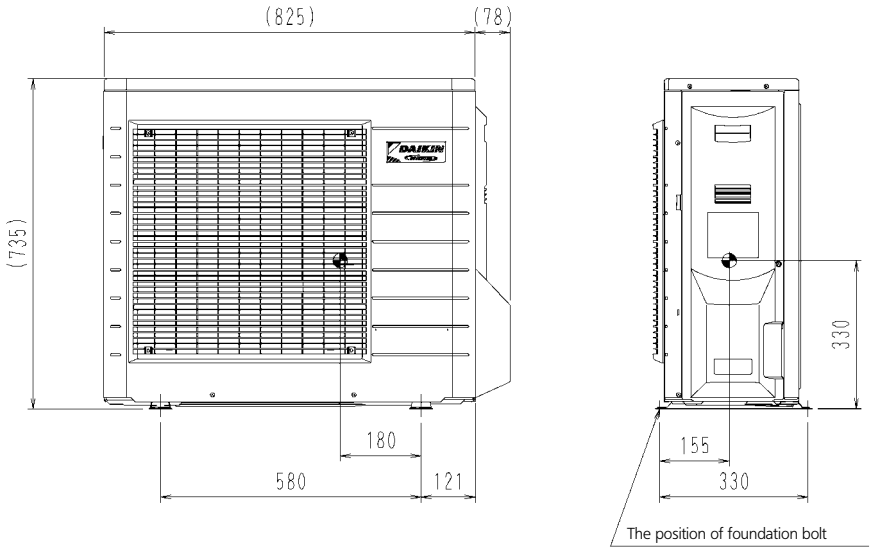


3D051658A

5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

RKS50,60E



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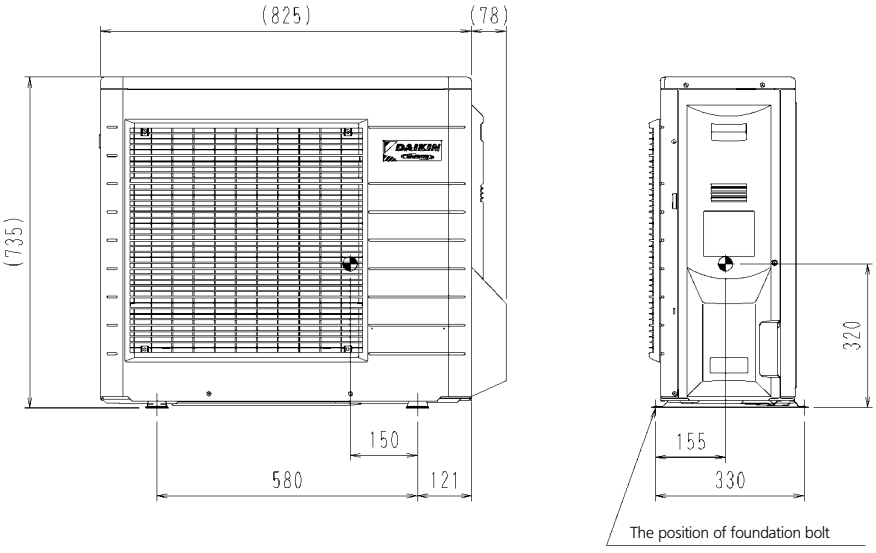
RKS71E



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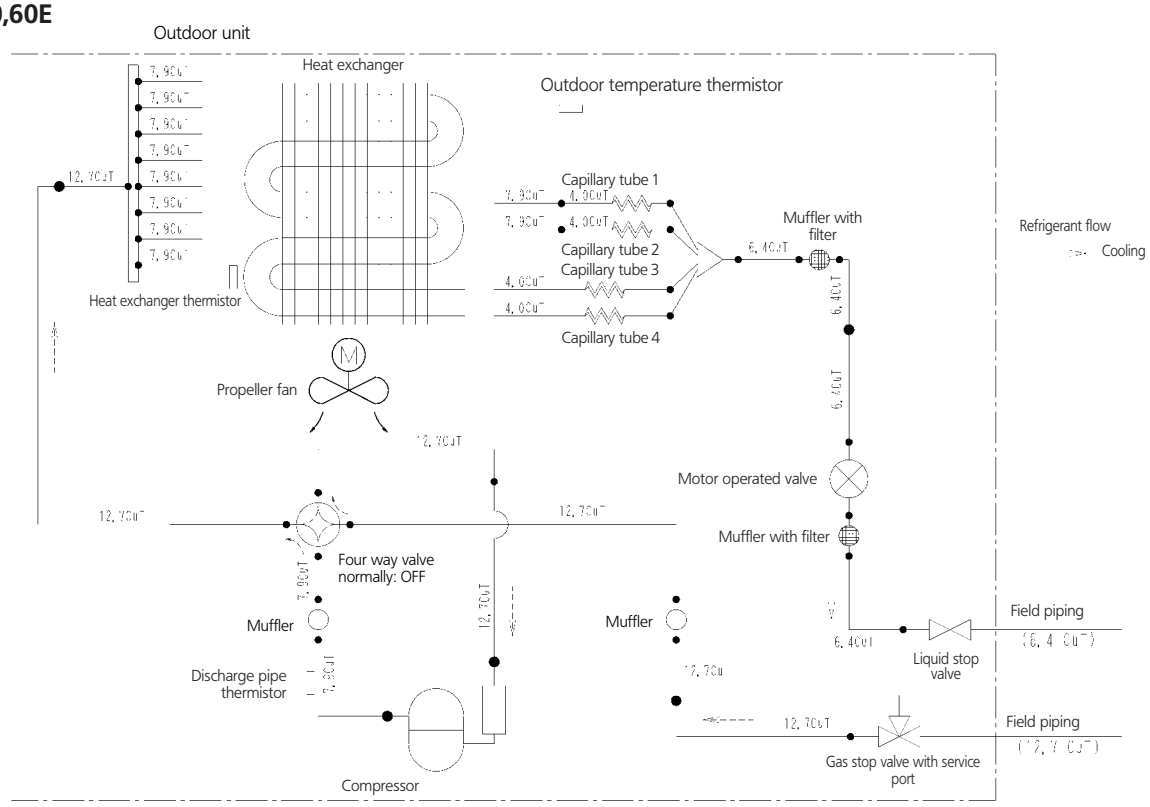
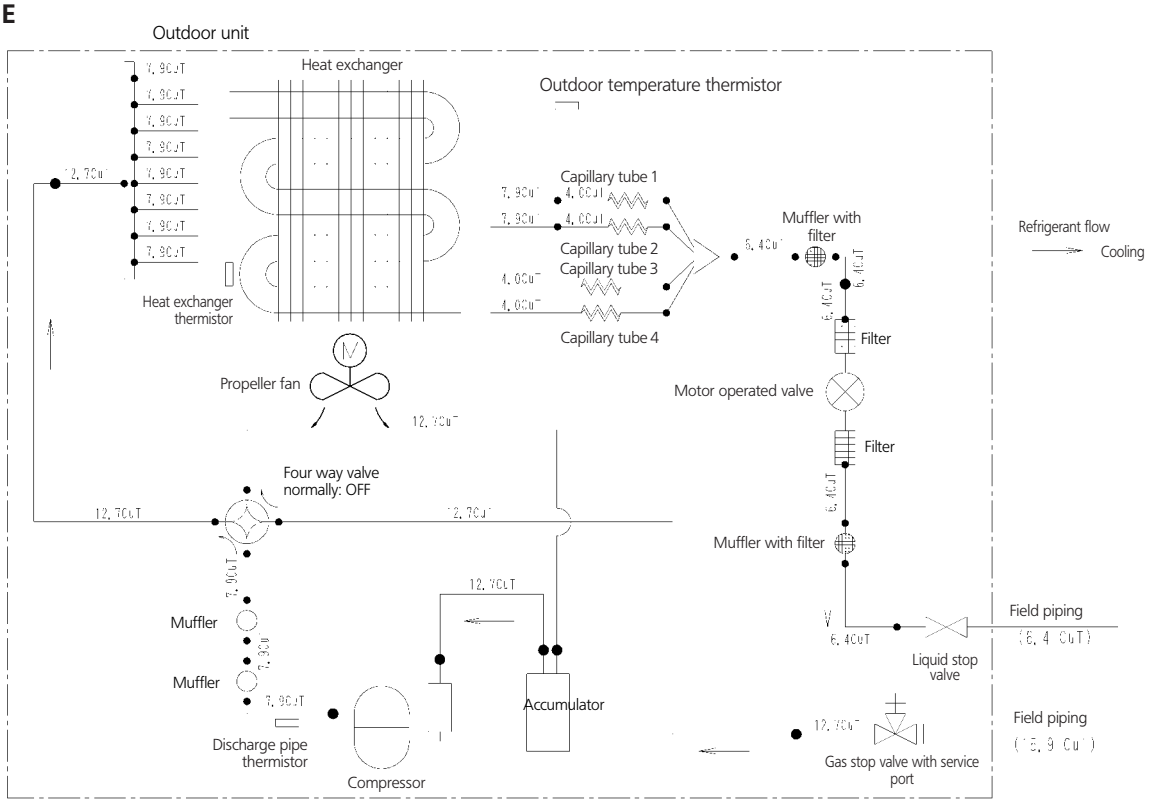
6 Piping diagram

RKS50,60E



3D051636A

RKS71E

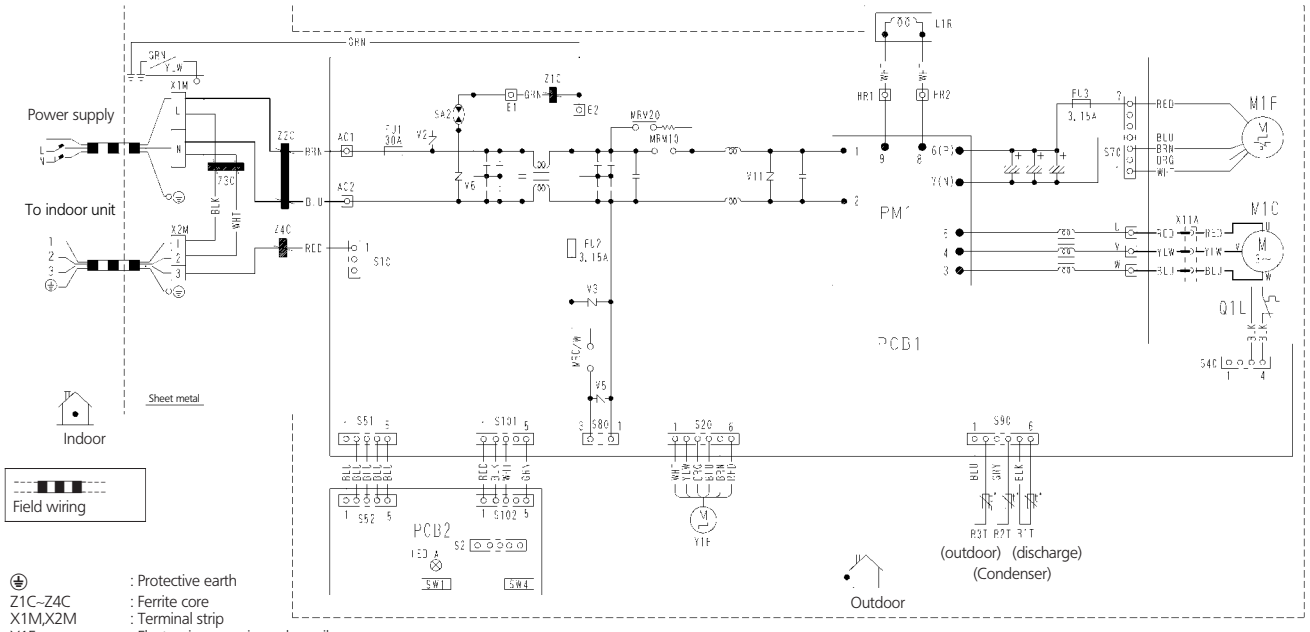


3D052753

7 Wiring diagram

7 - 1 Wiring diagram

RKS50,60E



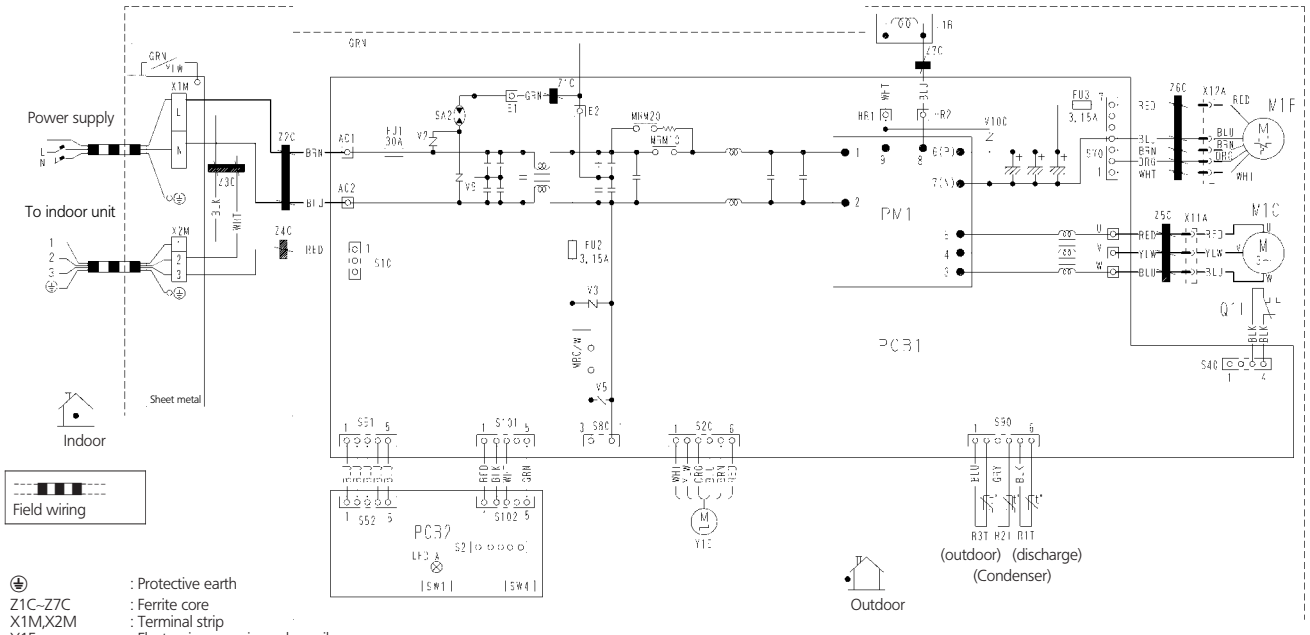
⏚	: Protective earth
Z1C~Z4C	: Ferrite core
X1M,X2M	: Terminal strip
Y1E	: Electronic expansion valve coil
V2,V3,V5,V6,V11	: Varistor
SA2	: Surge arrester
F1U,F2U,FU3	: Fuse
AC1,AC2	
U,V,W,X11A	
E1,E2	
HR1,HR2	: Connector
MRM10, MRM20, MRC/W	: Magnetic relay

R1T~R3T	: Thermistor
S2~S102	: Connector
LEDA	: Pilot lamp
L	: Live
N	: Neutral
S1W	: Forced operation on/off switch (SW1)
S4W	: Local setting

M1C	: Compressor motor
M1F	: Fan motor
L1R	: Reactor
Q1L	: Overload protector
PM1	: Power module
PCB1, 2	: Printed circuit board
Steel metal	: Terminal strip fixed plate

3D050981B

RKS71E



⏚	: Protective earth
Z1C~Z7C	: Ferrite core
X1M,X2M	: Terminal strip
Y1E	: Electronic expansion valve coil
V2,V3,V5,V9,V100	: Varistor
SA2	: Surge arrester
F1U,F2U,FU3	: Fuse
AC1,AC2	
U,V,W,X11A,X12A	
E1,E2	
HR1,HR2	: Connector
MRM10, MRM20, MRC/W	: 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

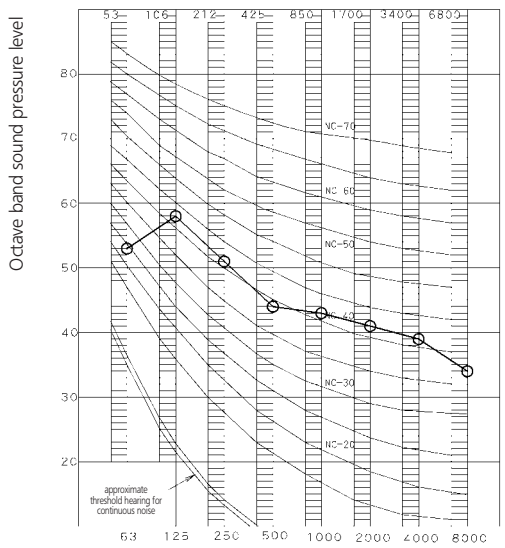
M1C	: Compressor motor
M1F	: Fan motor
L1R	: Reactor
Q1L	: Overload protector
PM1	: Power module
PCB1, 2	: Printed circuit board
Steel metal	: Terminal strip fixed plate

3D052297

8 Sound data

8 - 1 Sound pressure spectrum

RKS50E



4D051713A

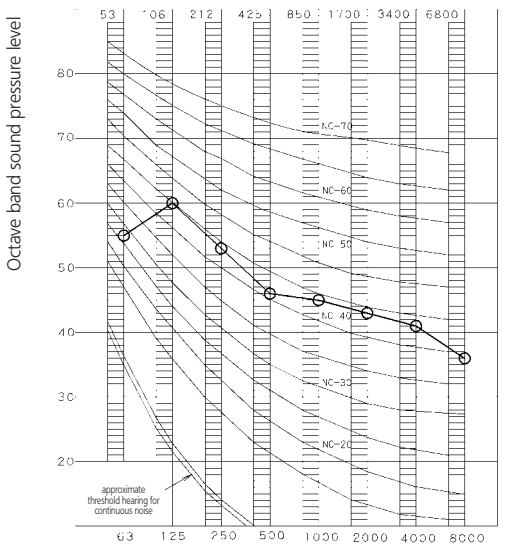
NOTES

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

Legend

50Hz, 220-240V

RKS60E



4D051724

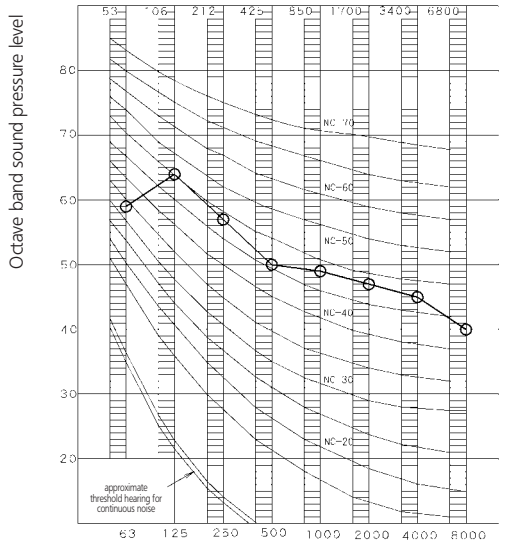
NOTES

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

Legend

50Hz, 220-240V

RKS71E



4D052748

NOTES

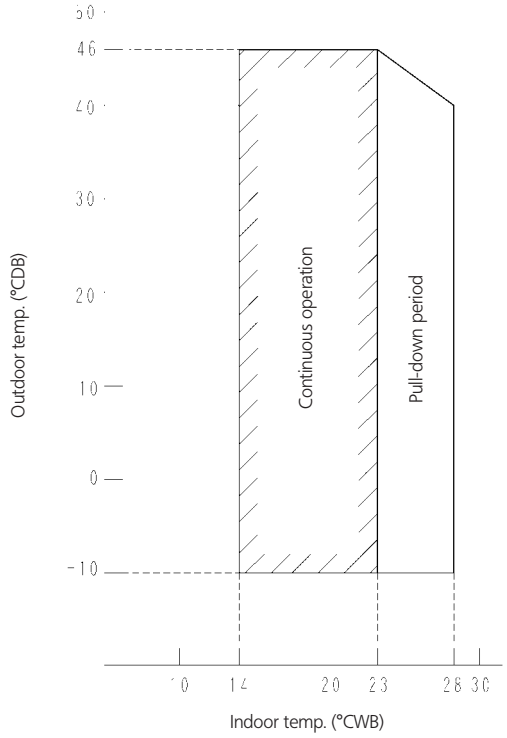
1. Operation sound is measured in an anechoic chamber.
2. Operation sound level differs with operation and ambient conditions.
3. Reference acoustic pressure 0dB = 20Pa

Legend

50Hz, 220-240V

9 Operation range

RKS50,60,71E



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

4D029297L

9 Operation range

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.

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Prepared in Belgium by Lannoo

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