



technical data



RS-B

Pair Application



air conditioning systems

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.



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Specifications are subject to change without prior notice.

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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.



2 Specifications



2

TECHNICAL SPECIFICATIONS								
OUTDOOR UNITS				RS20BVMB	RS25BVMB	RS35BVMB	RS50BVMB	RS60BVMB
DIMENSIONS	Unit	H	mm	560			735	
		W	mm	695			825	
		D	mm	265			300	
WEIGHT		kg	34		37	49	53	
COLOUR	Unit	Ivory white						
SOUND LEVEL	Sound pressure (1)	(cooling) H/L	dB(A)	47*				49*
	Sound power (2)	(cooling) H	dB(A)	60		63	64	
FAN	Air flow rate	(cooling) H/L	m ³ /min	29/*	29/*	27.5/*	47.7/44.1	47.6/44.1
	Speed	(cooling) H/L	rpm	720/*	720/*	710/*	700/650	730/680
	Model	Propeller						
	Motor output	W	25		53			
HEAT EXCHANGER	Type	WL fin, ϕ 8 Hi-XA tube						
	Rows x stages x fin pitch	mm	1 x 24 x 1.5		2 x 24 x 1.5		1 x 32 x 1.6	2 x 32 x 1.8
REFRIGERANT CIRCUIT	Refrigerant type	R-410A						
	Refrigerant charge	kg	0.79		0.96	1.20	1.70	
	Maximum allowable distance between indoor and outdoor	m	15			30		
	Maximum allowable level difference	m	15				20	
COMPRESSOR	Refrigerant control	Motor operated expansion valve						
	Type	Hermetically sealed swing type						
	Model	1YC23KXA#A			2YC32HXD			
	Motor output	W	600		1,500			
	Oil type	FVC50K						
Oil charge volume	ℓ	0.43	0.43	0.43	0.65	0.65		
PIPING CONNECTIONS	liquid	mm	ϕ 6.4					
		mm	ϕ 9.5			ϕ 12.7		
		mm	ϕ 18.0					
INSULATION MATERIAL	Heat insulation	Both liquid and gas pipes						

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

2 Specifications



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ELECTRICAL SPECIFICATIONS				RS20BVMB	RS25BVMB	RS35BVMB	RS50BVMB	RS60BVMB
OUTDOOR UNITS								
CURRENT	Nominal running current	cooling	A	3.22	4.32	5.82	7.12	9.12
	Max. running current	cooling	A	Please refer to electrical data				
	Starting current	cooling	A	3.4	4.5	6.0	7.3	9.3
POWER SUPPLY				VM	VM	VM	VM	VM
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	1~	1~
	Frequency			Hz	50	50	50	50
	Voltage			V	230	230	230	230

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

RS+FTS20B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTS20BVMB	RS20BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	13.0	15	38	2.91	25	0.35	18	0.20

3D040467

RS+FTS25B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTS25BVMB	RS25BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	13.0	15	52	4.01	25	0.35	18	0.20

3D040468

RS+FTS35B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTS35BVMB	RS35BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	13.0	15	71	5.51	25	0.35	18	0.20

3D040469

RS+FTS50B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTS50BVMB	RS50BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	72	6.92	53	0.18	40	0.16

3D040875

RS+FTS60B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTS60BVMB	RS60BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	72	6.92	53	0.24	43	0.16

3D040875

RS+FKS50B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FKS50BVMB	RS50BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	76	7.04	53	0.18	14+14	0.31

3D040875

RS+FLK50B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FLK50BVMB	RS50BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	75	7.00	53	0.18	34	0.54

3D040875

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.

2 Specifications



2

ELECTRICAL DATA

RS+FCQ50,60B

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

RS+FFQ50B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FFQ	RS	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	72	7.43	53	0.18	55	0.7

3D041020

RS+FFQ60B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FFQ	RS	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	85	8.45	53	0.24	55	0.7

3D041020

RS+FBQ50,60B

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

RS+FHQ50B

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

3D040602

RS+FHQ60B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FHQ	RS	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	79	7.5	53	0.18	62	0.6

3D040605

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.

3 Capacity tables



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RS+FTS20B

AFR	7.5
BF	0.30

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	1.86	1.36	0.52	1.80	1.31	0.58	1.74	1.27	0.64	1.71	1.25	0.65	1.67	1.22	0.66	1.60	1.17	0.71
16.0	22	2.01	1.47	0.53	1.95	1.42	0.59	1.88	1.37	0.65	1.85	1.35	0.66	1.80	1.31	0.67	1.72	1.26	0.73
18.0	25	2.16	1.58	0.53	2.09	1.53	0.60	2.02	1.47	0.66	1.98	1.45	0.67	1.93	1.41	0.68	1.85	1.35	0.74
19.0	27	2.24	1.63	0.54	2.16	1.58	0.60	2.09	1.52	0.66	2.05	1.50	0.67	2.00	1.46	0.69	1.92	1.40	0.75
22.0	30	2.47	1.80	0.56	2.39	1.74	0.62	2.31	1.68	0.68	2.27	1.66	0.69	2.21	1.61	0.71	2.12	1.55	0.77
24.0	32	2.63	1.92	0.57	2.54	1.85	0.63	2.45	1.79	0.70	2.41	1.76	0.71	2.35	1.72	0.72	2.25	1.64	0.78

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RS+FTS25B

AFR	7.8
BF	0.30

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	2.33	1.55	0.67	2.25	1.49	0.74	2.17	1.44	0.82	2.14	1.42	0.83	2.08	1.38	0.85	2.00	1.32	0.92
16.0	22	2.51	1.67	0.68	2.43	1.61	0.76	2.35	1.56	0.83	2.31	1.53	0.85	2.25	1.49	0.87	2.16	1.43	0.94
18.0	25	2.70	1.79	0.69	2.61	1.73	0.77	2.52	1.67	0.85	2.48	1.65	0.86	2.42	1.60	0.88	2.32	1.54	0.95
19.0	27	2.80	1.85	0.70	2.70	1.79	0.78	2.61	1.73	0.86	2.57	1.70	0.87	2.50	1.66	0.89	2.40	1.59	0.96
22.0	30	3.09	2.05	0.72	2.99	1.98	0.80	2.88	1.91	0.88	2.84	1.88	0.90	2.76	1.83	0.92	2.65	1.76	0.99
24.0	32	3.28	2.18	0.73	3.18	2.11	0.81	3.07	2.04	0.90	3.02	2.00	0.91	2.94	1.95	0.93	2.81	1.87	1.01

3D040462

RS+FTS35B

AFR	8
BF	0.17

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	3.21	2.19	0.77	3.06	2.12	0.87	2.91	2.05	0.96	2.85	2.02	1.00	2.76	1.98	1.06	2.61	1.91	1.15
16.0	22	3.37	2.22	0.80	3.22	2.15	0.89	3.07	2.08	0.99	3.01	2.06	1.02	2.92	2.01	1.08	2.77	1.94	1.18
18.0	25	3.52	2.26	0.82	3.37	2.19	0.92	3.22	2.12	1.01	3.16	2.09	1.05	3.07	2.05	1.11	2.92	1.98	1.20
19.0	27	3.60	2.27	0.84	3.45	2.20	0.93	3.30	2.13	1.03	3.24	2.11	1.06	3.15	2.06	1.12	3.00	1.99	1.22
22.0	30	3.83	2.33	0.87	3.68	2.26	0.97	3.53	2.19	1.06	3.47	2.16	1.10	3.38	2.12	1.16	3.23	2.05	1.25
24.0	32	3.99	2.36	0.90	3.84	2.29	1.00	3.69	2.22	1.09	3.63	2.19	1.13	3.54	2.15	1.19	3.39	2.08	1.28

3D040463

RS+FTS50B

AFR	11.5
BF	0.23

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.06	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

3D040899

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

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal cooling capacities and power input
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- SHC is based on each EWB and EDB
 SHC* = SHC correction for other dry bulb
 SHC* = 0.02 x AFR (m³/min) x (1-BF) x (DB-EDB)
 Add SHC* to SHC.
- Capacities are based on the following conditions:
 Corresponding refrigerant piping length: 7.5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

3 Capacity tables



3 RS+FTS60B

AFR	16.4
BF	0.30

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	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

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RS+FLKS50B

AFR	11.4
BF	0.18

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	4.96	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

3D040900

RS+FKS50B

AFR	10.8
BF	0.23

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	4.86	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

3D040901

RS+FCQ50B

AFR	18
BF	0.10

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	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

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	(kW)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal cooling capacities and power input
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- SHC is based on each EWB and EDB
 SHC* = SHC correction for other dry bulb
 SHC* = 0.02 x AFR (m³/min) x (1-BF) x (DB-EDB)
 Add SHC* to SHC.
- Capacities are based on the following conditions:
 Corresponding refrigerant piping length: 7.5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

3 Capacity tables



RS+FCQ60B

AFR	18
BF	0.10

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	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

RS+FFQ50B

AFR	12.0
BF	0.16

Cooling capacity

230V [50Hz]

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

3D041021

RS+FFQ60B

AFR	15.0
BF	0.11

Cooling capacity

230V [50Hz]

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

3D041026

RS+FBQ25B

AFR	11.5
BF	0.15

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	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

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	(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 (m³/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 tabulated above.

3 Capacity tables



3 RS+FBQ35B

AFR	11.5
BF	0.15

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	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

3TW25112-1

RS+FHQ50B

AFR	13
BF	0.1

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.06	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

3D040602

RS+FHQ60B

AFR	17
BF	0.2

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.76	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

3D040605

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)

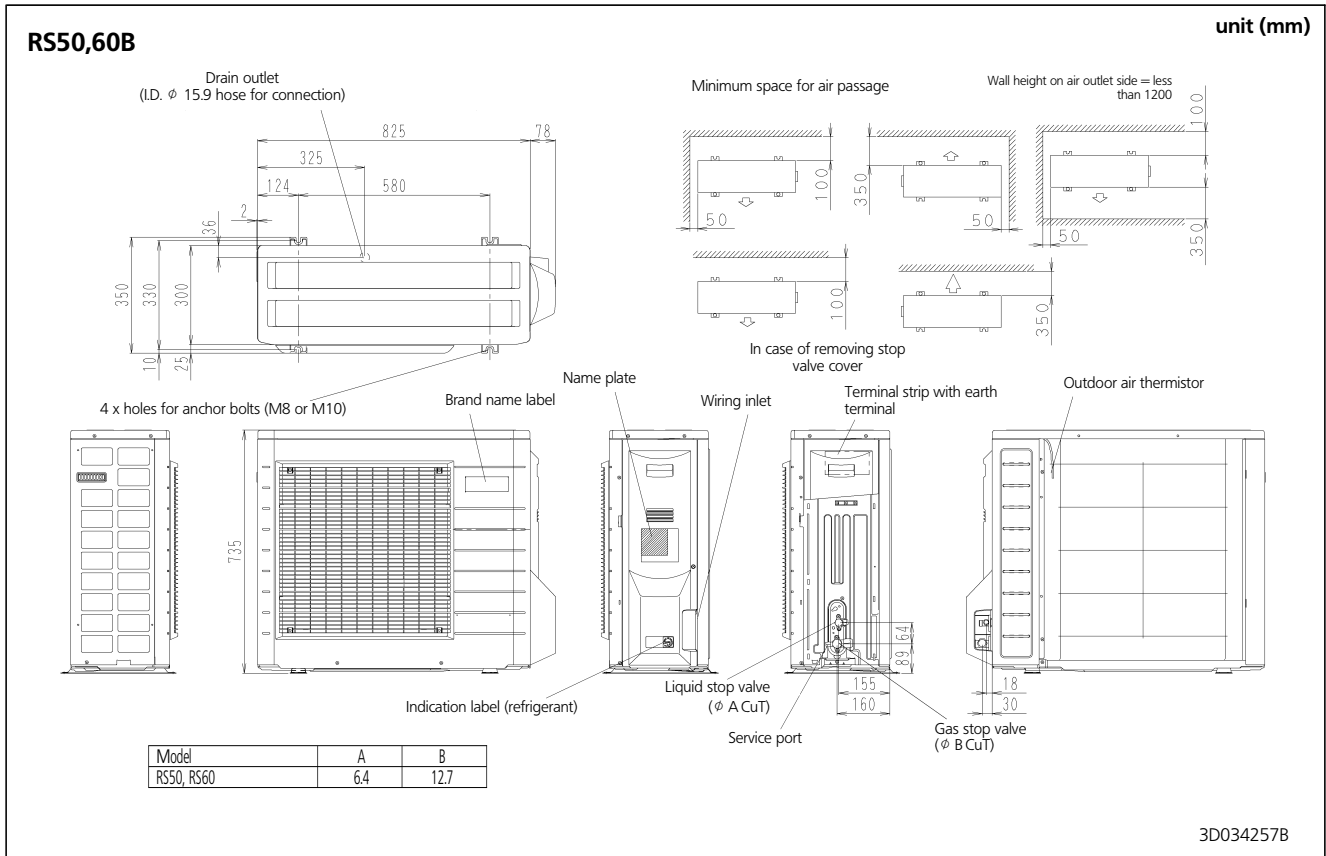
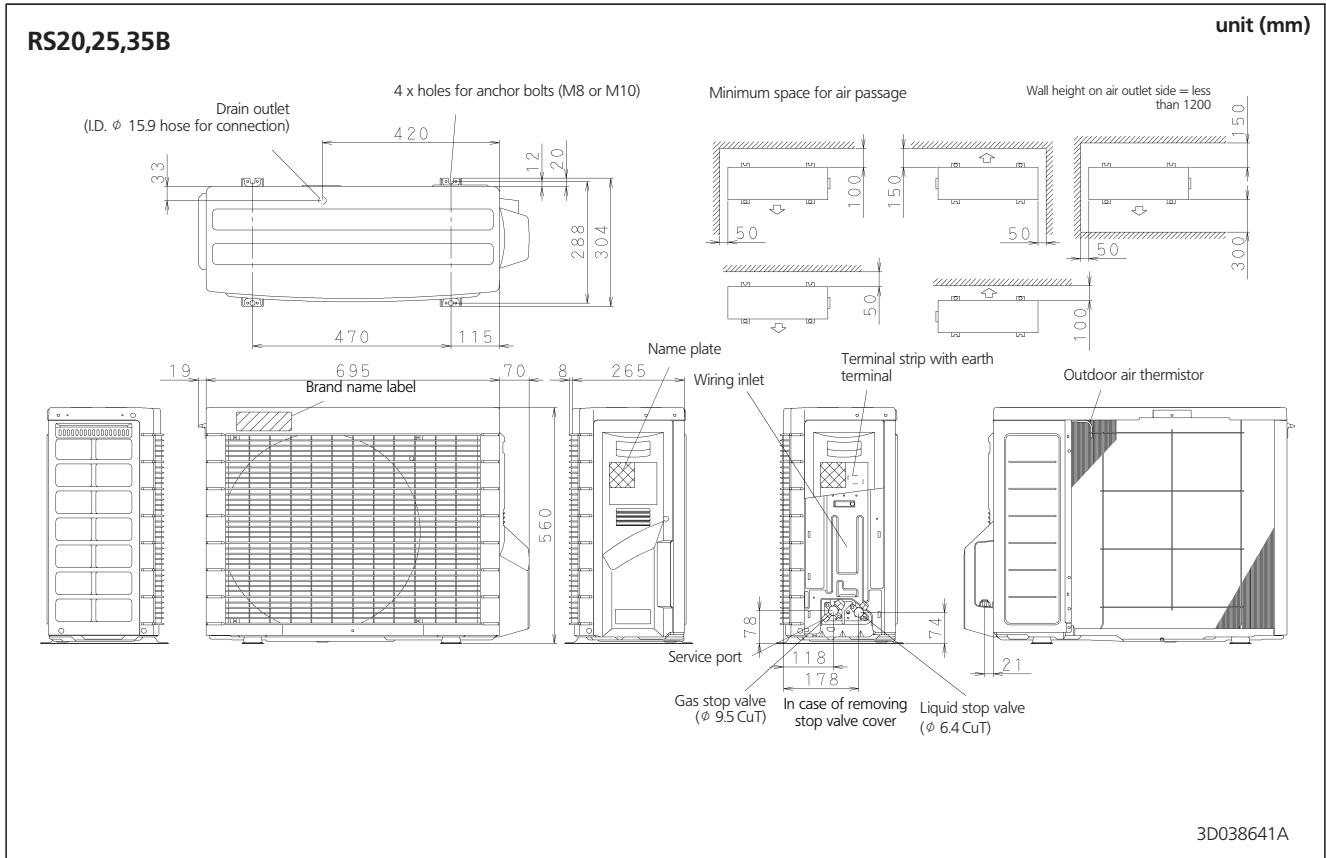
NOTES

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

4 Dimensional drawings



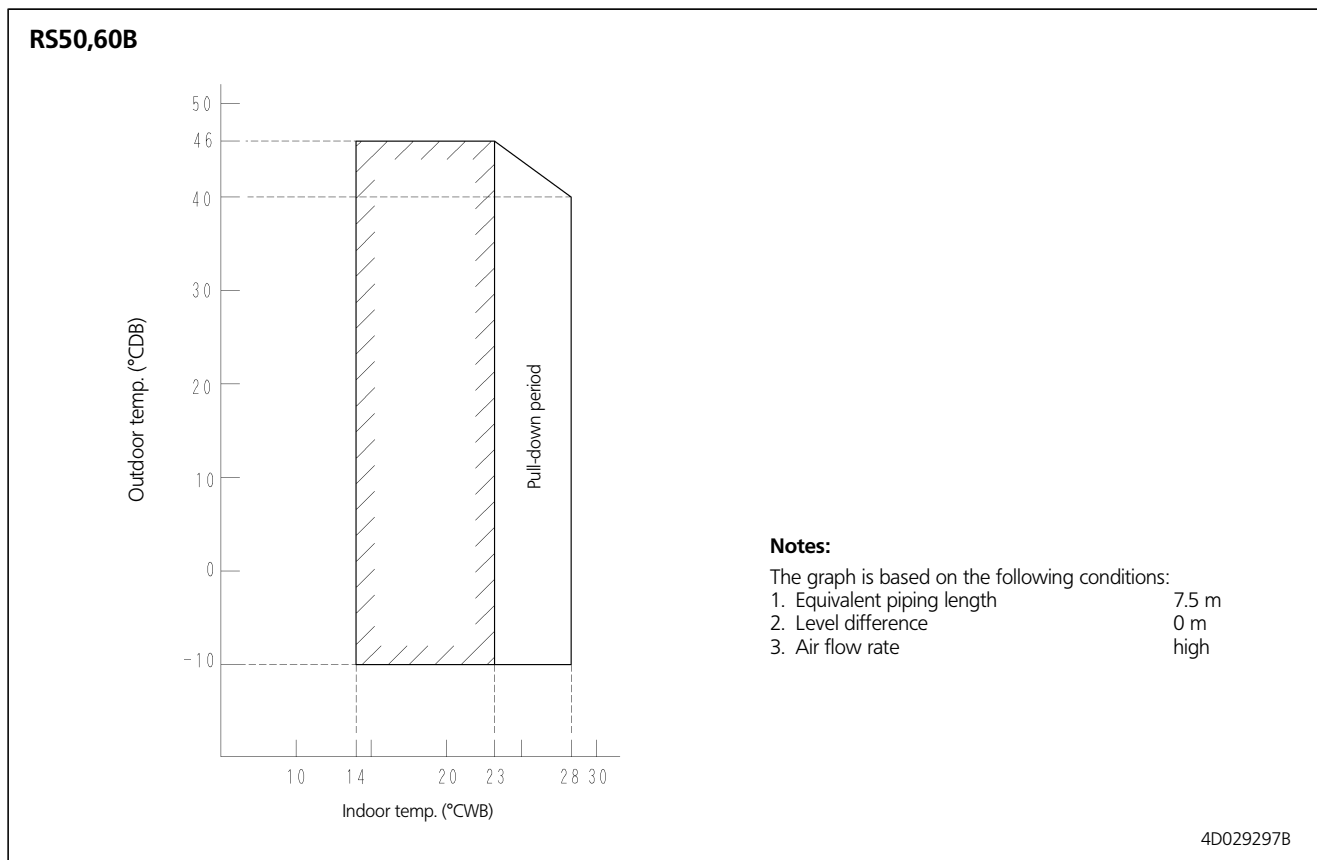
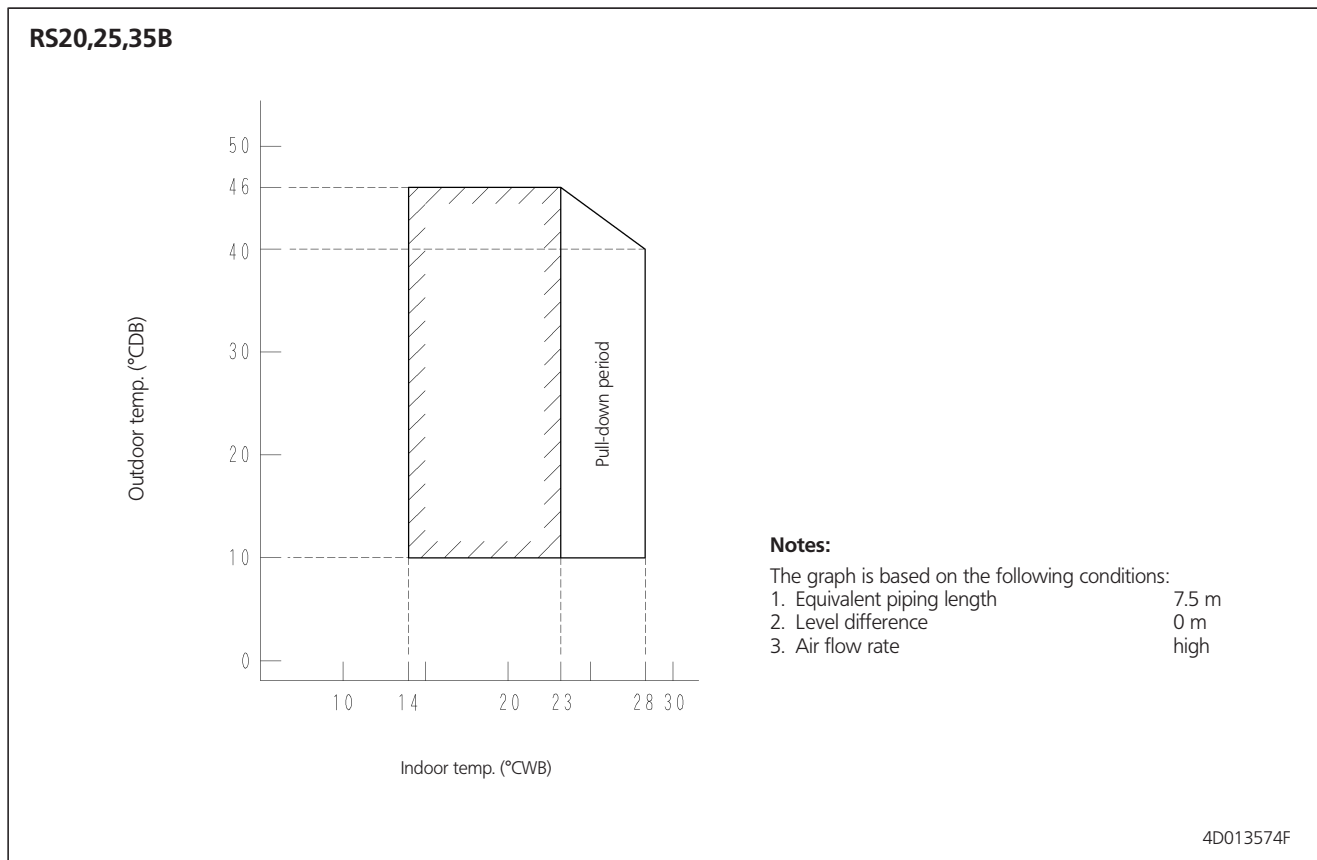
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5 Operation range



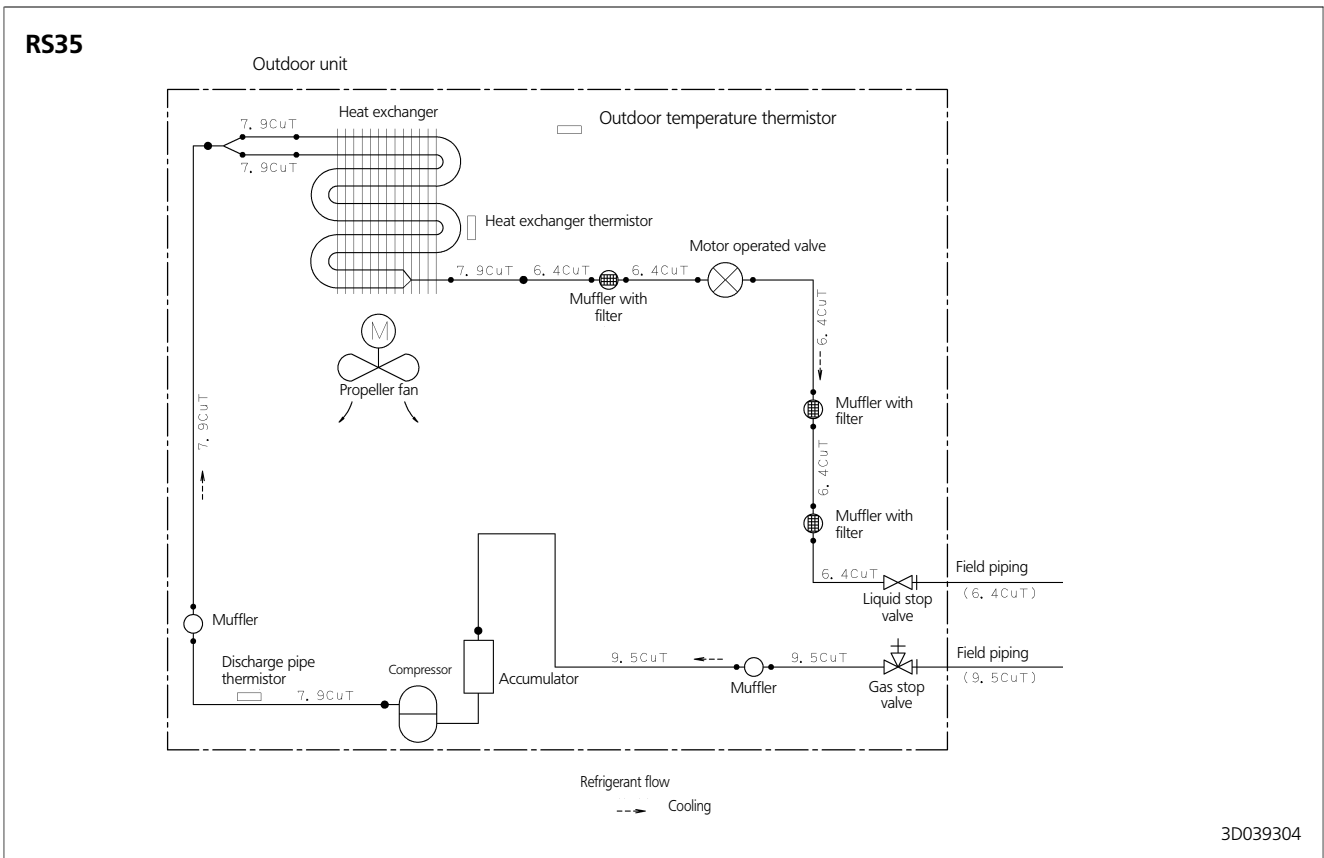
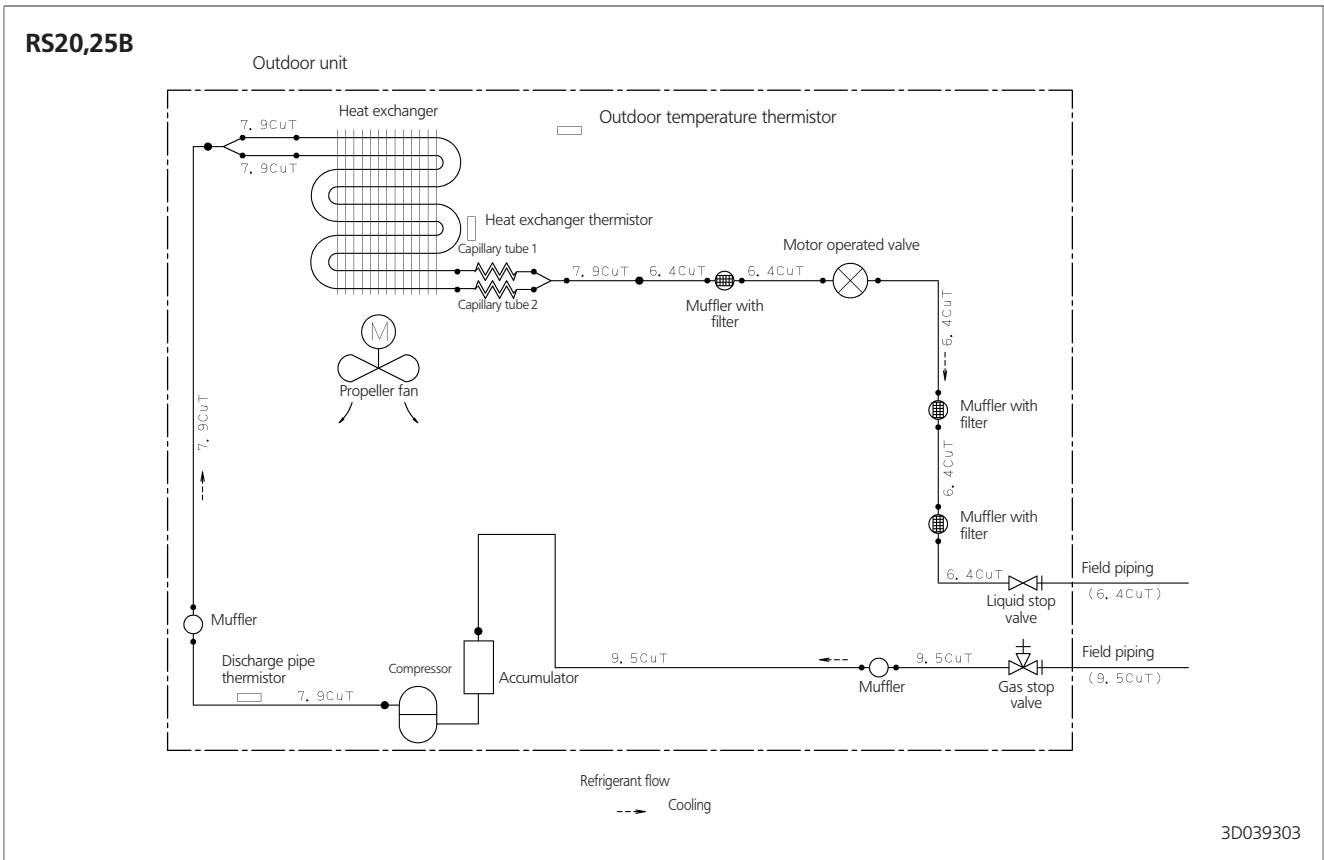
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6 Piping diagrams



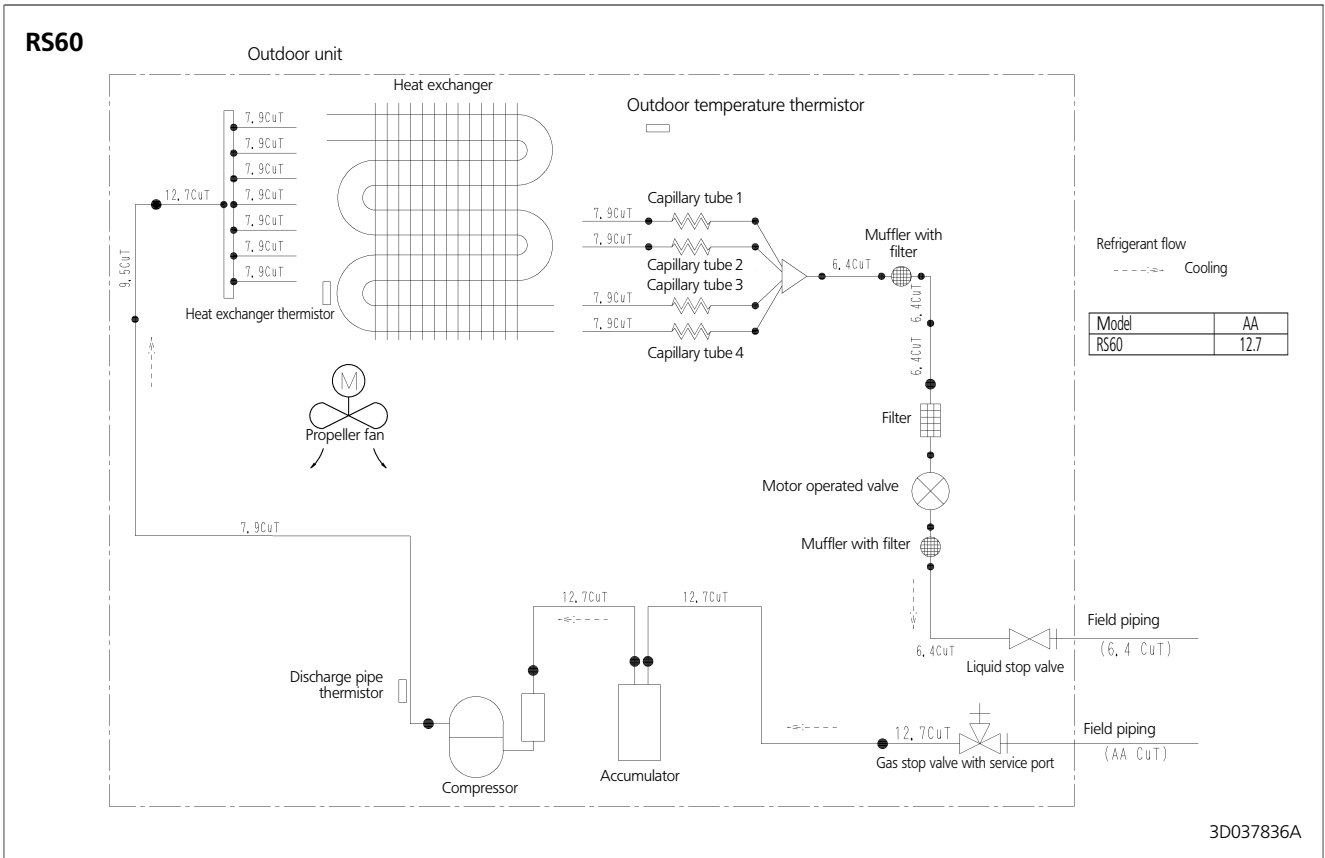
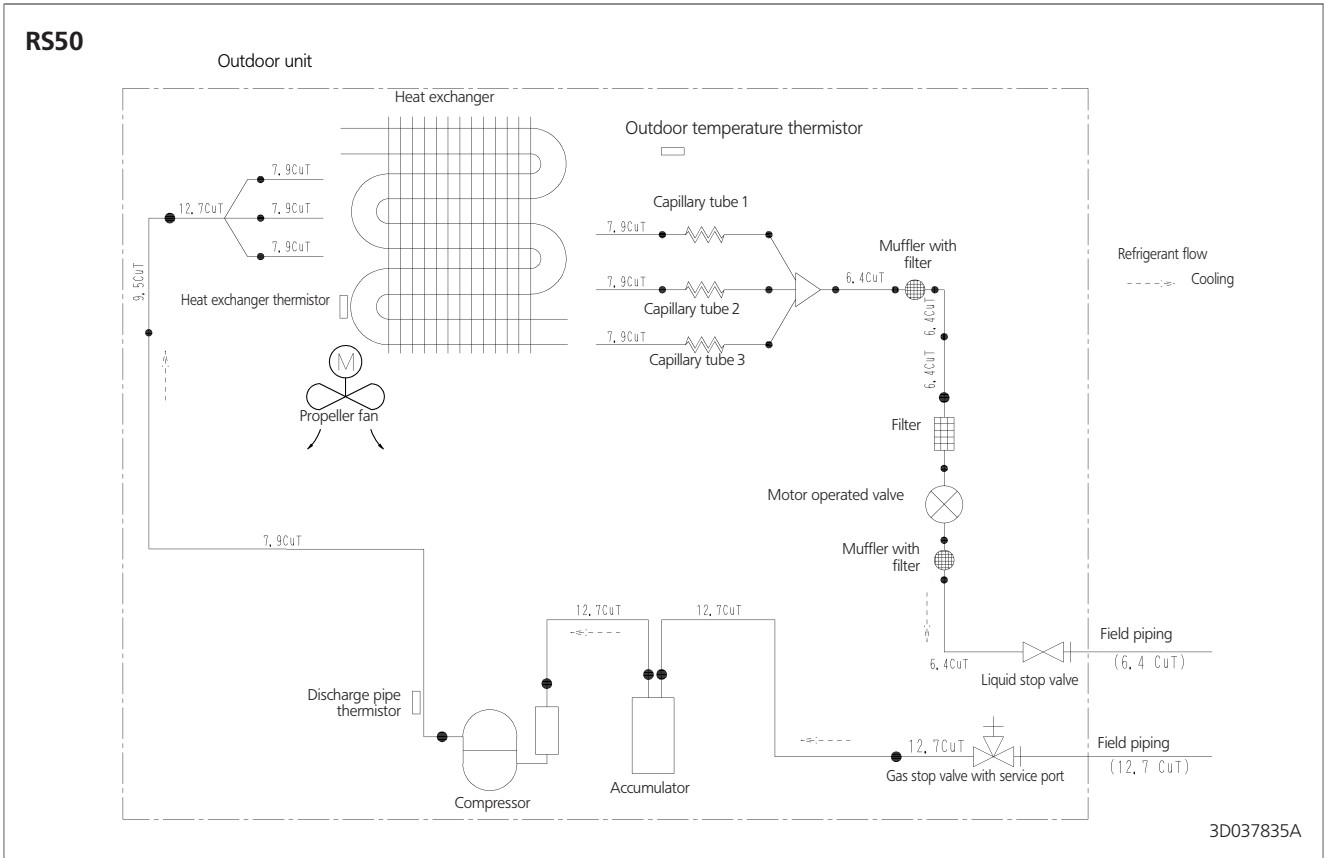
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6 Piping diagrams



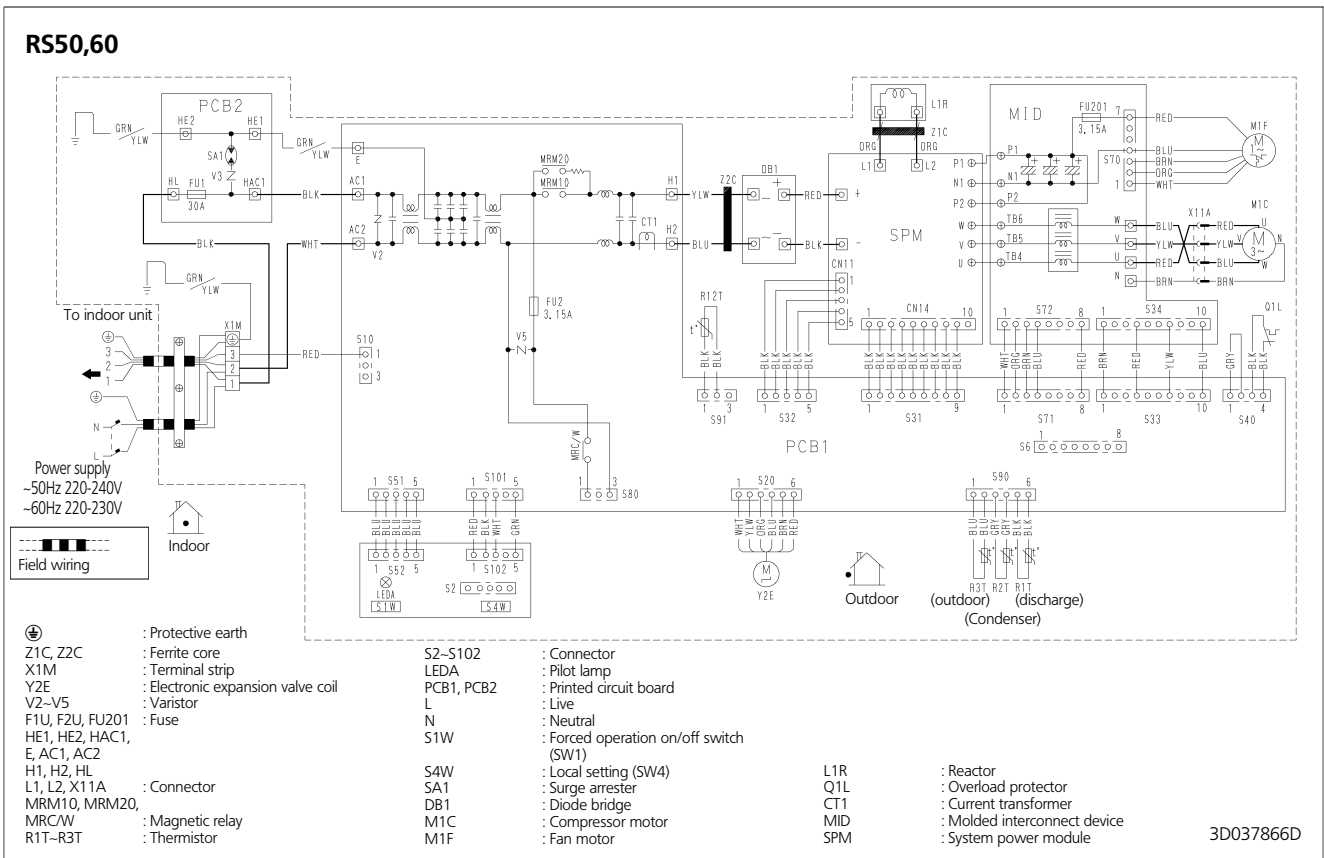
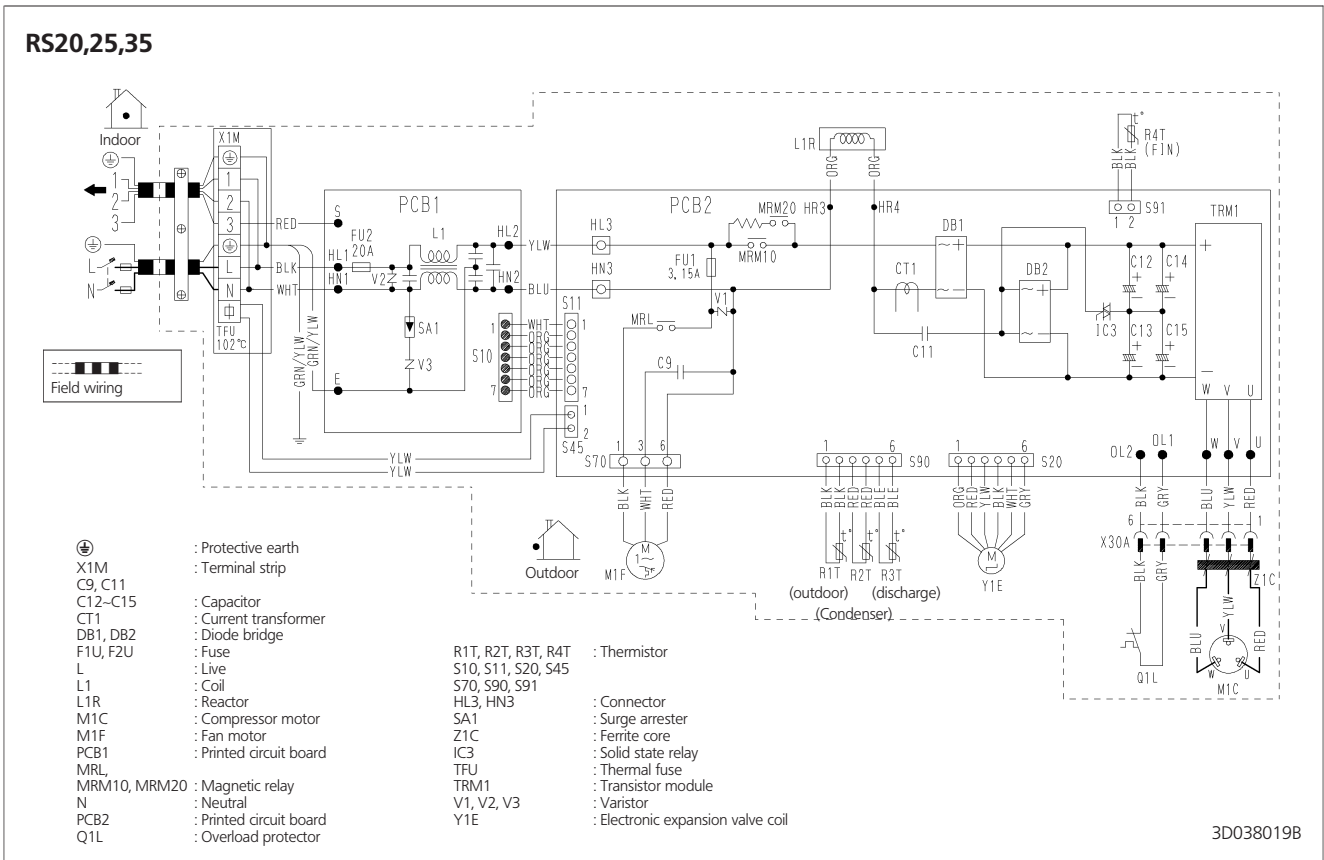
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7 Wiring diagrams



7



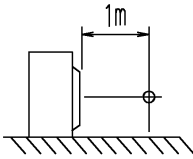


8 Sound level

8-1 Sound level data

8 Cooling only

8-1

Model	Sound pressure level		Measuring location 	Sound power level (cooling)
	230V, 50Hz			
	Cooling			
	H			
RS20B	47		60	
RS25B	47		60	
RS35B	47		60	
RS50B	47		63	
RS60B	49		64	

8 Sound level

8-2 Sound pressure spectrum

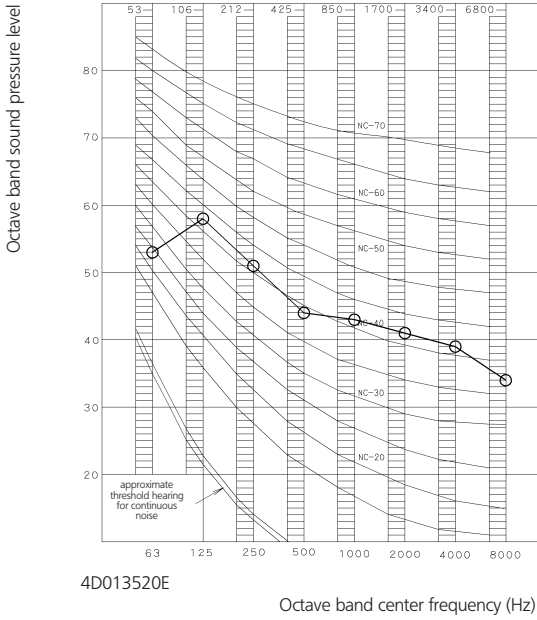


Cooling only

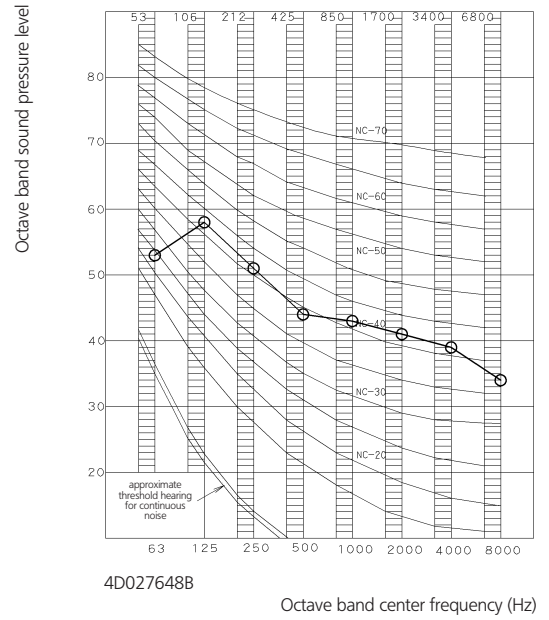
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8-2

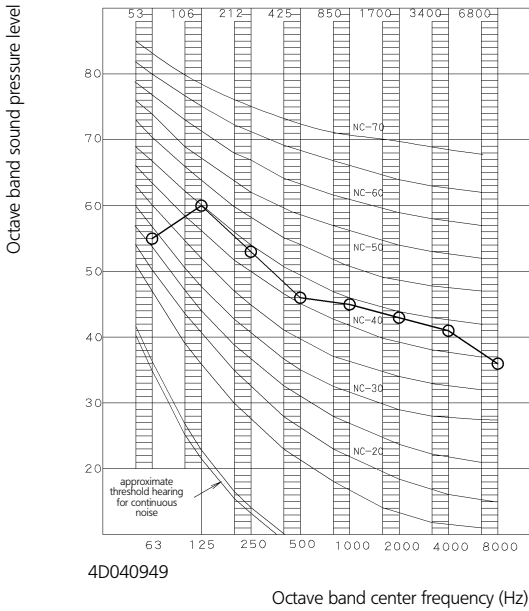
RS20,25,35B



RS50B



RS60B



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

9

RS-B

9-1

Accessories supplied with the outdoor unit:	
Installation manual	1

9-2 Optional accessories

RS-B

	RS20BVMB	RS25BVMB	RS35BVMB	RS50BVMB	RS60BVMB
Air direction adjustment grille	KPW937A4		KPW945A4		

10 Installation

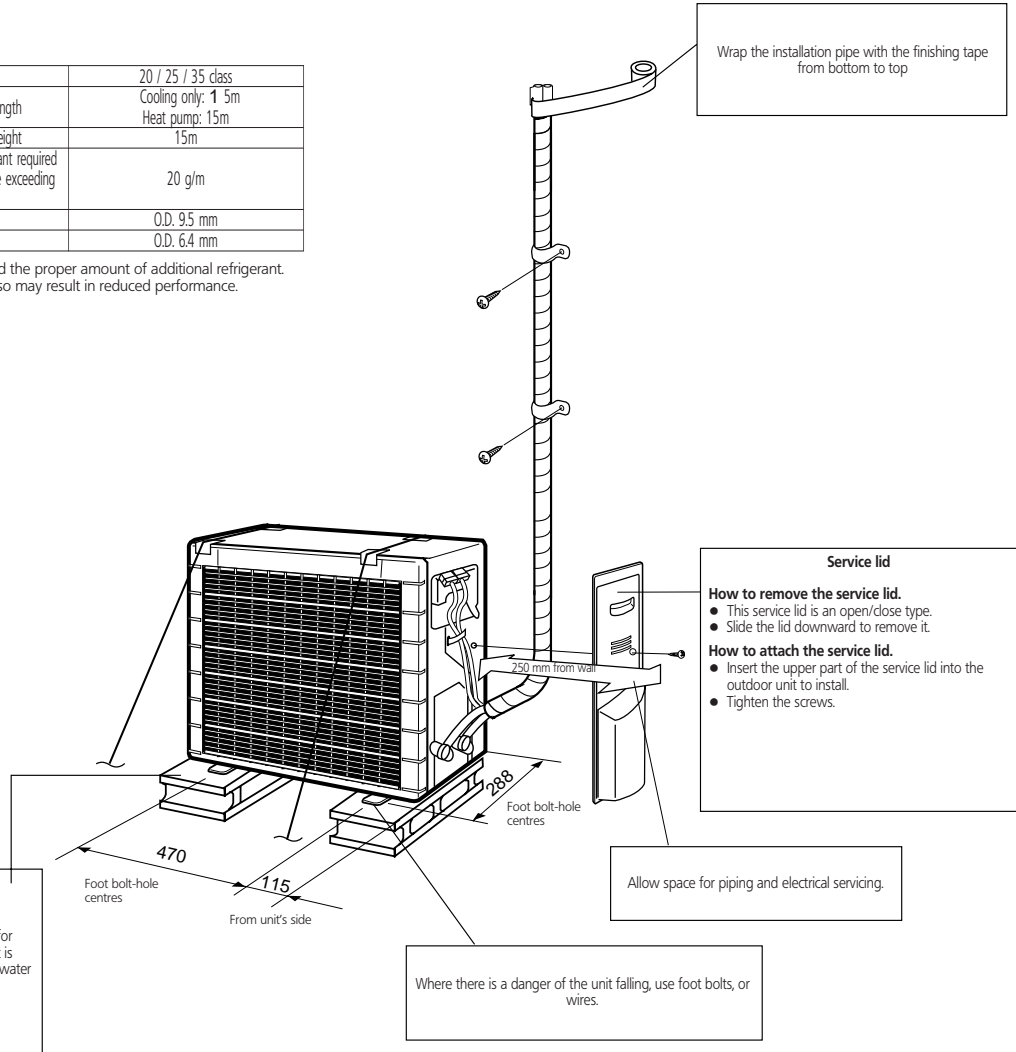


RS20,25,35B

Outdoor unit installation drawings

Model	20 / 25 / 35 class
Max. allowable length	Cooling only: 1.5m Heat pump: 15m
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.



Wrap the installation pipe with the finishing tape from bottom to top

Service lid

How to remove the service lid.

- This service lid is an open/close type.
- Slide the lid downward to remove it.

How to attach the service lid.

- Insert the upper part of the service lid into the outdoor unit to install.
- Tighten the screws.

In sites with poor drainage, use block bases for outdoor unit. Adjust foot height until the unit is leveled. Otherwise, water leakage or pooling of water may occur.

Allow space for piping and electrical servicing.

Where there is a danger of the unit falling, use foot bolts, or wires.

10 Installation



10

RS50,60B

Outdoor unit installation drawings

Model	50 class	60 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	
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.

In sites with poor drainage, use block bases for outdoor unit. Adjust foot height until the unit is leveled. Otherwise, water leakage or pooling of water may occur.

