



technical data

RYS-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.



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



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

Specifications are subject to change without prior notice.

DAIKIN EUROPE N.V.

Zandvoordestraat 300
B - 8400 Ostend Belgium
Internet: <http://www.daikineurope.com>

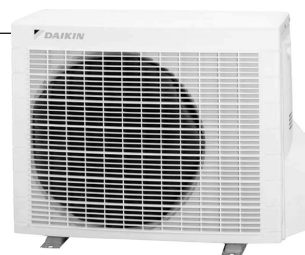


TABLE OF CONTENTS

RYS-B

1	Features	2
2	Specifications	3
	Technical specifications	
	Electrical specifications	
	Electrical data	
3	Capacity tables	6
4	Dimensional drawings	9
5	Operation range	10
6	Piping diagrams	11
7	Wiring diagrams	13
8	Sound level	14
	Sound level data	
	Sound pressure spectrum	
9	Accessories	16
	Standard accessories	
	Optional accessories	
10	Installation	17



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

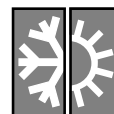


2

TECHNICAL SPECIFICATIONS								
OUTDOOR UNITS				RYS20BVMB	RYS25BVMB	RYS35BVMB	RYS50BVMB	RYS60BVMB
DIMENSIONS	Unit	H	mm	560			735	
		W	mm	695			825	
		D	mm	265			300	
WEIGHT	Unit		kg	34		37	49	53
COLOUR	Unit	Ivory white						
SOUND LEVEL	Sound pressure (1)	(cooling) H/L	dB(A)	47/*				49/*
		(heating) H/L	dB(A)	48/*				49/*
	Sound power (2)	(cool/heat) H	dB(A)	60/*			63/64	64/64
FAN	Air flow rate	(cooling) H/L	m ³ /min	29/*	29/*	27.5/*	47.7/44.1	47.6/44.1
		(heating) H/L	m ³ /min	25.5/*	25.5/*	23.5/*	44.1/44.1	45.5/45.5
	Speed	(cooling) H/L	rpm	720/*	720/*	710/*	700/650	730/680
		(heating) H/L	rpm	690/*	690/*	690/*	650/650	700/700
	Model	KFD-380-53-8C						
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	
	Refrigerant control	Motor operated expansion valve						
COMPRESSOR	Type	Hermetically sealed swing type						
	Model	1YC23KXA#A			2YC32HXD			
	Motor output	600			1,500			
	Oil type	FVC50K						
	Oil charge volume	ℓ	0.43	0.43	0.43	0.65	0.65	
PIPING CONNECTIONS		liquid	mm	φ6.4				
		gas	mm	φ9.5			φ12.7	
		drain	mm	φ18.0				
INSULATION MATERIAL	Heat insulation	Both liquid and gas pipes						

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

2 Specifications



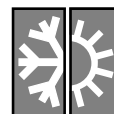
2

ELECTRICAL SPECIFICATIONS								
OUTDOOR UNITS				RYS20BVMB	RYS25BVMB	RYS35BVMB	RYS50BVMB	RYS60BVMB
CURRENT	Nominal running current	cooling/heating	A	3.22/3.92	4.32/4.82	5.82/6.72	7.12/7.32	9.12/9.02
	Max. running current	cooling/heating	A	Please refer to electrical data				
	Starting current	cooling/heating	A	4.1	5.0	6.9	7.5	9.3
OUTDOOR UNITS				RYS20BVMB	RYS25BVMB	RYS35BVMB	RYS50BVMB	RYS60BVMB
POWER SUPPLY				VM	VM	VM	VM	VM
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	1~	1~
	Frequency		Hz	50	50	50	50	50
	Voltage		V	230	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

RYS+FTYS20B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTYS20BVMB	RYS20BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	13.0	15	38	2.91	25	0.35	18	0.20

3D040467

RYS+FTYS25B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTYS25BVMB	RYS25BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	13.0	15	52	4.01	25	0.35	18	0.20

3D040468

RYS+FTYS35B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTYS35BVMB	RYS35BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	13.0	15	71	5.51	25	0.35	18	0.20

3D040469

RYS+FTYS50B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTYS50BVMB	RYS50BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	72	6.92	53	0.18	40	0.16

3D040875

RYS+FTYS60B

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTYS60BVMB	RYS60BVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	18	20	72	8.86	53	0.24	43	0.16

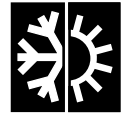
3D040875

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.



3 Capacity tables

3 RYS+FTYS20B

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

Heating capacity

230V [50Hz]

AFR	7.6
-----	-----

Indoor		Outdoor temperature (°CWB)									
EDB (°C)	TC	-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	1.49	0.59	1.85	0.64	2.20	0.69	2.63	0.75	2.91	0.79	
18.0	1.48	0.62	1.83	0.67	2.19	0.72	2.61	0.78	2.90	0.82	
20.0	1.46	0.64	1.82	0.69	2.17	0.74	2.60	0.81	2.88	0.85	
21.0	1.46	0.66	1.81	0.71	2.17	0.76	2.59	0.82	2.88	0.86	
22.0	1.45	0.67	1.81	0.72	2.16	0.77	2.59	0.83	2.87	0.87	
24.0	1.44	0.70	1.79	0.75	2.15	0.80	2.57	0.86	2.86	0.90	

3D040464

RYS+FTYS25B

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	0.91
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

Heating capacity

230V [50Hz]

AFR	7.9
-----	-----

Indoor		Outdoor temperature (°CWB)									
EDB (°C)	TC	-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	1.89	0.75	2.34	0.81	2.79	0.87	3.33	0.95	3.69	1.00	
18.0	1.88	0.78	2.33	0.85	2.78	0.91	3.32	0.99	3.68	1.04	
20.0	1.86	0.82	2.31	0.88	2.76	0.95	3.30	1.03	3.66	1.08	
21.0	1.85	0.84	2.30	0.90	2.75	0.97	3.29	1.04	3.65	1.09	
22.0	1.84	0.86	2.29	0.92	2.74	0.99	3.28	1.06	3.64	1.11	
24.0	1.83	0.89	2.28	0.96	2.73	1.02	3.27	1.10	3.63	1.15	

3D040465

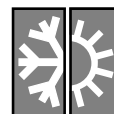
SYMBOLS

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
 $SHC^* = SHC \text{ correction for other dry bulb}$
 $SHC^* = 0.02 \times AFR (m^3/min) \times (1-BF) \times (DB-EDB)$
 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.

3 Capacity tables



RYS+FTYS35B

AFR	8
BF	0.17

3

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

Heating capacity

230V [50Hz]

AFR	7.9
-----	-----

Indoor		Outdoor temperature (°CWB)									
EDB (°C)	TC	-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	2.35	0.98	2.91	1.06	3.47	1.15	4.14	1.25	4.59	1.32	
18.0	2.33	1.03	2.89	1.11	3.45	1.20	4.12	1.30	4.57	1.36	
20.0	2.31	1.08	2.87	1.16	3.43	1.24	4.10	1.35	4.55	1.41	
21.0	2.30	1.10	2.86	1.18	3.42	1.27	4.09	1.37	4.54	1.44	
22.0	2.29	1.12	2.85	1.21	3.41	1.29	4.08	1.39	4.53	1.46	
24.0	2.27	1.17	2.83	1.26	3.39	1.34	4.06	1.44	4.51	1.51	

3D040466

RYS+FTYS50B

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

Heating capacity

230V [50Hz]

AFR	12.2
-----	------

Indoor		Outdoor temperature (°CWB)											
EDB (°C)	TC	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	2.91	1.22	3.61	1.31	4.31	1.39	5.02	1.48	5.86	1.58	6.42	1.65	
18.0	2.88	1.28	3.58	1.37	4.29	1.45	4.99	1.54	5.83	1.64	6.39	1.71	
20.0	2.85	1.34	3.55	1.43	4.26	1.51	4.96	1.60	5.80	1.70	6.36	1.77	
21.0	2.84	1.37	3.54	1.46	4.24	1.54	4.94	1.63	5.79	1.73	6.35	1.80	
22.0	2.82	1.40	3.53	1.49	4.23	1.57	4.93	1.66	5.77	1.76	6.33	1.83	
24.0	2.79	1.47	3.50	1.55	4.20	1.64	4.90	1.72	5.74	1.82	6.30	1.89	

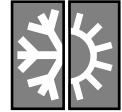
3D040897

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
 $SHC^* = SHC \text{ correction for other dry bulb}$
 $SHC^* = 0.02 \times AFR (m^3/min) \times (1-BF) \times (DB-EDB)$
 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.



3 Capacity tables

3 RYS+FTYS60B

AFR	16.4
BF	0.29

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

Heating capacity

230V [50Hz]

AFR	17.5
-----	------

Indoor		Outdoor temperature (°CWB)											
EDB (°C)		-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0		3.51	1.50	4.36	1.61	5.21	1.71	6.05	1.81	7.07	1.94	7.75	2.02
18.0		3.48	1.58	4.32	1.68	5.17	1.78	6.02	1.89	7.04	2.01	7.71	2.10
20.0		3.44	1.65	4.29	1.76	5.14	1.86	5.98	1.96	7.00	2.09	7.68	2.17
21.0		3.43	1.69	4.27	1.79	5.12	1.90	5.97	2.00	6.98	2.13	7.66	2.21
22.0		3.41	1.73	4.25	1.83	5.10	1.94	5.95	2.04	6.97	2.17	7.64	2.25
24.0		3.37	1.80	4.22	1.91	5.07	2.01	5.91	2.12	6.93	2.24	7.61	2.32

3D040898

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)

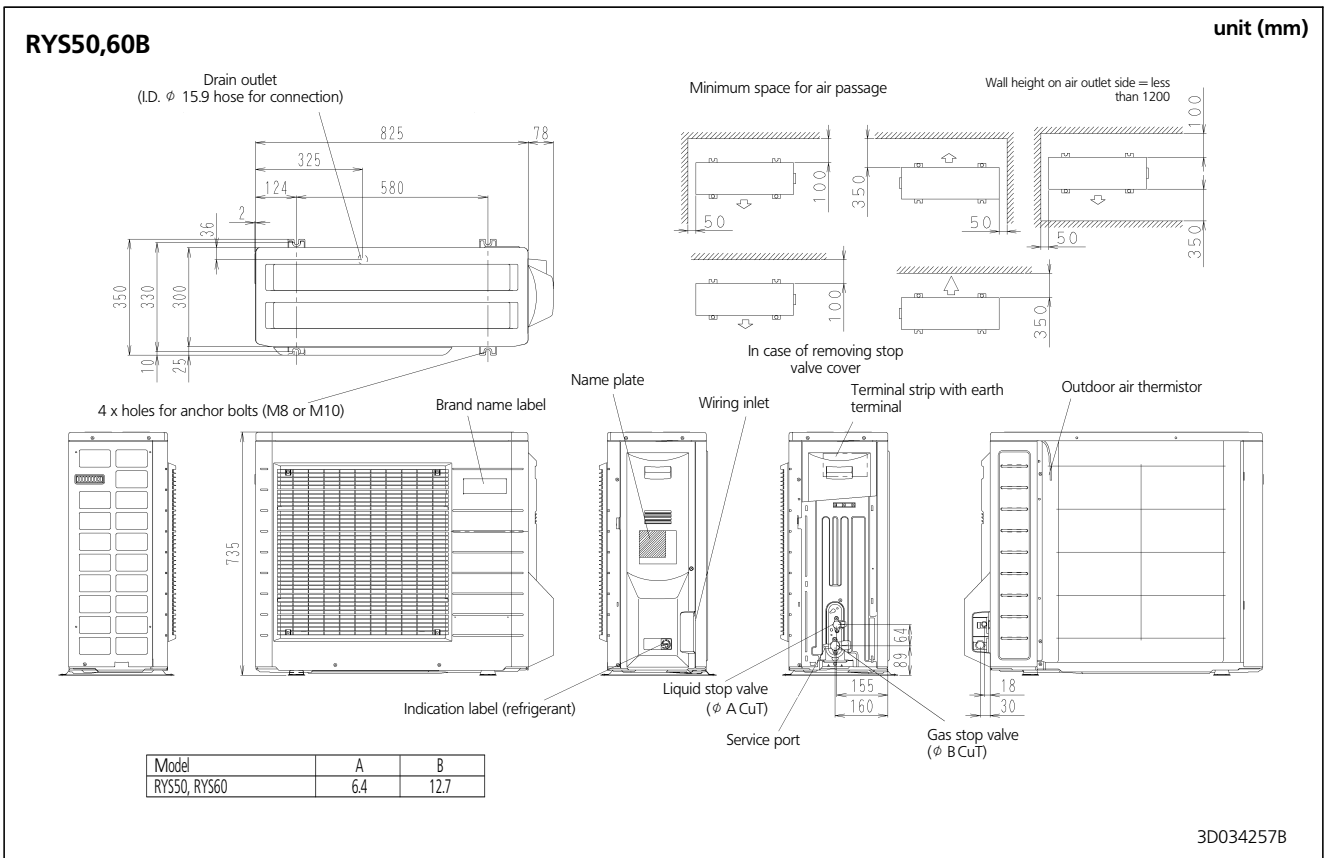
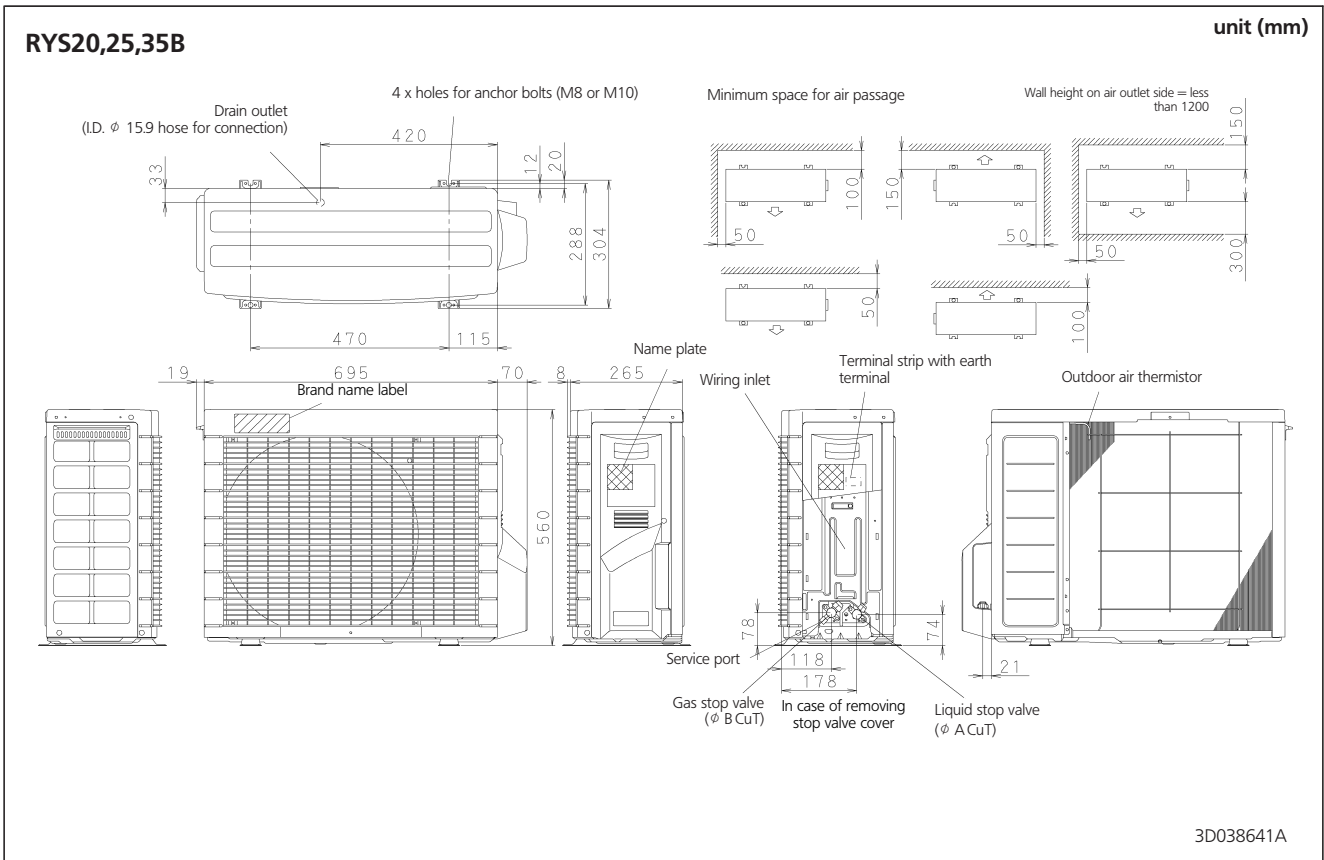
NOTES

- 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



4

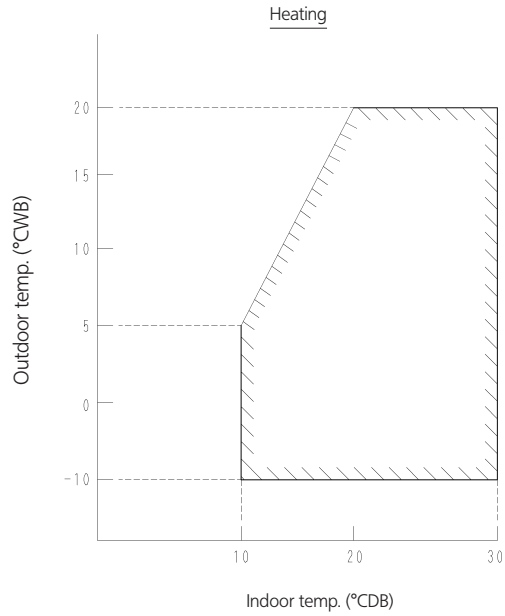
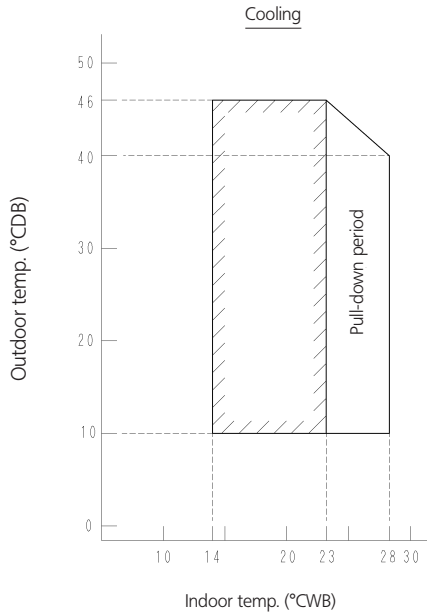


5 Operation range



5

RYS20,25,35B



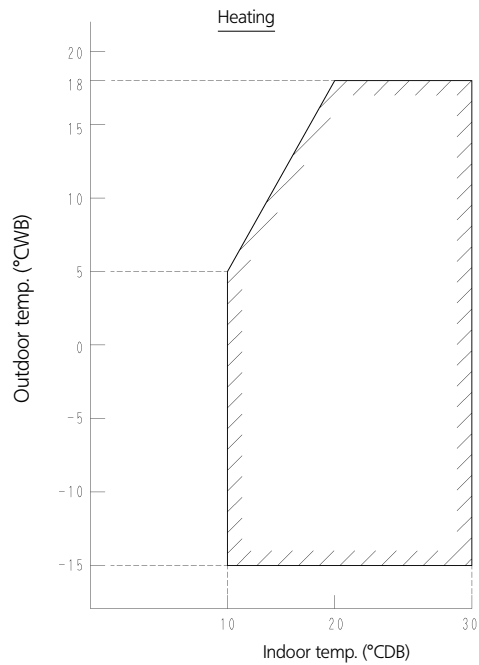
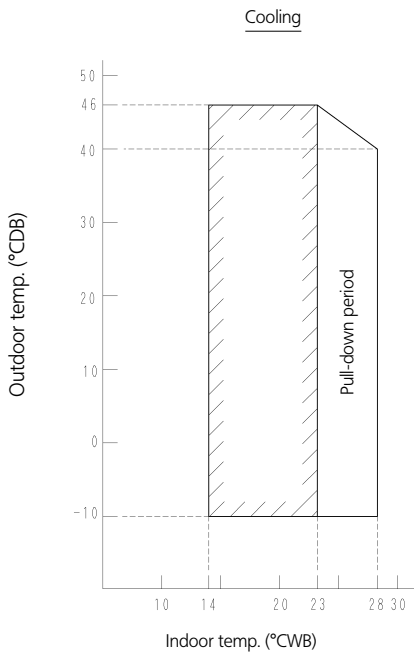
Notes:

The graphs are based on the following conditions:

- Equivalent piping length 7.5 m
- Level difference 0 m
- Air flow rate high

3D039535

RYS50,60B



Notes:

The graphs are based on the following conditions:

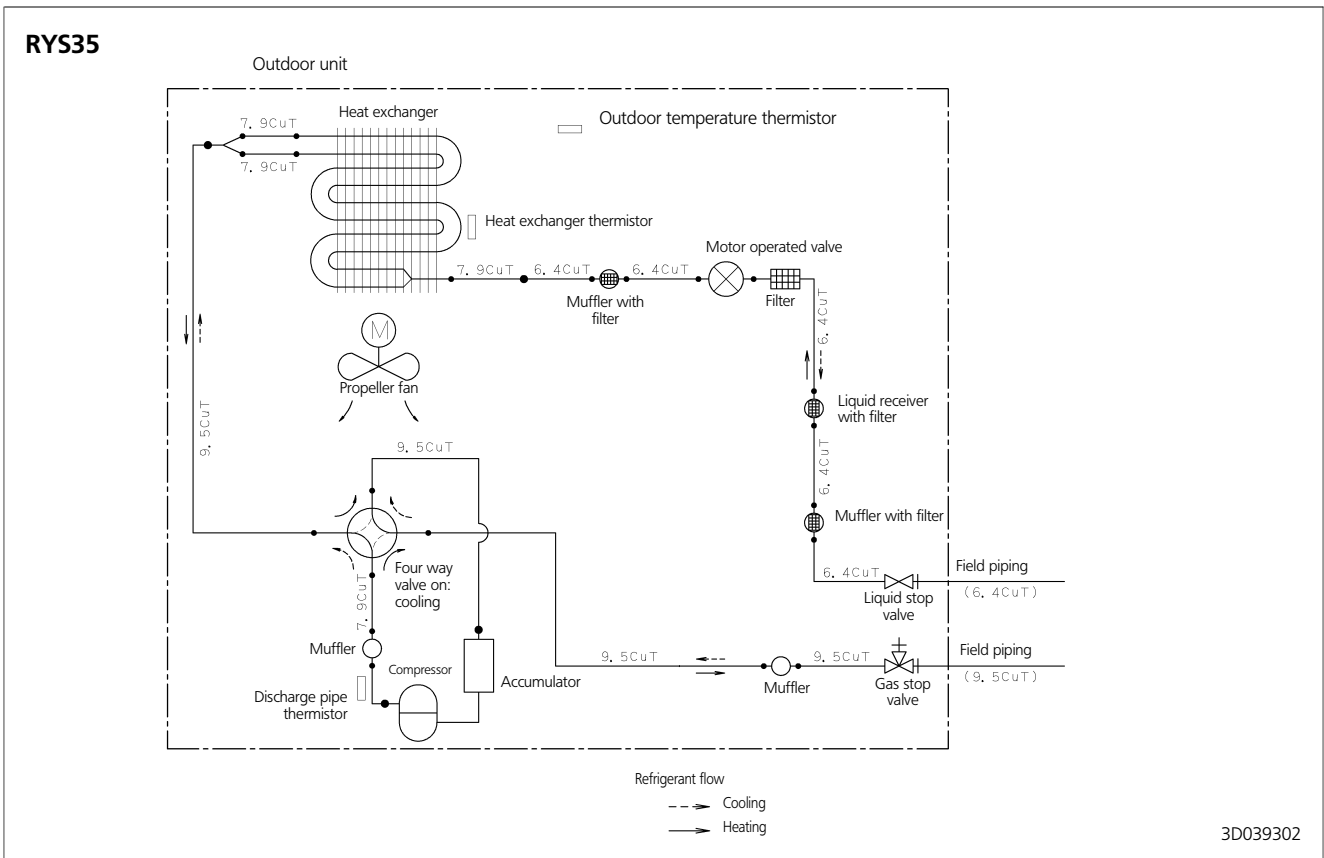
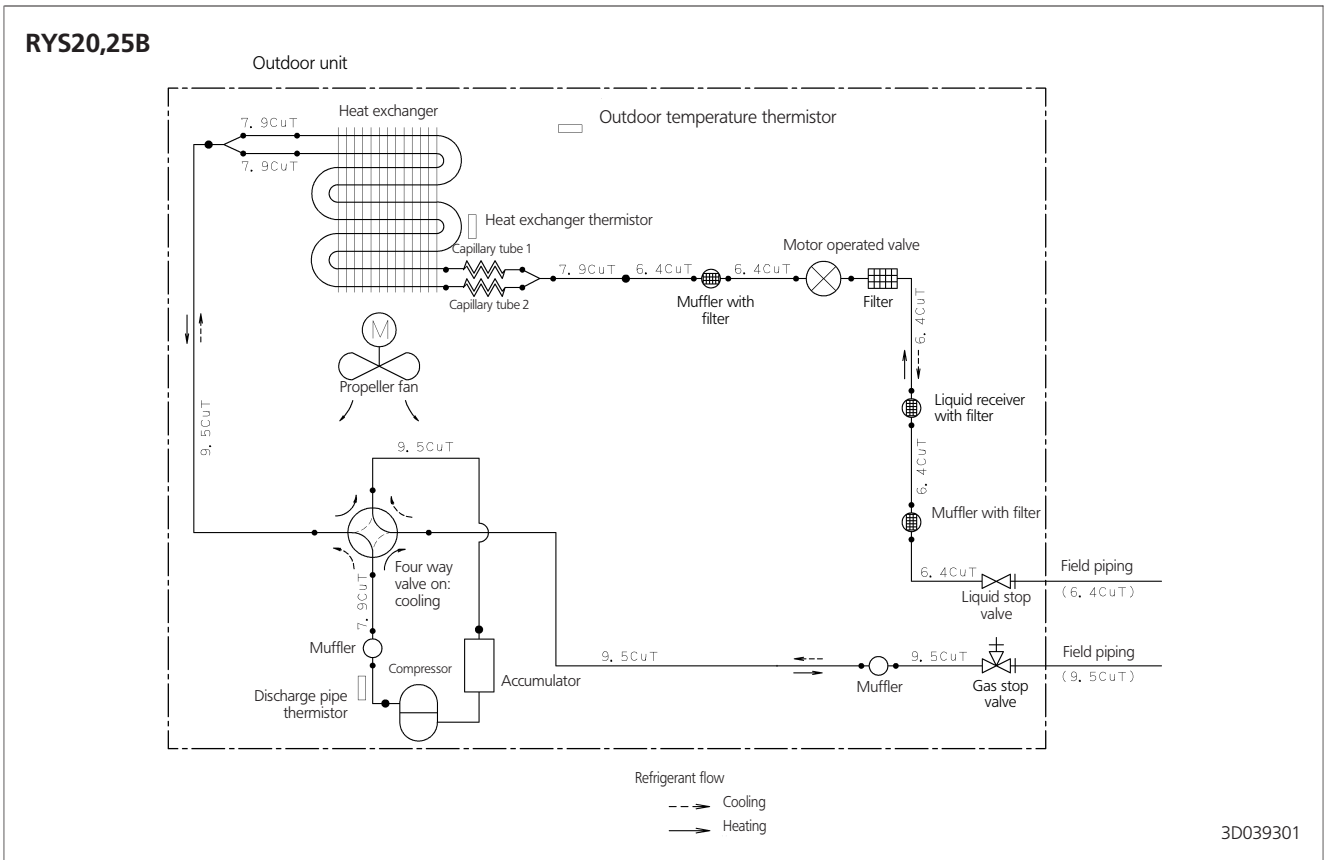
- Equivalent piping length 7.5 m
- Level difference 0 m
- Air flow rate high

3D028318C

6 Piping diagrams



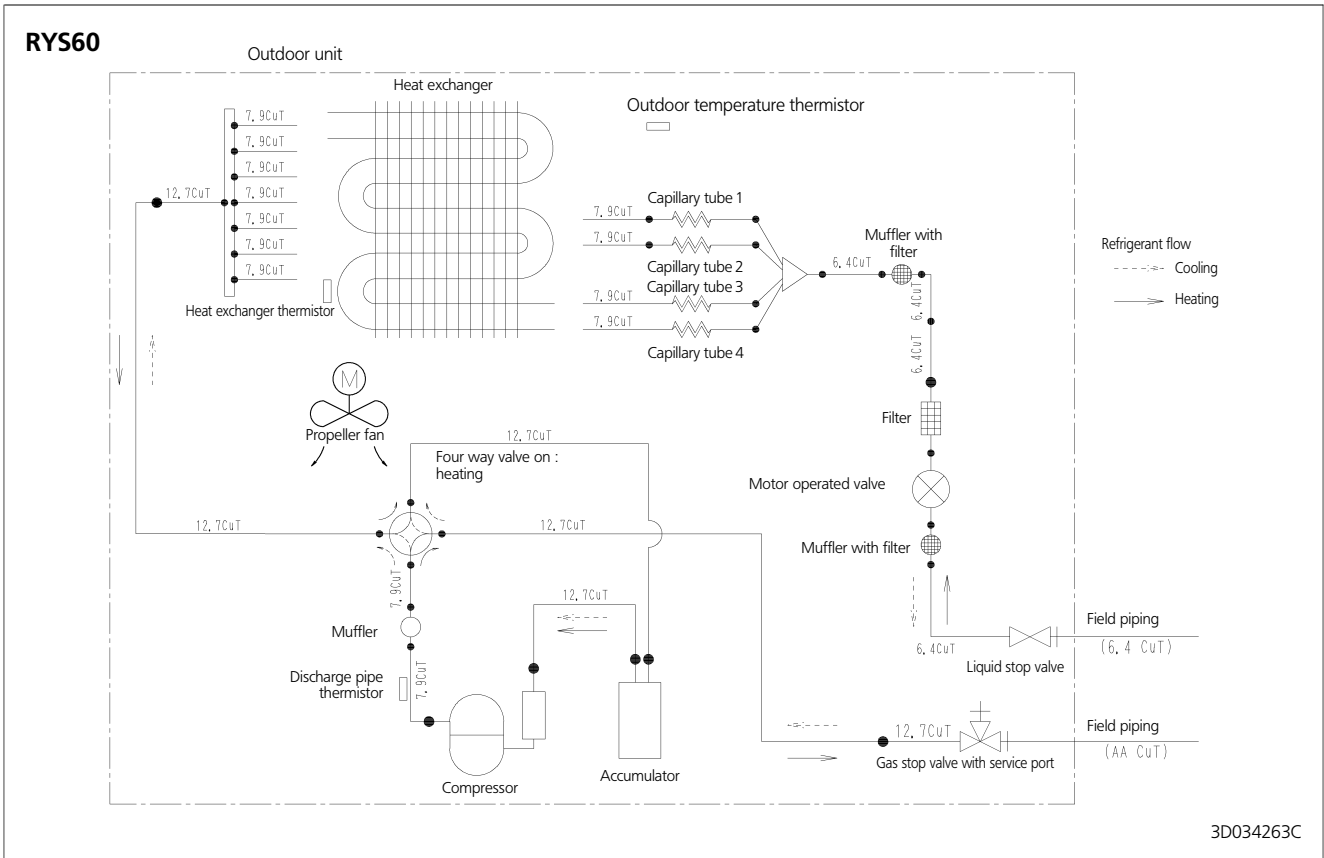
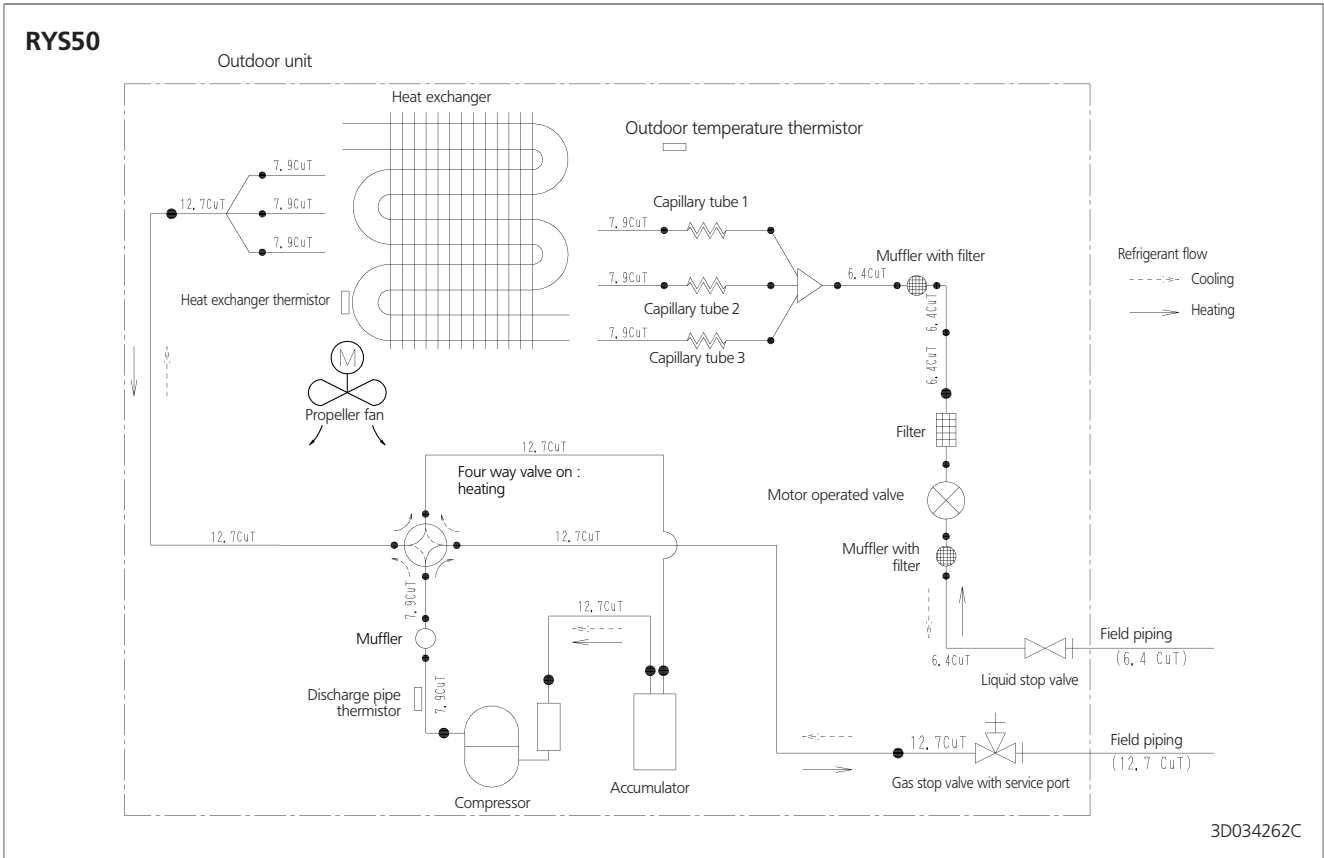
6



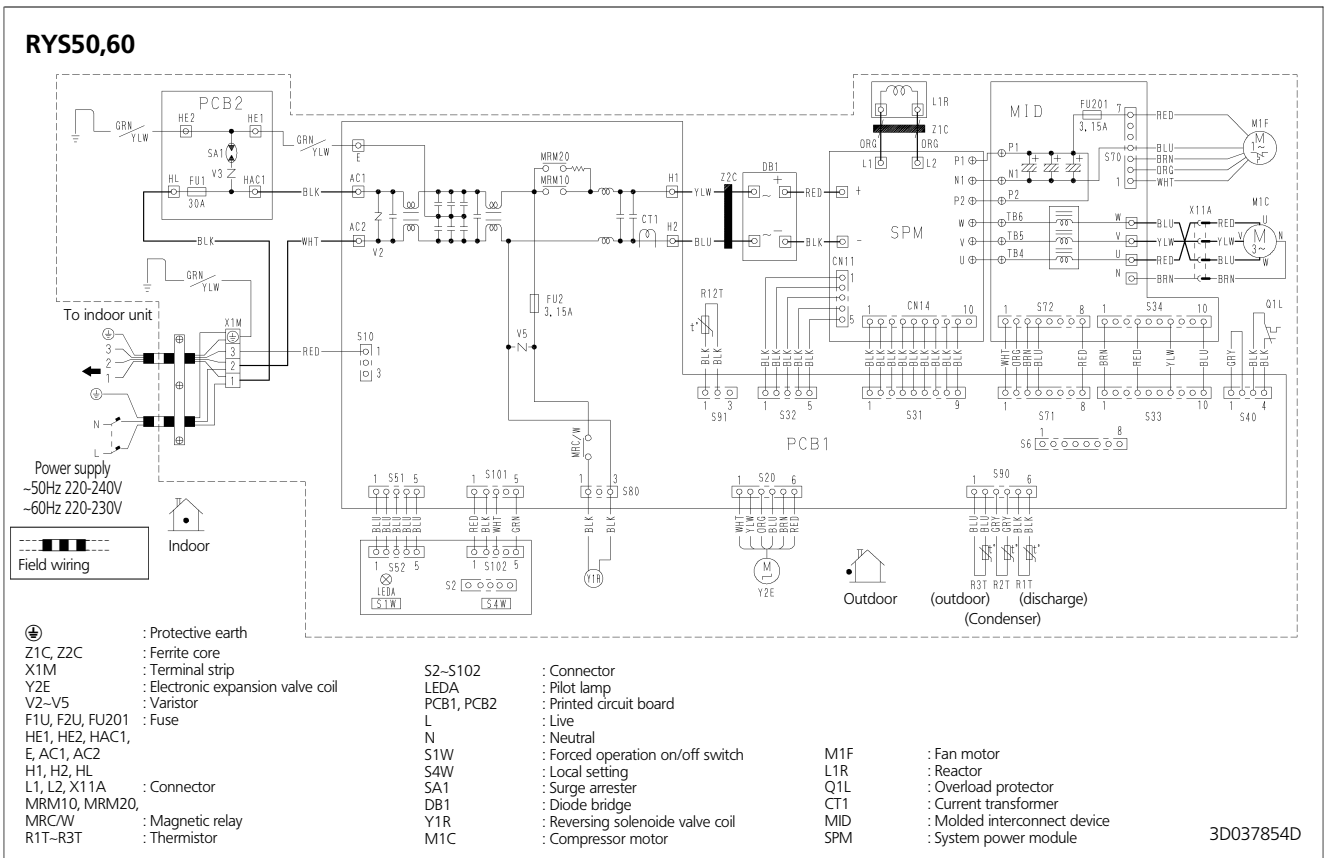
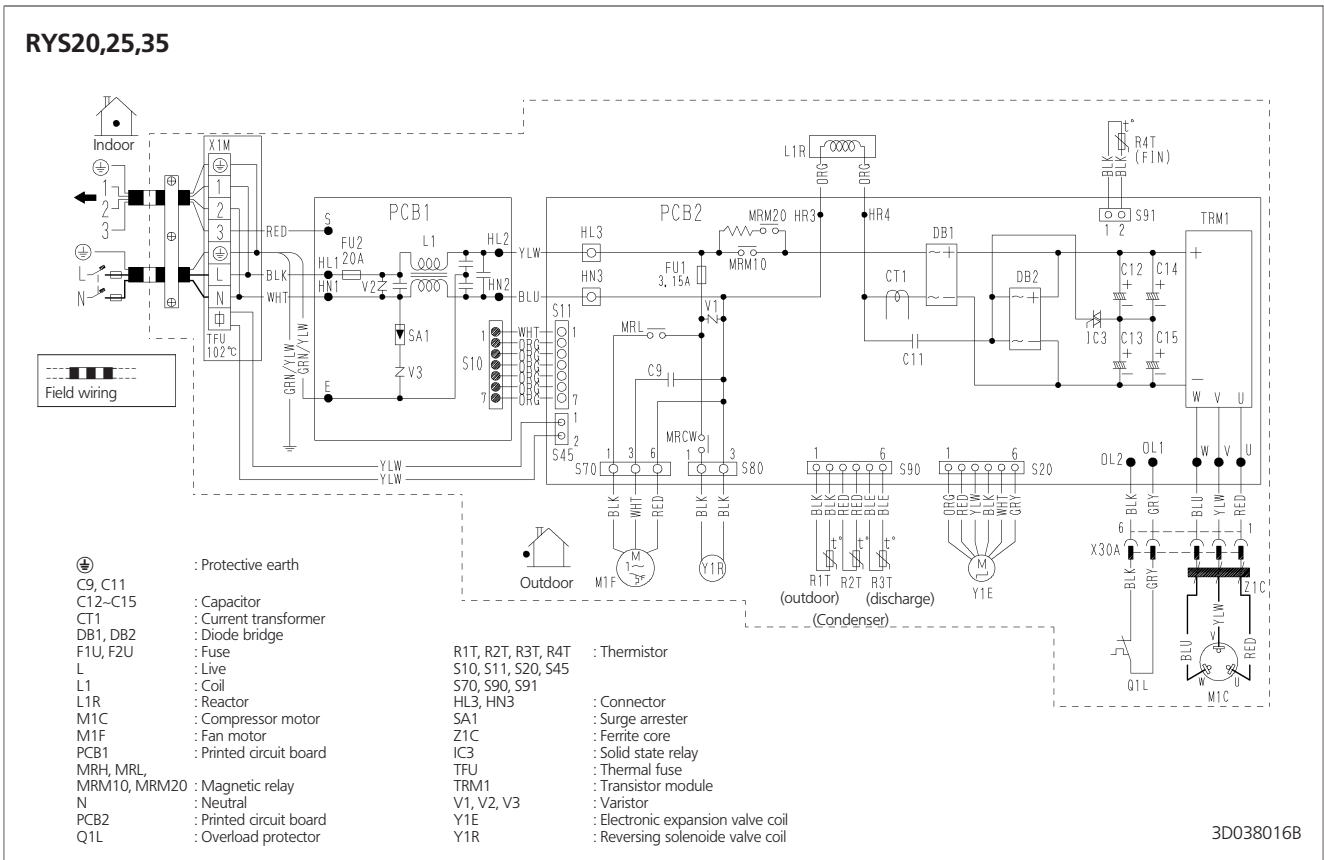
6 Piping diagrams



6



7 Wiring diagrams





8 Sound level

8-1 Sound level data

8 Cooling only:

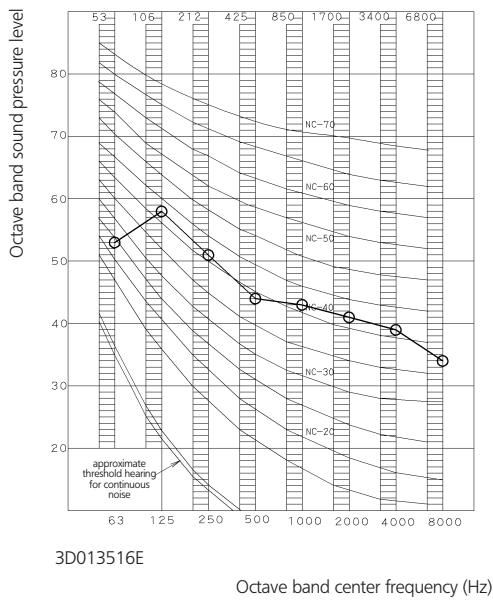
8-1

Model	Sound pressure level		Measuring location	Sound power level (Cooling/Heating)
	230V, 50Hz			
	Cooling/Heating	H		
RYS20B	47/48			60/*
RYS25B	47/48			60/*
RYS35B	47/48			60/*
RYS50B	47/48			63/64
RYS60B	49/49			64/64

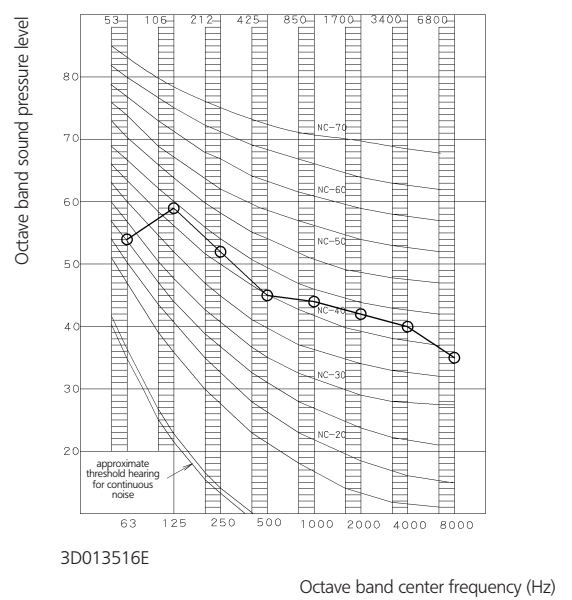
* This information was not available at the time of publication.

8-2 Sound pressure spectrum

RYS20,25,35B (Cooling)



RYS20,25,35B (Heating)



Legend



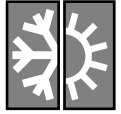
50/60Hz, 220-240/220-230V

NOTES

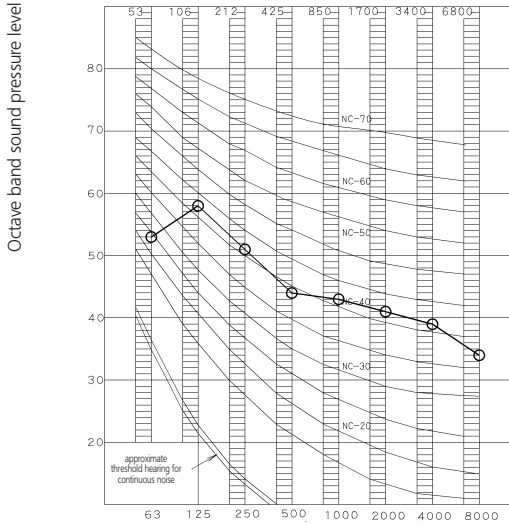
- 1 Operation sound is measured in an anechoic chamber.
- 2 Operation sound level differs with operation and ambient conditions.
- 3 Reference acoustic pressure 0dB = 20µPa

8 Sound level

8-2 Sound pressure spectrum



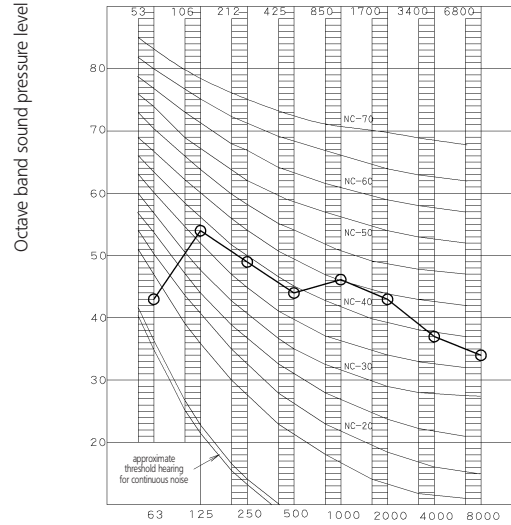
RYS50B (Cooling)



3D027645F

Octave band center frequency (Hz)

RYS50B (Heating)



3D027645F

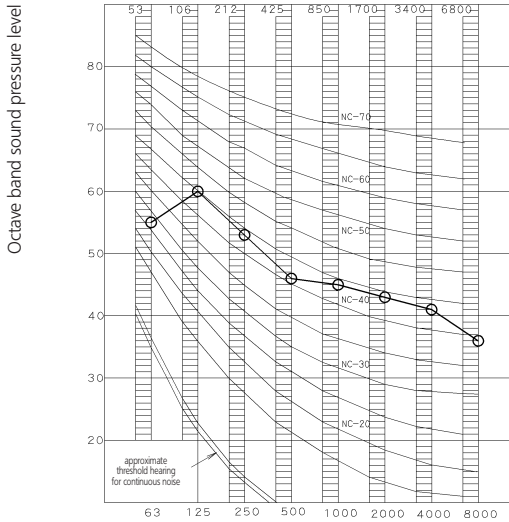
Octave band center frequency (Hz)

Legend



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

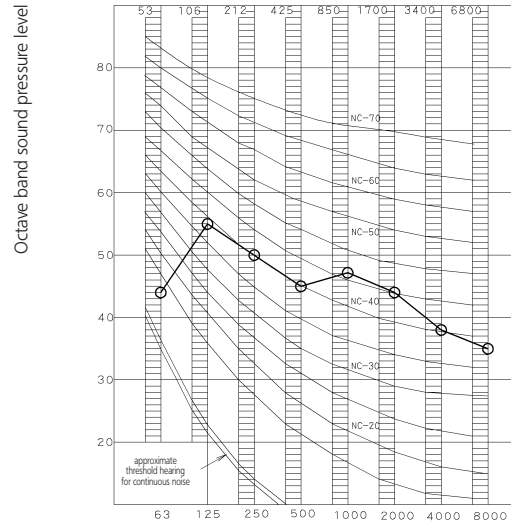
RYS60B (Cooling)



3D035059A

Octave band center frequency (Hz)

RYS60B (Heating)



3D035059A

Octave band center frequency (Hz)

Legend



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

NOTES

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




9 Accessories

9-1 Standard accessories

9 RYS-B

9-1

Accessories supplied with the outdoor unit:			
(A) Installation manual	1	(B) Drain plug (Heat pump models)  There is on the bottom packing case.	1

9-2 Optional accessories

RYS-B

	RYS20BVMB	RYS25BVMB	RYS35BVMB	RYS50BVMB	RYS60BVMB
Air direction adjustment grille	KPW937A4		KPW945A4		

10 Installation

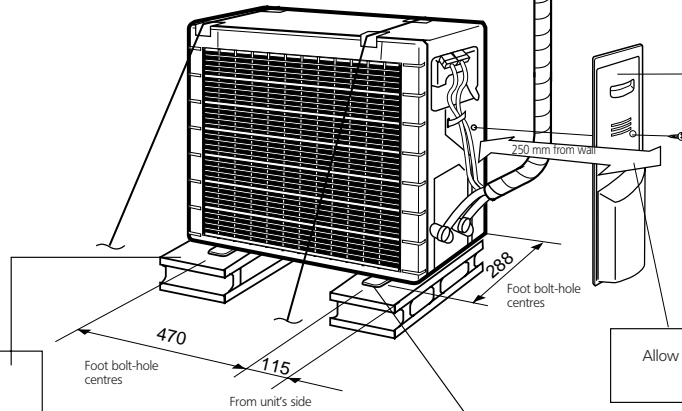
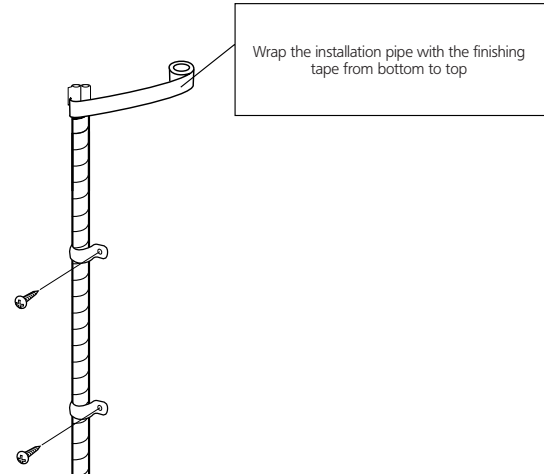


RYS20,25,35B

Outdoor unit installation drawings

Model	20 / 25 / 35 class
Max. allowable length	Cooling only: 25m 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.



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.

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

10 Installation



10

RYS50,60B

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.

