



technical data

RXH-C



**Pair Application,
Inverter Controlled Unit**



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.

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1 Features

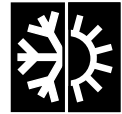


1 Outdoor units for pair application

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



2 Specifications



2

TECHNICAL SPECIFICATIONS						
OUTDOOR UNITS				RXH20CVMB	RXH25CVMB	RXH35CVMB
DIMENSIONS	Unit	H	mm	560		
		W	mm	695		
		D	mm	265		
WEIGHT			kg	31		
COLOUR	Unit			Ivory white		
SOUND LEVEL	Sound pressure (1) (Cooling)	high/low	dB(A)	46/*	46/*	48/*
	Sound pressure (1) (Heating)	high/low	dB(A)	47/*	47/*	48/*
	Sound power (2) (Cooling)	high	dB(A)	61	61	63
	Sound power (2) (Heating)	high	dB(A)	62	62	63
FAN	Air flow rate (Cooling)	high/low	rpm	29/*	29/*	27.5/*
	Air flow rate (Heating)	high/low	rpm	25.5/*	25.5/*	23.5/*
	Speed (Cooling)	high	rpm	720	720	710
	Speed (Heating)	high	rpm	690	690	690
	Model			Propeller fan		
	Motor output			25		
HEAT EXCHANGER	Type		Colgate fin, Ø 8 grooved tube			
	Rows x stages x fin pitch		mm	1 x 24 x 1.49		2 x 24 x 1.41
REFRIGERANT CIRCUIT	Refrigerant type		R-410A			
	Refrigerant charge		kg	0.79	0.79	1.01
	Maximum allowable distance between indoor and outdoor		m	15	15	15
	Maximum allowable level difference			15	15	15
	Refrigerant control		Motor operated expansion valve			
COMPRESSOR	Type		Hermetically sealed swing type			
	Model		1YC23NXD#A			
	Motor output		600			
	Oil type		FVC50K			
	Oil charge volume		ℓ	0.375		
PIPING CONNECTIONS		liquid	mm	ø6.4		
		gas	mm	ø9.5		
		drain	mm	ø18.0		
INSULATION MATERIAL	Heat insulation			Both liquid and gas pipes		

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

ELECTRICAL SPECIFICATIONS						
OUTDOOR UNITS				RXH20CVMB	RXH25CVMB	RXH35CVMB
CURRENT	Nominal running current	cooling/heating	A	3.12/3.82	3.52/4.22	4.72/4.72
	Max. running current	cooling/heating	A	Please refer to electrical data		
	Starting current	cooling/heating	A	4.0	4.4	4.9

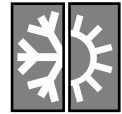
OUTDOOR UNITS			RXH20CVMB	RXH25CVMB	RXH35CVMB
POWER SUPPLY			VM		
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		1~		
	Frequency	Hz	50		
	Voltage	V	230		

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NOTES

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

2 Specifications



2

ELECTRICAL DATA

RXH20CVMB

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXS20CVMB	RXH20CVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	14.0	15	42	2.81	25	0.35	18	0.20

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RXH25CVMB

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXS25CVMB	RXH25CVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	14.0	15	47	3.21	25	0.35	18	0.20

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RXH35CVMB

Indoor unit	Outdoor unit	Power supply				Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXS35CVMB	RXH35CVMB	50-230	MAX. 50Hz 253V MIN. 50Hz 207V	14.0	15	70	4.41	25	0.35	18	0.20

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SYMBOLS

MCA	: Min. Circuit Amps (A)
MFA	: Max. Fuse Amps (A)
RHz	: Rated operating frequency(Hz)
RLA	: Rated Load Amps (A)
OFM	: Outdoor Fan Motor
IFM	: Indoor Fan Motor
FLA	: Full Load Amps
W	: Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19.0°CWB
Outdoor temp. : 35°CDB
2. Maximum allowable voltage unbalance between phases is 2%
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.
5. For more details concerning conditional connections, see <http://www.daikineurope.com/extranet>, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
Finally, click on the document title of your choice.

3 Capacity tables



FTXS20CVMB + RXH20CVMB

AFR	7.7
BF	0.23

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	1.86	1.68	0.46	1.80	1.62	0.52	1.74	1.57	0.57	1.71	1.54	0.58	1.67	1.50	0.59	1.60	1.44	0.64
16.0	22	2.01	1.81	0.47	1.95	1.75	0.53	1.88	1.69	0.58	1.85	1.66	0.59	1.80	1.62	0.60	1.72	1.55	0.65
18.0	25	2.16	1.95	0.48	2.09	1.88	0.54	2.02	1.82	0.59	1.98	1.79	0.60	1.93	1.74	0.61	1.85	1.67	0.67
19.0	27	2.24	2.01	0.48	2.16	1.95	0.54	2.09	1.88	0.60	2.05	1.85	0.61	2.00	1.80	0.62	1.92	1.72	0.67
22.0	30	2.47	2.22	0.50	2.39	2.15	0.56	2.31	2.08	0.61	2.27	2.04	0.62	2.21	1.99	0.64	2.12	1.91	0.69
24.0	32	2.63	2.36	0.51	2.54	2.29	0.57	2.45	2.21	0.63	2.41	2.17	0.64	2.35	2.12	0.65	2.25	2.03	0.70

Heating capacity

230V [50Hz]

AFR	7.8
-----	-----

Indoor		Outdoor temperature (°CWB)									
EDB		-10		-5		0		6		10	
(°C)		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0		1.49	0.55	1.85	0.60	2.20	0.65	2.63	0.71	2.91	0.74
18.0		1.48	0.58	1.83	0.63	2.19	0.68	2.61	0.73	2.90	0.77
20.0		1.46	0.61	1.82	0.66	2.17	0.70	2.60	0.76	2.88	0.80
21.0		1.46	0.62	1.81	0.67	2.17	0.72	2.59	0.77	2.88	0.81
22.0		1.45	0.64	1.81	0.68	2.16	0.73	2.59	0.79	2.87	0.83
24.0		1.44	0.66	1.79	0.71	2.15	0.76	2.57	0.81	2.86	0.85

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FTXS25CVMB + RXH25CVMB

AFR	7.7
BF	0.23

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	2.10	1.78	0.52	2.03	1.72	0.58	1.96	1.66	0.65	1.92	1.63	0.66	1.87	1.59	0.67	1.80	1.52	0.72
16.0	22	2.26	1.92	0.53	2.19	1.86	0.59	2.11	1.79	0.66	2.08	1.76	0.67	2.02	1.72	0.68	1.94	1.65	0.74
18.0	25	2.43	2.06	0.54	2.35	2.00	0.61	2.27	1.93	0.67	2.23	1.89	0.68	2.17	1.85	0.69	2.08	1.77	0.75
19.0	27	2.52	2.14	0.55	2.43	2.06	0.61	2.35	1.99	0.67	2.31	1.96	0.68	2.25	1.91	0.70	2.16	1.83	0.76
22.0	30	2.78	2.36	0.56	2.69	2.28	0.63	2.60	2.20	0.69	2.55	2.17	0.70	2.49	2.11	0.72	2.38	2.02	0.78
24.0	32	2.96	2.51	0.57	2.86	2.43	0.64	2.76	2.34	0.71	2.71	2.30	0.72	2.64	2.24	0.73	2.53	2.15	0.79

Heating capacity

230V [50Hz]

AFR	7.8
-----	-----

Indoor		Outdoor temperature (°CWB)									
EDB		-10		-5		0		6		10	
(°C)		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0		1.63	0.61	2.02	0.66	2.41	0.71	2.88	0.77	3.19	0.82
18.0		1.62	0.64	2.01	0.69	2.40	0.74	2.86	0.80	3.18	0.85
20.0		1.61	0.67	1.99	0.72	2.38	0.77	2.85	0.84	3.16	0.88
21.0		1.60	0.68	1.99	0.74	2.38	0.79	2.84	0.85	3.15	0.89
22.0		1.59	0.70	1.98	0.75	2.37	0.80	2.84	0.87	3.15	0.91
24.0		1.58	0.73	1.97	0.78	2.35	0.83	2.82	0.90	3.13	0.94

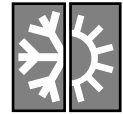
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SYMBOLS

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: 5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.



3 Capacity tables

3

FTXS35CVMB + RXH35CVMB

AFR	7.7
BF	0.18

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	2.93	2.14	0.78	2.84	2.07	0.87	2.74	2.00	0.96	2.69	1.97	0.98	2.62	1.92	1.00	2.51	1.84	1.08
16.0	22	3.17	2.31	0.80	3.06	2.24	0.89	2.96	2.16	0.98	2.91	2.12	1.00	2.83	2.07	1.02	2.72	1.98	1.10
18.0	25	3.40	2.49	0.81	3.29	2.40	0.90	3.18	2.32	1.00	3.13	2.28	1.01	3.04	2.22	1.04	2.92	2.13	1.12
19.0	27	3.52	2.57	0.82	3.41	2.49	0.91	3.29	2.40	1.01	3.23	2.36	1.02	3.15	2.30	1.05	3.02	2.20	1.13
22.0	30	3.89	2.84	0.84	3.76	2.75	0.94	3.63	2.65	1.04	3.57	2.61	1.05	3.48	2.54	1.08	3.33	2.43	1.16
24.0	32	4.14	3.02	0.86	4.00	2.92	0.96	3.86	2.82	1.06	3.80	2.77	1.07	3.70	2.70	1.10	3.55	2.59	1.19

Heating capacity

230V [50Hz]

AFR	8.1
-----	-----

Indoor		Outdoor temperature (°CWB)									
EDB		-10		-5		0		6		10	
(°C)		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0		2.06	0.77	2.55	0.83	3.05	0.90	3.64	0.98	4.03	1.03
18.0		2.05	0.81	2.54	0.87	3.03	0.94	3.62	1.02	4.01	1.07
20.0		2.03	0.84	2.52	0.91	3.01	0.98	3.60	1.06	3.99	1.11
21.0		2.02	0.86	2.51	0.93	3.00	0.99	3.59	1.07	3.98	1.13
22.0		2.01	0.88	2.50	0.95	2.99	1.01	3.58	1.09	3.98	1.15
24.0		1.99	0.92	2.48	0.99	2.97	1.05	3.56	1.13	3.96	1.18

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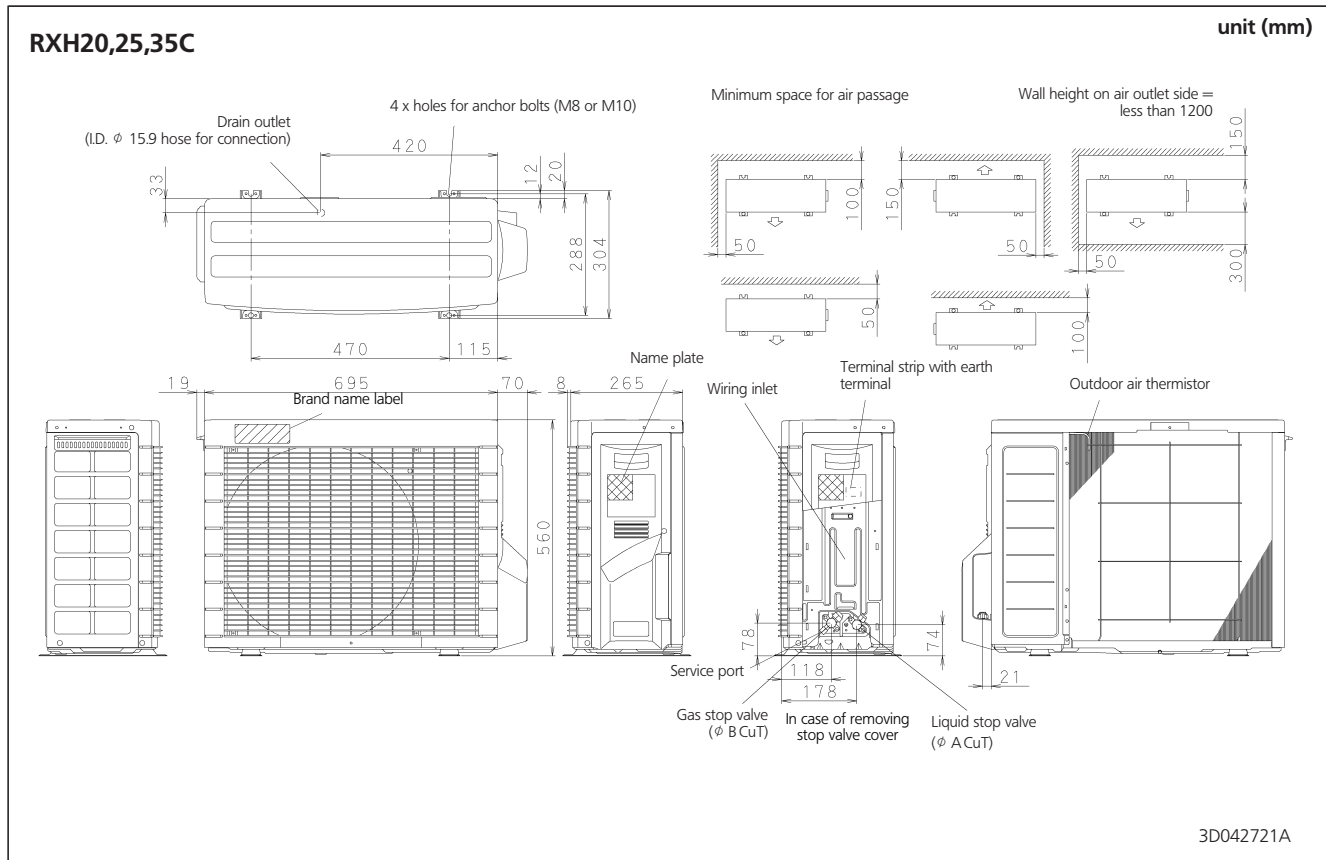
SYMBOLS

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: 5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

4 Dimensional drawings

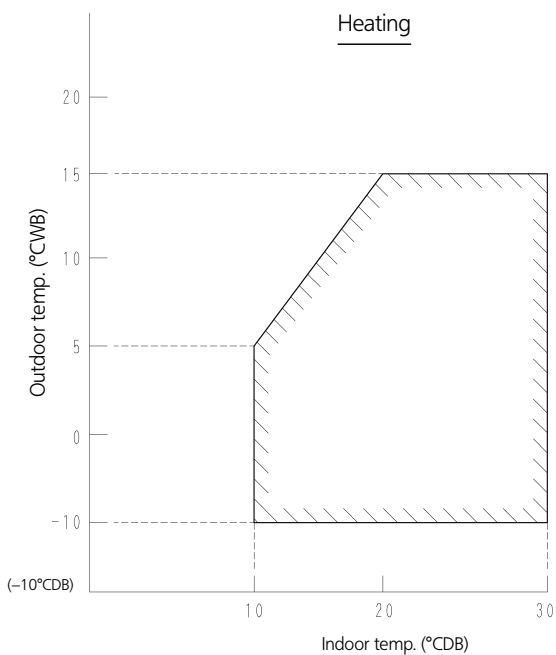
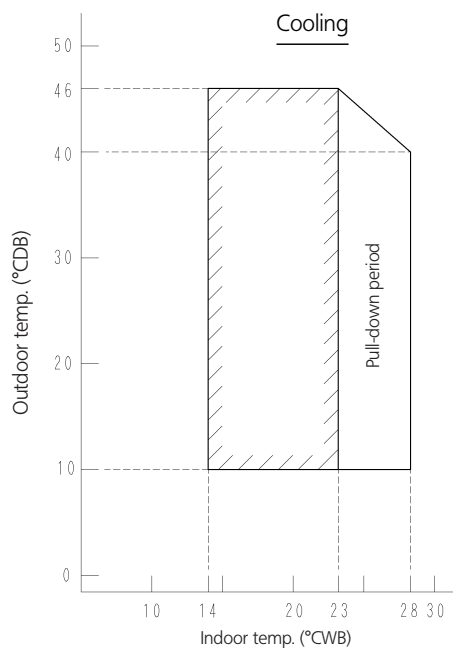


5 Operation range



5

RXH20,25,35C



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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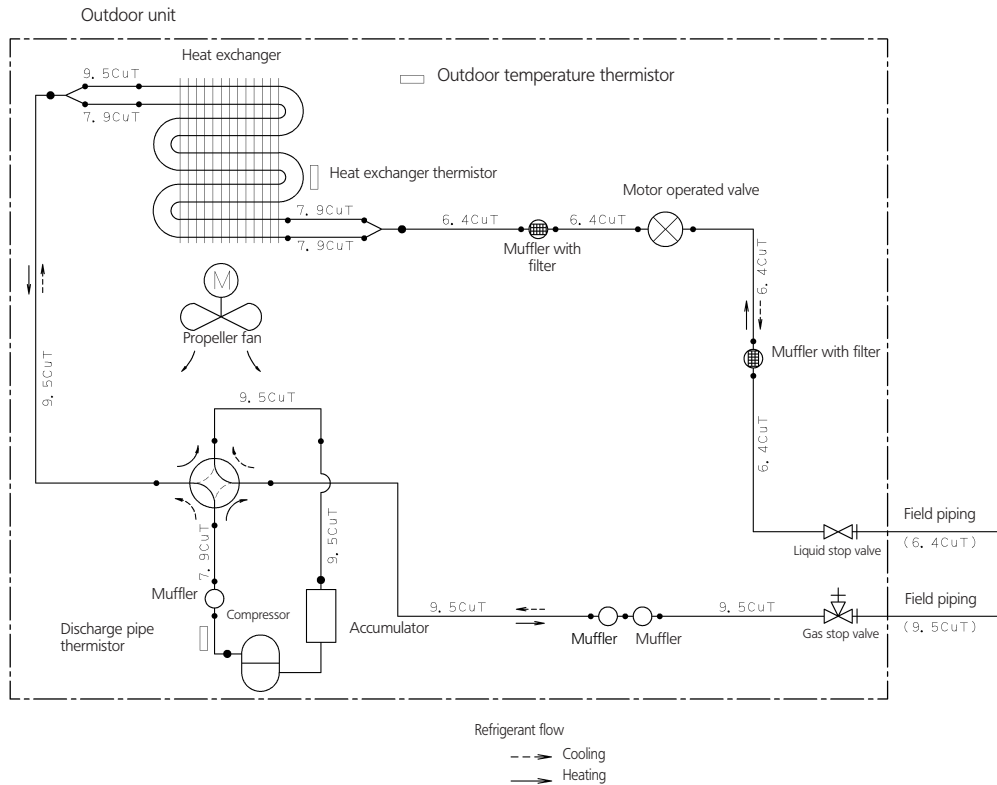
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Piping diagrams

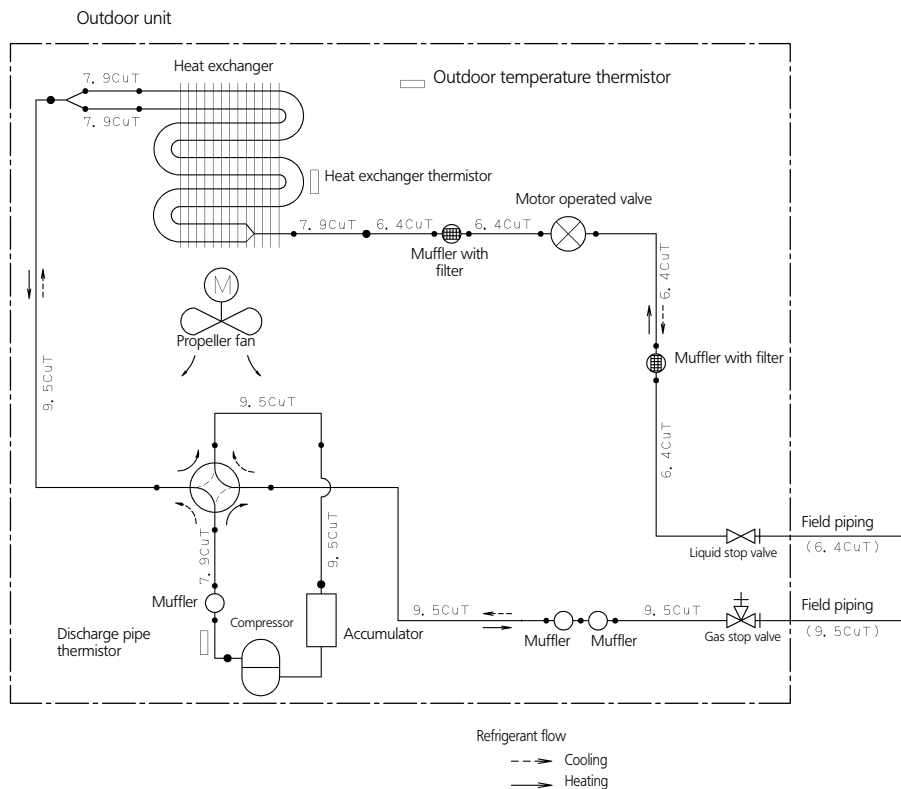


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RXH20,25C



RXH35C

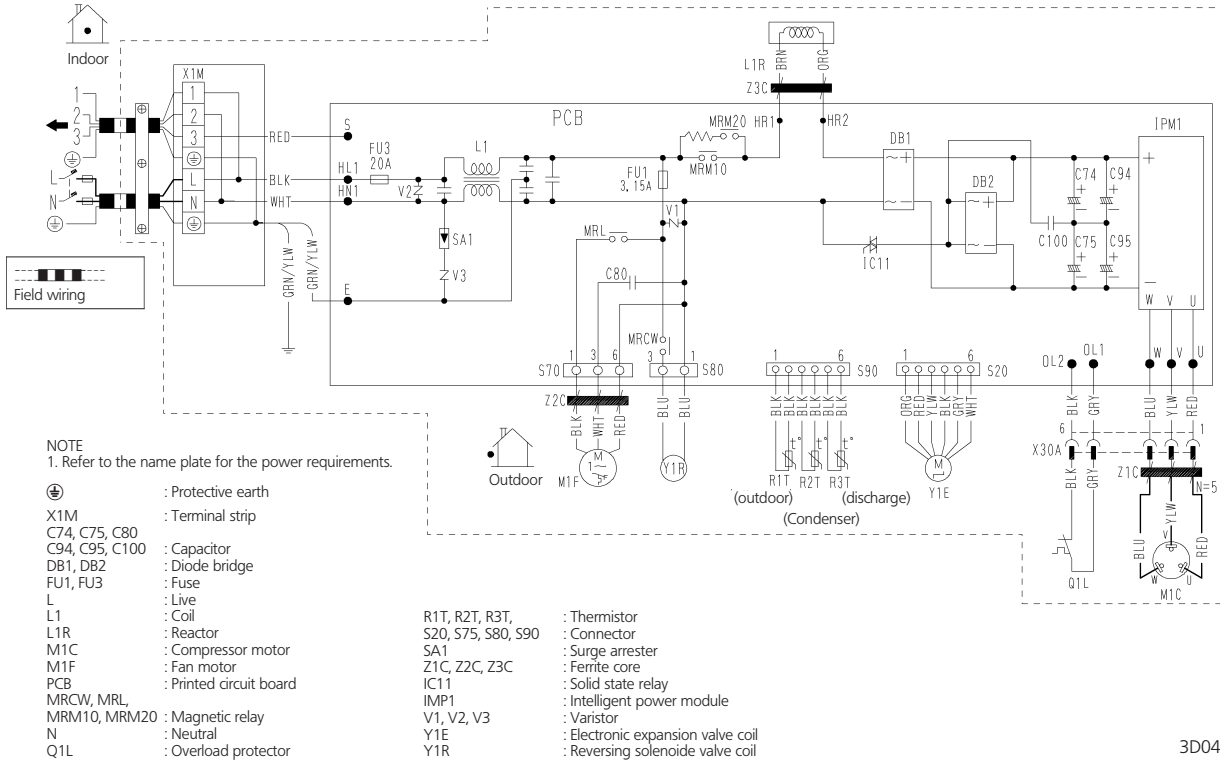


7 Wiring diagrams



7

RXH20,25,35C

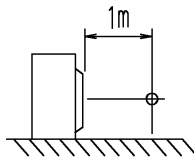




8 Sound level

8-1 Sound level data

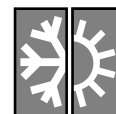
Cooling only / Heat pump:

Model	Sound pressure level		Measuring location 	Sound power level (cooling/heating)
	230V, 50Hz			
	Cooling/heating			
	H	L		
RXH20C	46/47	*/*		61/62
RXH25C	46/47	*/*		61/62
RXH35C	48/48	*/*		63/63

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

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8-1



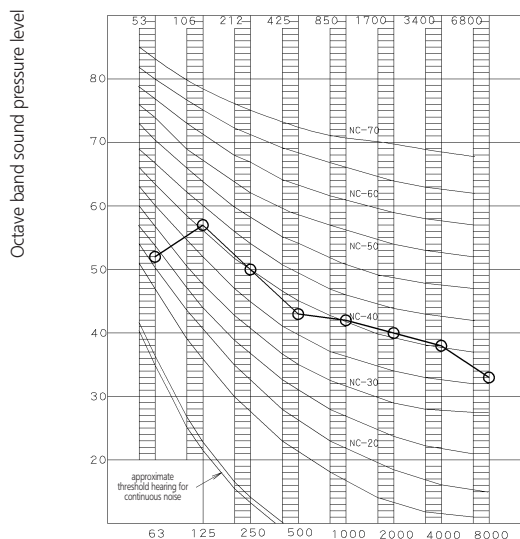
8 Sound level

8-2 Sound pressure spectrum

8

8-2

RXH20,25C (Cooling)



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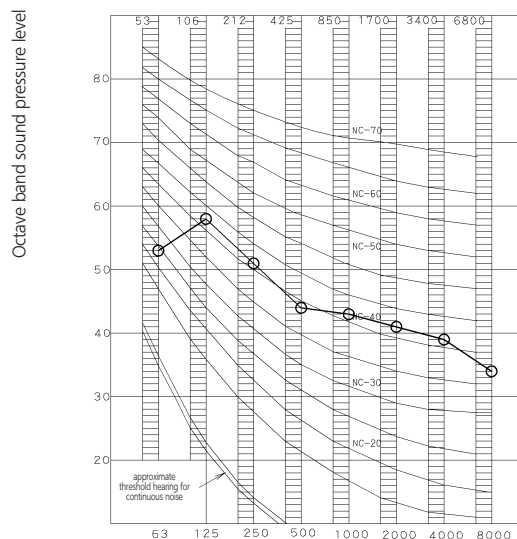
Octave band center frequency (Hz)

Legend



50Hz, 230V (H)

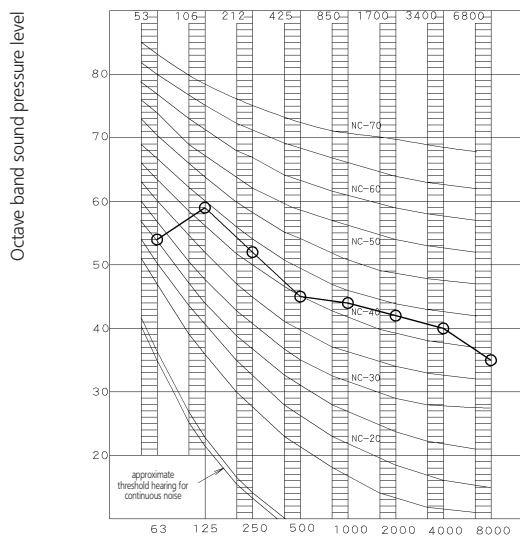
RXH20,25C (Heating)



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Octave band center frequency (Hz)

RXH35C (Cooling)



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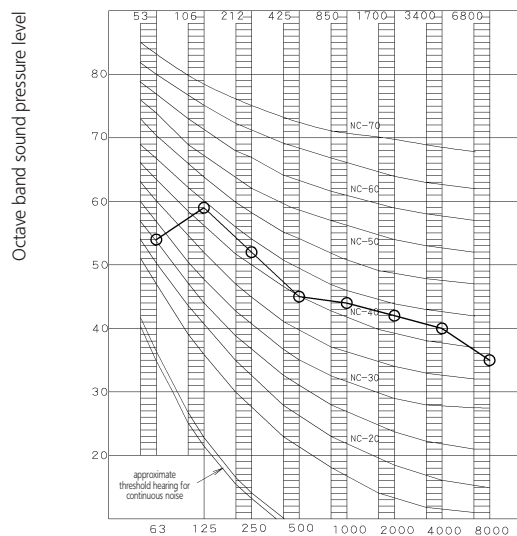
Octave band center frequency (Hz)

Legend



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

RXH35C (Heating)



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Octave band center frequency (Hz)

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

RXH-C

Accessories supplied with the outdoor unit:	
Installation manual	1

9
9-1

9-2 Optional accessories

RXH-C

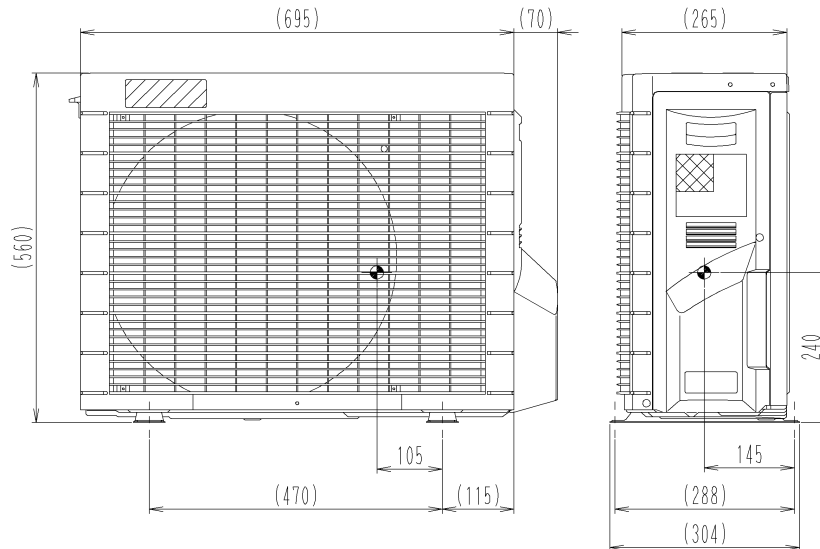
	RXH20CVMB	RXH25CVMB	RXH35CVMB
Air direction adjustment grille	KPW937A4		

10 Center of gravity



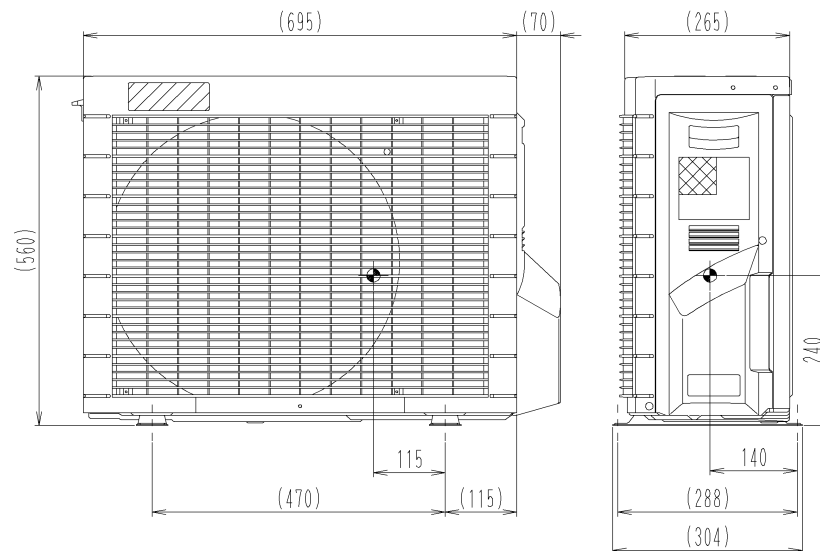
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RXH20,25C



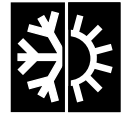
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RXH35C



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11 Installation



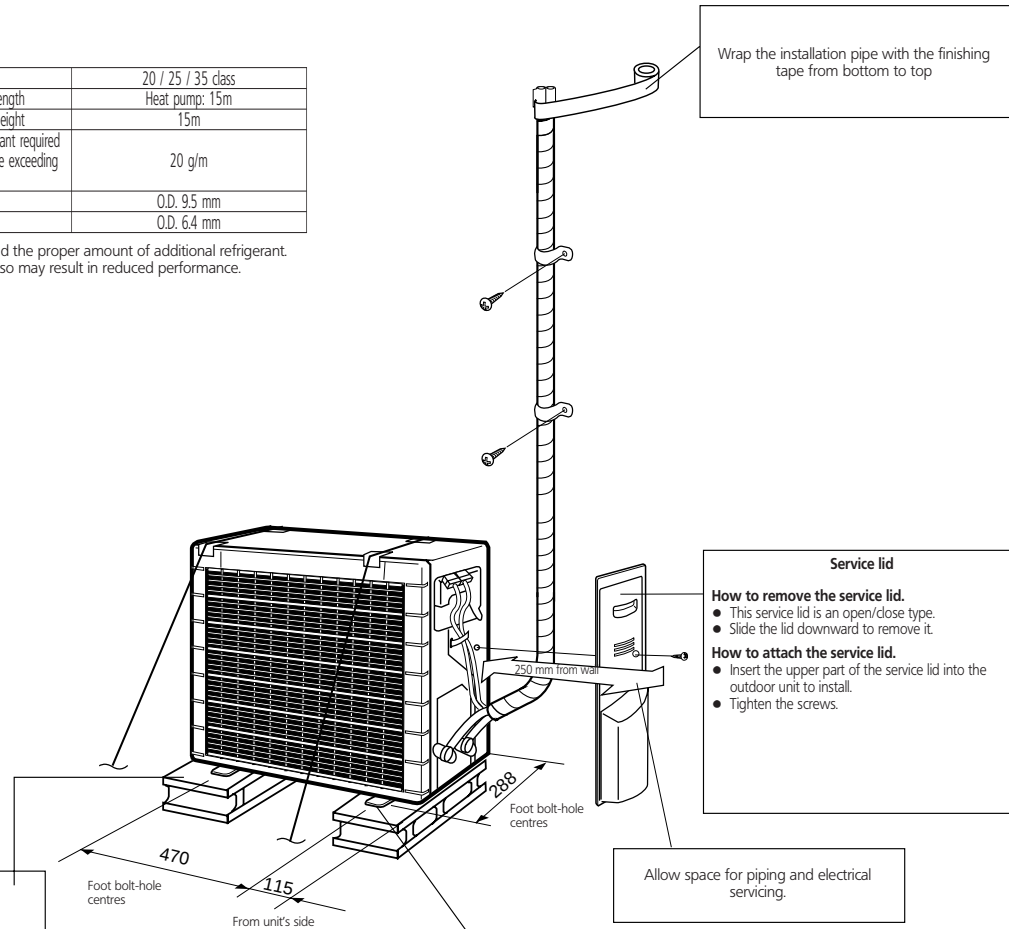
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RXH20,25,35C

Outdoor unit installation drawings

Model	20 / 25 / 35 class
Max. allowable length	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.



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.

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.