



# technical data

**RXG-C**



**Wall Mounted,  
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

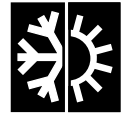


## 1 Outdoor units for pair application

- Daikin outdoor units are neat and sturdy and 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				RXG25CVMB	RXG35CVMB	
OUTDOOR UNITS				RXG25CVMB	RXG35CVMB	
DIMENSIONS	Unit	H	mm	550		
		W	mm	765		
		D	mm	285		
WEIGHT			kg	32		
COLOUR		Unit				Ivory white
SOUND LEVEL	Sound pressure (1) (H)	cool/heat	dB(A)	46/43	47/44	
		cool/heat	dB(A)	47/44	48/45	
	Sound power (2) (H)	cool/heat	dB(A)	61*	62*	
FAN	Air flow rate (H)	cooling	m <sup>3</sup> /min	31.3/22.4	31.3/22.4	
		heating	m <sup>3</sup> /min	28.1/22.4	28.1/22.4	
	Speed (H)	cooling	rpm	810/620	810/620	
		heating	rpm	810/660	810/660	
	Mode		Propeller fan			
	Motor output		W			
HEAT EXCHANGER	Type		WH fin, φ 7Hi-XA tube			
	Rows x stages x fin pitch		mm			2 x 24 x 1.4
REFRIGERANT CIRCUIT	Refrigerant type		R-410A			
	Refrigerant charge		kg			1.00
	Maximum allowable distance between indoor and outdoor		m			20
	Maximum allowable level difference		m			15
	Refrigerant control		Motor operated expansion valve			
COMPRESSOR	Type		Hermetically sealed swing type			
	Model		1YC23NXD#A			
	Motor output		W			600
	Oil type		FVC50K			
	Oil charge volume		ℓ			0.375
PIPING CONNECTIONS		liquid	mm	φ 6.4		
		gas	mm	φ 9.5		
		drain	mm	φ 18.0		
INSULATION MATERIAL	Heat insulation tape		Both liquid and gas pipes			

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

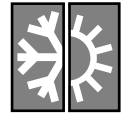
ELECTRICAL SPECIFICATIONS				RXG25CVMB	RXG35CVMB
OUTDOOR UNITS				RXG25CVMB	RXG35CVMB
CURRENT	Nominal running current	cooling/heating	A	3.26/4.36	4.76/5.06
	Max. running current	cooling/heating	A	Please refer to electrical data	
	Starting current	cooling/heating	A	4.5	5.2

OUTDOOR UNITS				RXG25CVMB	RXG35CVMB
POWER SUPPLY				VM	VM
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~
	Frequency		Hz	50	50
	Voltage		V	230	230

### NOTES

- The sound pressure level is measured via a microphone at a certain 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

##### RXG+FTXG25C

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG25CVMBW	RXG25CVMB	50-230	Max. 50Hz-253V Min. 50Hz-207V	12	15	49	3.2	35	0.22	40	0.50
FTXG25CVMBS	RXG25CVMB	50-230	Max. 50Hz-253V Min. 50Hz-207V	12	15	49	3.2	35	0.22	409	0.50

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##### RXG+FTXG35C

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG35CVMBW	RXG35CVMB	50-230	Max. 50Hz-253V Min. 50Hz-207V	12	15	80	4.7	35	0.22	40	0.50
FTXG35CVMBS	RXG35CVMB	50-230	Max. 50Hz-253V Min. 50Hz-207V	12	15	80	4.7	35	0.22	40	0.50

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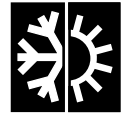
#### SYMBOLS

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	: Fan Motor Rated Output (W)

#### NOTES

- 1 RLA is based on the following conditions:  
Indoor temperature 27°CDB/19°CWB  
Outdoor temperature 35°CDB
- 2 Maximum allowable voltage variation 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



**RXG + FTXG25C**

**Cooling**

**230V [50Hz]**

AFR	7.4
BF	0.18

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	2.50	1.84	0.46	2.44	1.82	0.52	2.33	1.76	0.57	2.28	1.74	0.59	2.21	1.70	0.61	2.10	1.64	0.66
16.0	22	2.68	1.84	0.48	2.56	1.79	0.52	2.44	1.73	0.57	2.40	1.71	0.59	2.33	1.68	0.62	2.21	1.63	0.66
18.0	25	2.79	1.93	0.48	2.68	1.88	0.53	2.56	1.82	0.57	2.51	1.80	0.59	2.44	1.77	0.62	2.33	1.72	0.66
19.0	27	2.85	2.03	0.48	2.73	1.98	0.53	2.62	1.93	0.57	2.57	1.91	0.59	2.50	1.88	0.62	2.38	1.83	0.67
22.0	30	3.02	1.95	0.49	2.91	1.91	0.53	2.79	1.87	0.58	2.74	1.85	0.60	2.67	1.82	0.62	2.56	1.78	0.67
24.0	32	3.14	1.90	0.49	3.02	1.86	0.54	2.90	1.82	0.58	2.86	1.81	0.60	2.79	1.78	0.63	2.67	1.74	1.67

**Heating**

**230V [50Hz]**

AFR	7.7
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Indoor		Outdoor temperature (°CWB)									
EDB (°C)		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0		2.27	0.70	2.65	0.74	3.03	0.77	3.49	0.81	3.80	0.84
18.0		2.22	0.71	2.60	0.74	2.99	0.78	3.45	0.82	3.75	0.84
20.0		2.17	0.72	2.56	0.75	2.94	0.78	3.40	0.83	3.71	0.85
21.0		2.15	0.72	2.53	0.75	2.92	0.79	3.38	0.83	3.68	0.86
22.0		2.12	0.72	2.51	0.76	2.89	0.79	3.35	0.83	3.66	0.86
24.0		2.08	0.73	2.46	0.77	2.85	0.80	3.31	0.84	3.61	0.87

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**RXG + FTXG35C**

**Cooling**

**230V [50Hz]**

AFR	7.9
BF	0.18

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	2.67	1.97	0.56	2.67	1.97	0.65	2.67	1.97	0.74	2.67	1.97	0.79	2.67	1.97	0.86	2.67	1.97	0.99
16.0	22	3.39	2.23	0.72	3.39	2.23	0.83	3.39	2.23	0.96	3.36	2.21	1.01	3.26	2.17	1.05	3.10	2.08	1.13
18.0	25	3.91	2.49	0.82	3.75	2.41	0.90	3.58	2.34	0.98	3.52	2.31	1.01	3.42	2.26	1.06	3.26	2.18	1.14
19.0	27	3.99	2.60	0.82	3.83	2.52	0.90	3.66	2.44	0.98	3.60	2.41	1.01	3.50	2.37	1.06	3.34	2.30	1.14
22.0	30	4.23	2.49	0.83	4.07	2.42	0.91	3.90	2.36	0.99	3.84	2.33	1.02	3.74	2.29	1.07	3.58	2.23	1.15
24.0	32	4.39	2.42	0.84	4.23	2.35	0.91	4.07	2.29	0.99	4.00	2.27	1.02	3.90	2.23	1.07	3.74	2.17	1.15

**Heating**

**230V [50Hz]**

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

Indoor		Outdoor temperature (°CWB)									
EDB (°C)		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0		2.80	0.96	3.27	1.01	3.75	1.06	4.32	1.11	4.70	1.15
18.0		2.74	0.98	3.21	1.02	3.69	1.07	4.26	1.12	4.64	1.16
20.0		2.68	0.99	3.16	1.03	3.63	1.08	4.20	1.14	4.57	1.17
21.0		2.65	0.99	3.13	1.04	3.60	1.08	4.17	1.14	4.43	1.14
22.0		2.62	1.00	3.10	1.04	3.57	1.09	4.14	1.15	4.30	1.12
24.0		2.57	1.01	3.04	1.05	3.51	1.10	4.02	1.14	4.02	1.06

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**SYMBOLS**

AFR	: Air flow rate	(m <sup>3</sup> /min)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°CWB)
EDB	: Entering dry bulb temp.	(°CDB)
TC	: Total cooling capacity	(kW)
SHC	: Sensible heating capacity	(kW)
PI	: Power input	(kW)

**NOTES**

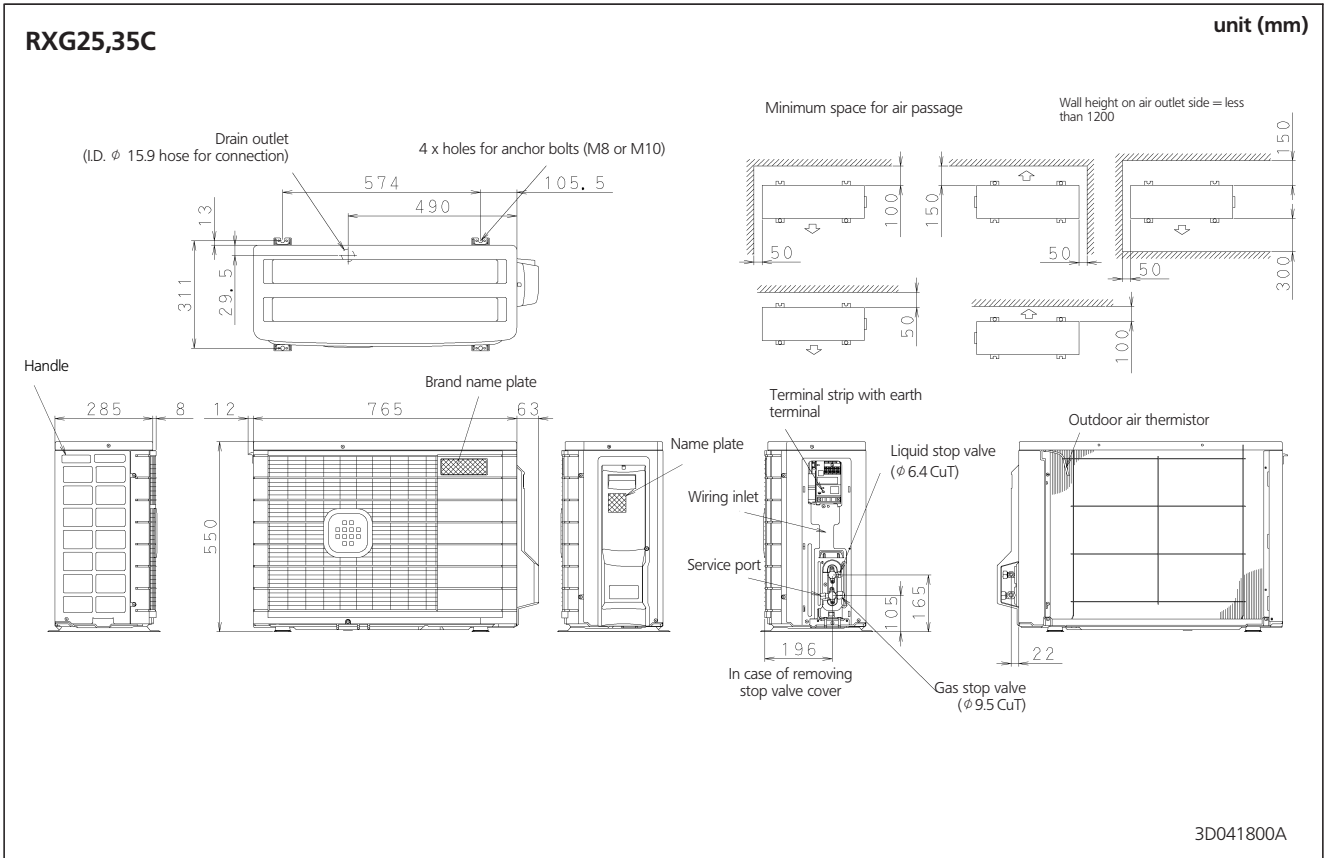
- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- shows nominal (rated) capacities and power input.
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- SHC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

**Caution:**  
TC and SHC are shown by kW

# 4 Dimensional drawings



4

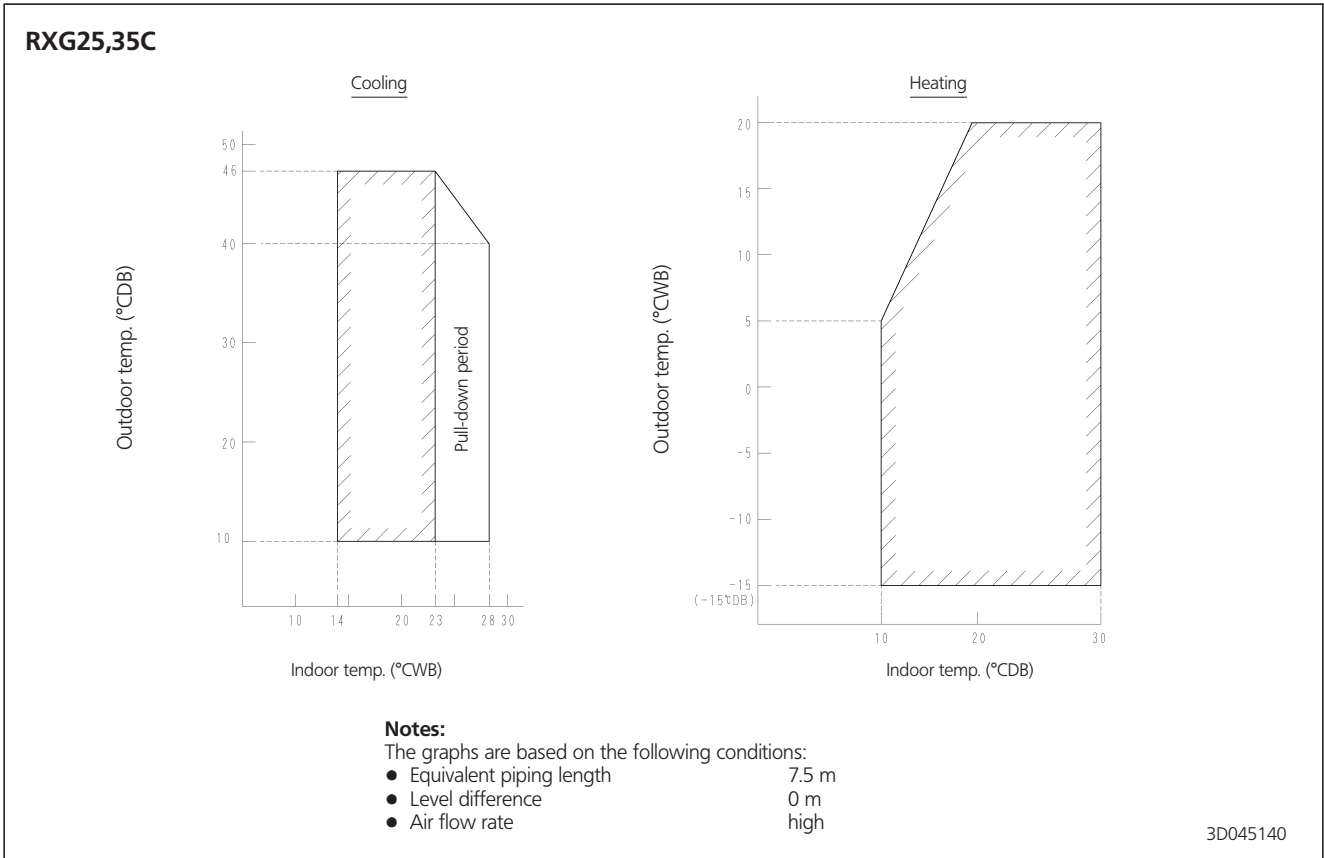




# 5 Operation range



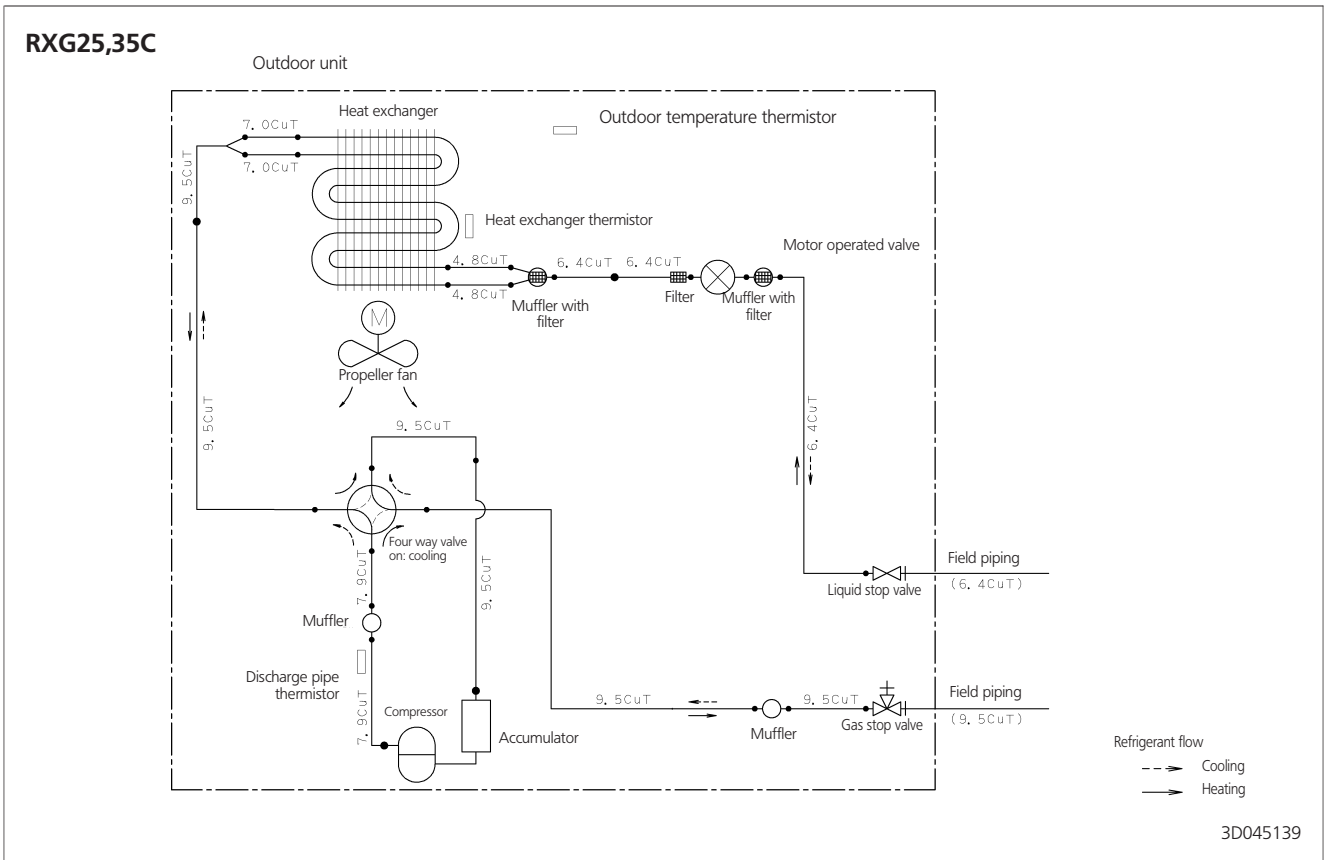
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# 6 Piping diagrams



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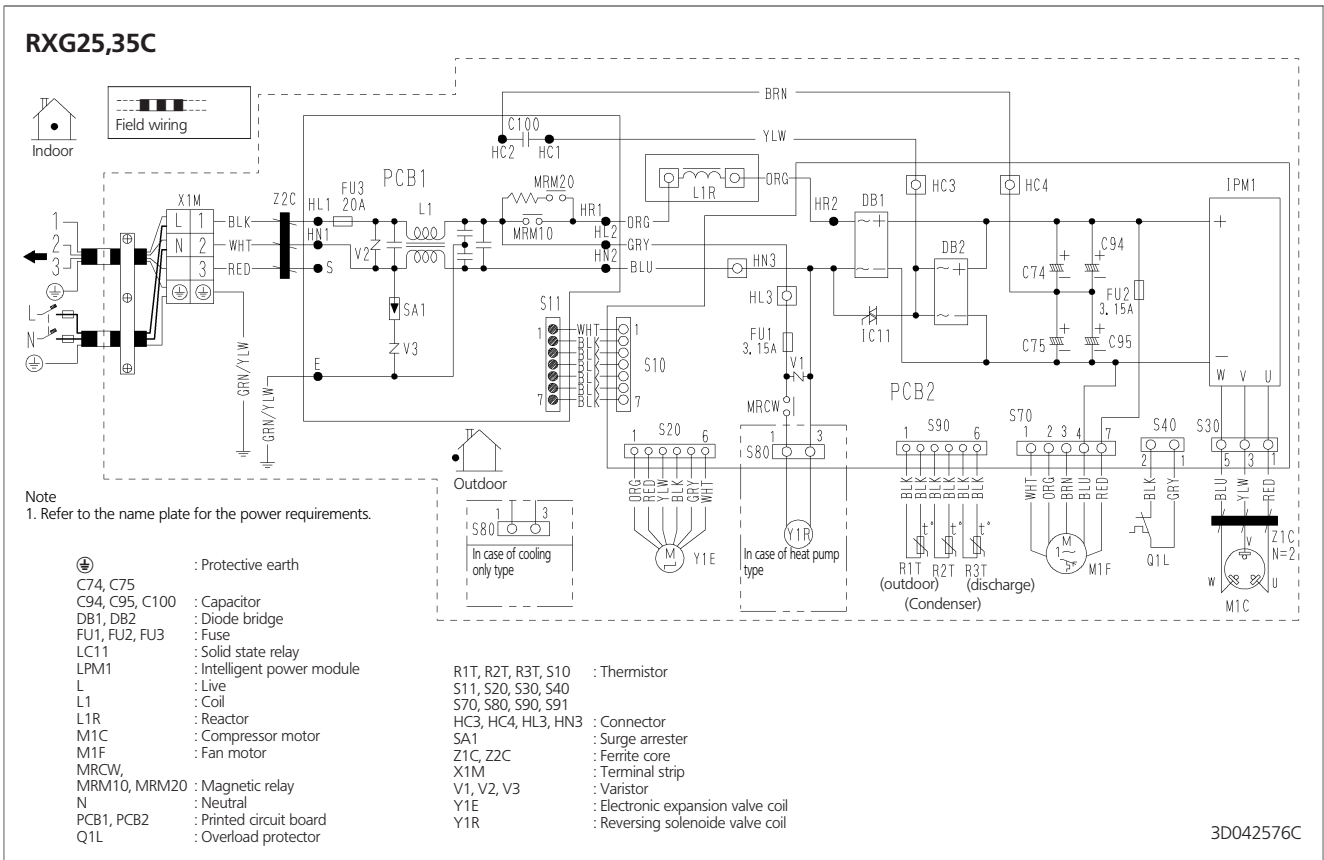


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# 7 Wiring diagrams



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# 8 Sound level

## 8-1 Sound level data

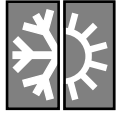
### 8 Cooling only / Heat pump:

8-1

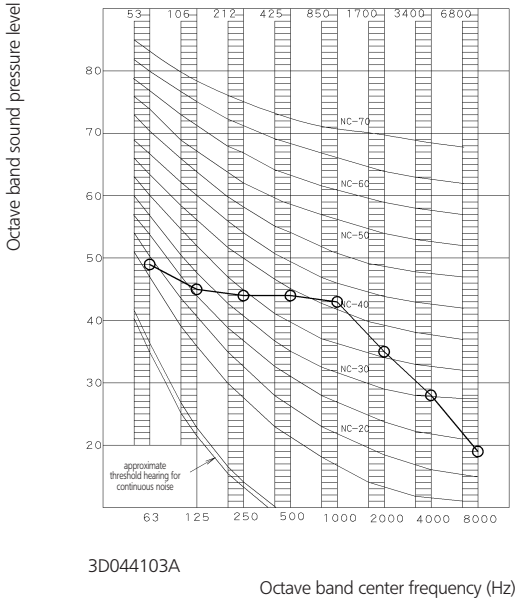
Model	Sound pressure level		Measuring location	Sound power level (Cooling)
	230V, 50Hz			
	Cooling (H/L)	Heating (H/L)		
RXG25CVMB	46/43	47/44		61
RXG35CVMB	47/44	48/45		62

# 8 Sound level

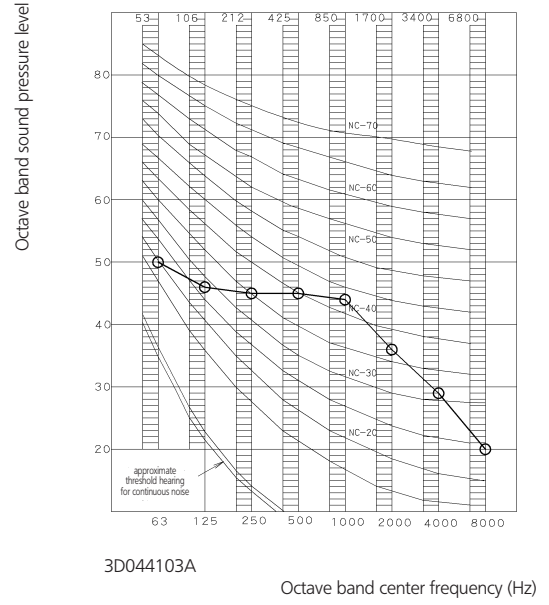
## 8-2 Sound pressure spectrum



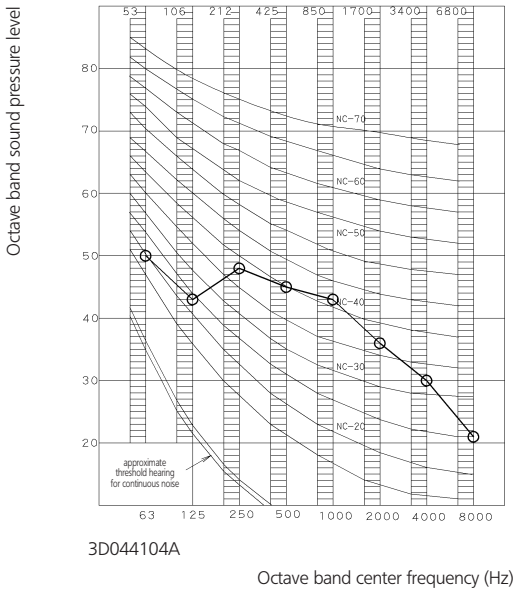
**RXG25C (Cooling)**



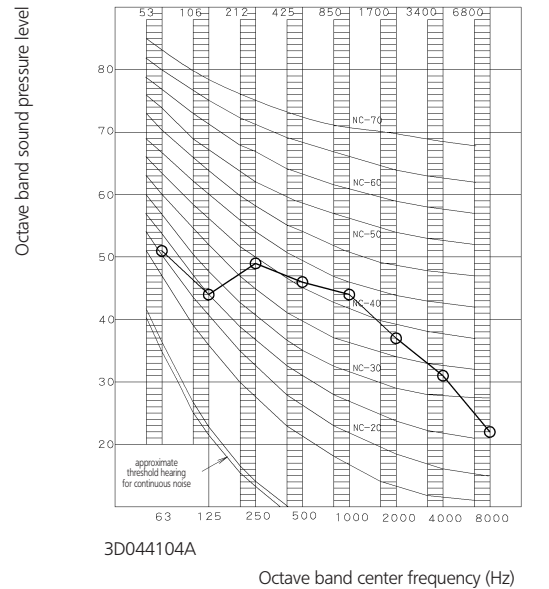
**RXG25C (Heating)**



**RXG35C (Cooling)**



**RXG35C (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



# 9 Accessories

## 9-1 Standard accessories

**9** **RXG-C**  
 9-1 See installation manual

## 9-2 Optional accessories

**RXG-C**

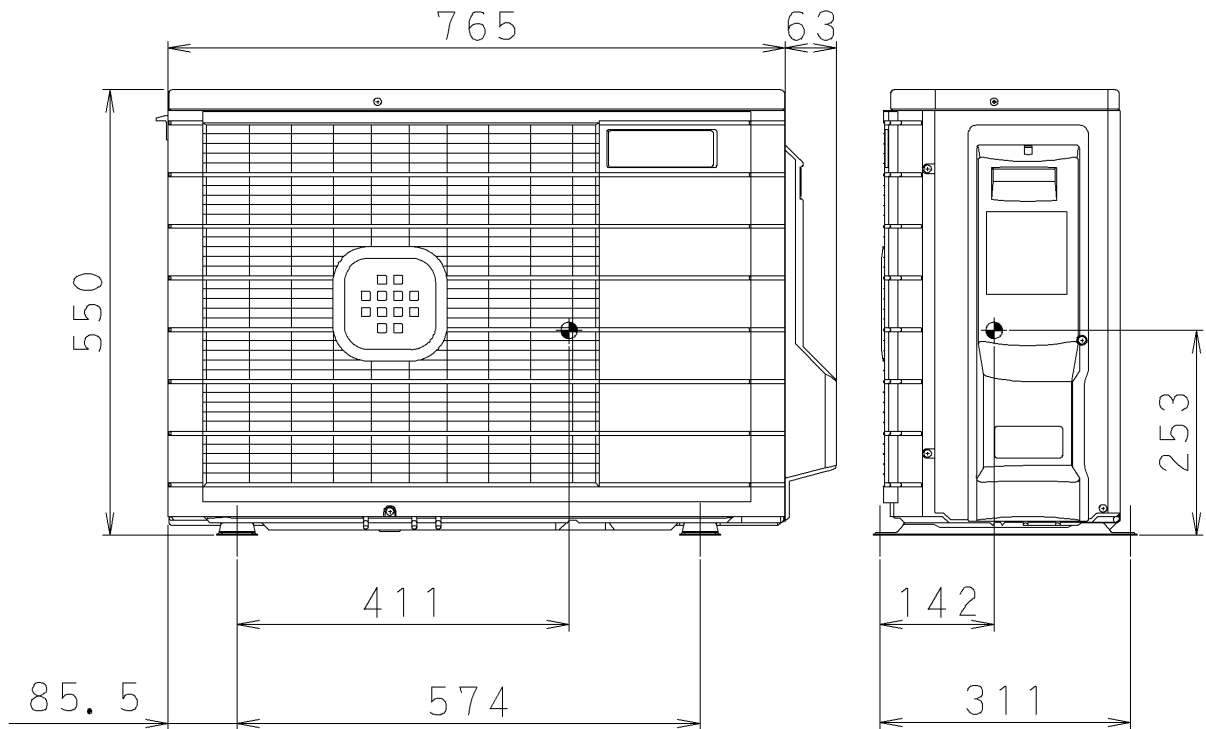
	RXG25CVMB	RXG35CVMB
Air direction adjustment grille	KPW937A4	

# 10 Center of gravity



RXG25,35C

10



# 11 Installation



11

RXG25,35C

## Outdoor unit installation drawings

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

