



Air Conditioners

Technical Data

SkyAir[®]

Outdoor units optimized for seasonal efficiency



www.daikin.eu

RZQG-L



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RZQG-L

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1 Features

- Seasonal efficiency gives an indication on how efficient an air conditioner operates over an entire heating or cooling season.
- The Sky Air® inverter is developed for use in light commercial applications, provides a more comfortable environment and offers great savings in energy consumption to shop, restaurant and office owners
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- A special acryl precoated fin for anti-corrosion treatment on the heat exchanger ensures greater resistance against severe weather conditions
- Outdoor units for pair application



2 Specifications

2-1 Nominal Capacity And Nominal Input				FHQG71CVEB / RZQG71LV1B	FHQG100CVEB / RZQG100LV1B	FHQG140CVEB / RZQG140LV1B
Cooling capacity	Nom.		kW	7.1 (3)	10.0 (3)	14.0 (3)
			Btu/h	24,200 (3)	34,100 (3)	47,800 (3)
			kcal/h	6,100 (3)	8,600 (3)	12,000 (3)
Heating capacity	Nom.		kW	8.0 (4)	11.2 (4)	16.0 (4)
			Btu/h	27,300 (4)	38,200 (4)	54,600 (4)
			kcal/h	6,900 (4)	9,600 (4)	13,800 (4)
Power input	Cooling	Nom.	kW	1.95	2.61	4.65
	Heating	Nom.	kW	2.05	2.67	4.42
EER				3.64	3.83	3.01
COP				3.90	4.19	3.62
SEER				4.41 (5)	4.53 (5)	3.66 (5)
Annual energy consumption			kWh	975	1,305	2,325
Energy label	Cooling			A		
	Heating			A		

2-1 Nominal Capacity And Nominal Input				FCQG71EVEB / RZQG71LV1B	FCQG100EVEB / RZQG100LV1B	FCQG140EVEB / RZQG140LV1B
Cooling capacity	Nom.		kW	7.1 (3)	10.0 (3)	14.0 (3)
			Btu/h	24,200 (3)	34,100 (3)	47,800 (3)
			kcal/h	6,100 (3)	8,600 (3)	12,000 (3)
Heating capacity	Nom.		kW	8.0 (4)	11.2 (4)	16 (4)
			Btu/h	27,300 (4)	38,200 (4)	54,600 (4)
			kcal/h	6,900 (4)	9,600 (4)	13,800 (4)
Power input	Cooling	Nom.	kW	1.85	2.47	4.36
	Heating	Nom.	kW	1.70	2.38	3.99
EER				3.84	4.05	3.21
COP				4.71		4.01
SEER				4.67 (5)	4.62 (5)	4.17 (5)
Annual energy consumption			kWh	925	1,235	2,180
Energy label	Cooling			A		
	Heating			A		

2-2 Technical Specifications				RZQG71LV1B	RZQG100LV1B	RZQG125LV1B	RZQG140LV1B
Capacity control step			%	100-0			
Casing	Colour			Ivory white			
Dimensions	Unit	Height	mm	990	1,430		
		Width	mm	940			
		Depth	mm	320			
Weight	Unit		kg	77	99		
Heat exchanger	Rows	Quantity		2			
	Fin pitch		mm	1.4			
	Face area		m ²	0.884	1.286		
	Stages	Quantity		44	64		
	Tube type			Cross fin coil (waffle fins and Hi-XSL tubes)			
Fan	Type			Propeller fan			
	Air flow rate	Cooling	High	m ³ /min	59	114	
Fan motor	Quantity			1	2		
	Model			P51J11F			
	Output		W	94			
Fan motor 2	Output		W	-	94		
Sound power level	Nom.		dBA	64	66	67	68
Sound pressure level	Cooling	Nom.	dBA	48	50	51	
	Heating	Nom.	dBA	50	52	53	
Compressor	Model			2YC63FXD#D	5VD420XAA21		
	Type			Hermetically sealed swing compressor	Hermetically sealed rotary compressor		
	Output		W	1.62	2.14	2.90	3.60

2 Specifications

2-2 Technical Specifications					RZQG71LV1B	RZQG100LV1B	RZQG125LV1B	RZQG140LV1B
Operation range	Cooling	Ambient	Min.	°CDB	-15			
			Max.	°CDB	50			
	Heating	Ambient	Min.	°CWB	-20			
			Max.	°CWB	15.5			
Refrigerant	Type				R-410A			
	Charge			kg	3.5	4.0		
	Control				Electronic expansion valve			
Refrigerant oil	Type				FVC50K	FV50S		
	Charged volume			l	0.9	1.3		
Piping connections	Liquid	OD		mm	9.52			
		Gas	Type			Flare connection		
	OD		mm	15.9				
	Drain	Type			Hole			
		OD		mm	26.0			
	Piping length	Max.	OU - IU	m	50	75		
		System	Equivalent	m	70	90		
Level difference	IU - OU	Max.	m	30				
Safety devices	Item	01			High pressure switch			
		02			Fuse			

2-3 Electrical Specifications					RZQG71LV1B	RZQG100LV1B	RZQG125LV1B	RZQG140LV1B
Power supply	Phase				1			
	Frequency			Hz	50			
	Voltage			V	220-240			

Notes

- 1 Energy label: scale from A (most efficient) to G (less efficient)
- 2 Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- 3 Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; 24°CWB; equivalent piping length: 5m (horizontal)
- 4 Heating: indoor temp. 20°CDB, 15°CWB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m (horizontal)
- 5 SEER: Pr-EN14825 - inquiry version 2010
- 6 All data mentioned is preliminary information

3 Electrical data

3 - 1 Electrical Data

RZQG-LV1B

Unit combination		Power supply				Comp		OFM		IFM		
Indoor	Outdoor	Hz - Volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	KW	FLA	KW	FLA
FCQG71EVEB	RZQG71LV1B	50 - 220 50 - 230 50 - 240	Max. 50Hz264V Min. 50Hz198V	18.1	-	20	-	15.6	0.094	0.4	0.048	0.4
FHQG71CVEB	RZQG71LV1B			18.6	-	20	-	15.6	0.094	0.4	0.091	0.8
FCQG100EVEB	RZQG100LV1B			28.8	-	32	-	24.2	0.094 +	0.4 +	0.106	1.0
FHQG100CVEB	RZQG100LV1B			29.0	-	32	-	24.2	0.094 +	0.4 +	0.150	1.2
FCQG125EVEB	RZQG125LV1B			28.9	-	32	-	24.2	0.094 +	0.4 +	0.106	1.1
FHQG125CVEB	RZQG125LV1B			29.5	-	32	-	24.2	0.094 +	0.4 +	0.150	1.6
FCQG140EVEB	RZQG140LV1B			28.9	-	32	-	24.2	0.094 +	0.4 +	0.106	1.1
FHQG140CVEB	RZQG140LV1B			29.8	-	32	-	24.2	0.094 +	0.4 +	0.150	1.8

SYMBOLS

MCA : Min. Circuit Amps. (A)
 TOCA : Total Over-current Amps. (A)
 MFA : Max. Fuse Amps (See note 7). (A)
 MSC : Max. current during the Starting Compressor. (A)
 RLA : Rated Load Amps. (A)
 OFM : Outdoor Fan Motor. (A)
 IFM : Indoor Fan Motor.
 FLA : Full Load Amps.
 KW : Fan Motor Rated Output. (kW)

NOTES

- RLA is based on the following conditions.
 Power supply: 50Hz 230V
 Cooling
 Indoor temp. 27.0 °C DB / 19.0 °C WB
 Outdoor temp. 35.0 °C DB
 Heating
 Indoor temp. 20.0 °C DB
 Outdoor temp. 7.0 °C DB / 6.0 °C WB
- TOCA means the total value of each OC set.
- Voltage range
 Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- Maximum allowable voltage variation between phases is 2%
- MCA represents maximum input current.
 MFA represents capacity which may accept MCA.
- Select wire size based on the larger value of MCA or TOCA.
- MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

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4 Options

4 - 1 Options

RZQG-LV1B

OPTIONS

NAME OF OPTION	KIT NAME
Central drain plug	KKPJ5G280
Demand adapter kit	KRP58M51

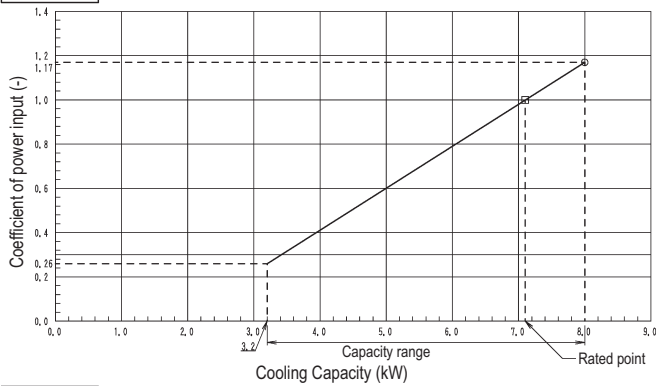
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5 Capacity tables

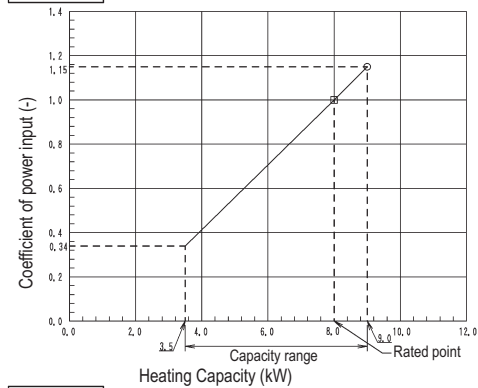
5 - 1 Cooling/Heating Capacity Tables

RZQG71LV1B

Cooling



Heating



Cooling

Indoor	Outdoor temperature (°C DB)												
	25		30		35		40						
EWB (°C)	EDB (°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	7.29	4.95	0.89	7.28	4.99	1.04	7.50	5.21	1.16	7.20	5.06	1.28
18.0	25	8.37	5.43	0.97	8.11	5.32	1.06	7.83	5.19	1.17	7.52	5.04	1.29
19.0	27	8.54	5.41	0.98	8.28	5.31	1.06	8.00	5.18	1.17	7.68	5.03	1.29
19.5	27	8.63	5.40	0.98	8.37	5.30	1.06	8.08	5.17	1.17	7.76	5.03	1.29
22.0	30	9.07	5.33	0.99	8.80	5.23	1.08	8.51	5.12	1.18	8.18	4.97	1.30
24.0	32	9.43	5.25	0.99	9.15	5.16	1.09	8.85	5.05	1.19	8.51	4.90	1.31

Heating

Indoor	Outdoor temperature (°C WB)											
	-15		-10		-5		0		6		10	
EDB (°C)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	5.14	0.87	5.68	0.92	6.22	0.96	6.75	1.01	9.02	1.06	9.72	1.12
18.0	5.14	0.90	5.67	0.95	6.21	1.00	6.74	1.05	9.01	1.10	9.70	1.16
20.0	5.13	0.94	5.67	0.99	6.20	1.04	6.73	1.09	9.00	1.15	9.69	1.21
21.0	5.13	0.96	5.66	1.01	6.20	1.06	6.73	1.11	9.00	1.17	9.69	1.23
22.0	5.12	0.98	5.66	1.03	6.19	1.08	6.73	1.13	8.99	1.20	9.68	1.25
24.0	5.12	1.01	5.65	1.07	6.19	1.12	6.72	1.17	8.98	1.24	9.66	1.30

Symbols

- AFR: Air flow rate (m³/min.)
- BF: Bypass factor
- EWB: Entering wet bulb temp. (°C WB)
- EDB: Entering dry bulb temp. (°C DB)
- TC: Total cooling (heating) capacity (kW)
- SHC: Sensible heat capacity (kW)
- PI: Power input (kW)
- (Comp. + indoor + outdoor fan motor).
- CPI: Coefficient of power input. (-)

Caution:

TC and SHC are shown by kW.

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ shows the max. Onces at standard conditions.
On the figure the mark with □ shows rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed except at standard condition.
- SHC* is based on each EWB and EDB.
SHC = SHC correction for other dry bulb.
= 0.02 x AFR (m³/min.) x (1 - BF) x (DB* - EDB)
Add SHC to SHC*.
- Capacities are based on the following conditions.
Outdoor air: 85% RH. However, the condition rated capacity is 7°C DB/6°C WB. (heating)
Corresponding refrigerant piping length: 5.0m
Level difference: 0m
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are tabulated below.

(Pair)	FCQG71E	FCQG71C
AFR	21.5	20.5
(BF)	(0.14)	(0.13)

- Rated power input of each model is tabulated below.

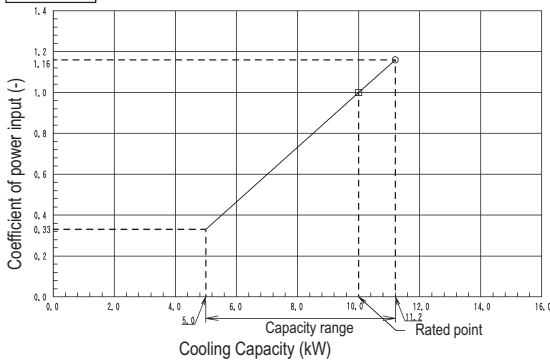
(Pair)	FCQG71E	FCQG71C
Cooling	1.85	1.95
Heating	1.70	2.05

5 Capacity tables

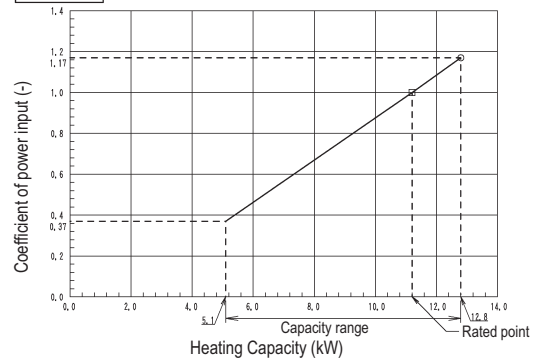
5 - 1 Cooling/Heating Capacity Tables

RZQG100LV1B

Cooling



Heating



Cooling

Indoor		Outdoor temperature (°C DB)											
EWB (°C)	EDB (°C)	25			30			35			40		
		TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	10.2	6.93	0.88	10.2	7.00	1.03	10.5	7.29	1.15	10.1	7.08	1.26
18.0	25	11.8	7.59	0.96	11.3	7.45	1.06	11.0	7.27	1.16	10.5	7.06	1.28
19.0	27	12.0	7.57	0.97	11.6	7.43	1.06	11.2	7.26	1.16	10.8	7.04	1.28
19.5	27	12.1	7.56	0.97	11.8	7.41	1.06	11.3	7.25	1.16	10.9	7.03	1.28
22.0	30	12.7	7.46	0.99	12.3	7.32	1.07	11.9	7.16	1.17	11.4	6.96	1.29
24.0	32	13.2	7.36	0.99	12.8	7.22	1.08	12.4	7.06	1.18	11.9	6.87	1.30

Heating

Indoor		Outdoor temperature (°C WB)											
EDB (°C)	TC (kW)	-15		-10		-5		0		6		10	
		TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	7.16	0.88	7.91	0.94	8.66	0.98	9.41	1.02	12.8	1.08	13.8	1.13	
18.0	7.15	0.92	7.90	0.97	8.65	1.02	9.39	1.07	12.8	1.12	13.8	1.18	
20.0	7.15	0.95	7.89	1.01	8.64	1.06	9.38	1.11	12.8	1.17	13.8	1.23	
21.0	7.14	0.98	7.89	1.02	8.63	1.08	9.38	1.13	12.8	1.19	13.8	1.25	
22.0	7.14	1.00	7.88	1.05	8.63	1.10	9.37	1.16	12.8	1.22	13.7	1.28	
24.0	7.13	1.03	7.87	1.09	8.62	1.14	9.36	1.19	12.8	1.26	13.7	1.32	

Symbols

- AFR: Air flow rate (m³/min.)
- BF: Bypass factor
- EWB: Entering wet bulb temp. (°C WB)
- EDB: Entering dry bulb temp. (°C DB)
- TC: Total cooling (heating) capacity (kW)
- SHC: Sensible heat capacity (kW)
- PI: Power input (kW)
(Comp. + indoor + outdoor fan motor).
- CPI: Coefficient of power input. (-)

Caution:

TC and SHC are shown by kW.

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark with ○ shows the max. Onces at standard conditions.
On the figure the mark with □ shows rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed except at standard condition.
3. SHC* is based on each EWB and EDB.
SHC =SHC correction for other dry bulb.
=0.02xAFR (m³/min.) x (1-BF) x (DB* - EDB)
Add SHC to SHC*.
4. Capacities are based on the following conditions.
Outdoor air: 85% RH. However, the condition rated capacity is 7°C DB/6°C WB. (heating)
Corresponding refrigerant piping length: 5.0m
Level difference: 0m
5. Coefficient of power input is the percentage when the rated value is defined as 1.00.
6. The value contains less than 5% error according to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and (BF) are tabulated below.

(Pair)

	FCQG100E	FCQG100C
AFR (BF)	32 (0.17)	28 (0.09)

9. Rated power input of each model is tabulated below.

(Pair)

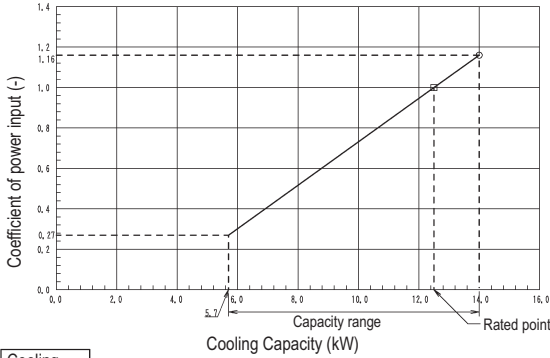
	FCQG100E	FCQG100C
Cooling	2.47	2.61
Heating	2.38	2.67

5 Capacity tables

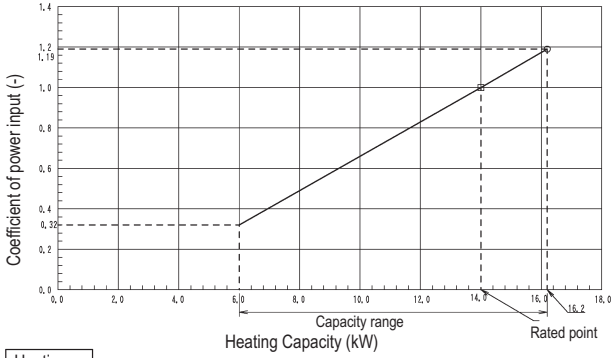
5 - 1 Cooling/Heating Capacity Tables

RZQG125LV1B

Cooling



Heating



Cooling

Indoor	Outdoor temperature (°C DB)												
	25			30			35			40			
EWB (°C)	EDB (°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	12.8	8.66	0.88	12.8	8.75	1.03	13.1	9.12	1.15	12.7	8.85	1.26
18.0	25	14.7	9.50	0.96	14.2	9.32	1.06	13.7	9.09	1.16	13.2	8.83	1.28
19.0	27	14.9	9.46	0.97	14.4	9.28	1.06	14.0	9.06	1.16	13.4	8.80	1.28
19.5	27	15.1	9.45	0.97	14.7	9.27	1.06	14.1	9.05	1.16	13.6	8.79	1.28
22.0	30	15.9	9.33	0.99	15.5	9.16	1.07	14.9	8.95	1.17	14.3	8.69	1.29
24.0	32	16.5	9.20	0.99	16.0	9.03	1.08	15.5	8.83	1.18	14.9	8.59	1.30

Heating

Indoor	Outdoor temperature (°C WB)											
	-15		-10		-5		0		6		10	
EWB (°C)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	8.83	0.90	9.76	0.95	10.7	0.99	11.6	1.04	16.2	1.09	17.5	1.15
18.0	8.82	0.94	9.74	0.98	10.7	1.04	11.6	1.09	16.2	1.14	17.5	1.20
20.0	8.81	0.98	9.73	1.03	10.7	1.08	11.6	1.13	16.2	1.19	17.5	1.25
21.0	8.81	0.99	9.73	1.04	10.6	1.10	11.6	1.15	16.2	1.21	17.5	1.27
22.0	8.80	1.01	9.72	1.06	10.6	1.12	11.6	1.17	16.2	1.24	17.5	1.30
24.0	8.79	1.04	9.71	1.10	10.6	1.16	11.5	1.22	16.2	1.29	17.4	1.34

Symbols

- AFR: Air flow rate (m³/min.)
- BF: Bypass factor
- EWB: Entering wet bulb temp. (°C WB)
- EDB: Entering dry bulb temp. (°C DB)
- TC: Total cooling (heating) capacity (kW)
- SHC: Sensible heat capacity (kW)
- PI: Power input (kW)
- (Comp. + indoor + outdoor fan motor).
- CPI: Coefficient of power input. (-)

Caution:

TC and SHC are shown by kW.

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ shows the max. Onces at standard conditions.
On the figure the mark with □ shows rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed except at standard condition.
- SHC* is based on each EWB and EDB.
SHC = SHC correction for other dry bulb.
= 0.02 x AFR (m³/min.) x (1 - BF) x (DB* - EDB)
Add SHC to SHC*.
- Capacities are based on the following conditions.
Outdoor air: 85% RH. However, the condition rated capacity is 7°C DB/6°C WB. (heating)
Corresponding refrigerant piping length: 5.0m
Level difference: 0m
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are tabulated below.

	FCQG125E	FCQG125C
AFR	33	31
(BF)	(0.21)	(0.14)

- Rated power input of each model is tabulated below.

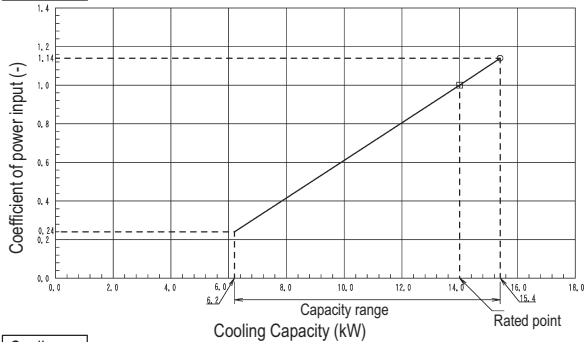
	FCQG125E	FCQG125C
Cooling	3.61	3.87
Heating	3.30	3.72

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

RZQG140LV1B

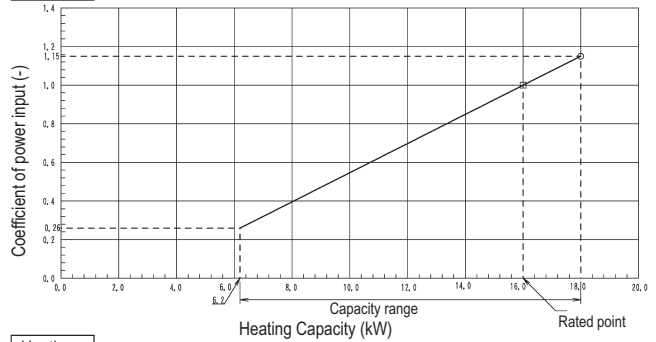
Cooling



Cooling

Indoor EWB (°C)	EDB (°C)	Outdoor temperature (°C DB)											
		25			30			35			40		
		TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	14.1	9.53	0.87	14.0	9.61	1.01	14.4	10.0	1.13	13.9	9.72	1.24
18.0	25	16.1	10.5	0.95	15.6	10.2	1.04	15.1	10.0	1.14	14.5	9.70	1.25
19.0	27	16.5	10.4	0.96	16.0	10.2	1.04	15.4	9.98	1.14	14.7	9.68	1.25
19.5	27	16.6	10.4	0.96	16.2	10.2	1.04	15.5	9.96	1.14	15.0	9.67	1.25
22.0	30	17.5	10.3	0.97	16.9	10.1	1.05	16.4	9.85	1.15	15.7	9.56	1.27
24.0	32	18.2	10.1	0.97	17.6	9.93	1.06	17.1	9.71	1.16	16.4	9.45	1.28

Heating



Heating

Indoor EDB (°C)	Outdoor temperature (°C WB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	9.82	0.87	10.8	0.92	11.9	0.96	12.9	1.01	18.0	1.06	19.5	1.12
18.0	9.80	0.91	10.8	0.95	11.8	1.00	12.9	1.05	18.0	1.10	19.4	1.16
20.0	9.79	0.94	10.8	0.99	11.8	1.04	12.9	1.09	18.0	1.15	19.4	1.21
21.0	9.79	0.96	10.8	1.01	11.8	1.06	12.8	1.11	18.0	1.17	19.4	1.23
22.0	9.78	0.98	10.8	1.03	11.8	1.08	12.8	1.13	18.0	1.20	19.4	1.25
24.0	9.77	1.01	10.8	1.07	11.8	1.12	12.8	1.18	18.0	1.24	19.4	1.30

Symbols

- AFR: Air flow rate (m³/min.)
- BF: Bypass factor
- EWB: Entering wet bulb temp. (°C WB)
- EDB: Entering dry bulb temp. (°C DB)
- TC: Total cooling (heating) capacity
- SHC: Sensible heat capacity (kW)
- PI: Power input (kW)
- (Comp. + indoor + outdoor fan motor).
- CPI: Coefficient of power input. (-)

Caution:

TC and SHC are shown by kW.

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ shows the max. Onces at standard conditions.
On the figure the mark with □ shows rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed except at standard condition.
- SHC* is based on each EWB and EDB.
SHC =SHC correction for other dry bulb.
=0.02xAFR (m³/min.) x (1-BF) x (DB* - EDB)
Add SHC to SHC*.
- Capacities are based on the following conditions.
Outdoor air: 85% RH. However, the condition rated capacity is 7°C DB/6°C WB. (heating)
Corresponding refrigerant piping length: 5.0m
Level difference: 0m
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are tabulated below.

(Pair)

	FCQG140E	FCQG140C
AFR	33	34
(BF)	(0.23)	(0.17)

- Rated power input of each model is tabulated below.

(Pair)

	FCQG140E	FCQG140C
Cooling	4.36	4.65
Heating	3.99	4.42

6 Dimensional drawings

6 - 1 Dimensional Drawings

RZQG71LV1B

Hole for anchor bolt 4-M12

Nr	Name	Description
1	Gas pipe connection	Ø 15.9 Flare
2	Liquid pipe connection	Ø 9.5 Flare
3	Service port	
4	Earth terminal	M5 (in control box)
5	Refrigerant piping intake	
6	Power supply wiring intake	Ø 34 knock hole
7	Wiring between unit intake	Ø 27 knock hole
8	Drain outlet	outside diameter Ø 26.5 portion
9	Drain port	Ø 22 knock hole

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RZQG100-140LV1B

Hole for anchor bolt 4-M12

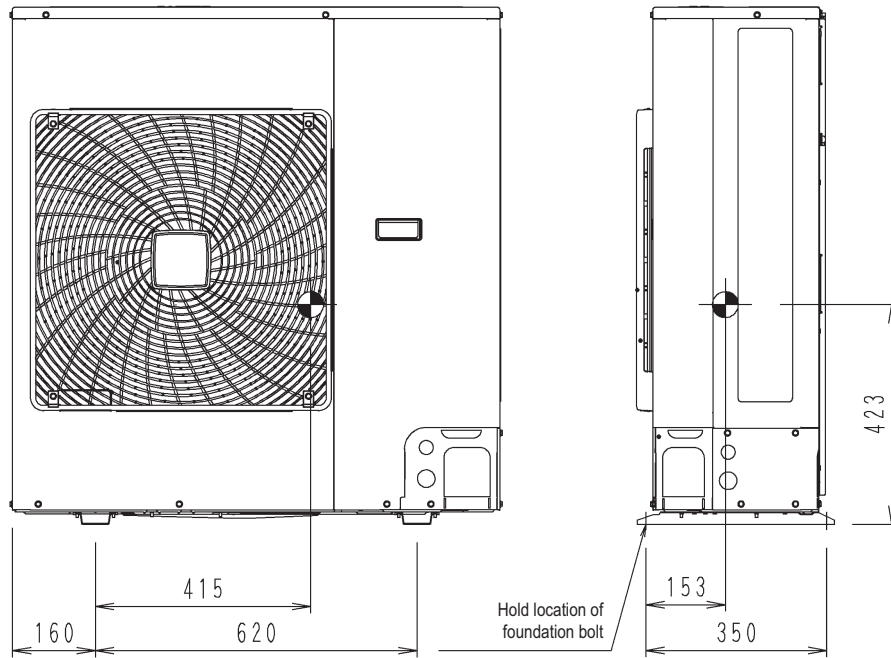
Nr	Name	Description
1	Gas pipe connection	Ø 15.9 Flare
2	Liquid pipe connection	Ø 9.5 Flare
3	Service port	
4	Earth terminal	M5 (in control box)
5	Refrigerant piping intake	
6	Power supply wiring intake	Ø 34 knock hole
7	Wiring between unit intake	Ø 27 knock hole
8	Drain outlet	outside diameter Ø 26.5 portion
9	Drain port	Ø 22 knock hole

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7 Centre of gravity

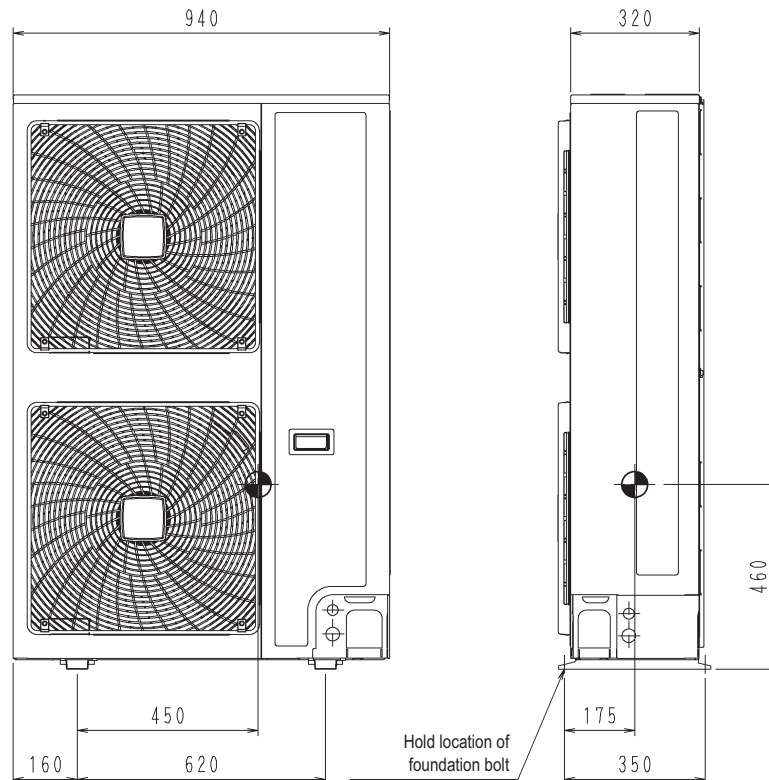
7 - 1 Centre of Gravity

RZQG71LV1B



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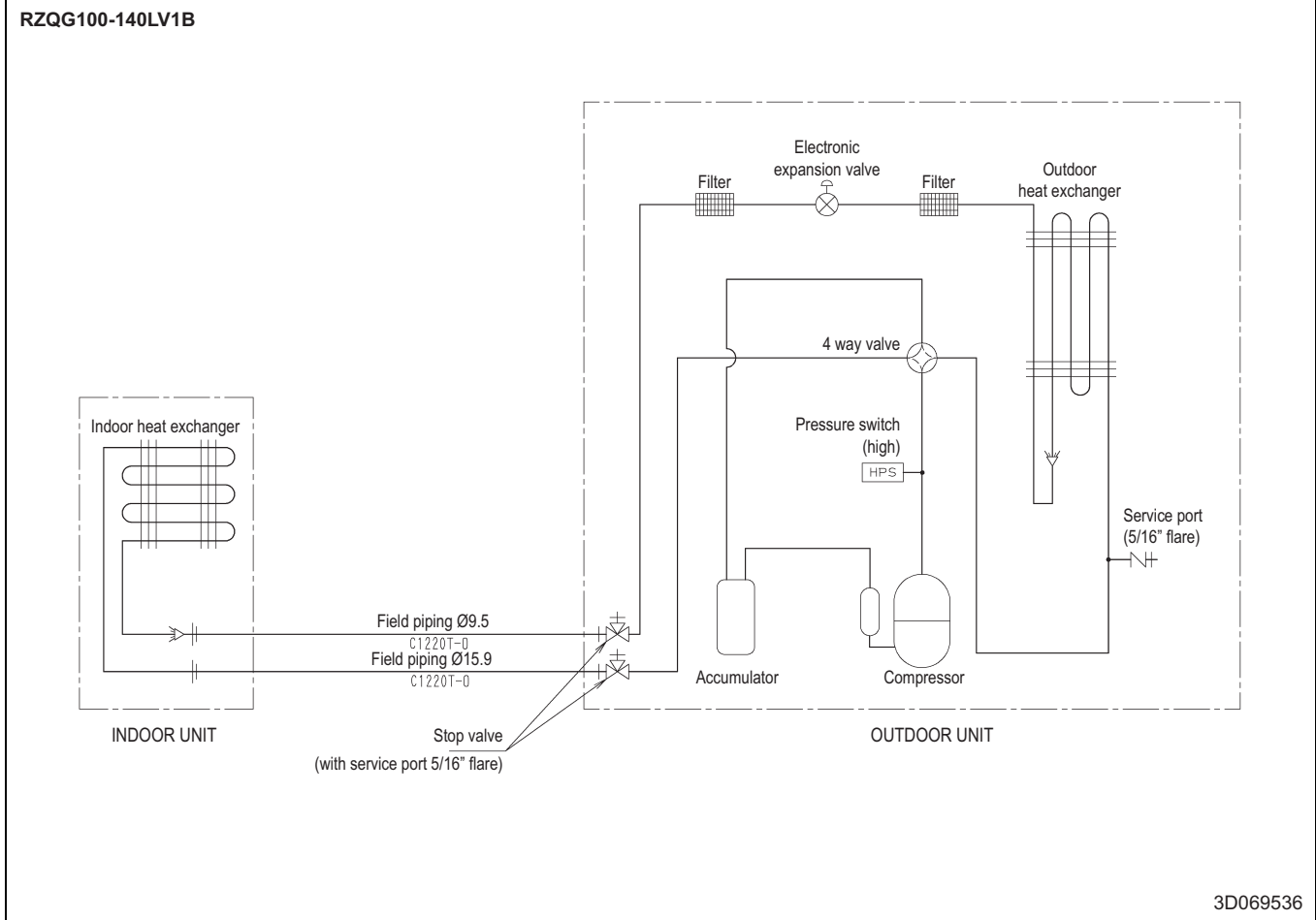
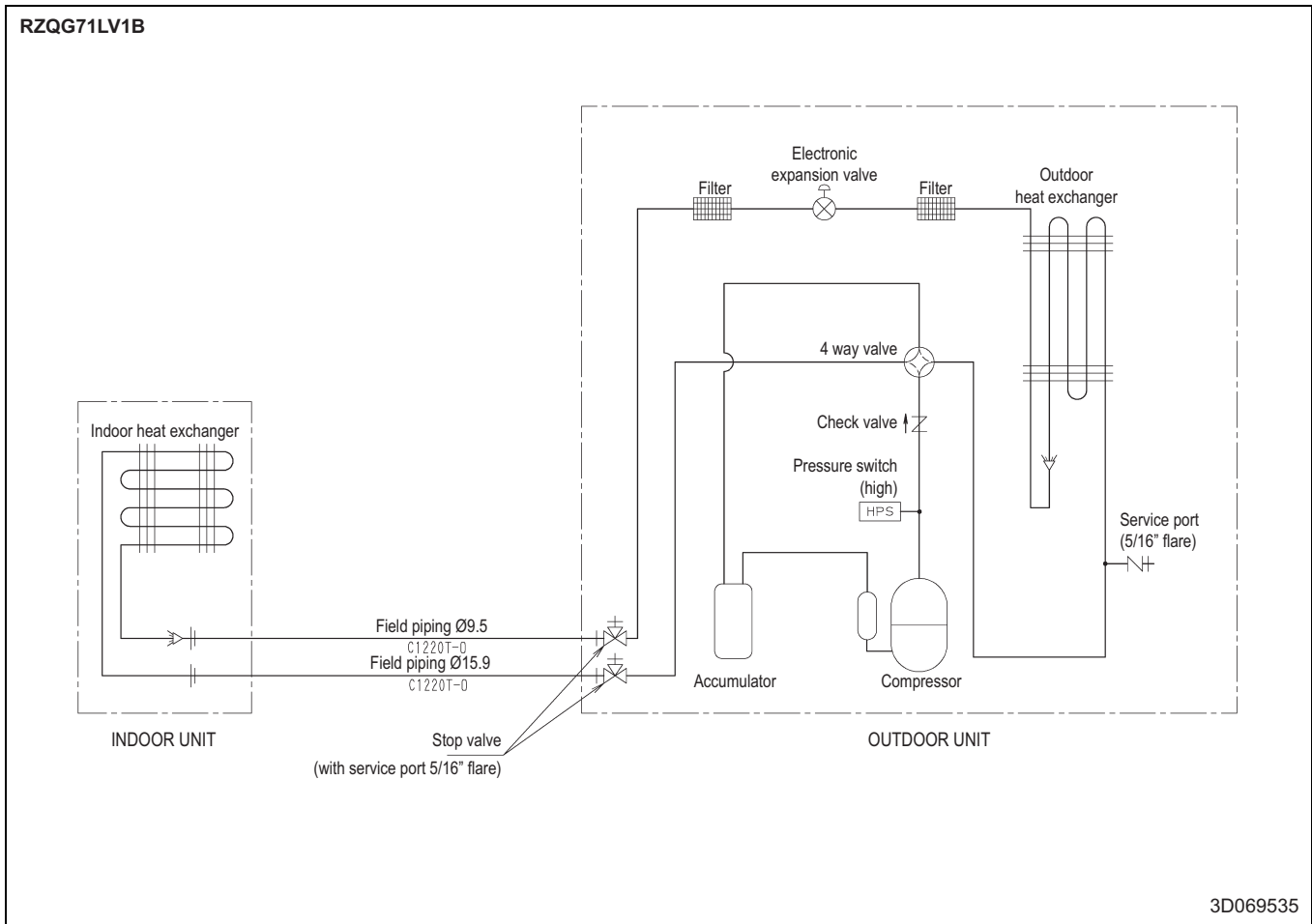
RZQG100-140LV1B



4D069556

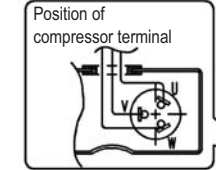
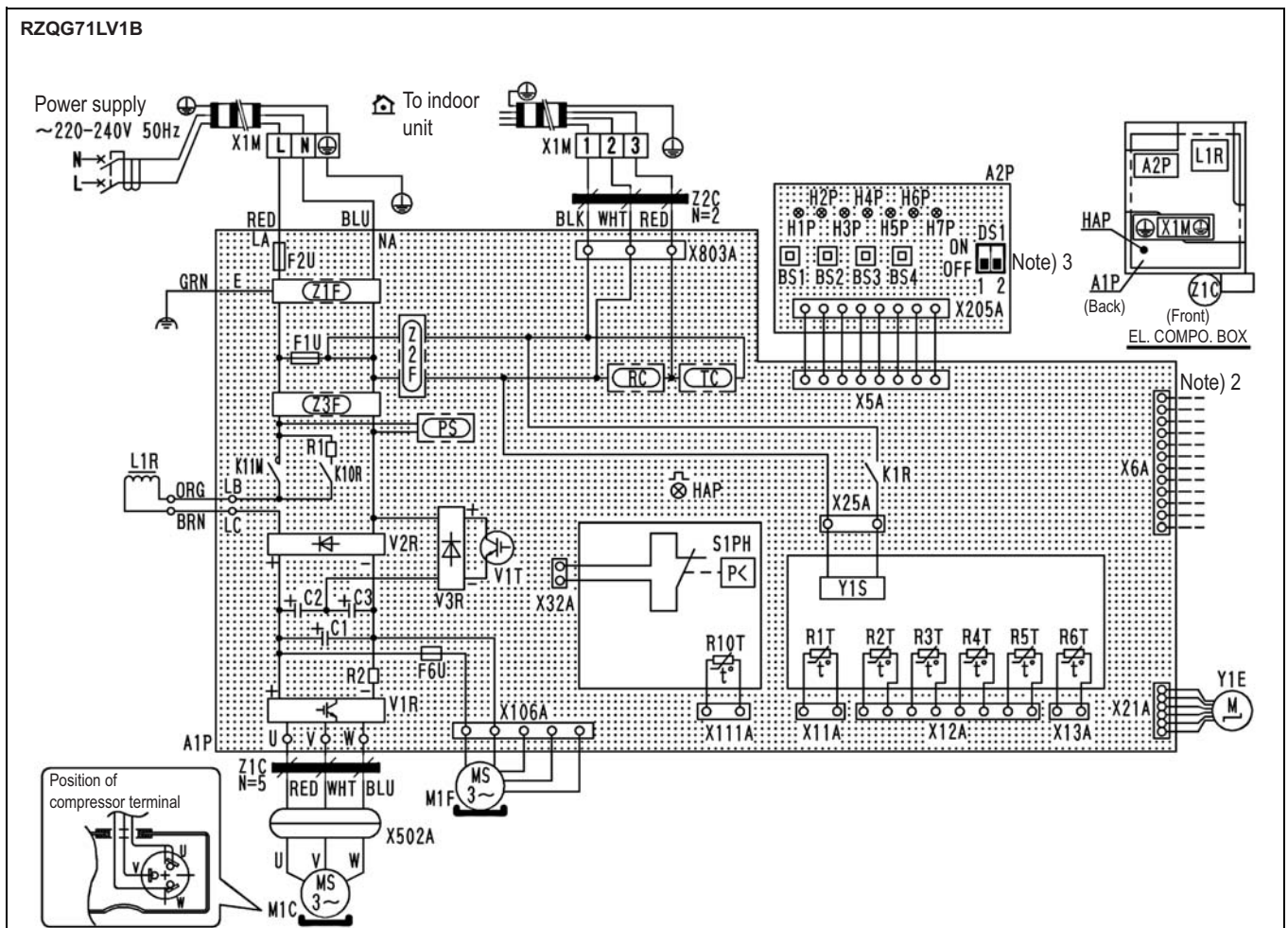
8 Piping diagrams

8 - 1 Piping Diagrams



9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase



A1P	Printed circuit board	L1R	Reactor	RC	Signal receiver circuit
A2P	Printed circuit board	M1C	Motor (compressor)	S1PH	High pressure switch
BS1-BS4	Push button switch	M1F	Motor (fan)	TC	Signal transmission circuit
C1-C3	Capacitor	PS	Switching power supply	V1R	IGBT power module
DS1	Dip switch	R1	Resistor	V2R, V3R	Diode bridge
F1U	Fuse (T, 6, 3A, 250V)	R2	Resistor	V1T	IGBT
F2U	Fuse	R1T	Thermistor (air)	X1M	Terminal block
F6U	Fuse (T, 3, 15A, 250V)	R2T	Thermistor (discharge)	Y1E	Electric expansion valve
H1P-H7P	Pilot lamp (service monitor-orange)	R3T	Thermistor (suction)	Y1S	Solenoid valve (4 way valve)
HAP	Flashing lamp (service monitor-green)	R4T	Thermistor (coil)	Z1C, Z2C	Noise filter (ferrite core)
K11M	Magnetic contactor	R5T	Thermistor (coil middle)	Z1F-Z3F	Noise filter
K1R	Magnetic relay (Y1S)	R6T	Thermistor (liquid)		
K10R	Magnetic relay	R10T	Thermistor (fin)		

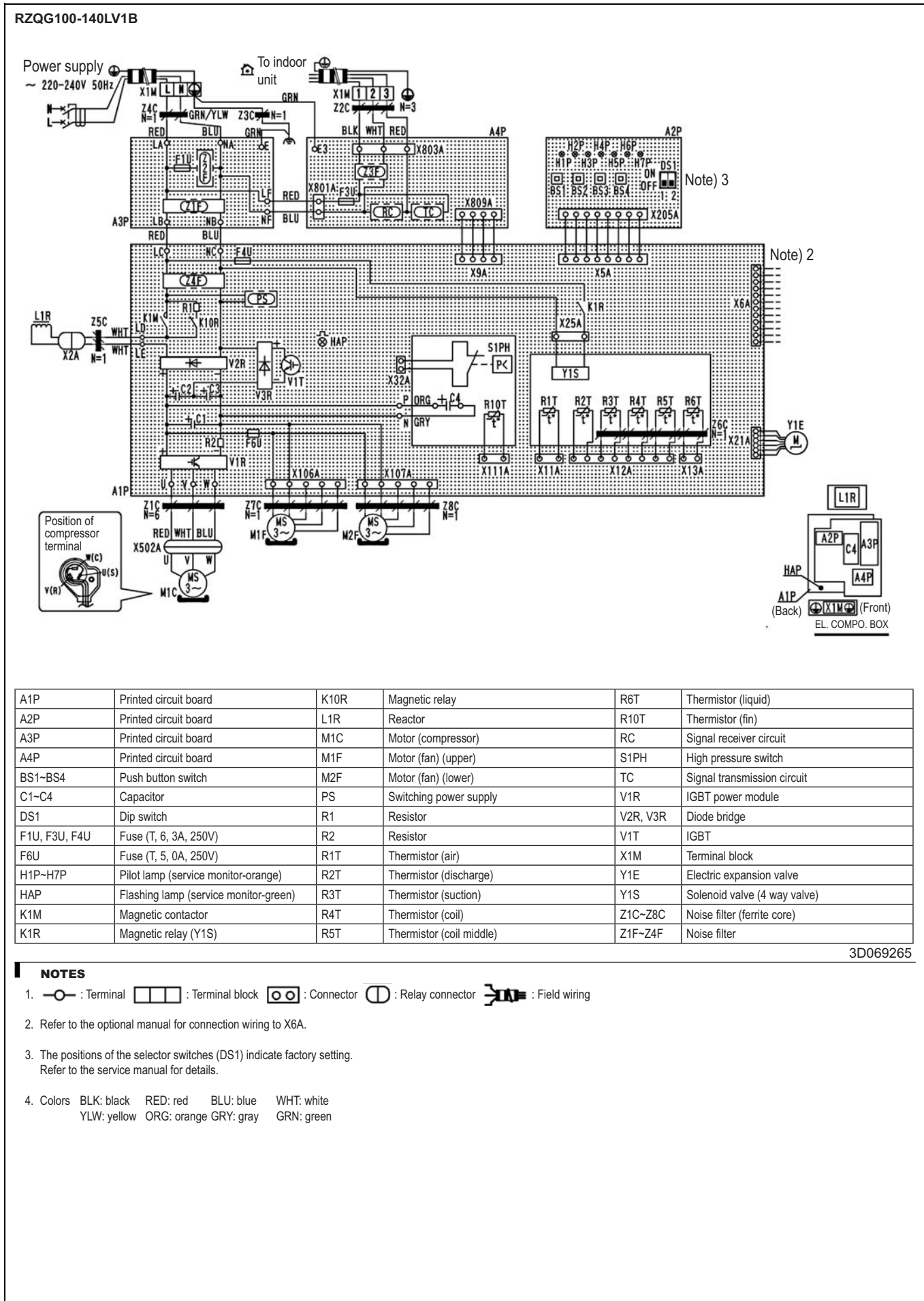
3D068608

NOTES

- Terminal : Terminal block : Connector : Relay connector : Field wiring
- Refer to the optional manual for connection wiring to X6A.
- The positions of the selector switches (DS1) indicate factory setting. Refer to the service manual for details.
- Colors BLK: black RED: red BLU: blue WHT: white
YLW: yellow ORG: orange GRY: gray GRN: green

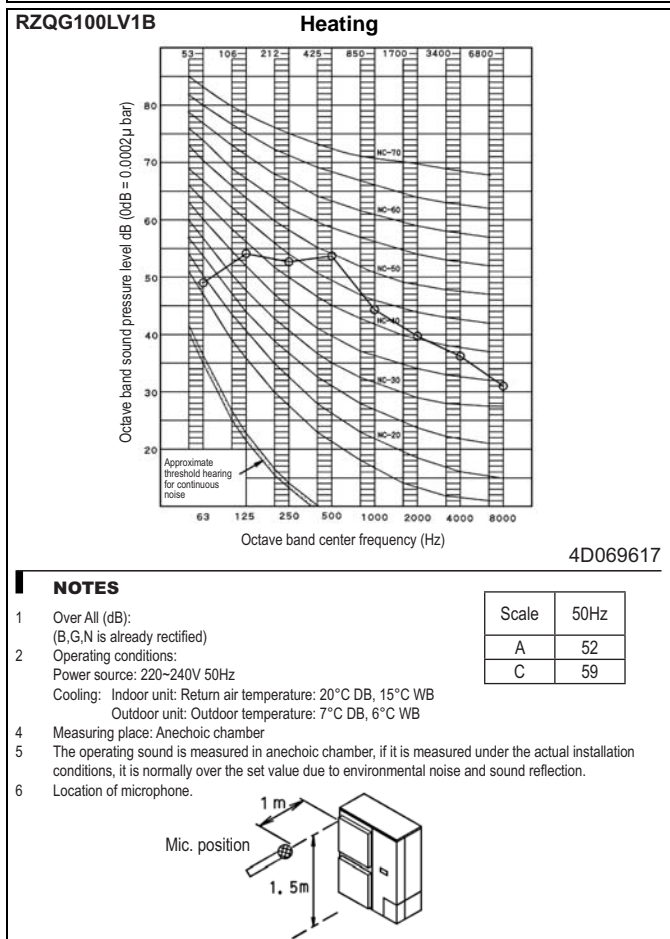
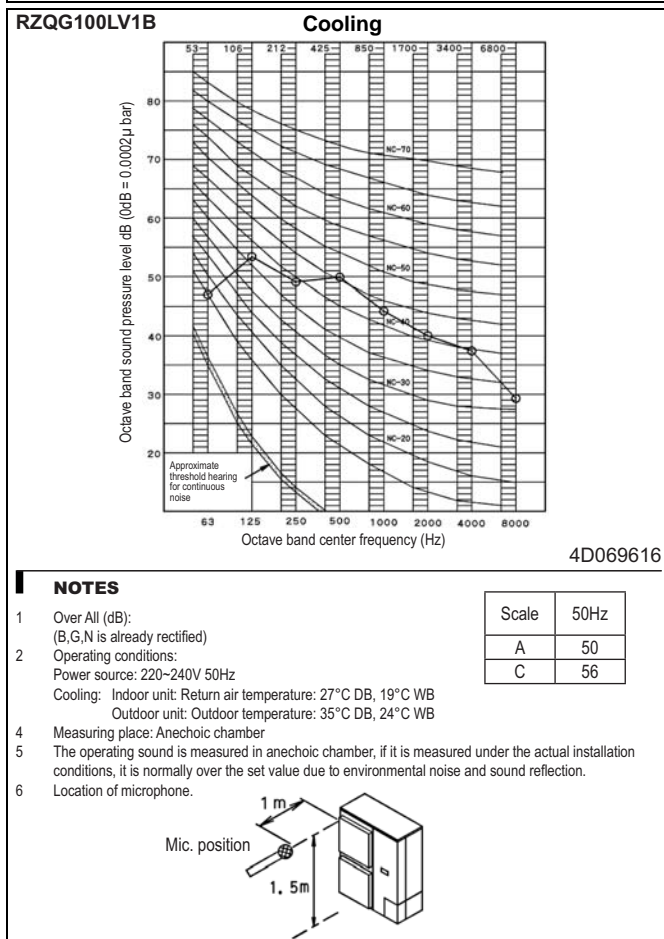
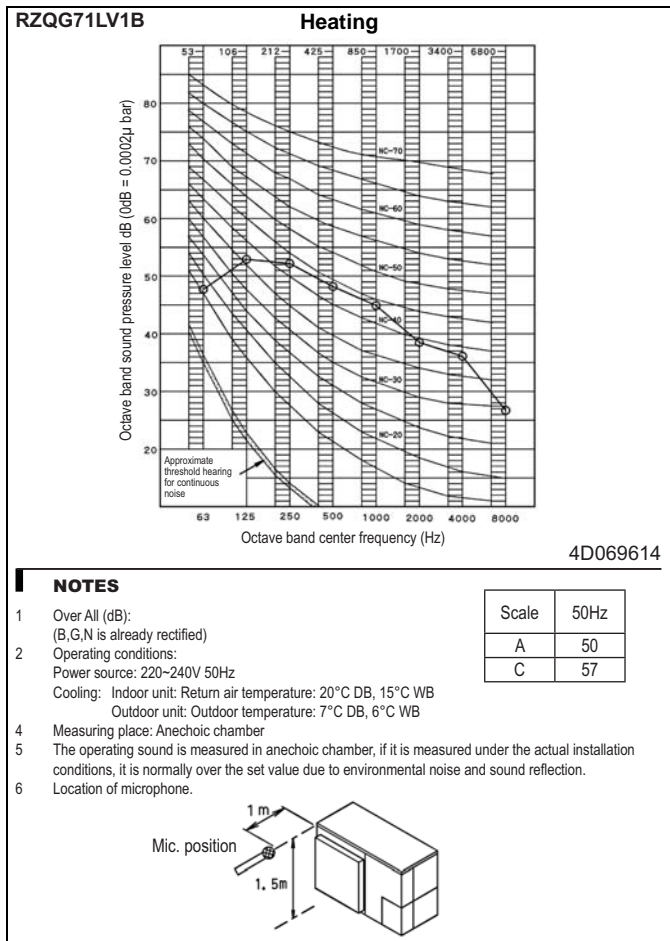
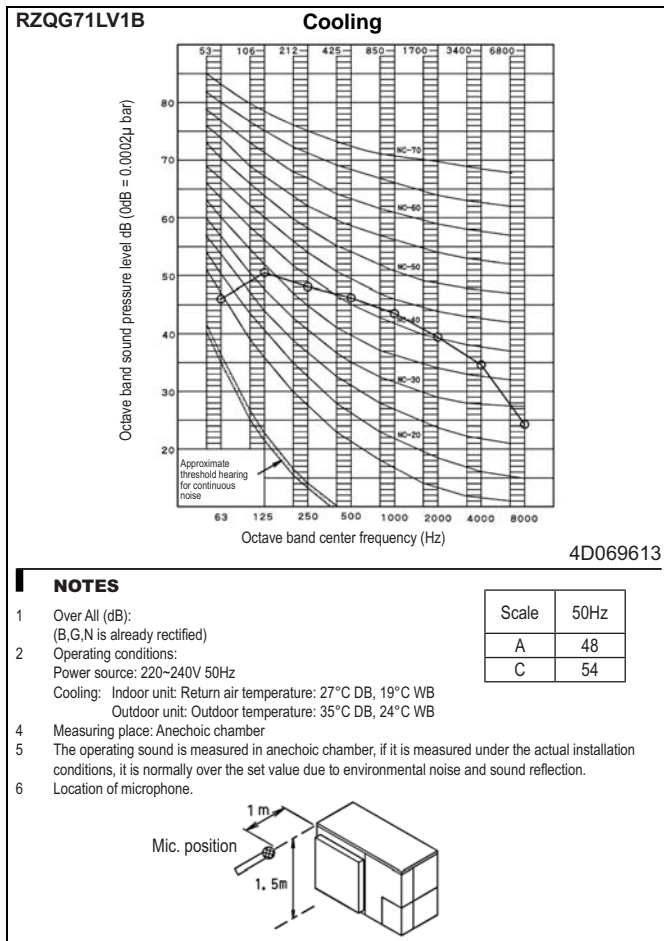
9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase



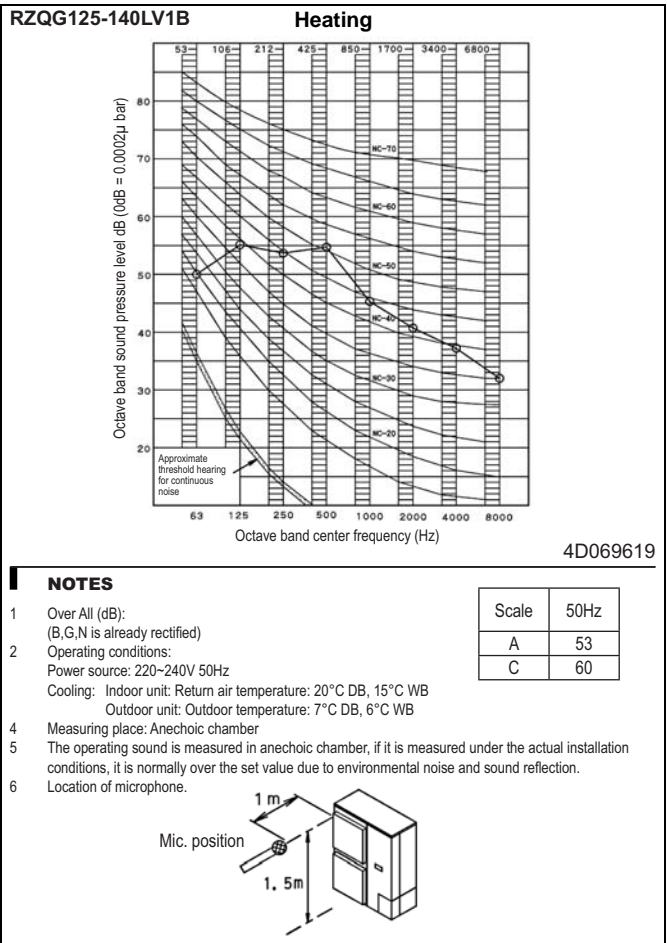
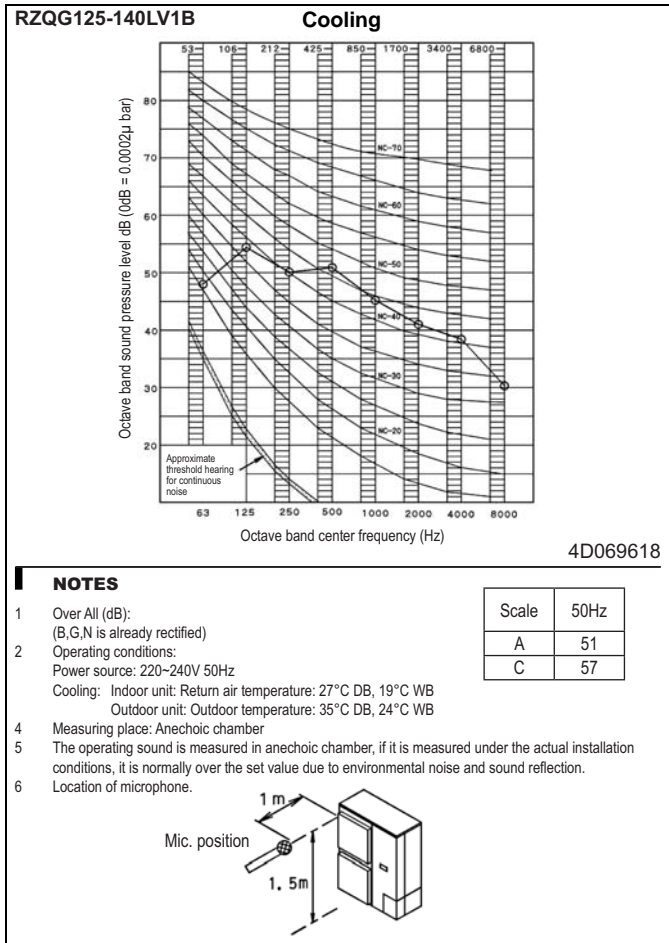
10 Sound data

10 - 1 Sound Pressure Spectrum



10 Sound data

10 - 1 Sound Pressure Spectrum



11 Installation

11 - 1 Installation Method

RZQG-LV1B

Installation service space

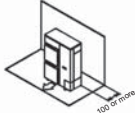
(The measure of these values is 'mm')

(A) When there are obstacles on suction sides

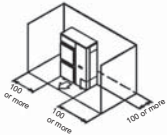
- No obstacle above

① Stand-alone installation

- Obstacle on the suction side only

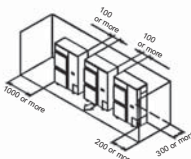


- Obstacle on both sides and suction side, too



② Series installation (2 or more)(Note 1)

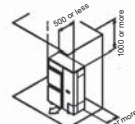
- Obstacle on the suction side and both sides



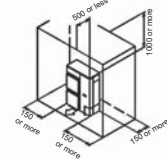
- Obstacle above, too

① Stand-alone installation

- Obstacle on the suction side, too

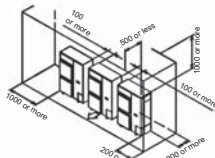


- Obstacle on both sides and suction side, too



② Series installation (2 or more)(Note 1)

- Obstacle on the suction side and both sides

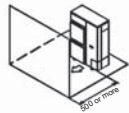


(B) When there are obstacles on discharge sides

- No obstacle above

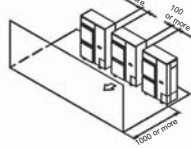
① Stand-alone installation

- Obstacle on the discharge side only



② Series installation (2 or more)(Note 1)

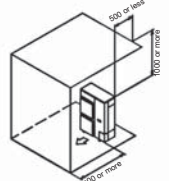
- Obstacle on the discharge side only



- Obstacle above, too

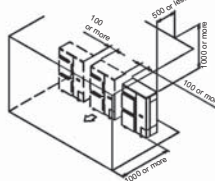
① Stand-alone installation

- Obstacle on the discharge side only, too



② Series installation (2 or more)(Note 1)

- Obstacle on the discharge side



(C) When there are obstacles on both suction and discharge sides

Pattern 1

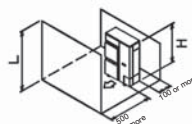
When the obstacles on the discharge side is higher than the unit ($L > H$)

(There is no limit for the height of obstructions on the suction side)

- No obstacle above

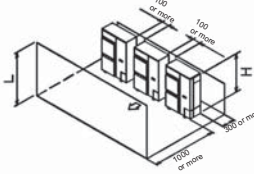
① Stand-alone installation

- No obstacle above



② Series installation (2 or more)(Note 1)

- No obstacle above



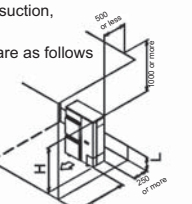
- Obstacle above, too

① Stand-alone installation (Note 2)

- When there are obstacles on suction, discharge and top sides

The relations between H, A and L are as follows

	L	A
$L \leq 1/2H$	750 or more	
$1/2H < L \leq H$	1000 or more	
$L > H$	Set the stand as: LSH Refer to the column of LSH for A	



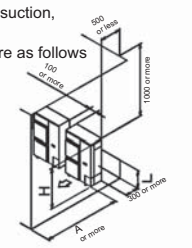
② Series installation (2 or more)(Note 1, Note 2)

- When there are obstacles on suction, discharge and top sides

The relations between H, A and L are as follows

	L	A
$L \leq 1/2H$	1000 or more	
$1/2H < L \leq H$	1250 or more	
$L > H$	Set the stand as: LSH Refer to the column of LSH for A	

Limit of series installation is 2 unit



Pattern 2

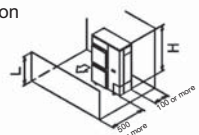
When the obstacle on the discharge side is lower than the unit ($L \leq H$)

(There is no limit for the height of obstructions on the suction side)

- No obstacle above

① Stand-alone installation

- No obstacle above

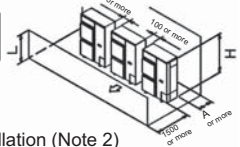


② Series installation (2 or more)(Note 1)

- When there are obstacles on both suction and discharge sides

The relations between H, A and L are as follows

	L	A
$L \leq 1/2H$	250 or more	
$1/2H < L \leq H$	300 or more	



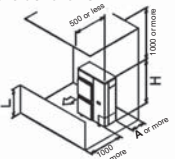
- Obstacle above, too

① Stand-alone installation (Note 2)

- When there are obstacles on suction, discharge and top sides

The relations between H, A and L are as follows

	L	A
$L \leq 1/2H$	100 or more	
$1/2H < L \leq H$	200 or more	
$L > H$	Set the stand as: LSH Refer to the column of LSH for A	

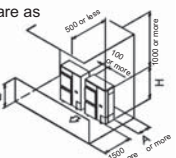


② Series installation (2 or more)(Note 1, Note 2)

- When there are obstacles on suction, discharge and top sides

The relations between H, A and L are as follows

	L	A
$L \leq 1/2H$	250 or more	
$1/2H < L \leq H$	300 or more	
$L > H$	Set the stand as: LSH Refer to the column of LSH for A	



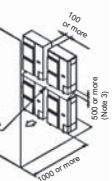
Limit of series installation is 2 unit

(D) Double-decker installation

① Obstacle on the discharge side (Note 1)

- Do not exceed two levels for stacked installation.

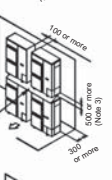
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



② Obstacle on the suction side (Note 1)

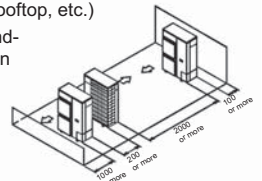
- Do not exceed two levels for stacked installation.

- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



(E) Multiple rows of series installation (on the rooftop, etc.)

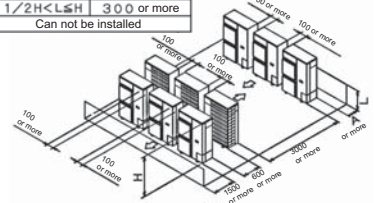
① One row of stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows

	L	A
$L \leq 1/2H$	250 or more	
$1/2H < L \leq H$	300 or more	
$L > H$	Can not be installed	



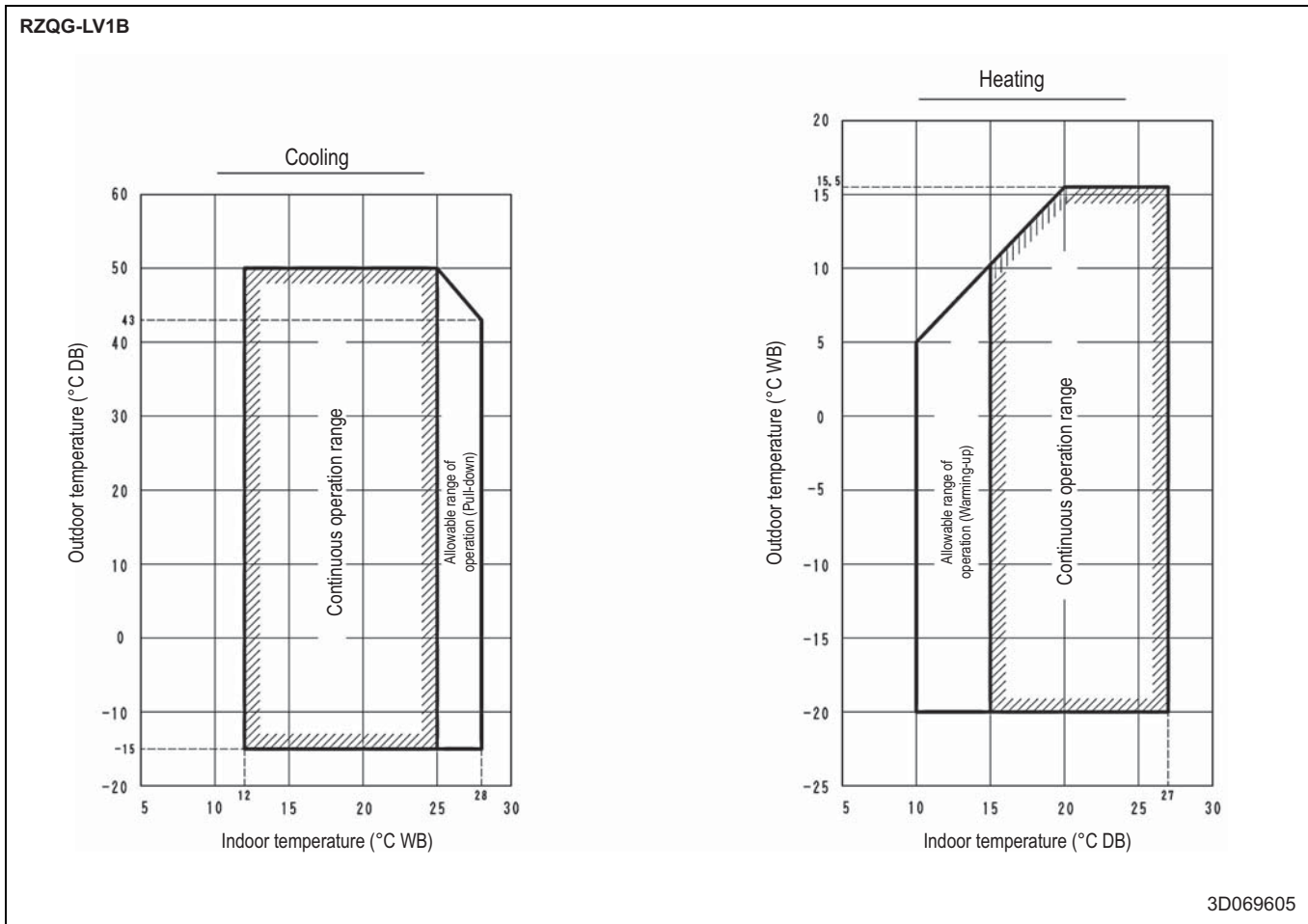
NOTES

- In case of the sideways's piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between the upper and lower outdoor units should be at least 100mm. (Close off the gap between the upper and lower units so there is no re-intake of discharged air.)

3D069554

12 Operation range

12 - 1 Operation Range





Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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