



# Air Conditioning Technical Data

Pair, Twin, Triple, double twin



EEDEN15-100A

RZQSG-L3/9V1



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# 1 Features

## Technology and comfort combined for commercial applications

- Top efficiency: - compressor that offers substantial efficiency improvements - control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active) - heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load) - via improved nominal performances
- Re-use of existing R-22 or R-407C technology
- Guarantees operation in heating mode down to -15°C
- With gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature (1~)
- Maximum piping length up to 50m, minimum piping length is 5m.
- Outdoor units for pair, twin, triple, double twin application
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Compatibility with D-BACS
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.



Inverter



Auto cooling-  
heating  
changeover

## 2 Specifications

2-1 Capacity and Power input				FAQ71C/RZQSG71L3V1		FAQ100C/RZQSG100L9V1	
Cooling capacity	Nom.		kW	6.8		9.5	
Heating capacity	Nom.		kW	7.5		10.8	
Power input	Cooling	Nom.	kW	2.12		3.16	
	Heating	Nom.	kW	2.08		3.17	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+			
		Pdesign	kW	6.80		9.50	
		SEER		6.05		5.61	
		Annual energy consumption	kWh	393		593	
	Heating (Average climate)	Energy label		A			
		Pdesign	kW	6.00		6.81	
		SCOP		3.90		4.01	
		Annual energy consumption	kWh	2,155		2,378	
Nominal efficiency	EER		3.21		3.01		
	COP		3.61		3.41		
	Annual energy consumption		kWh	1,060		1,580	
	Energy label	Cooling	A		B		
		Heating	A		B		

### Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-2 Capacity and Power input				FHQ71C/RZQSG71L3V1	FHQ100C/ RZQSG100L9V1	FHQ125C/ RZQSG125L9V1	FHQ140C/ RZQSG140L9V1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.	kW	1.97	2.96	4.15	4.45
	Heating	Nom.	kW	1.88	2.99	3.73	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+			
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		5.61		-	
		Annual energy consumption	kWh	424	593	749	-
	Heating (Average climate)	Energy label		A			
		Pdesign	kW	7.60		-	
		SCOP		3.90	3.91	4.01	-
		Annual energy consumption	kWh	2,727	2,722	2,654	-
Nominal efficiency	EER		3.46	3.21	2.89	3.01	
	COP		4.00	3.61	3.62	3.41	
	Annual energy consumption		kWh	985	1,480	2,075	2,225
	Energy label	Cooling	A		C		-
		Heating	A		-		-

### Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-3 Capacity and Power input				FCQG71F/RZQSG71L3V1	FCQG100F/ RZQSG100L9V1	FCQG125F/ RZQSG125L9V1	FCQG140F/ RZQSG140L9V1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.	kW	2.12	2.88	3.74	4.45
	Heating	Nom.	kW	2.08	3.05	3.96	4.54

## 2 Specifications

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2-3 Capacity and Power input				FCQG71F/RZQSG71L3V1	FCQG100F/ RZQSG100L9V1	FCQG125F/ RZQSG125L9V1	FCQG140F/ RZQSG140L9V1	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			A	-
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		6.10	6.50	5.30	-	
		Annual energy consumption	kWh	390	512	793	-	
	Heating (Average climate)	Energy label		A+			-	-
		Pdesign	kW	6.33	7.60	8.03	-	
		SCOP		4.10	4.01	-	-	
		Annual energy consumption	kWh	2,162	2,596	2,804	-	
Nominal efficiency	EER			3.21	3.30	3.21	3.01	
	COP			3.61	3.54	3.41		
	Annual energy consumption		kWh	1,060	1,440	1,870	2,225	
	Energy label	Cooling			A			-
		Heating			A		B	-

### Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-4 Capacity and Power input				FCQHG71F/ RZQSG71L3V1	FCQHG100F/ RZQSG100L9V1	FCQHG125F/ RZQSG125L9V1	FCQHG140F/ RZQSG140L9V1	
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4		
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5		
Power input	Cooling	Nom.	kW	1.94	2.57	3.71	4.17	
	Heating	Nom.	kW	1.83	2.51	3.60	4.29	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			A	-
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		6.50	6.70	5.40	-	
		Annual energy consumption	kWh	366	497	778	-	
	Heating (Average climate)	Energy label		A+			-	-
		Pdesign	kW	7.60	8.03		-	
		SCOP		4.15	4.30	4.10	-	
		Annual energy consumption	kWh	2,563	2,615	2,742	-	
Nominal efficiency	EER			3.50	3.70	3.23	3.21	
	COP			4.10	4.30	3.75	3.61	
	Annual energy consumption		kWh	970	1,285	1,855	2,085	
	Energy label	Cooling			A			-
		Heating			A			-

### Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-5 Capacity and Power input				FVQ71C/RZQSG71L3V1	FVQ100C/ RZQSG100L9V1	FVQ125C/ RZQSG125L9V1	FVQ140C/ RZQSG140L9V1
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4	
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	2.12	2.96	4.27	4.45
	Heating	Nom.	kW	2.08	2.99	3.96	4.54

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## 2 Specifications

2-5 Capacity and Power input			FVQ71C/RZQSG71L3V1	FVQ100C/ RZQSG100L9V1	FVQ125C/ RZQSG125L9V1	FVQ140C/ RZQSG140L9V1		
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A			-		
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		5.50			-	
		Annual energy consumption	kWh	433	605	764	-	
	Heating (Average climate)	Energy label	A			A+	A	-
		Pdesign	kW	6.33	7.60		-	
		SCOP		3.86	4.01	3.85	-	
Annual energy consumption		kWh	2,296	2,654	2,764	-		
Nominal efficiency	EER		3.21		2.81	3.01		
	COP		3.61		3.41			
	Annual energy consumption		kWh	1,060	1,480	2,135	2,225	
	Energy label	Cooling	A			-		
		Heating	A		B	-		

### Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-6 Capacity and Power input			FDQ125C/RZQSG125L9V1				
Cooling capacity	Nom.	kW	12.0				
Heating capacity	Nom.	kW	13.5				
Power input	Cooling	Nom.	kW	3.74			
	Heating	Nom.	kW	3.85			
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A				
		Pdesign	kW	12.00			
		SEER		5.20			
		Annual energy consumption	kWh	808			
	Heating (Average climate)	Energy label	A				
		Pdesign	kW	7.60			
		SCOP		3.90			
Annual energy consumption		kWh	2,729				
Nominal efficiency	EER		3.21				
	COP		3.51				
	Annual energy consumption		kWh	1,870			
	Energy label	Cooling	A				
		Heating	B				

### Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-7 Capacity and Power input			FBQ71D/RZQSG71L3V1	FBQ100D/ RZQSG100L9V1	FBQ125D/ RZQSG125L9V1	FBQ140D/ RZQSG140L9V1	
Indoor unit			FBQ71D	FBQ100D	FBQ125D	FBQ140D	
Outdoor unit			RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	
Cooling capacity	Nom.	kW	6.8 (1)	9.5 (1)	12.0 (1)	13.4 (1)	
Heating capacity	Nom.	kW	7.50 (1)	10.80 (1)	13.50 (1)	15.50 (1)	
Power input	Cooling	Nom.	kW	1.98 (1)	2.84 (1)	3.72 (1)	4.38 (1)
	Heating	Nom.	kW	1.91 (1)	2.94 (1)	3.72 (1)	4.56 (1)

## 2 Specifications

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2-7 Capacity and Power input				FBQ71D/RZQSG71L3V1	FBQ100D/ RZQSG100L9V1	FBQ125D/ RZQSG125L9V1	FBQ140D/ RZQSG140L9V1	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+			A	-
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		5.84	5.61	5.47	-	
		Annual energy consumption	kWh	408	593	768	-	
	Heating (Average climate)	Energy label		A+			-	-
		Pdesign	kW	6.00	7.60		-	
		SCOP		4.01	4.15	4.01	-	
		Annual energy consumption	kWh	2,095	2,564	2,653	-	
Nominal efficiency	EER		3.43 (2)	3.35 (2)	3.23 (2)	3.06 (2)		
	COP		3.92 (2)	3.67 (2)	3.63 (2)	3.40 (2)		
	Annual energy consumption		kWh	991	1,418	1,858	2,190	
	Energy label	Cooling		A			-	
		Heating		A			-	

### Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

(2) EER/COP according to Eurovent 2012, for use outside EU only

2-8 Technical Specifications				RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	
Capacity control	Method			Inverter controlled				
Casing	Colour			Ivory white				
	Material			Painted galvanized steel plate				
Dimensions	Unit	Height	mm	770	990		1,430	
		Width	mm	900	940			
		Depth	mm	320				
	Packed unit	Height	mm	900	1,170		1,610	
		Width	mm	980	1,015			
		Depth	mm	420	422			
Weight	Unit		kg	67	72	74	95	
	Packed unit		kg	71	81	83	104	
Heat exchanger	Fin	Type		WF fin				
		Treatment		Anti-corrosion treatment (PE)				
Compressor	Quantity			1				
	Type			Hermetically sealed swing compressor				
	Starting method			Inverter driven				
Fan	Type			Propeller fan				
	Discharge direction			Horizontal				
	Quantity			1		2		
	Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	52	76	77.0	83
			Super low	m <sup>3</sup> /min cfm	-			
		Heating	Nom.	m <sup>3</sup> /min	48	83		62
Super low			m <sup>3</sup> /min cfm	-				
Fan motor	Quantity			1		2		
	Model			KFD-325-70-8A	Brushless DC motor			
	Output			W	70	200	94	
	Drive			Direct drive				
	Speed	Cooling	Super low	rpm	-			
Heating			Super low	rpm	-			
Sound power level	Cooling		dBA	65	70	69		
	Heating		dBA	-				



## 2 Specifications

2-8 Technical Specifications				RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	
Sound pressure level	Cooling	Nom.	dBA	49	53	54	53	
		Silent operation		dBA	47	-		
	Heating	Nom.	dBA	51	57	58	54	
	Night quiet mode	Level 1		dBA	-	49		
Operation range	Cooling	Ambient	Min.	°CDB	-15.0			
			Max.	°CDB	46			
	Heating	Ambient	Min.	°CWB	-15			
			Max.	°CWB	15.5			
Refrigerant	Type			R-410A				
	Charge			kg	2.75	2.9	4.0	
				TCO <sub>2</sub> eq	5.7	6.1	8.4	
	Control			Expansion valve (electronic type)				
	GWP			2,087.5				
	Circuits	Quantity		1				
Refrigerant oil	Type			FVC50K				
	Charged volume			l	0.75	0.9	1.35	
Piping connections	Liquid	Quantity		1				
		Type			Flare connection			
		OD	mm	9.52				
	Gas	Quantity		1				
		Type			Flare connection			
		OD	mm	15.9				
	Drain	Quantity		3	5			
		Type			Hole			
		ID	mm	-				
		OD	mm	26				
	Piping length	OU - IU	Min.	m	5			
			Max.	m	50			
		System	Equivalent	m	70			
			Charges	m	30			
	Additional refrigerant charge			kg/m	See installation manual			
	Level difference	IU - OU	Max.	m	15	30.0		
IU - IU		Max.	m	0.5				
Heat insulation			Both liquid and gas pipes					
Defrost method				Pressure equalising	Reversed cycle			
Defrost control				Sensor for outdoor heat exchanger temperature				
Safety devices	Item	01		High pressure switch				
		02		Fan motor thermal protection	Low pressure switch			
		03		Fuse	Fan driver overload protector			
		04		-	Fuse			

2-9 Electrical Specifications				RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1
Power supply	Name			V1			
	Phase			1~			
	Frequency		Hz	50			
	Voltage			V			
	Voltage range	Min.	%	-10			
Max.		%	10				
Current	Zmax	List	-	Complies to EN61000-3-11			
	A	Recommended fuses	25	40			
Current - 50Hz	Maximum fuse amps (MFA)		A	20	-		
Current - 60Hz	Maximum fuse amps (MFA)		A	-			
Wiring connections	For power supply	Remark		See installation manual outdoor unit			
	For connection with indoor	Remark		See installation manual outdoor unit			
Power supply intake				Outdoor unit only			

## 2 Specifications

### Notes

Minimum Ssc (=Short-circuit power) value: Equipment complying with EN/IEC 61000-3-12: European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current  $>16\text{A}$  and  $\leq 75\text{A}$  per phase

See separate drawing for electrical data

European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current larger than  $16\text{A}$  and  $\leq 75\text{A}$  per phase.

Short-circuit power

Contains fluorinated greenhouse gases

PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC

### 3 Electrical data

#### 3 - 1 Electrical Data

RZQSG71-100L3/9V1														
Indoor	Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM			
							MSC	RLA	kW	FLA	kW	FLA		
FCQHG71FVEB		50Hz 220-240V	Min. 198V Max. 264V	18.8	—	20	—	16.2	0.07	0.3	0.091	0.5		
FCQG35FVEB	x2			18.9	—	20	—	16.2	0.07	0.3	0.044x2	0.3x2		
FCQG71FVEB				18.7	—	20	—	16.2	0.07	0.3	0.054	0.4		
FFQ35C2VEB	x2			19.2	—	20	—	16.2	0.07	0.3	0.050x2	0.4x2		
FDXS35F2VEB	x2			18.9	—	20	—	16.2	0.07	0.3	0.034x2	0.3x2		
FBQ35C8VEB	x2			21.2	—	25	—	16.2	0.07	0.3	0.140x2	1.2x2		
FBQ71C8VEB				19.5	—	20	—	16.2	0.07	0.3	0.350	1.1		
FAQ71CVEB				18.7	—	20	—	16.2	0.07	0.3	0.048	0.4		
FVQ71CVEB				18.9	—	20	—	16.2	0.07	0.3	0.117	0.6		
FHQ35CAVEB	x2			19.1	—	20	—	15.7	0.07	0.3	0.060 x 2	0.6 x 2		
FHQ71CAVEB				18.6	—	20	—	15.7	0.07	0.3	0.091	0.8		
FCQHG100FVEB				50Hz 220-240V	Min. 198V Max. 264V	29.1	—	32	—	24.4	0.2	0.6	0.221	1.3
FCQG35FVEB	x3					28.6	—	32	—	24.4	0.2	0.6	0.044x3	0.3x3
FCQG50FVEB	x2	28.3	—			32	—	24.4	0.2	0.6	0.039x2	0.3x2		
FCQG100FVEB		28.4	—			32	—	24.4	0.2	0.6	0.117	0.7		
FFQ35C2VEB	x3	29.0	—			32	—	24.4	0.2	0.6	0.05x3	0.4x3		
FFQ50C2VEB	x2	28.5	—			32	—	24.4	0.2	0.6	0.05x2	0.4x2		
FDXS35F2VEB	x3	28.6	—			32	—	24.4	0.2	0.6	0.034x3	0.3x3		
FDXS50F2VEB9	x2	28.8	—			32	—	24.4	0.2	0.6	0.06x2	0.5x2		
FBQ35C8VEB	x3	32.0	—			40	—	24.4	0.2	0.6	0.140x3	1.2x3		
FBQ50C8VEB	x2	30.5	—			32	—	24.4	0.2	0.6	0.140x2	1.2x2		
FBQ100C8VEB		29.5	—			32	—	24.4	0.2	0.6	0.350	1.6		
FAQ100CVEB		28.0	—			32	—	24.4	0.2	0.6	0.064	0.4		
FVQ100CVEB		29.0	—			32	—	24.4	0.2	0.6	0.238	1.2		
FHQ35CAVEB	x3	29.8	—			32	—	24.4	0.2	0.6	0.060 x 3	0.6 x 3		
FHQ50CAVEB	x2	29.0	—			32	—	24.4	0.2	0.6	0.060 x 2	0.6 x 2		
FHQ100CAVEB		29.1	—			32	—	24.4	0.2	0.6	0.150	1.3		

<p><b>SYMBOLS</b></p> <p>MCA : Min. Circuit Amps. (A)</p> <p>TOCA : Total Over-Current Amps. (A)</p> <p>MFA : Max. Fuse Amps. (See note 7) (A)</p> <p>MSC : Max. current during the starting compressor. (A)</p> <p>RLA : Rated Load Amps. (A)</p> <p>OFM : Outdoor Fan Motor. (A)</p> <p>IFM : Indoor Fan Motor.</p> <p>FLA : Full Load Amps.</p> <p>kW : Fan Motor Rated Output. (kW)</p>	<p><b>NOTES</b></p> <p>1 RLA is based on the following conditions: Power supply: 50Hz 230V Cooling Indoor temperature 27.0°CDB/19.0°CWB Outdoor temperature 35.0°CDB Heating Indoor temperature 20.0°CDB Outdoor temperature 7.0°CDB / 6.0°CWB</p> <p>2 TOCA means the total value of each OC set.</p> <p>3 Voltage range Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.</p> <p>4 Maximum allowable voltage variation between phases is 2%.</p> <p>5 MCA represents maximum input current, MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)</p> <p>6 Select wire size based on the larger value of MCA or TOCA.</p> <p>7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)</p>
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### 3 Electrical data

#### 3 - 1 Electrical Data

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#### RZQSG125-140L9V1

Indoor	Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM				
							MSC	RLA	kW	FLA	kW	FLA			
FCQHG125FVEB	RZQSG125L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.3	—	32	—	24.4	0.2	0.6	0.244	1.4			
FCQG35FVEB ×4				29.0	—	32	—	24.4	0.2	0.6	0.044×4	0.3×4			
FCQG50FVEB ×3				28.6	—	32	—	24.4	0.2	0.6	0.039×3	0.3×3			
FCQG60FVEB ×2				28.3	—	32	—	24.4	0.2	0.6	0.044×2	0.3×2			
FCQG125FVEB				28.8	—	32	—	24.4	0.2	0.6	0.168	1.0			
FFQ35C2VEB ×4				29.5	—	32	—	24.4	0.2	0.6	0.05×4	0.4×4			
FFQ50C2VEB ×3				29.0	—	32	—	24.4	0.2	0.6	0.05×3	0.4×3			
FFQ60C2VEB ×2				29.0	—	32	—	24.4	0.2	0.6	0.05×2	0.6×2			
FDXS35F2VEB ×4				29.0	—	32	—	24.4	0.2	0.6	0.034×4	0.3×4			
FDXS50F2VEB9 ×3				29.4	—	32	—	24.4	0.2	0.6	0.06×3	0.5×3			
FDXS60F2VEB ×2				28.8	—	32	—	24.4	0.2	0.6	0.060×2	0.5×2			
FBQ35C8VEB ×4				33.5	—	40	—	24.4	0.2	0.6	0.140×4	1.2×4			
FBQ50C8VEB ×3				32.0	—	40	—	24.4	0.2	0.6	0.140×3	1.2×3			
FBQ60C8VEB ×2				30.3	—	32	—	24.4	0.2	0.6	0.350×2	1.1×2			
FBQ125C8VEB				30.1	—	32	—	24.4	0.2	0.6	0.350	2.1			
FDQ125C7VEB				30.1	—	32	—	24.4	0.2	0.6	0.350	2.1			
FVQ125CVEB				29.0	—	32	—	24.4	0.2	0.6	0.238	1.2			
FHQ35CAVEB ×4				30.5	—	32	—	24.4	0.2	0.6	0.060×4	0.6 × 4			
FHQ50CAVEB ×3				29.8	—	32	—	24.4	0.2	0.6	0.060×3	0.6 × 3			
FHQ60CAVEB ×2				29.0	—	32	—	24.4	0.2	0.6	0.091×2	0.6 × 2			
FHQ125CAVEB				29.4	—	32	—	24.4	0.2	0.6	0.150	1.5			
FCQHG71FVEB ×2				RZQSG140L9V1	50Hz 220-240V	Min. 198V Max. 264V	28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB							29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB ×4							29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB ×3	28.6	—	32				—	24.2	0.094+0.094	0.4+0.4	0.039×3	0.3×3			
FCQG71FVEB ×2	28.5	—	32				—	24.2	0.094+0.094	0.4+0.4	0.054×2	0.4×2			
FCQG140FVEB	28.8	—	32				—	24.2	0.094+0.094	0.4+0.4	0.168	1.0			
FFQ35C2VEB ×4	29.5	—	32				—	24.2	0.094+0.094	0.4+0.4	0.05×4	0.4×4			
FFQ50C2VEB ×3	29.0	—	32				—	24.2	0.094+0.094	0.4+0.4	0.05×3	0.4×3			
FDXS35F2VEB ×4	29.0	—	32				—	24.2	0.094+0.094	0.4+0.4	0.034×4	0.3×4			
FDXS50F2VEB9 ×3	29.4	—	32				—	24.2	0.094+0.094	0.4+0.4	0.06×3	0.5×3			
FBQ35C8VEB ×4	33.5	—	40				—	24.2	0.094+0.094	0.4+0.4	0.140×4	1.2×4			
FBQ50C8VEB ×3	32.0	—	40				—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3			
FBQ71C8VEB ×2	30.3	—	32				—	24.2	0.094+0.094	0.4+0.4	0.350×2	1.1×2			
FBQ140C8VEB	30.1	—	32				—	24.2	0.094+0.094	0.4+0.4	0.350	2.1			
FAQ71CVEB ×2	28.5	—	32				—	24.2	0.094+0.094	0.4+0.4	0.048×2	0.4×2			
FVQ140CVEB	29.3	—	32				—	24.2	0.094+0.094	0.4+0.4	0.276	1.4			
FHQ35CAVEB ×4	30.5	—	32				—	24.2	0.094+0.094	0.4+0.4	0.060 × 4	0,6 × 4			
FHQ50CAVEB ×3	29.8	—	32				—	24.2	0.094+0.094	0.4+0.4	0,060 × 3	0,6 × 3			
FHQ71CAVEB ×2	29.5	—	32				—	24.2	0.094+0.094	0.4+0.4	0,091 × 2	0,8 × 2			
FHQ140CAVEB	29.8	—	32				—	24.2	0.094+0.094	0.4+0.4	0.15	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

- 1 RLA is based on the following conditions:  
Power supply: 50Hz 230V  
Cooling  
Indoor temperature 27.0°CDB/19.0°CWB  
Outdoor temperature 35.0°CDB  
Heating  
Indoor temperature 20.0°CDB  
Outdoor temperature 7.0°CDB / 6.0°CWB
- 2 TOCA means the total value of each OC set.
- 3 Voltage range  
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- 4 Maximum allowable voltage variation between phases is 2%.
- 5 MCA represents maximum input current, MFA represents capacity which may accept MCA.  
(next lower standard fuse rating, min.15A)
- 6 Select wire size based on the larger value of MCA or TOCA.
- 7 MFA is used to select the circuit breaker and the ground fault circuit interrupter.  
(earth leakage circuit breaker)

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### 3 Electrical data

#### 3 - 1 Electrical Data

##### RZQSG71L3V1

Indoor		Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM	
								MSC	RLA	kW	FLA	kW	FLA
FCQH71FVEB		RZQSG71L3V1	50Hz 220-240V	Min. 198V Max. 264V	18.8	—	20	—	16.2	0.07	0.3	0.091	0.5
FCG35FVEB	x2				18.9	—	20	—	16.2	0.07	0.3	0.044x2	0.3x2
FCQG71FVEB					18.7	—	20	—	16.2	0.07	0.3	0.054	0.4
FFQ35B9V1B	x2				19.2	—	20	—	16.2	0.07	0.3	0.055x2	0.4x2
FFQ35C2VEB	x2				18.9	—	20	—	16.2	0.07	0.3	0.050x2	0.3x2
FBQ35C8VEB	x2				21.2	—	25	—	16.2	0.07	0.3	0.140x2	1.2x2
FBQ71C8VEB					19.5	—	20	—	16.2	0.07	0.3	0.350	1.1
FHQ35BWM1B	x2				19.7	—	20	—	16.2	0.07	0.3	0.062x2	0.6x2
FHQG71CVEB					19.2	—	20	—	16.2	0.07	0.3	0.091	0.8
FAQ71CVEB					18.7	—	20	—	16.2	0.07	0.3	0.048	0.4
FVQ71CVEB					18.9	—	20	—	16.2	0.07	0.3	0.117	0.6
FFQ35C2VEB	x2				19.2	—	20	—	16.2	0.07	0.3	0.050x2	0.4x2
FDXS35F2VEB	x2				18.9	—	20	—	16.2	0.07	0.3	0.034x2	0.3x2

#### 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

- 1 RLA is based on the following conditions:  
Power supply: 50Hz 230V  
Cooling  
Indoor temperature 27.0°CDB/19.0°CWB  
Outdoor temperature 35.0°CDB  
Heating  
Indoor temperature 20.0°CDB  
Outdoor temperature 7.0°CDB / 6.0°CWB
- 2 TOCA means the total value of each OC set.
- 3 Voltage range  
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- 4 Maximum allowable voltage variation between phases is 2%.
- 5 MCA represents maximum input current, MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
- 6 Select wire size based on the larger value of MCA or TOCA.
- 7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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##### RZQSG71-125L3/9V1

Unit combination restrictions		Power supply			COMP		OFM		IFM			
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQSG71L3V1B	50	220-240V	MAX. 50Hz 264V MIN. 50Hz 198V	18.9	20	50	16.2	0.07	0.3	0.07	0.5
2xFBQ35D2VEB	RZQSG71L3V1B				19.6	20	—	16.2	0.07	0.3	2x0.089	2x0.6
FBQ100D2VEB	RZQSG100L9V1B				28.9	32	53	24.4	0.2	0.6	0.127	1.0
2xFBQ50D2VEB	RZQSG100L9V1B				29.1	32	—	24.4	0.2	0.6	2x0.089	2x0.6
3xFBQ35D2VEB	RZQSG100L9V1B				29.7	32	—	24.4	0.2	0.6	3x0.089	3x0.6
FBQ125D2VEB	RZQSG125L9V1B				29.5	32	80	24.4	0.2	0.6	0.187	1.5

#### Notes

- 1 The RLA is based on the following conditions.  
Indoor temperature 27°C DB / 19°C WB  
Outdoor temperature 35°C DB
- 2 Select the wire size according to the MCA.
- 3 The maximum allowable voltage that is unbalanced between phases is 2%.
- 4 Use a circuit breaker instead of a fuse.

#### Symbols

- ① Hz
- ② Voltage
- ③ Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (A)
- RLA Rated load amps [A]
- OFM Outdoor fan motor
- IFM Indoor fan motor
- FLA Full Load Ampere (A)
- kW Fan motor rated output [kW]
- RHz Rated operating frequency [Hz]
- COMP Compressor

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# 3 Electrical data

## 3 - 1 Electrical Data

3

### RZQSG125-140L9V1

Unit combination restrictions		Power supply			COMP		OFM		IFM					
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA		
2xFBQ60D2VEB	RZQSG125L9V1B	50	220-240V	MAX. 50Hz 264V MIN. 50Hz 198V	29	32	-	24.4	0.2	0.6	2x0.07	2x0.5		
3xFBQ50D2VEB	RZQSG125L9V1B				29.8	32	-	24.4	0.2	0.6	3x0.089	3x0.6		
4xFBQ35D2VEB	RZQSG125L9V1B				30.4	32	-	24.4	0.2	0.6	4x0.089	4x0.6		
FBQ140D2VEB	RZQSG140L9V1B				29.5	32	74	24.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5		
2xFBQ71D2VEB	RZQSG140L9V1B				29	32	-	24.2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5		
3xFBQ50D2VEB	RZQSG140L9V1B				29.8	32	-	24.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6		
4xFBQ35D2VEB	RZQSG140L9V1B				30.4	32	-	24.2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6		

Notes

- The RLA is based on the following conditions.  
Indoor temperature 27°C DB / 19°C WB  
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- ① Hz
- ② Voltage
- ③ Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (A)
- RLA Rated load amps [A]

- OFM Outdoor fan motor
- IFM Indoor fan motor
- FLA Full Load Ampere (A)
- kW Fan motor rated output [kW]
- RHz Rated operating frequency [Hz]
- COMP Compressor

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### RZQSG-L3/9V1

Unit combination restrictions		Power supply			COMP		OFM		IFM					
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA		
2xFNQ35A2VEB	RZQSG71L3V1B	3N <sup>~</sup> 50Hz	380-415V	MAX. 50Hz 456V MIN. 50Hz 342V	19	20	-	16.2	0.07	0.3	2x0.034	2x0.3		
2xFNQ50A2VEB	RZQSG100L9V1B				28.9	32	-	24.4	0.2	0.6	2x0.06	2x0.5		
3xFNQ35A2VEB	RZQSG100L9V1B				28.8	32	-	24.4	0.2	0.6	3x0.034	3x0.3		
2xFNQ60A2VEB	RZQSG125L9V1B				29	32	-	24.4	0.2	0.6	2x0.06	2x0.5		
3xFNQ50A2VEB	RZQSG125L9V1B				29.5	32	-	24.4	0.2	0.6	3x0.06	3x0.5		
4xFNQ35A2VEB	RZQSG125L9V1B				29.2	32	-	24.4	0.2	0.6	4x0.034	4x0.3		
3xFNQ50A2VEB	RZQSG140L9V1B				29.5	32	-	24.2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5		
4xFNQ35A2VEB	RZQSG140L9V1B				29.2	32	-	24.2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3		

Notes

- The RLA is based on the following conditions.  
Indoor temperature 27°C DB / 19°C WB  
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- ① Hz
- ② Voltage
- ③ Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (A)
- RLA Rated load amps [A]

- OFM Outdoor fan motor
- IFM Indoor fan motor
- FLA Full Load Ampere (A)
- kW Fan motor rated output [kW]
- RHz Rated operating frequency [Hz]
- COMP Compressor

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# 4 Options

## 4 - 1 Options

### RZQSG71L3V1

Available options for RZQSG models:

Name of option		Kit name	
		RZQSG71L3V1	
Bottom plate heater		-	
Refrigerant branch piping	Twin	KHRQ22M20TA (KHRQ58T); See note 2	
Demand adapter kit		KRP58M51	

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### RZQSG-L3/9V1

Available options for RZQSG models

Option		Option kit			
		RZQSG71L3V1B	RZQSG100L9V1B	RZQSG125L9V1B	RZQSG140L9V1B
Bottom plate heater		-			
Refrigerant branch piping	Twin	KHRQ22M20TA			
	Triple	-	KHRQ127H		
	Double twin	-	-	KHRQ22M20TA (3x)	
Demand adaptor kit		KRP58M51	SB.KRP58M51		

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# 5 Combination table

## 5 - 1 Combination Table

5

RZQSG-L3/9V1  
RZQSG-L(8)Y1

Possible combinations	71	100	125	140
P= Pair	35+35	50+50	60+60	71+71
2= Twin		35+35+35	50+50+50 (*)	50+50+50 (*)
3= Triple			35+35+35+35 (*)	35+35+35+35
4= Double twin				

(\*): Maximum capacity of outdoor units

Sky Air	High Cassette				Thin cassette				2x2 cassette		Duct (medium ESP)				Ceiling-suspended				Ceiling-mounted - 4-way blow		Wall mounted type		Duct (high ESP)		Floor standing type		Slim duct								
	FCQHG71FVEB	FCQHG100FVEB	FCQHG125FVEB	FCQHG140FVEB	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB	FFQG2C2VEB	FFQG3C2VEB	FFQG4C2VEB	FHQG38BV1B8	FHQG38BY1B8	FHQG71CVVEB	FHQG100CVVEB	FHQG125CVVEB	FHQG140CVVEB	FUQ71CVVEB	FUQ100CVVEB	FUQ125CVVEB	FAQ71CVVEB	FAQ100CVVEB	FDO125C7VEB	FVO71CVVEB	FVO100CVVEB	FVO125CVVEB	FVO140CVVEB	FDXS35F2VEB	FDXS50F2VEB9	FDXS60F2VEB		
RZQSG71L3V1B	P				2			P			2			2										P			P					2			
RZQSG100L9V1B		P			3	2			P		3	2		3	2									P			P					3	2		
RZQSG125L9V1B			P		4	3	2			P	4	3	2	4	3	2											P					4	3	2	
RZQSG140L9V1B				P	4	3		2			P	4	3	4	3		2											P					4	3	2

Sky Air	Duct (medium ESP)						Concealed floor standing type				
	FBO35D2VEB	FBO60D2VEB	FBO80D2VEB	FBO100D2VEB	FBO125D2VEB	FBO140D2VEB	FINQ25A2VEB	FINQ35A2VEB	FINQ50A2VEB	FINQ60A2VEB	
RZQSG71L3V1B	2			P					2		
RZQSG100L9V1B		3	2		P				3	2	
RZQSG125L9V1B		4	3	2		P			4	3	2
RZQSG140L9V1B		4	3		2		P		4	3	

Notes

1. The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
2. When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
3. For the selection of the correct renet kit, required to install a multi-combination, refer to the option list.

- Twin :     -KHRQ22M20TA- or -KHRQ58T-  
Triple :     -KHRQ127H- or -KHRQ58H-  
Double twin :     -KHRQ22M20TA- or -KHRQ58T-

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# 5 Combination table

## 5 - 1 Combination Table

### RZQSG71L3V1

Multi Combination Possibilities:	71	100	125	140
2 = Pair				
2 = Twin	35+35	50+50	60+60	71+71
3 = Triple		35+35+35	50+50+50 (*)	50+50+50 (*)
4 = Double twin			35+35+35+35 (*)	35+35+35+35

SKY-AIR	Hi cassette				Thin cassette				2x2 cassette				Duct (medium ESP)				4way ceiling		Wall mounted		High/Pilot	Roor standing				Ceiling suspended				Slim Duct															
Model name	FOOQ37FMVB	FOOQ37MFMVB	FOOQ37SF2FMVB	FOOQ37SMFMVB	FOOQ36FMVB	FOOQ36MFMVB	FOOQ36SF2FMVB	FOOQ36SMFMVB	FFCQ36BM/1B	FFCQ36BM/1B	FFCQ36SM/1B	FFCQ36SM/1B	FFCQ36S2MVB	FFCQ36S2MVB	FFCQ36S2MVB	FFCQ36S2MVB	FBQ1002MVB	FBQ1002MVB	FAQ710MVB	FAQ1000MVB	FDQ12507MVB	FAQ710MVB	FAQ1000MVB	FAQ1250MVB	FAQ1400MVB	FAQ1600MVB	FAQ1800MVB	FAQ2000MVB	FAQ2200MVB	FAQ2500MVB	FAQ2800MVB	FHQ1250MVB	FHQ1400MVB	FHQ1600MVB	FHQ1800MVB	FHQ2000MVB	FHQ2200MVB	FHQ2500MVB	FHQ2800MVB	FDSS5F2MVB	FDSS5F2MVB	FDSS5F2MVB	FDSS5F2MVB		
RZQSG71L3V1B	P				2				P				2						P				P						2					P				2							

**NOTES**

- Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
- When different indoor models are used in combination, designate the remote controller that is equipped with the most functions as the main unit.
- See the option list for the selection of the refnet kits that are necessary to install the combinations:  
 Twin: KHRQ22M20TA orKHRQ58T  
 Triple: KHRQ127H orKHRQ58H  
 Double twin: KHRQ22M20TA orKHRQ58T

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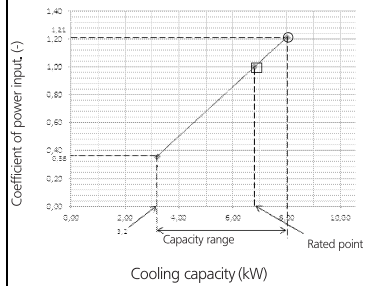
# 6 Capacity tables

## 6 - 1 Cooling/Heating Capacity Tables

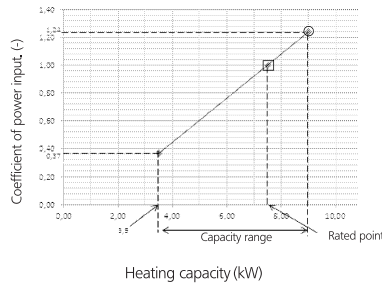
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### RZQSG71L3V1

#### Cooling



#### Heating



#### 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:	Maximum Total cooling (heating) capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
CPI:	(comp.+indoor and outdoor fan motor) Coefficient of power input.	(-)

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

#### Cooling

Indoor		Outdoor temp. (°CDB)											
°CWB	°CDB	25			30			35			40		
(°C)	(°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	0.92	7.28	4.99	1.08	7.50	5.21	1.20	7.20	5.06	1.32
18.0	25	8.37	5.43	1.00	8.11	5.32	1.11	7.83	5.19	1.21	7.52	5.04	1.34
19.0	27	8.54	5.41	1.01	8.28	5.31	1.11	<b>8.00</b>	<b>5.18</b>	<b>1.21</b>	7.68	5.03	1.34
19.5	27	8.63	5.40	1.01	8.37	5.30	1.11	8.08	5.17	1.21	7.76	5.03	1.34
22.0	30	9.07	5.33	1.03	8.80	5.23	1.12	8.51	5.12	1.22	8.18	4.97	1.35
24.0	32	9.43	5.25	1.03	9.15	5.16	1.13	8.85	5.05	1.23	8.51	4.90	1.36

#### Heating

Indoor		Outdoor temperature (°CWB)											
°CDB		-15.0		-10.0		-5.0		0.0		5.0		10.0	
(°C)		TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16		5.14	0.89	5.68	0.94	6.22	0.98	6.75	1.03	9.02	1.08	9.72	1.13
18		5.14	0.92	5.67	0.97	6.21	1.02	6.74	1.07	9.01	1.12	9.70	1.18
20		5.13	0.96	5.67	1.01	6.20	1.06	6.73	1.11	<b>9.00</b>	<b>1.17</b>	9.69	1.23
21		5.13	0.98	5.66	1.03	6.20	1.08	6.73	1.13	9.00	1.19	9.69	1.25
22		5.12	0.99	5.66	1.04	6.19	1.10	6.73	1.15	8.99	1.22	9.68	1.28
24		5.12	1.03	5.65	1.09	6.19	1.14	6.72	1.20	8.98	1.26	9.66	1.32

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#### NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark  $\square$  show the max. at standard conditions.  
On the figure the mark  $\circ$  show rated capacity and rated coefficient of power input.  
However the max. capacity is not guaranteed, except at standard condition.
- SHC is based on indoor EWB and EDB.  
SHC for other dry bulb temp. = SHC + SHC\*.  
SHC\* = SHC correction for other dry bulb.  
SHC\* = 0.02 x AFR (m<sup>3</sup>/min.) x (1-BF) x (DB-EWB)
- Capacities are based on following conditions:  
outdoor air: 85% RH, however, the condition on nominal capacity is 7° CDB/6° CWB  
Corresponding refrigerant piping length: 0.5m  
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)	FCQHG71F	FCQG71F	FBQ71D	FHQG71C	FAQ71C	FVQ71C	FHQ71CA
AFR	21.2	21.5	18	20.5	18	18	20.5
(BF)	(0.2)	(0.14)	(0.13)	(0.13)	(0.16)	(0.16)	(0.13)

#### NOTES

- Rated power input of each model is tabulated below.

(Pair)	FCQHG71F	FCQG71F	FBQ71D	FHQG71C	FAQ71C	FVQ71C	FHQ71CA
Cooling	1.94	2.12	1.98	1.97	2.12	2.12	1.97
Heating	1.83	2.08	1.91	1.88	2.08	2.08	1.88

(Twin)

	FCQ35F x 2	FFQ35 x 2	FBQ35D x 2	FHQ35BW x 2	FHQ35CA x 2	FFQ35C2 x 2	FDX35F2 x 2	FHQ35A2 x 2
Cooling	2.28	2.30	2.90	2.51	2.47	2.29	2.31	2.16
Heating	2.37	2.32	2.12	2.78	2.70	2.31	2.39	2.39

(Twin)

	FCQ35F x 2	FFQ35 x 2	FBQ35D x 2	FHQ35BW x 2	FHQ35CA x 2	FFQ35C2 x 2	FDX35F2 x 2	FHQ35A2 x 2
AFR	12.5 x 2	10 x 2	15 x 2	13 x 2	14 x 2	10 x 2	8.7 x 2	8.7 x 2
(BF)	(0.4 x 2)	(0.25 x 2)	(0.08 x 2)	(0.20 x 2)	(0.17 x 2)	(0.25 x 2)	(0.17 x 2)	(0.17 x 2)



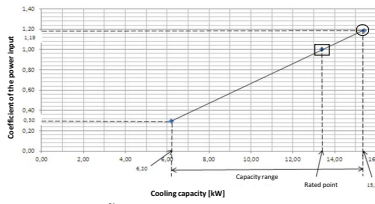
# 6 Capacity tables

## 6 - 1 Cooling/Heating Capacity Tables

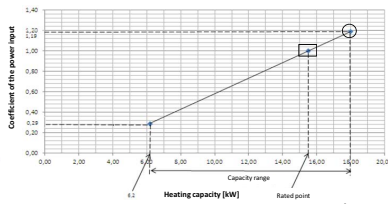
### RZQSG140L9V1

### RZQSG140LY1

#### Cooling



#### Heating



**Symbols**  
 AFR: Air flow rate (m<sup>3</sup>/min)  
 BF: Bypass factor  
 EWB: Entering wet-bulb temperature (°C WB)  
 EDB: Entering dry-bulb temperature (°C DB)  
 TC: Maximum total cooling/heating capacity (kW)  
 SHC: Sensible heat capacity (kW)  
 CPI: Coefficient of the power input  
 PI: Power input (kW)  
 compressor + indoor and/or outdoor fan motors

#### Cooling

Indoor	Outdoor temperature (°C DB)												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
16.0	22	15.5	10.47	0.98	14.9	10.25	1.08	14.4	10.08	1.18	13.9	9.69	1.28
18.0	25	16.2	10.25	0.98	15.6	10.21	1.09	15.1	10.04	1.18	14.5	9.71	1.30
19.0	27	16.6	10.45	0.99	16.0	10.19	1.09	15.4	9.98	1.19	14.8	9.76	1.30
19.5	27	16.7	10.49	0.99	16.1	10.16	1.10	15.6	10.00	1.19	15.0	9.66	1.30
22.0	30	17.6	10.37	0.99	17.0	10.16	1.10	16.4	9.93	1.21	15.8	9.80	1.31
24.0	32	18.4	10.20	1.00	17.7	10.00	1.11	17.0	9.87	1.22	16.4	9.47	1.32

#### Heating

Indoor	Outdoor temperature (°C WB)																	
	-15.0			-10.0			-5.0			0.0			6.0			10.0		
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	13.0	1.00	13.4	1.09	14.4	1.16				
18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	13.0	1.04	13.4	1.11	14.4	1.21				
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	13.0	1.09	13.4	1.15	14.4	1.26				
21	11.5	1.00	12.7	1.06	13.5	1.11	13.9	1.13	13.0	1.11	13.4	1.18	14.4	1.28				
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	13.0	1.12	13.4	1.20	14.4	1.30				
24	11.5	1.07	12.6	1.12	13.5	1.17	13.9	1.20	13.0	1.16	13.4	1.24	14.4	1.35				

**Notes**

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- = Maximum at standard conditions
  - = Rated capacity and rated coefficient of the power input

The maximum capacity is not guaranteed except at standard conditions.
- SHC is based on indoor units EWB & EDB.  
 SHC for other dry-bulb temperatures = SHC + SHC\*  
 SHC\* = SHC correction for other dry-bulb temperatures  
 = 0.02 x AFR (m<sup>3</sup>/min) x (1-BF) x (DB\* - EDB)
- The capacities are based on the following conditions:  
 Outdoor air: 85% RH  
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.  
 Corresponding refrigerant piping length: 5.0 m  
 Level difference: 0m
- CPI is a percentage value compared to the rated value which is 1.00.
- The error rate for this value is less than 5% and depends on the indoor unit type.
- The heating performance takes into account the drop that occurs during defrost operation.
- The air flow rate and bypass factor are mentioned in the table.

9. The rated power input for each model is mentioned in the table below.

Pair	FCQHG1400	FCQGL40F	FBQ140C	FHQG140C	FHQ140C	FHQ140CA	FBQ140D
AFR (BF)	33.5 (0.15)	33.0 (0.23)	39.7 (0.14)	34.0 (0.17)	30.0 (0.18)	34.0 (0.17)	34.0 (0.06)

Twin	FCQHG71F X 2	FCQGL71F X 2	FBQ71C X 2	FHQG71C X 2	FHQ71C X 2	FHQ71CA X 2	FBQ71D X 2
AFR (BF)	21.2 x 2 (0.2 x 2)	21.5 x 2 (0.14 x 2)	18.0 x 2 (0.08 x 2)	20.5 x 2 (0.13 x 2)	18.0 x 2 (0.10 x 2)	20.5 x 2 (0.13 x 2)	18.8 x 2 (0.13 x 2)

Triple	FCQGS9F X 3	FBQ35C X 3	FHQ35CA X 3	FFQ35C X 3	FWQ35P9 X 3	FBQ35D X 3	FWQ35A X 3
AFR (BF)	12.6 x 3 (0.12 x 3)	16 x 3 (0.16 x 3)	12 x 3 (0.16 x 3)	16 x 3 (0.16 x 3)	15 x 3 (0.11 x 3)	15 x 3 (0.13 x 3)	15 x 3 (0.11 x 3)

Double twin	FCQGS9F X 4	FBQ35C X 4	FHQ35CA X 4	FFQ35C X 4	FWQ35P9 X 4	FBQ35D X 4	FWQ35A X 4
AFR (BF)	12.6 x 4 (0.4 x 4)	16 x 4 (0.16 x 4)	14 x 4 (0.20 x 4)	16 x 4 (0.20 x 4)	17 x 4 (0.17 x 4)	15 x 4 (0.08 x 4)	17 x 4 (0.17 x 4)

Pair	FCQHG1400	FCQGL40F	FBQ140C	FHQG140C	FHQ140C	FHQ140CA	FBQ140D
Cooling	4.17	4.45	4.44	4.45	4.45	4.45	4.38
Heating	4.29	4.54	4.54	4.54	4.54	4.54	4.56

Twin	FCQHG71F X 2	FCQGL71F X 2	FBQ71C X 2	FHQG71C X 2	FHQ71C X 2	FHQ71CA X 2	FBQ71D X 2
Cooling	5.11	4.39	4.17	4.01	4.23	4.01	4.17
Heating	4.23	4.48	4.54	4.71	4.52	4.71	4.56

Triple	FCQGS9F X 3	FBQ35C X 3	FHQ35CA X 3	FFQ35C X 3	FWQ35P9 X 3	FBQ35D X 3	FWQ35A X 3
Cooling	4.40	4.17	4.67	4.43	4.68	4.17	4.68
Heating	4.48	4.94	5.67	4.39	4.61	4.94	4.61

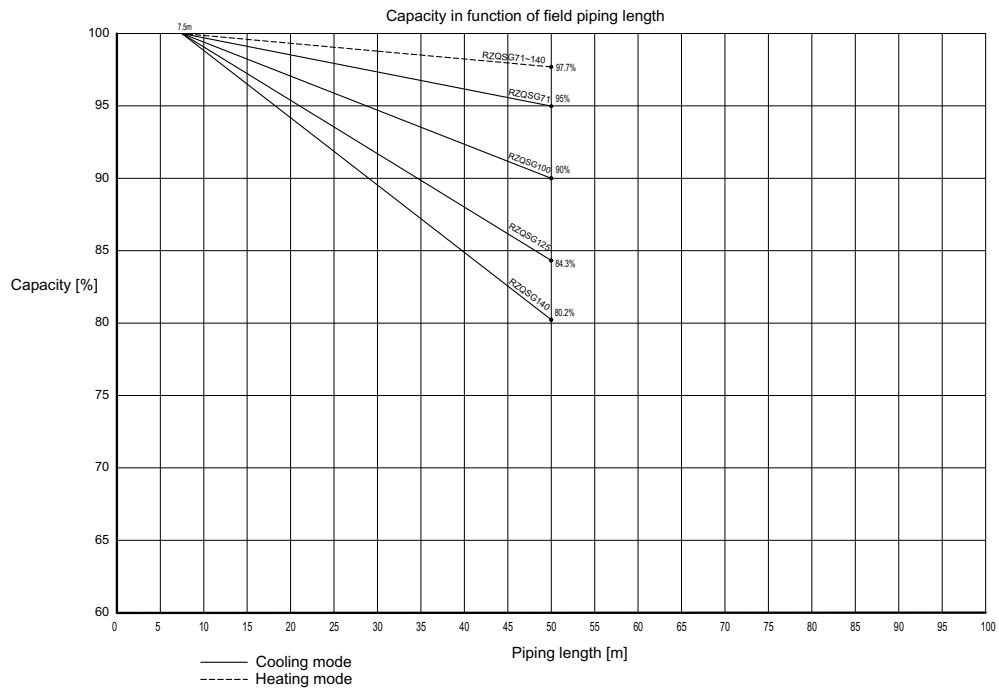
Double twin	FCQGS9F X 4	FBQ35C X 4	FHQ35CA X 4	FFQ35C X 4	FWQ35P9 X 4	FBQ35D X 4	FWQ35A X 4
Cooling	4.56	4.17	4.65	4.11	5.80	4.17	5.80
Heating	4.54	4.94	5.57	4.05	6.09	4.94	6.09

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# 6 Capacity tables

## 6 - 2 Capacity Correction Factor

RZQSG100-140L9V1

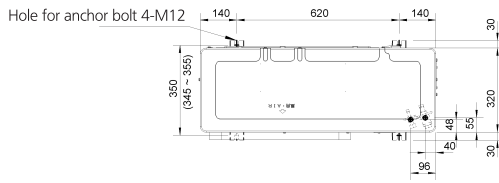


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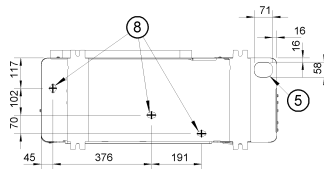
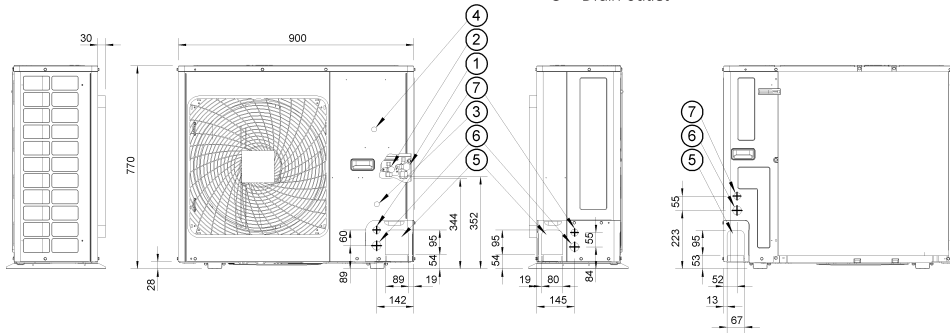
# 7 Dimensional drawings

## 7 - 1 Dimensional Drawings

### RZQSG71L3V1

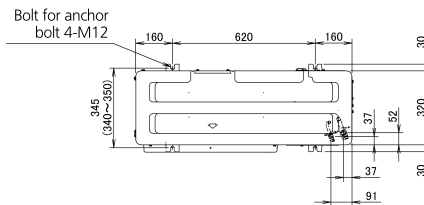


- 1 Gas pipe connection  $\phi$  15.9 flare
- 2 Liquid pipe connection -  $\phi$  9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock hole  $\phi$  34)
- 7 Control wiring intake (knock hole  $\phi$  27)
- 8 Drain outlet

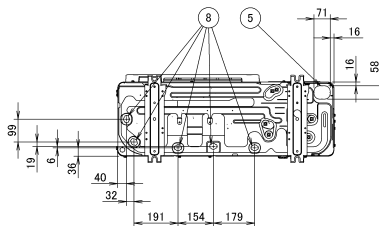
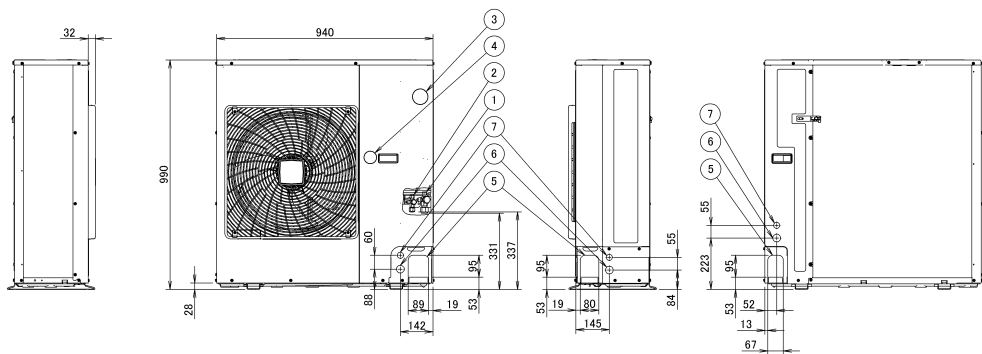


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### RZQSG100-125L9V1



- 1 Gas pipe connection  $\phi$  15.9 flare
- 2 Liquid pipe connection -  $\phi$  9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock out hole  $\phi$  34)
- 7 Control wiring intake (Knock out hole  $\phi$  27)
- 8 Drain outlet

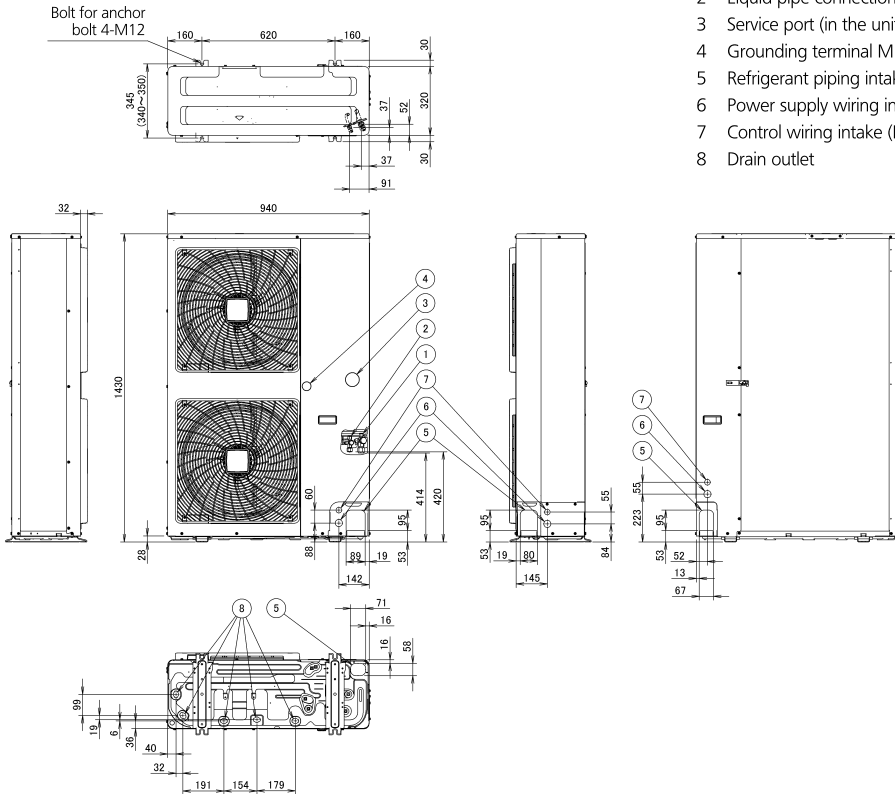


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# 7 Dimensional drawings

## 7 - 1 Dimensional Drawings

RZQSG140L9V1



- 1 Gas pipe connection  $\phi$  15.9 flare
- 2 Liquid pipe connection -  $\phi$  9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock out hole  $\phi$  34)
- 7 Control wiring intake (Knock out hole  $\phi$  27)
- 8 Drain outlet

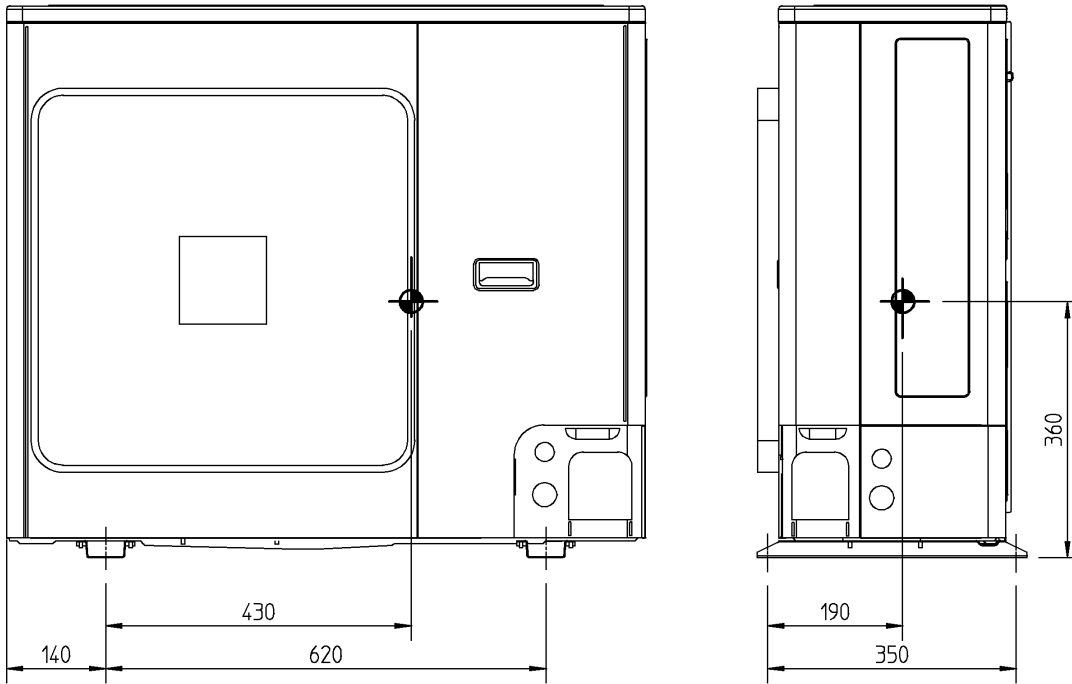
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# 8 Centre of gravity

## 8 - 1 Centre of Gravity

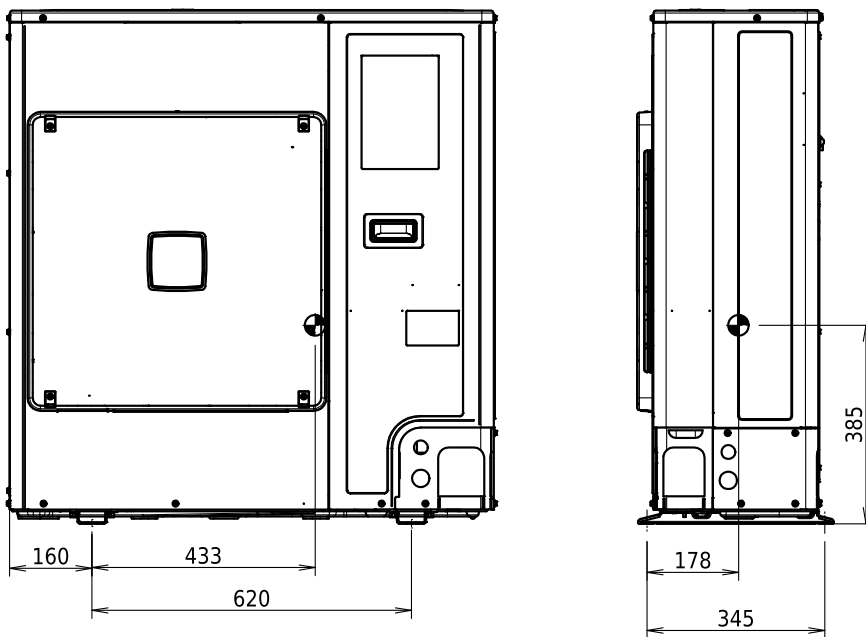
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RZQSG71L3V1



4TW30469-3

RZQSG100L9V1



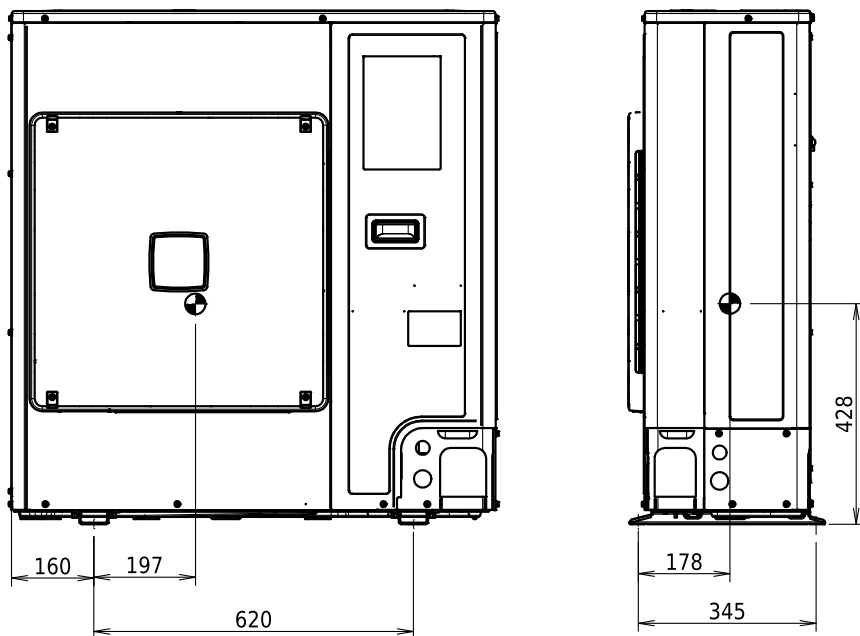
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# 8 Centre of gravity

## 8 - 1 Centre of Gravity

RZQSG125L9V1



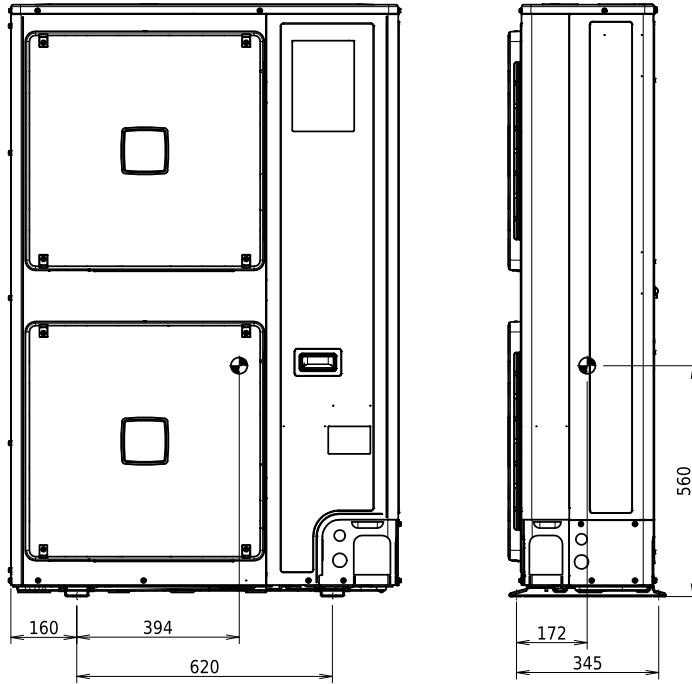
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# 8 Centre of gravity

## 8 - 1 Centre of Gravity

8

RZQSG140L9V1

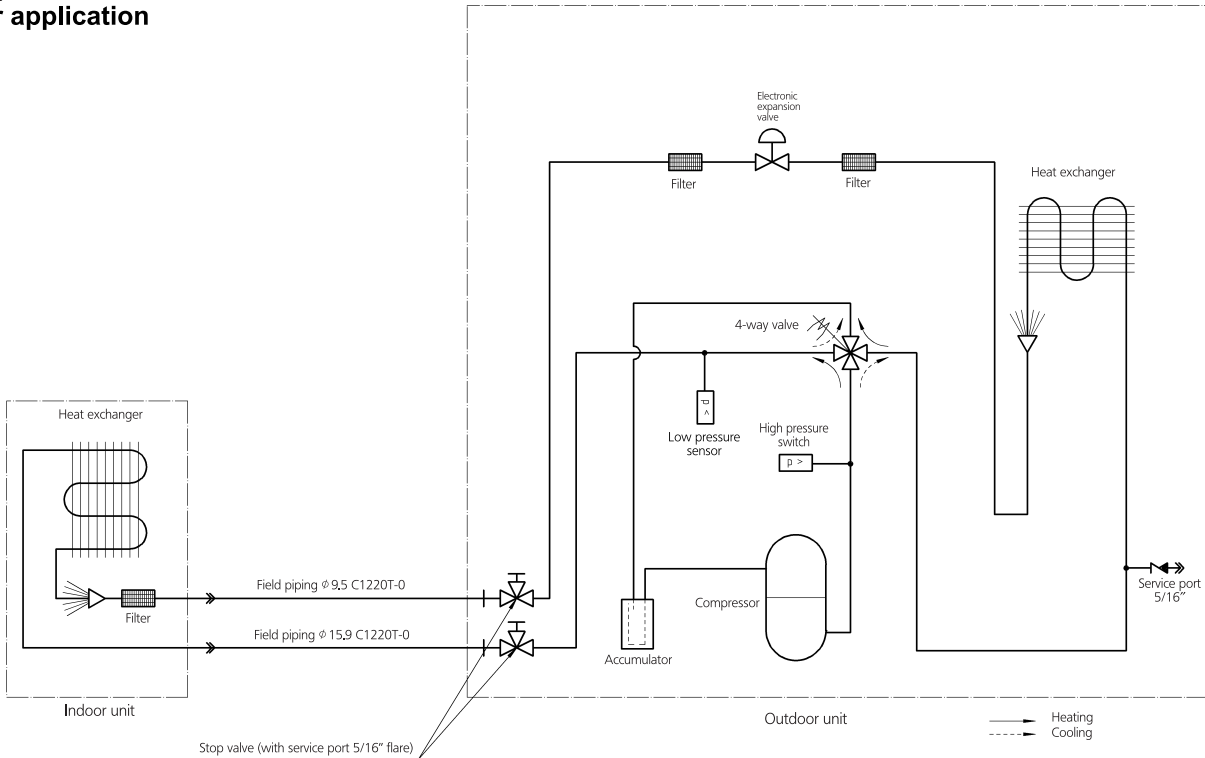


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# 9 Piping diagrams

## 9 - 1 Piping Diagrams

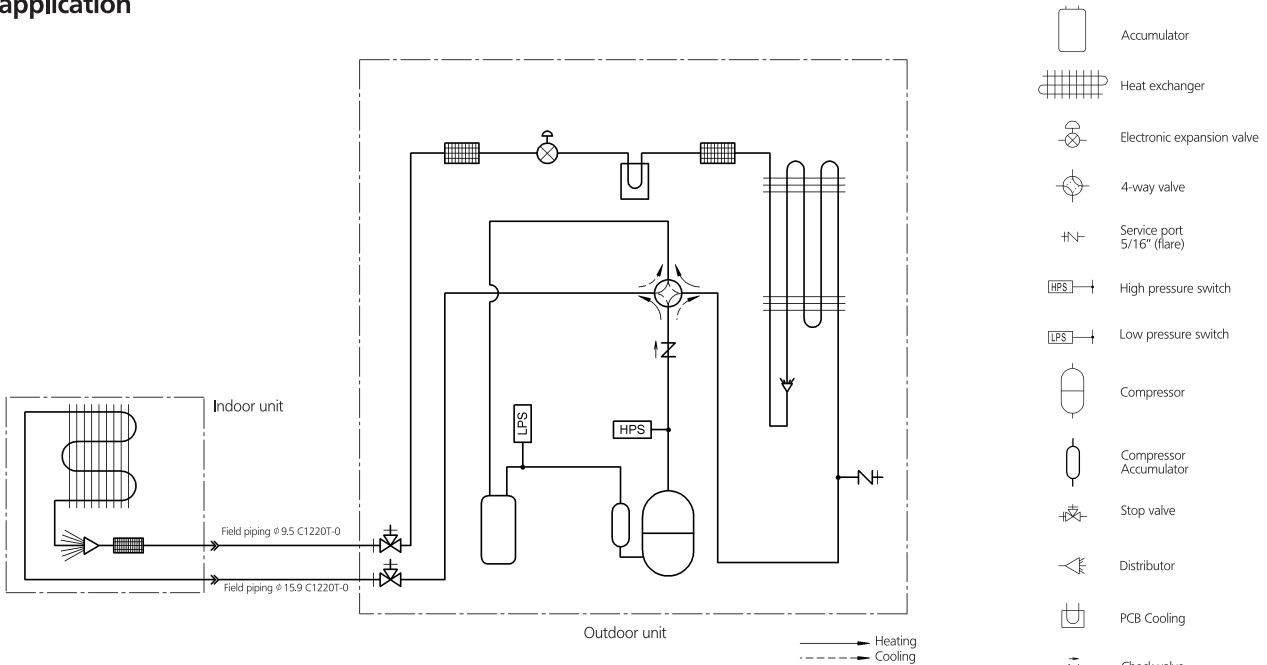
### RZQSG71L3V1 Pair application



Check valve  
 Flare connection  
 Screw connection  
 Flange connection  
 Pinched pipe  
 Spinned pipe

3TW29165-1

### RZQSG100-140L9V1 Pair application



- Accumulator
- Heat exchanger
- Electronic expansion valve
- 4-way valve
- Service port 5/16" (flare)
- High pressure switch
- Low pressure switch
- Compressor
- Compressor Accumulator
- Stop valve
- Distributor
- PCB Cooling
- Check valve
- Filter

Notes:

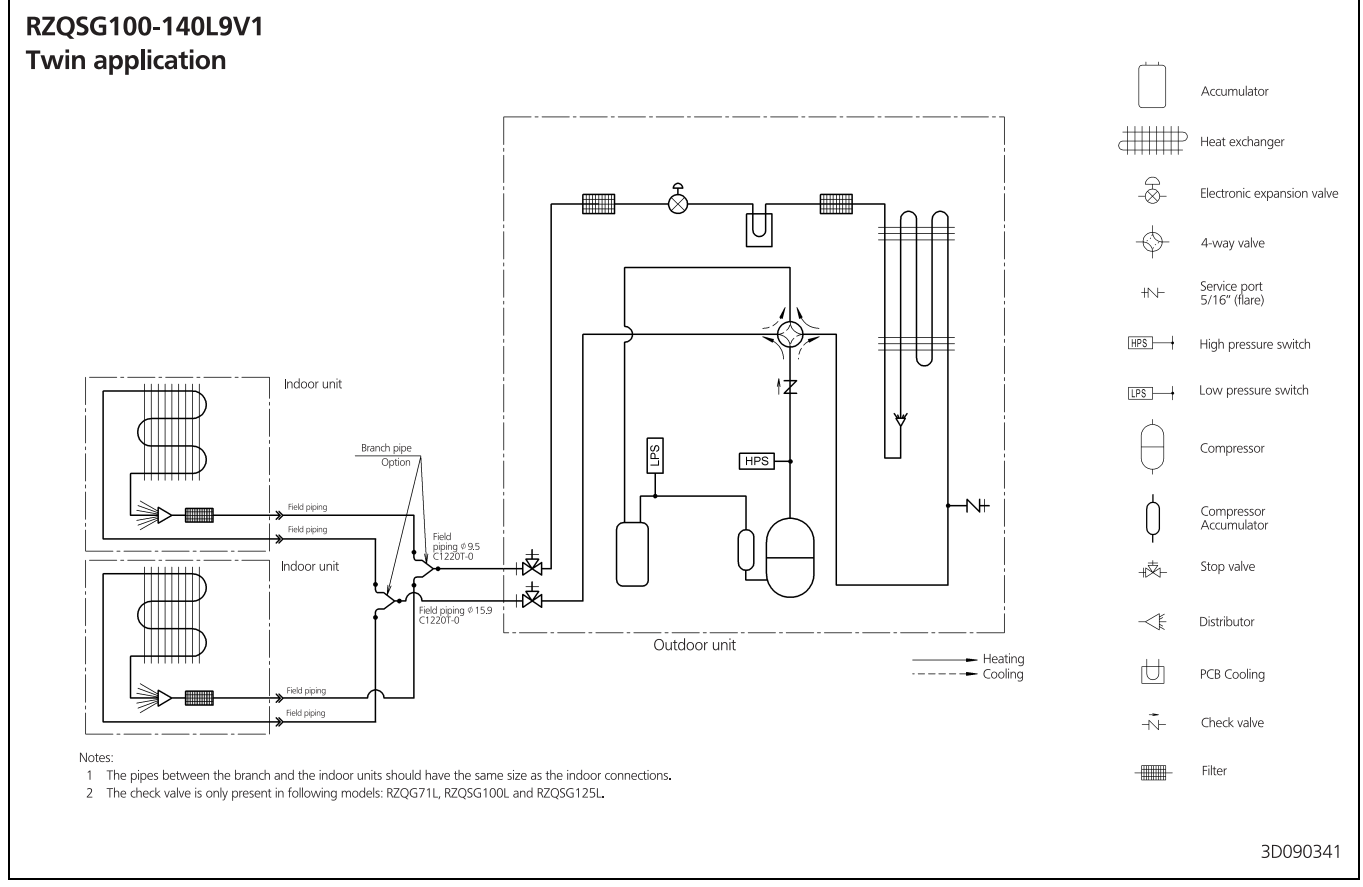
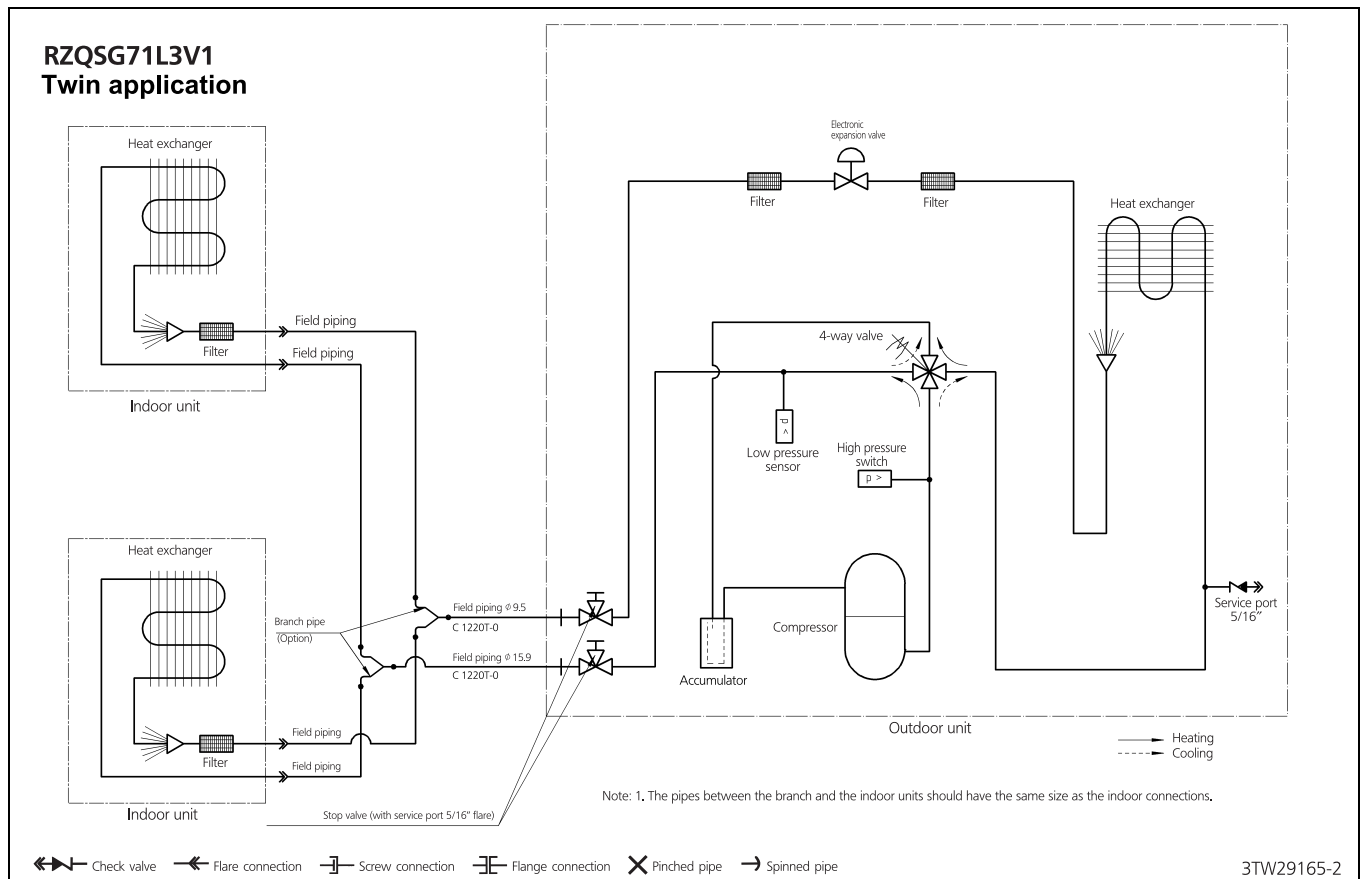
- The pipes between the branch and the indoor units should have the same size as the indoor connections.
- The check valve is only present in following models: RZQSG71L, RZQSG100L and RZQSG125L.

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# 9 Piping diagrams

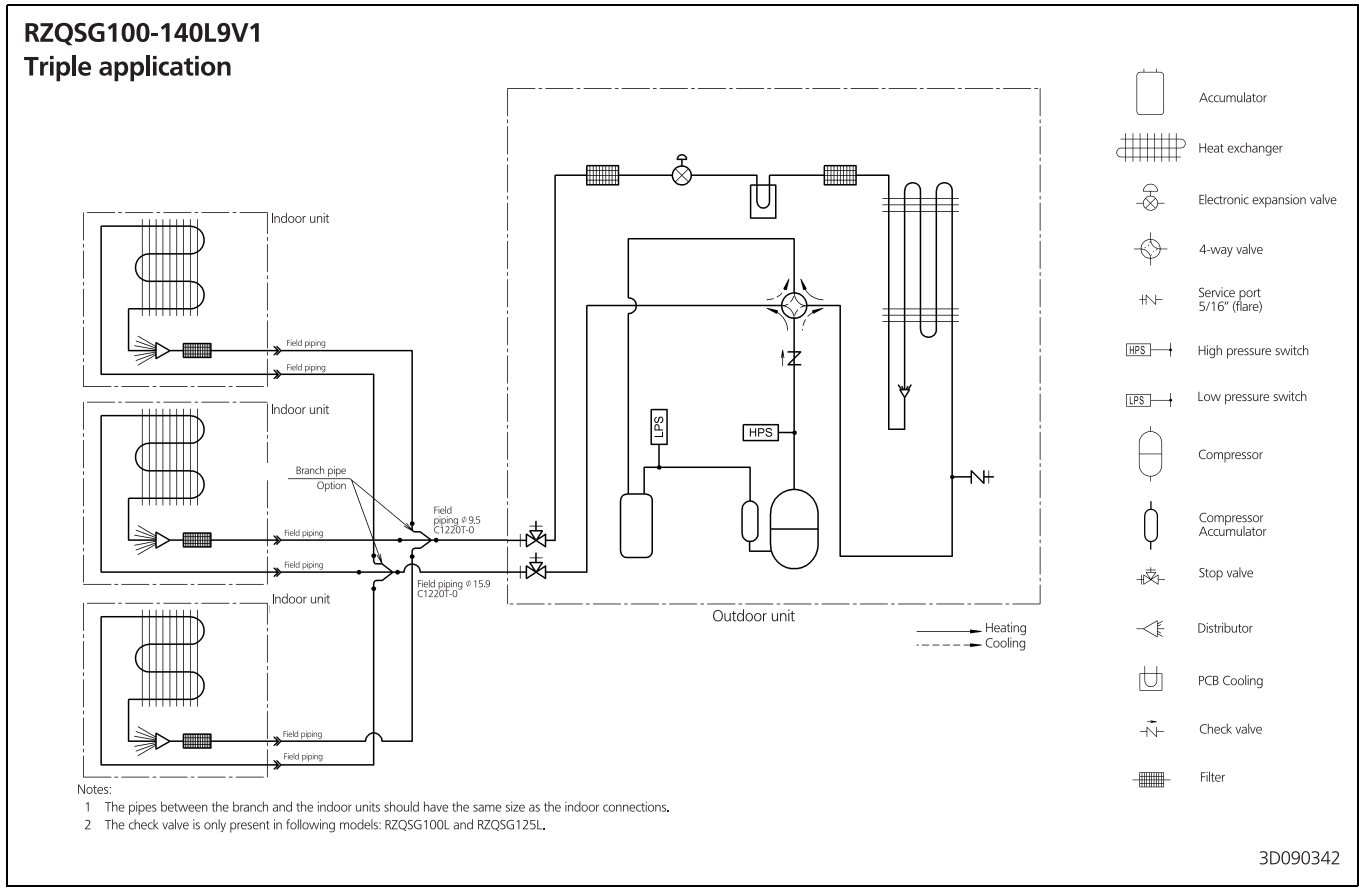
## 9 - 2 Piping Diagram Twin Application

9



# 9 Piping diagrams

## 9 - 3 Piping Diagram Triple Application



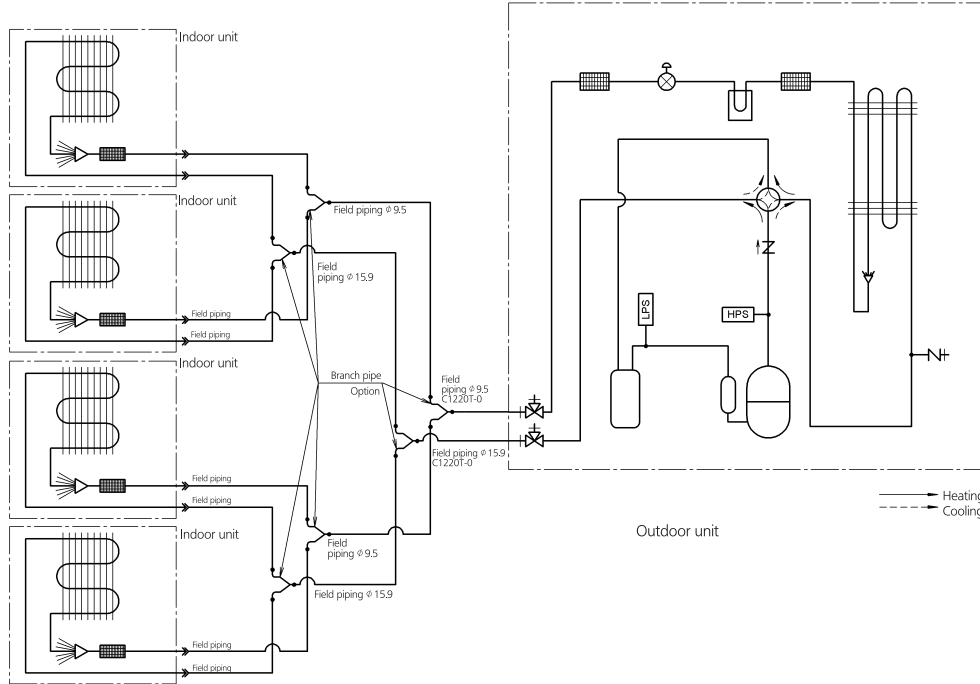
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# 9 Piping diagrams

## 9 - 4 Piping Diagram Double Twin Application

9

**RZQSG125-140L9V1**  
**Double twin application**



**Notes:**

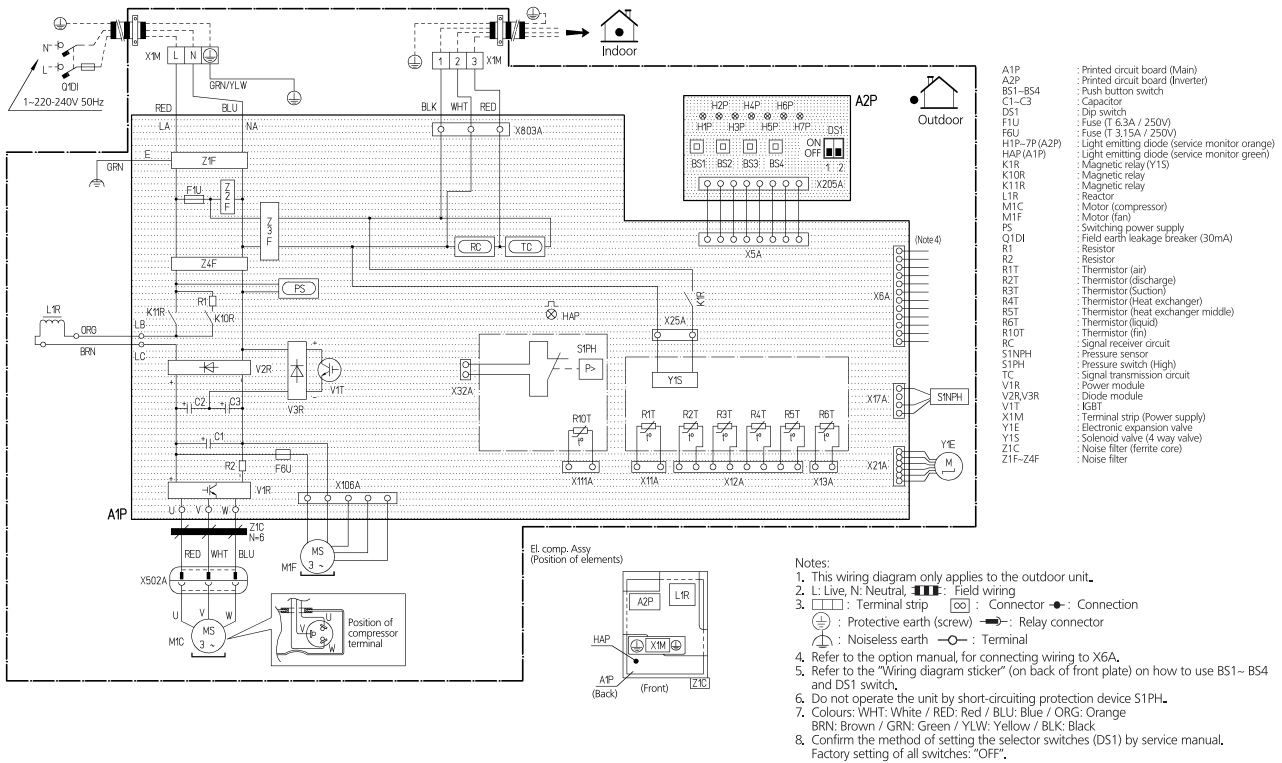
- 1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
- 2 The check valve is only present in following models: RZQSG100L and RZQSG125L.

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# 10 Wiring diagrams

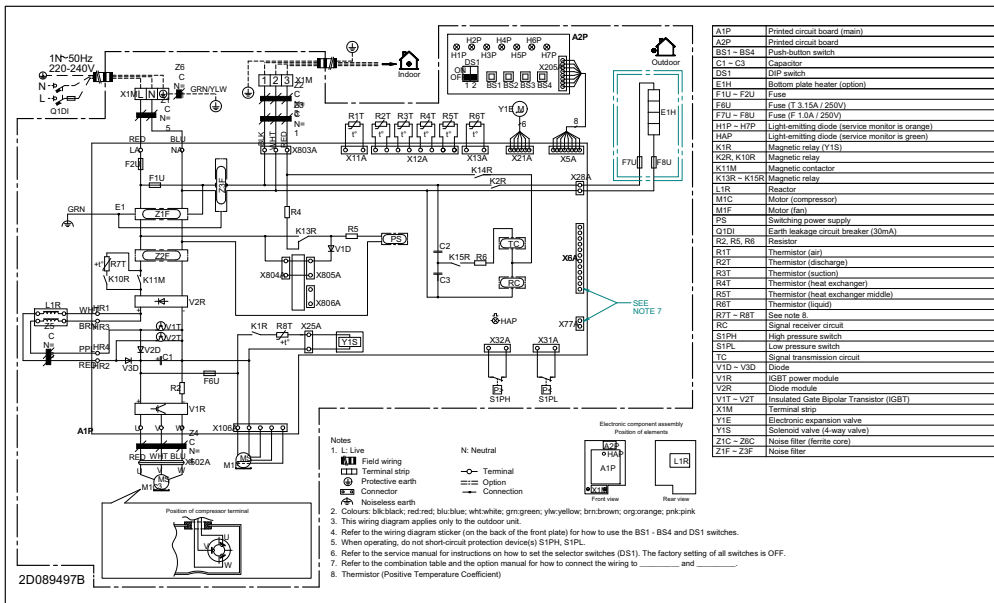
## 10 - 1 Wiring Diagrams - Single Phase

RZQSG71L3V1



2TW30466-1B

RZQSG100L9V1



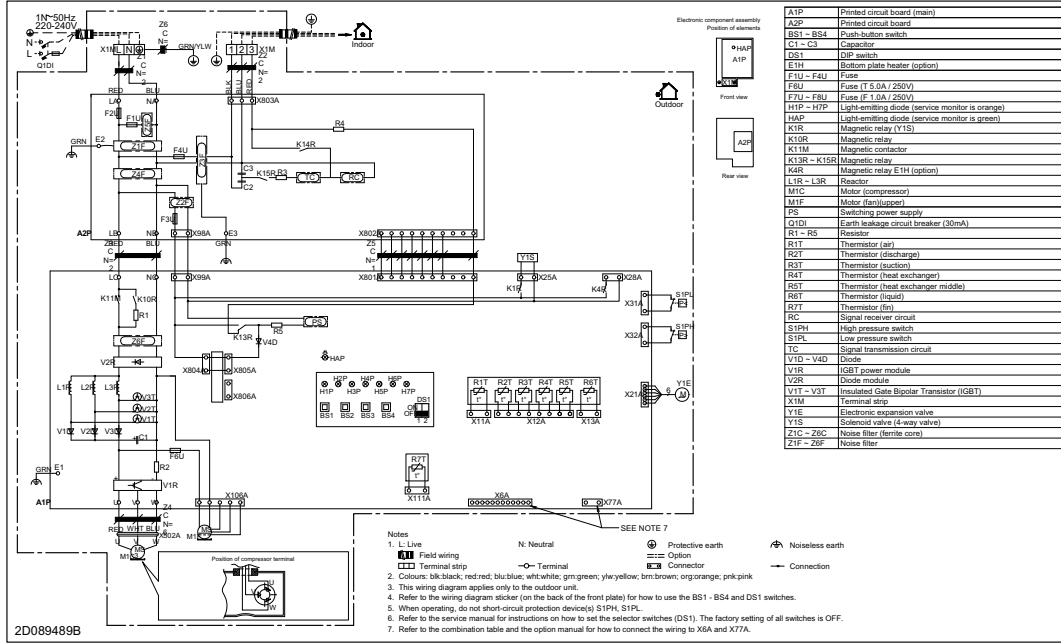
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# 10 Wiring diagrams

## 10 - 1 Wiring Diagrams - Single Phase

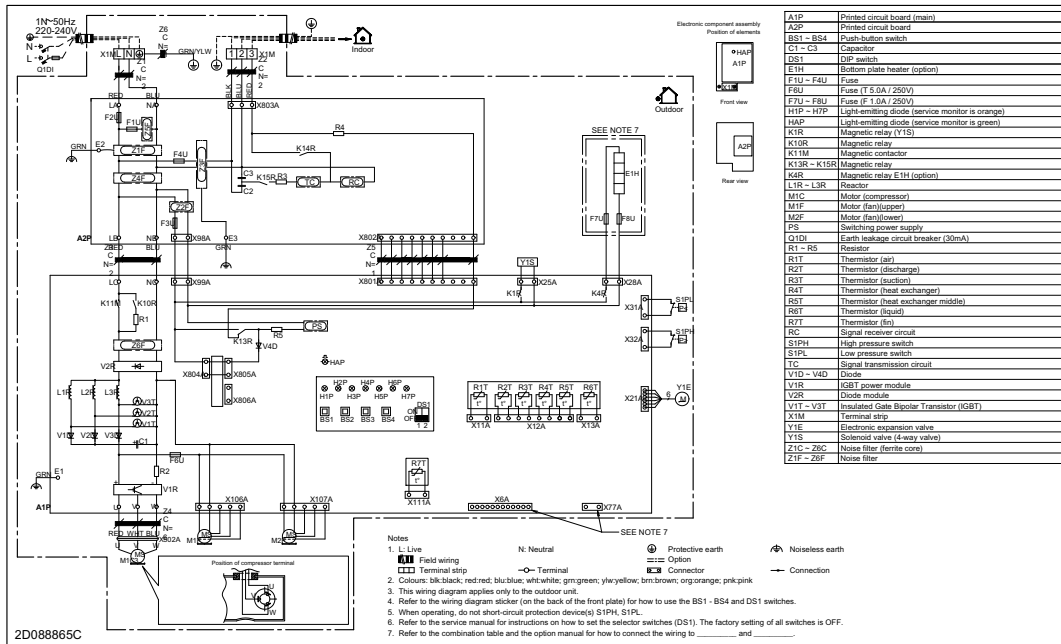
10

RZQSG125L9V1



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RZQSG140L9V1



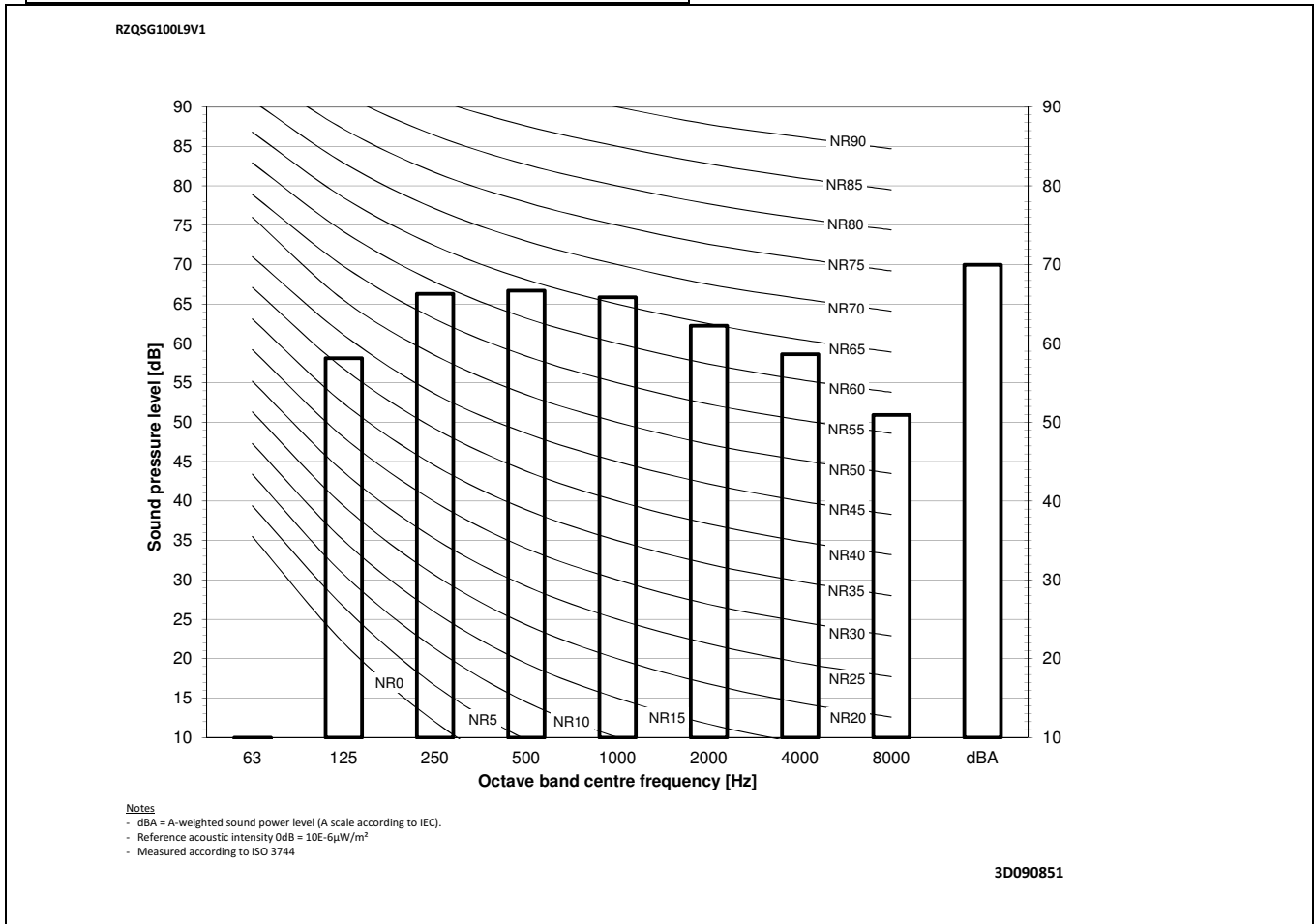
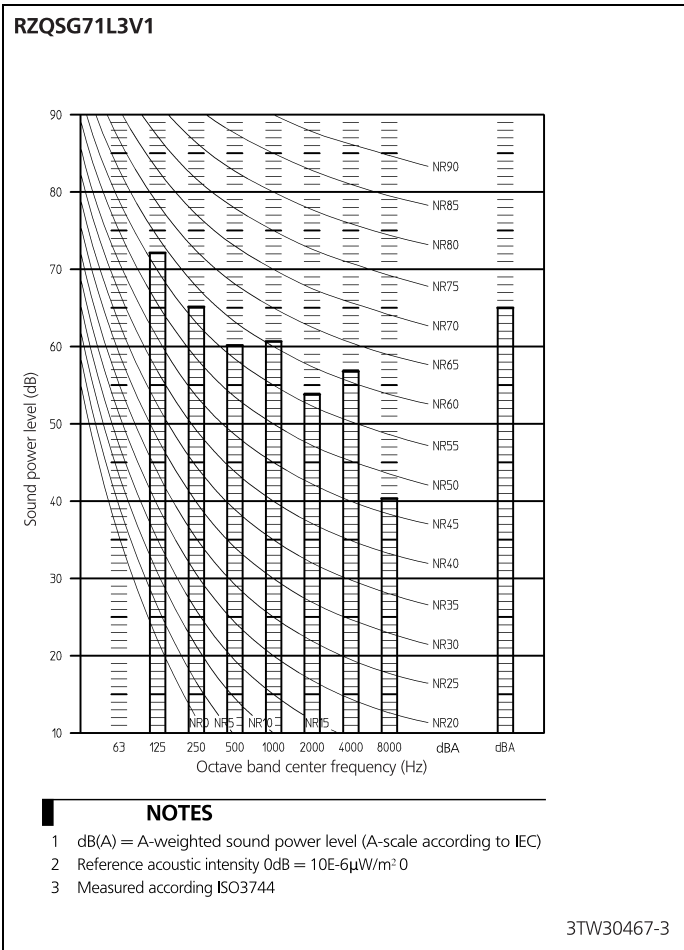
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30



# 11 Sound data

## 11 - 1 Sound Power Spectrum

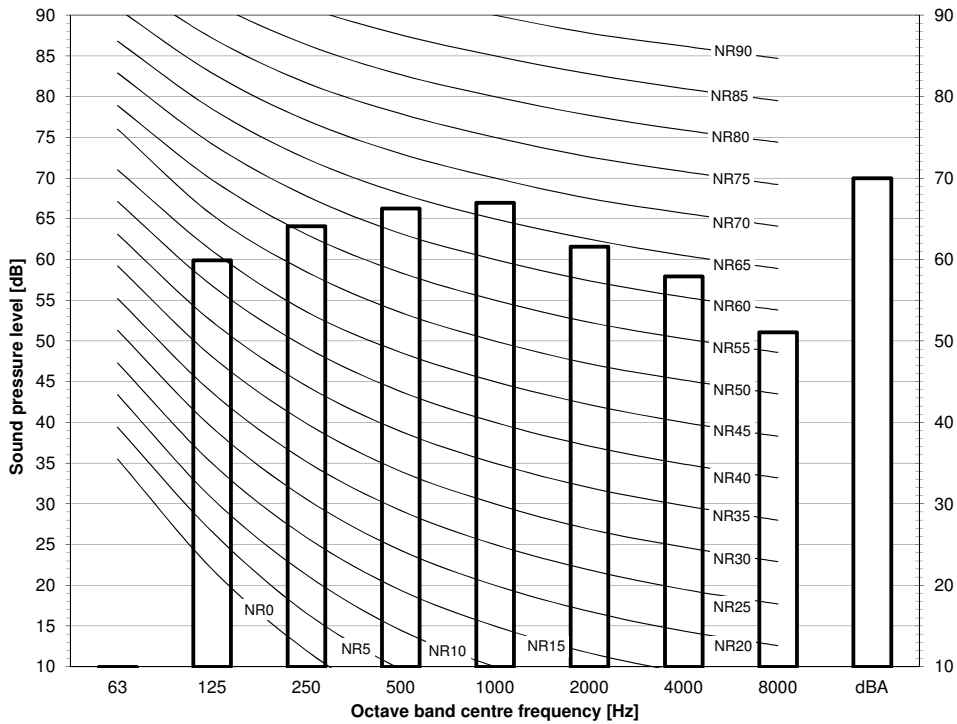


# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

RZQSG125L9V1

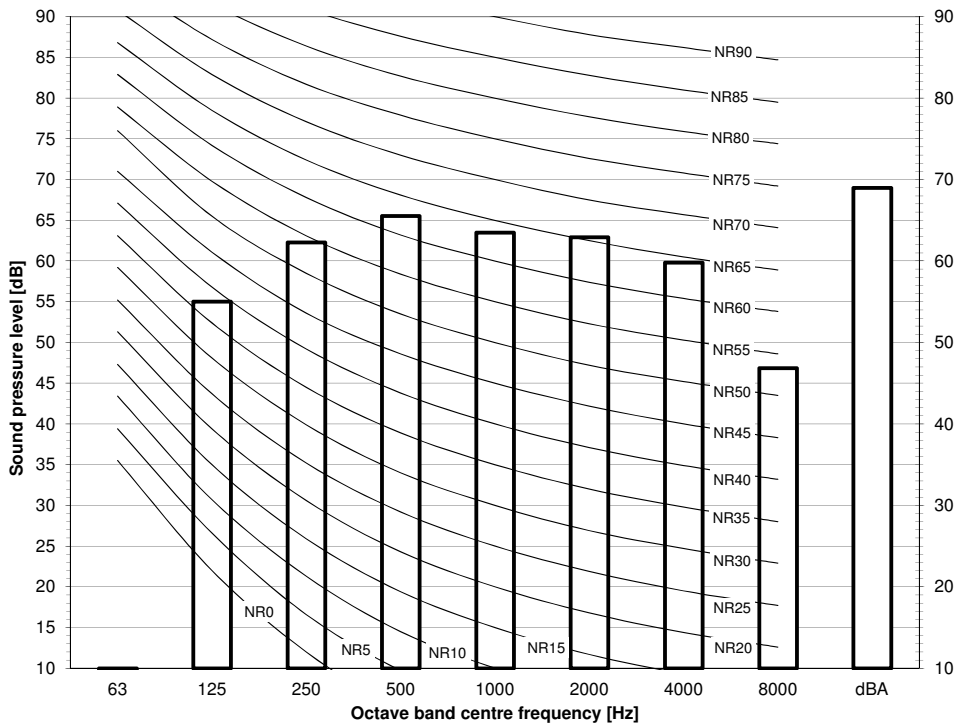


**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity  $0dB = 10E-6\mu W/m^2$
- Measured according to ISO 3744

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RZQSG140L9V1



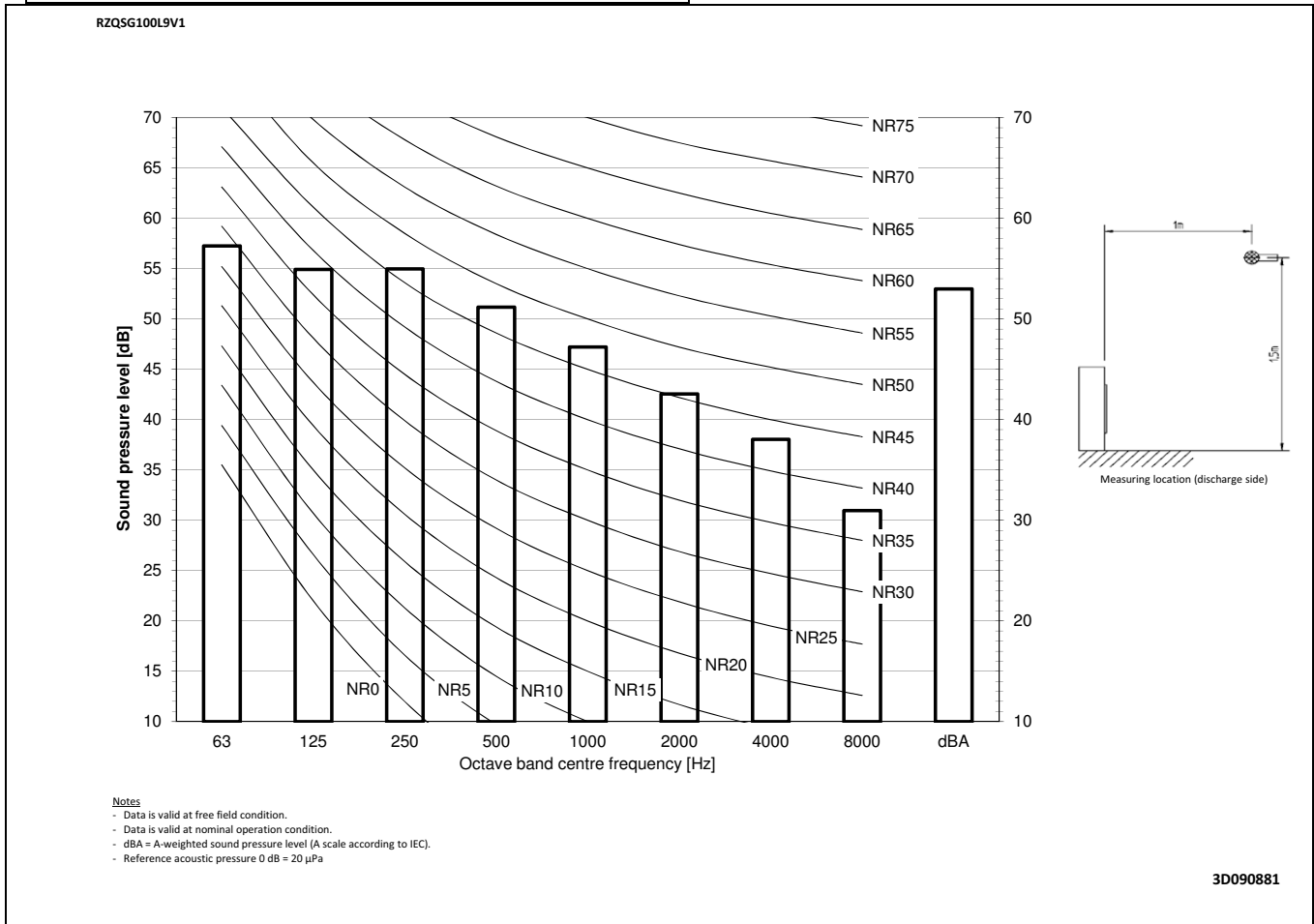
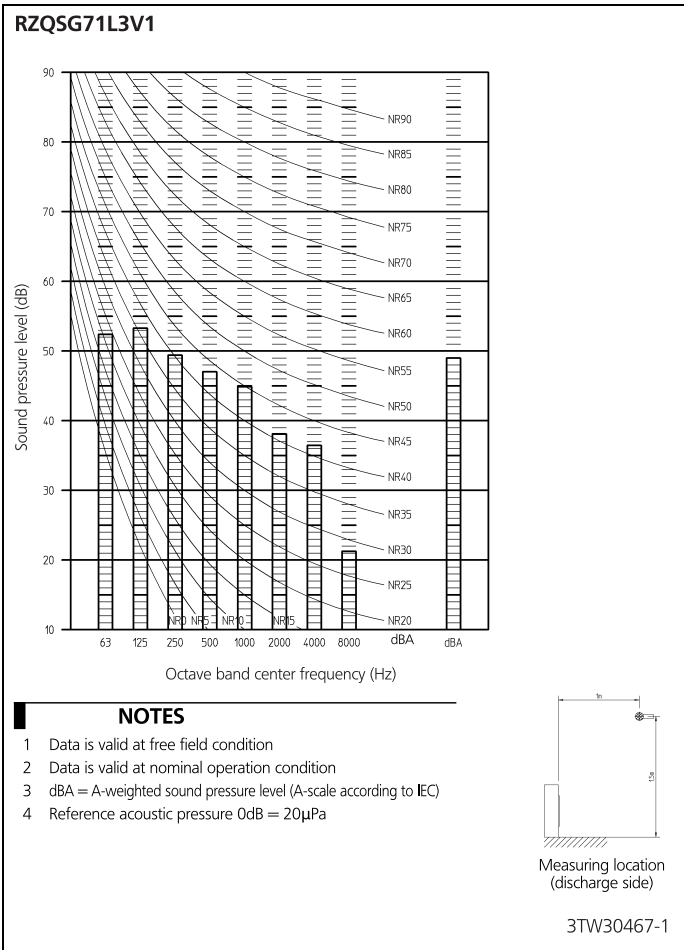
**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity  $0dB = 10E-6\mu W/m^2$
- Measured according to ISO 3744

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# 11 Sound data

## 11 - 2 Sound Pressure Spectrum - Cooling

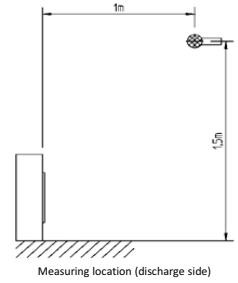
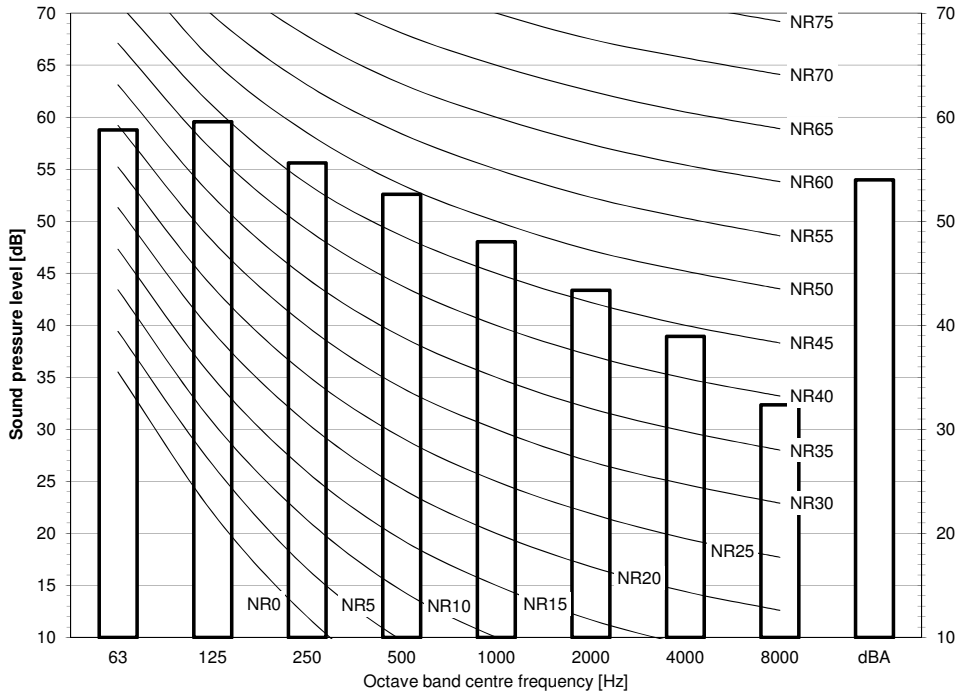


# 11 Sound data

## 11 - 2 Sound Pressure Spectrum - Cooling

11

RZQSG125L9V1

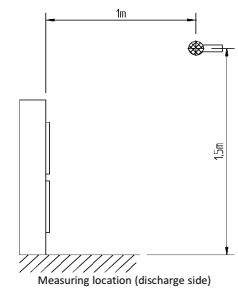
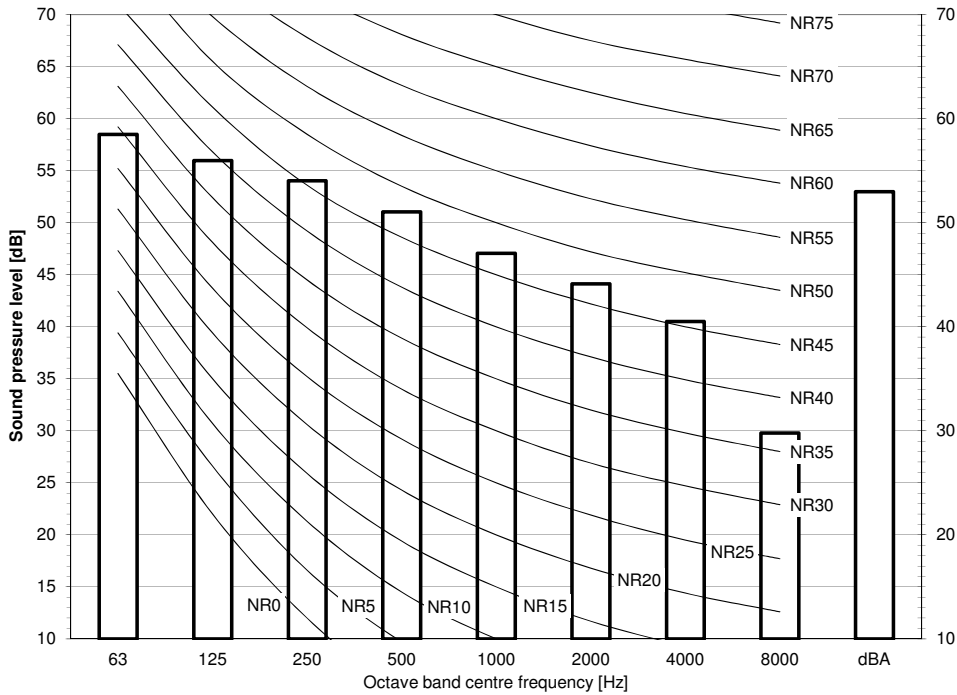


**Notes**

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090882

RZQSG140L9V1



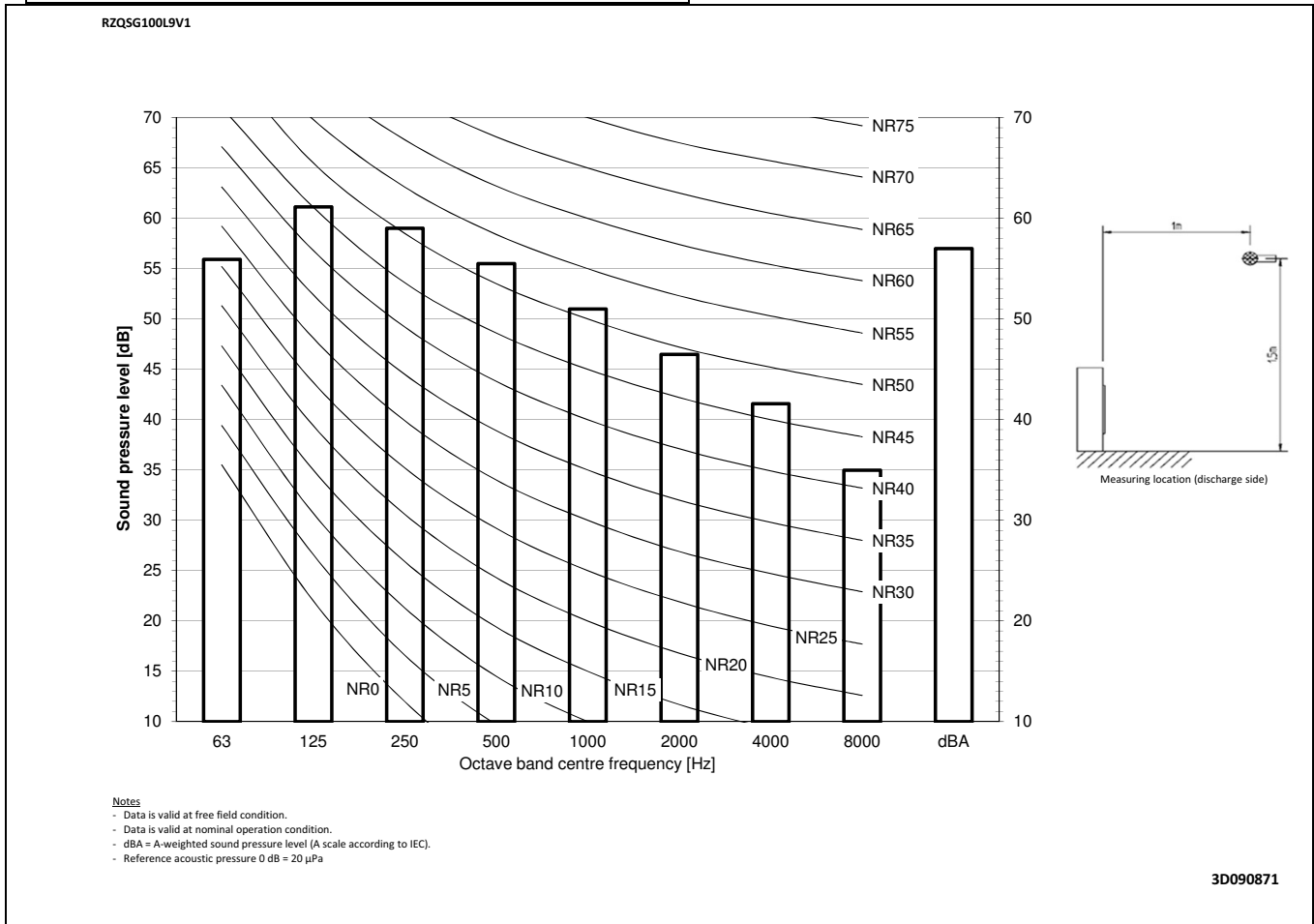
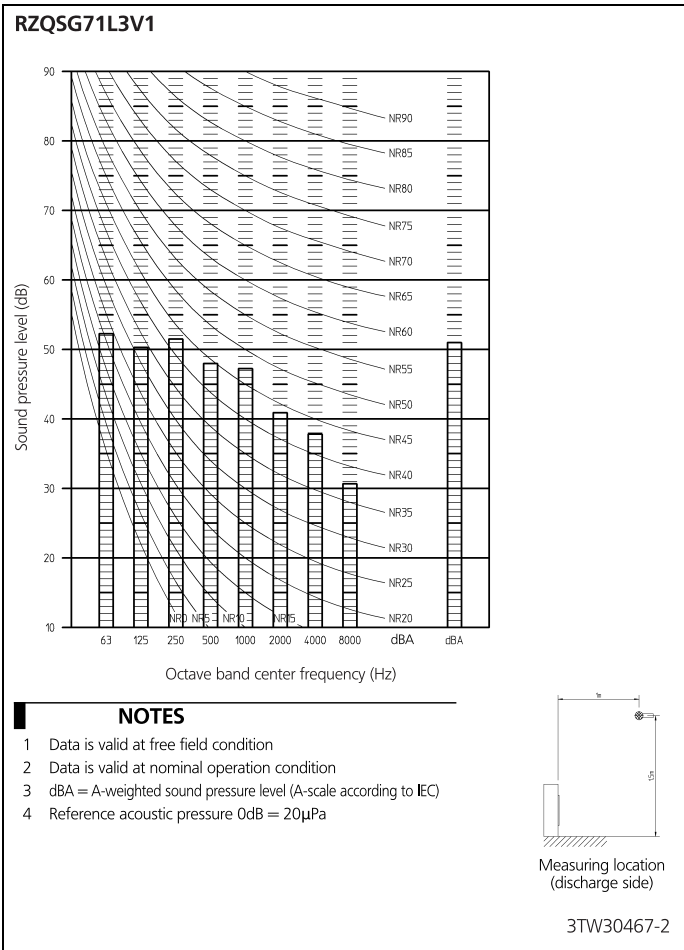
**Notes**

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090883

# 11 Sound data

## 11 - 3 Sound Pressure Spectrum - Heating

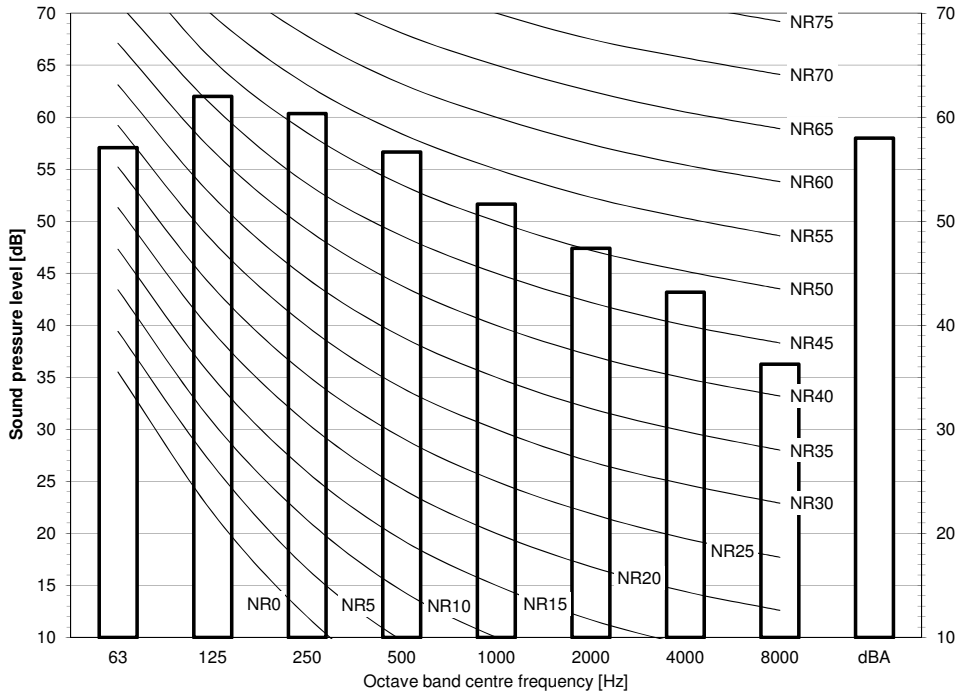


# 11 Sound data

## 11 - 3 Sound Pressure Spectrum - Heating

11

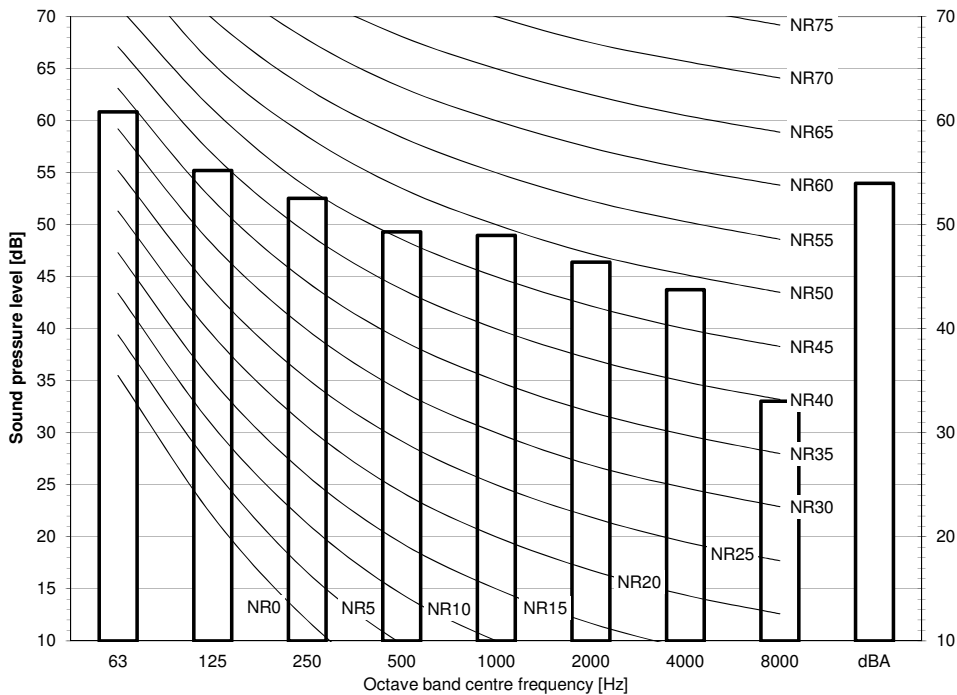
RZQSG125L9V1



- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 μPa

3D090872

RZQSG140L9V1

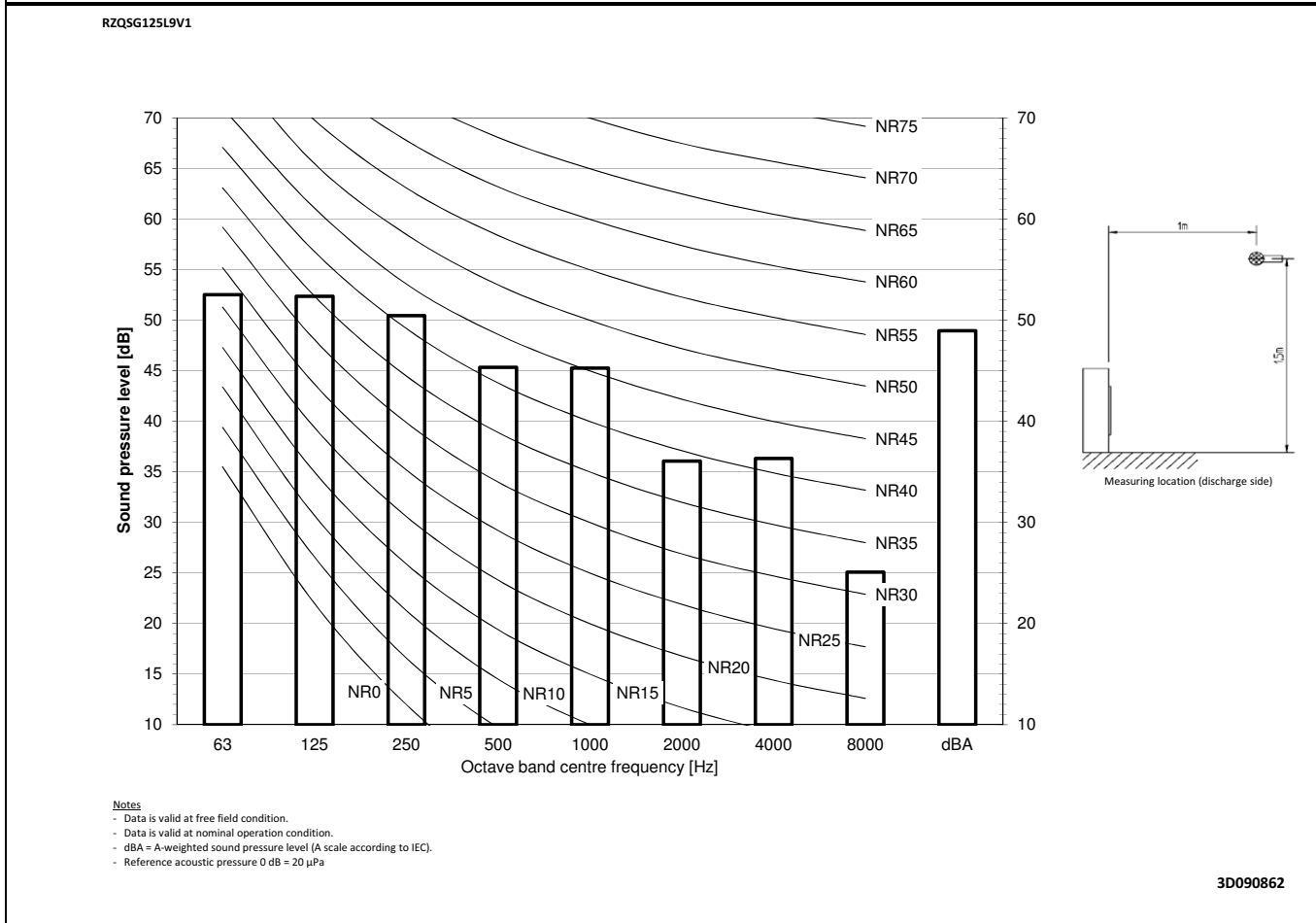
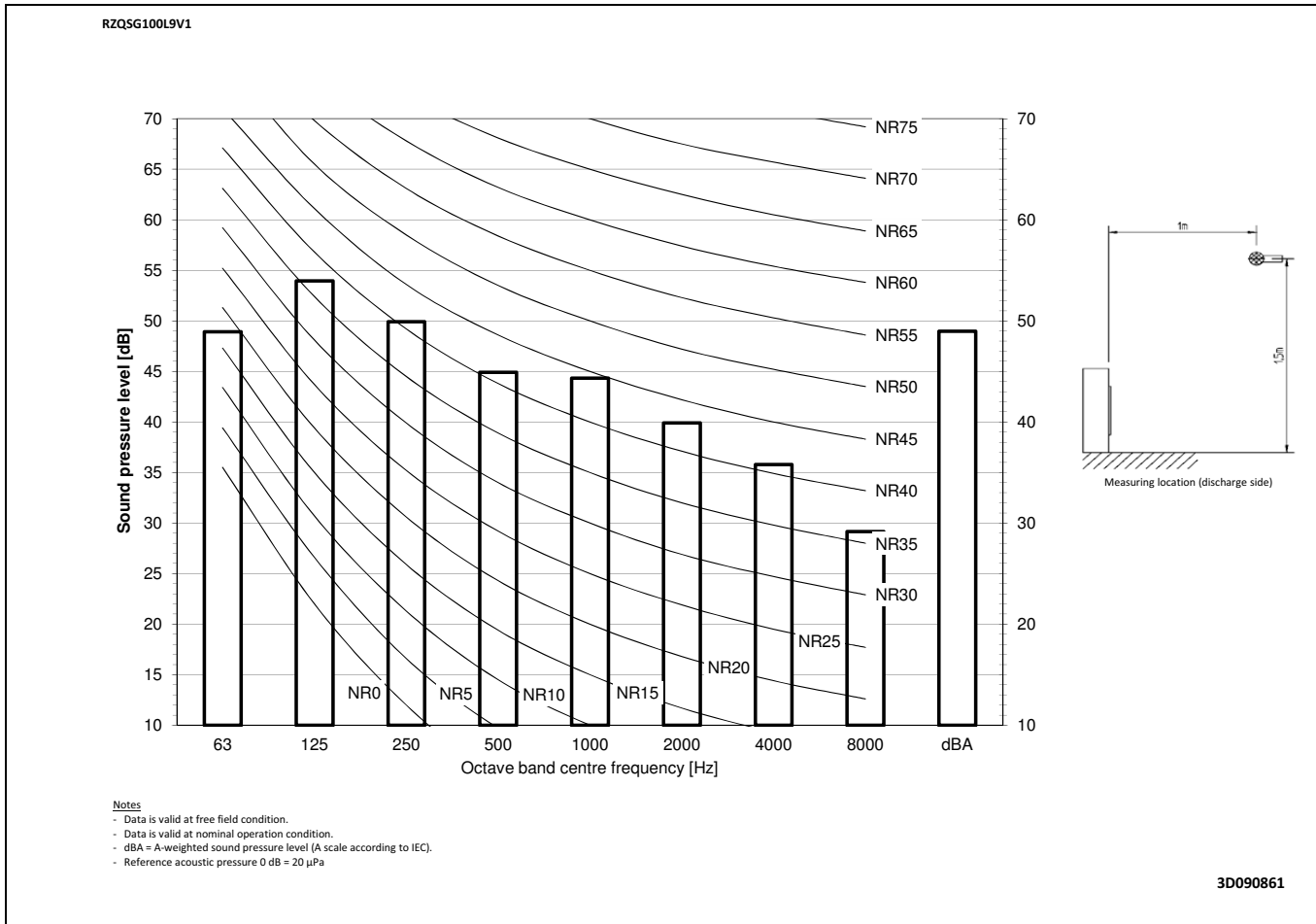


- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 μPa

3D090873

# 11 Sound data

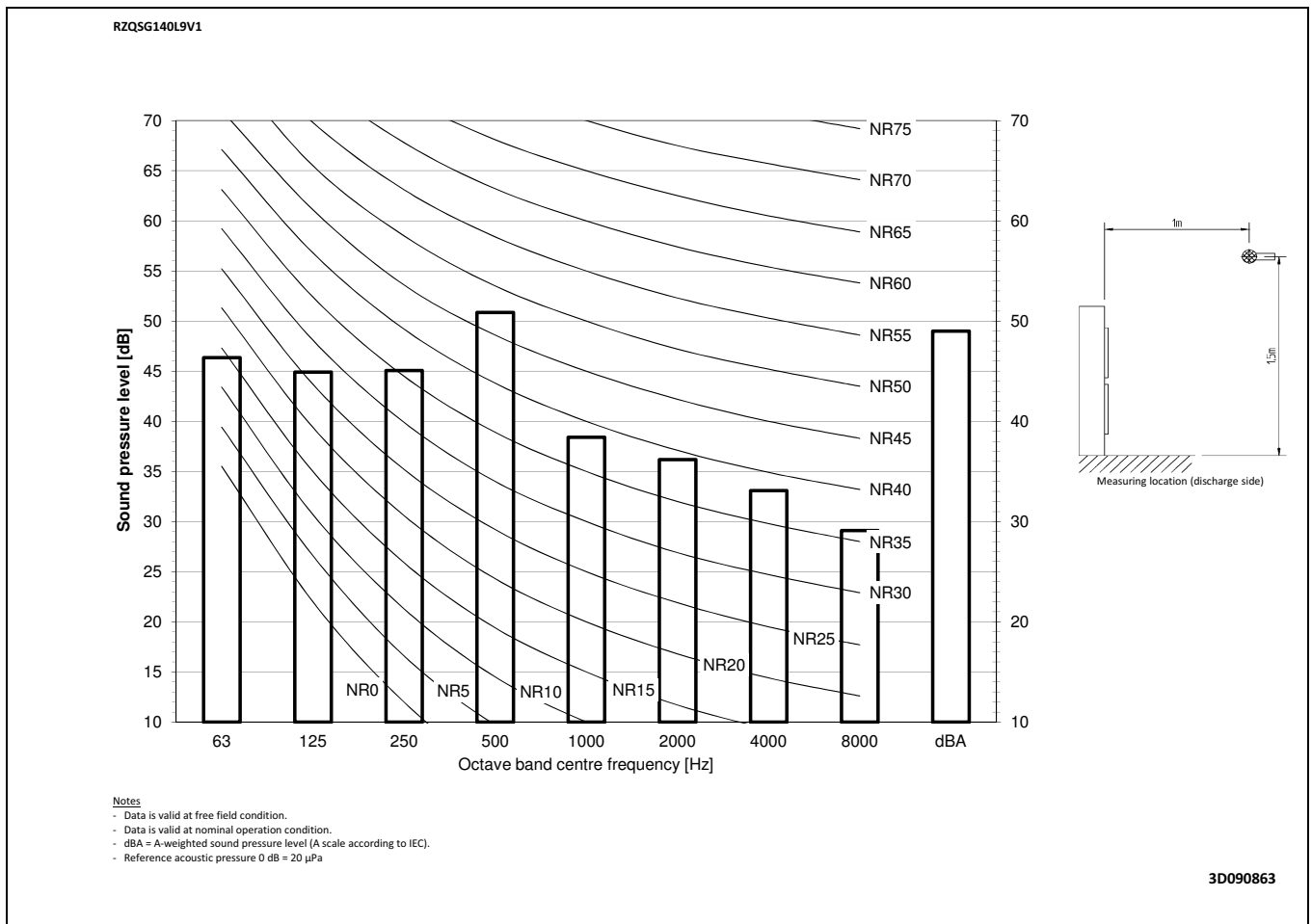
## 11 - 4 Sound Pressure Spectrum Quiet Mode



# 11 Sound data

## 11 - 4 Sound Pressure Spectrum Quiet Mode

11



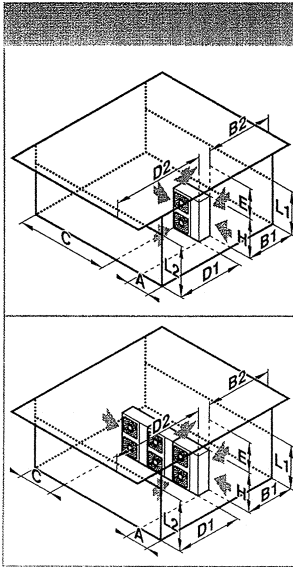


# 12 Installation

## 12 - 1 Installation Method

### RZQSG71L3V1

#### A. Non stacked installation



	↖	↗	↘	↙		A	B1	B2	C	D1	D2	E	L1/L2
✓	✓	✓	✓	✓		≥50(100)							
✓	✓	✓	✓	✓		≥100	≥100		≥100				
✓	✓	✓	✓	✓		≥100	≥100				≤500	≥1000	
✓	✓	✓	✓	✓		≥150	≥150		≥150		≤500	≥1000	
✓	✓	✓	✓	✓							≥500		
✓	✓	✓	✓	✓					≤500		≥500		≥1000
✓	✓	✓	✓	✓		L1<L2	≥50(100)				≥500		
✓	✓	✓	✓	✓		L2<L1	≥50(100)				≥500		
✓	✓	✓	✓	✓		L1+L2	≥150(250)	≤500		≥750		≥1000	0<L1≤1/2H 0<L1≤1/2H
✓	✓	✓	✓	✓		L1+L2	≥150(250)	≤500		≥1000		≥1000	0<L1≤1/2H 0<L1≤1/2H
✓	✓	✓	✓	✓		L2≤H	≥50(100)			≥500	≥500	≥1000	0<L2≤1/2H 1/2H<L2≤H
✓	✓	✓	✓	✓		L2≤H	≥100(200)			≥500	≥500	≥1000	0<L2≤1/2H 1/2H<L2≤H
✓	✓	✓	✓	✓		L2≤H	≥100(200)			≥1000	≥1000	≥1000	0<L2≤1/2H 1/2H<L2≤H
✓	✓	✓	✓	✓		L1+L2	≥200(300)		≥1000		≤500	≥1000	
✓	✓	✓	✓	✓		L1+L2	≥200(300)		≥1000		≤500	≥1000	
✓	✓	✓	✓	✓		L1+L2	≥150(250)		≥1000		≥1000	≥1000	0<L1≤1/2H
✓	✓	✓	✓	✓		L2<L1	≥150(250)		≥1000		≥1000	≥1000	0<L2≤1/2H
✓	✓	✓	✓	✓		L2<L1	≥200(300)		≥1000		≥1000	≥1000	1/2H<L2≤H
✓	✓	✓	✓	✓		L1+L2	≥200(300)	≤500		≥1000		≥1000	0<L1≤1/2H 1/2H<L1≤H
✓	✓	✓	✓	✓		L1+L2	≥200(300)	≤500		≥1250		≥1000	0<L1≤1/2H 1/2H<L1≤H
✓	✓	✓	✓	✓		L2≤H	≥150(250)			≥1000	≤500	≥1000	0<L2≤1/2H 1/2H<L2≤H
✓	✓	✓	✓	✓		L2≤H	≥200(300)			≥1000	≤500	≥1000	0<L2≤1/2H 1/2H<L2≤H
✓	✓	✓	✓	✓		L2≤H	≥200(300)			≥1000	≤500	≥1000	0<L2≤1/2H 1/2H<L2≤H

Legend Unit: mm

- ↖ Suction side obstacle
- ↗ Discharge side obstacle
- ↘ Left side obstacle
- ↙ Right side obstacle
- ↕ Top side obstacle
- ✓ Obstacle is present

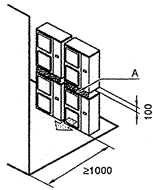
1 In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

2 In these cases, only 2 units can be installed.

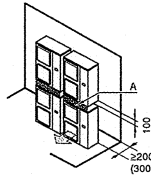
✗ This situation is not allowed.

#### B. Stacked installation

##### 1. Obstacles exist in front of the outlet side



##### 2. Obstacles exist in front of the air inlet

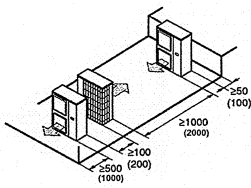


Do not stack more than one unit.  
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.  
Get the portion A sealed so that air from the outlet does not bypass.

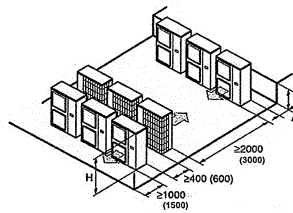
Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

#### C. Multiple-row installation

##### 1. Installation of one unit per row



##### 2. Installing multiple units (2 units or more) in lateral connection per row



Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

# 12 Installation

## 12 - 1 Installation Method

12

### RZQSG100-140L9V1

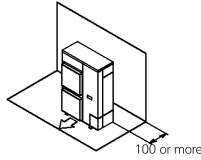
#### Installation service space

The measure of these values is "mm".

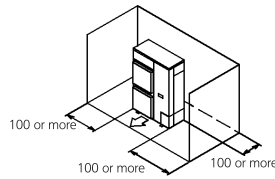
#### (A) When there are obstacles on suction sides.

##### • No obstacle above

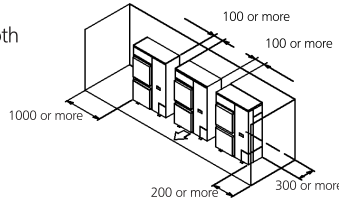
- ① Stand-alone installation
  - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

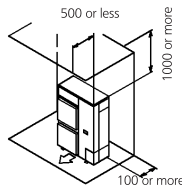


- ② Series installation (2 or more) (Note 1)
  - Obstacle on the suction side and both sides

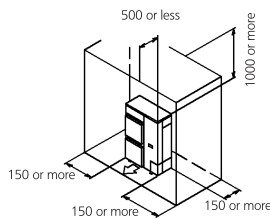


##### • Obstacle above, too.

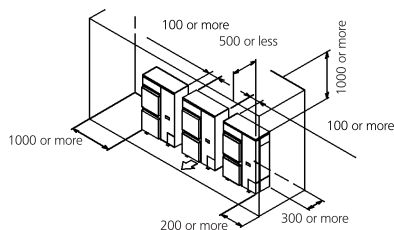
- ① Stand-alone installation
  - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



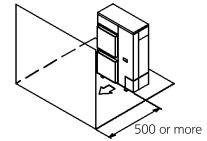
- ② Series installation (2 or more) (Note 1)
  - Obstacle on the suction side and both sides



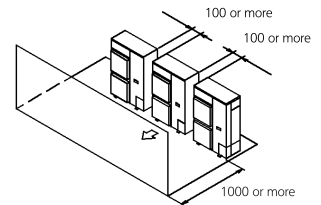
#### (B) When there are obstacles on discharge sides.

##### • No obstacle above

- ① Stand-alone installation
  - Obstacle on the discharge side only

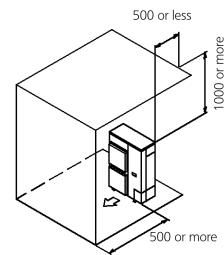


- ② Series installation (2 or more) (Note 1)
  - Obstacle on the discharge side only

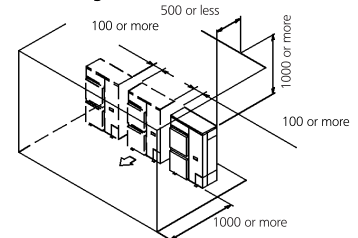


##### • Obstacle above, too

- ① Stand-alone installation
  - Obstacle on the discharge side only, too



- ② Series installation (2 or more) (Note 1)
  - Obstacle on the discharge side



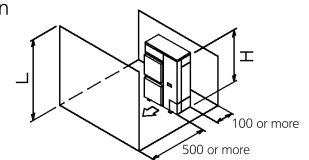
#### (C) When there are obstacles on both suction and discharge sides.:

##### Pattern 1

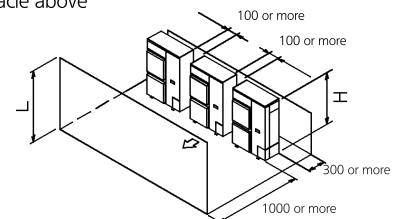
When the obstacles on the discharge side is higher than the unit. (L>H)  
(There is no limit for the height of obstructions on the suction side.)

##### • No obstacle above

- ① Stand-alone installation
  - No obstacle above



- ② Series installation (2 or more) (Note 1)
  - No obstacle above



3D069554

# 12 Installation

## 12 - 1 Installation Method

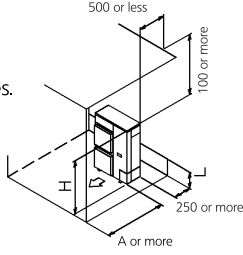
### RZQSG100-140L9V1

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



- ② Series installation (2 or more) (Note 1, 2)
  - When there are obstacles on suction, discharge and top sides.

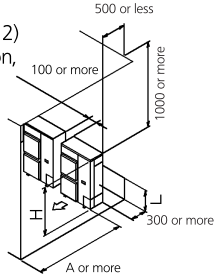
The relations between H, A and L are as follows.

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

Limit of series installation is 2 units.

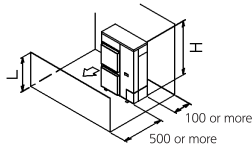
#### Pattern 2

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

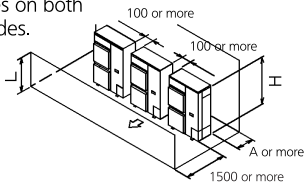
- ① Stand-alone installation
  - No obstacle above



- ② Series installation (2 or more) (Note 1, 2)
  - When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

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

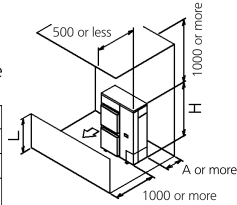


#### ● Obstacle above, too

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

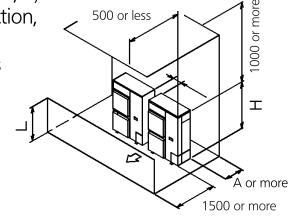


- ② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.
- The relations between H, A and L are as follows.

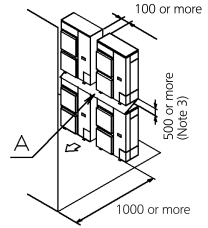
	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	250 or more 300 or more
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.

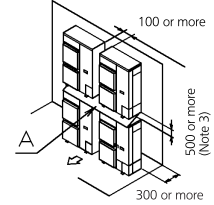


#### (D) Double-decker installation

- 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.

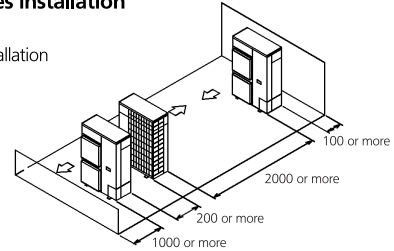


- ② Obstacle on the suction side. (Note 1)
  - Do not exceed two levels for stacked installation.
  - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
  - Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



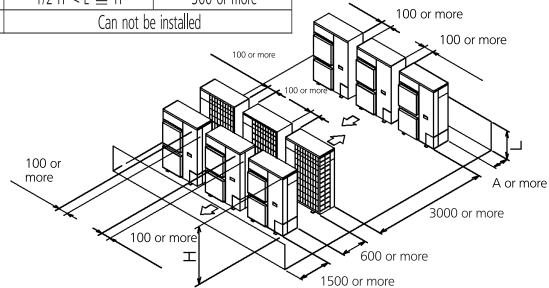
#### (E) Multiple rows of series installation (on the rooftop, etc.)

- 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
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	250 or more 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.

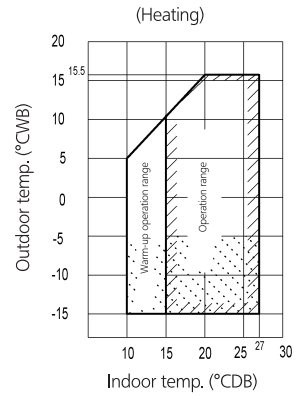
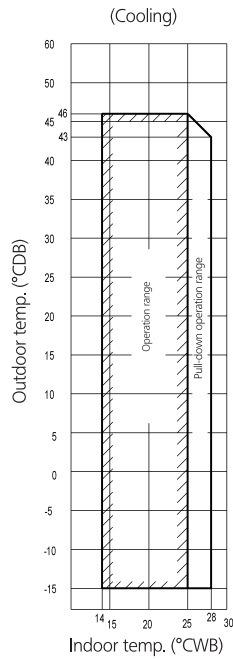
3D069554

# 13 Operation range


## 13 - 1 Operation Range

13

### RZQSG-L3/9V1



Notes:

- 1 Depending on operation and installation conditions, the outdoor unit can change over to defrost operation (anti freeze-up).
- 2 To reduce the defrost operation (anti freeze-up) frequency it is recommended to install the outdoor unit in a location not exposed to wind.
- 3 In case of high humidity conditions (>92%) in this  operation area, an RZQG model should be used instead of an RZQSG model. This to avoid freeze-up of the outdoor unit.

3D086703



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