

Air Conditioning
Technical Data

RZQG-L9V1



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RZQG-L9V1

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1 Features

Industry leading technology for commercial applications and even for technical rooms

- Top efficiency: - energy labels up to A++ in both cooling and heating - 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
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits high sensible, infrastructure cooling applications
- Replace existing R-22 or R-407C systems without having to replace the piping
- Extended operation range down to -20°C in heating and down to -15°C in cooling
- With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
- Maximum piping length up to 75m, 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
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.



Infrastructure cooling



Inverter



Auto cooling-heating changeover

2 Specifications

2-1 Capacity and Power input					FAQ71C9/RZQG71L9V1	FAQ100C9/RZQG100L9V1	FAQ100C9/RZQG71L9V1
Indoor unit					FAQ71C	-	
Outdoor unit					RZQG71L9V1	-	
Cooling capacity	Nom.		kW		6.8	9.5	-
Heating capacity	Nom.		kW		7.5	10.8	-
Power input	Cooling	Nom.	kW		2.00	2.63	-
	Heating	Nom.	kW		2.03	3.00	-
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		
		Pdesign	kW		6.80	9.50	6.80
		SEER			6.43	6.11	6.51
		Annual energy consumption	kWh		371	545	366
	Heating (Average climate)	Energy label			A+		
		Pdesign	kW		6.33	10.20	6.33
		SCOP/A			4.02	4.01	4.02
		Annual energy consumption	kWh		2,205	3,562	2,205
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	66	64
	Sound power level indoor	Cooling	Nom.	dBA	61	65	
Nominal efficiency	EER				3.40	3.62	-
	COP				3.70	3.61	-
	Annual energy consumption			kWh	1,000 (1)	1,315	-
	Energy label	Cooling			A		-
		Heating			A		-

Notes

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

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

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

2-2 Capacity and Power input				FBQ71D/ RZQG71L9V1	FBQ100D/ RZQG100L9V1	FBQ125D/ RZQG125L9V1	FBQ140D/ RZQG140L9V1	FBQ100D/ RZQG71L9V1	FBQ140D/ RZQG100L9V1	FBQ140D/ RZQG125L9V1
Indoor unit				FBQ71D	FBQ100D	FBQ125D	FBQ140D	FBQ100D	FBQ140D	
Outdoor unit				RZQG71L9 V1	RZQG100L 9V1	RZQG125L 9V1	RZQG140L 9V1	RZQG71L9 V1	RZQG100L 9V1	RZQG125L 9V1
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	1.89 (1)	2.49 (1)	3.63 (1)	4.00 (1)	-		
	Heating	Nom.	kW	1.87 (1)	2.45 (1)	3.46 (1)	4.31 (1)	-		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++	A+	A++	-	A++	A+	A++
		Pdesign	kW	6.80	9.50	12.00	-	6.80	9.50	12.00
		SEER		6.16	5.87	6.11	-	6.16	5.87	6.11
		Annual energy consumption	kWh	386	566	687	-	386	566	687
	Heating (Average climate)	Energy label		A+	A++	A+	-	A+	A++	A+
		Pdesign	kW	6.00	11.30	12.70	-	6.00	11.30	12.70
		SCOP/A		4.31	4.78	4.28	-	4.31	4.78	4.28
		Annual energy consumption	kWh	1,949	3,310	4,154	-	1,949	3,310	4,154
Nominal efficiency	EER			3.60 (2)	3.81 (2)	3.31 (2)	3.35 (2)	-		
	COP			4.01 (2)	4.41 (2)	3.90 (2)	3.60 (2)	-		
	Annual energy consumption		kWh	944	1,247	1,813	-			
	Energy label	Cooling		A			-			
		Heating		A			-			

2 Specifications

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

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2-3 Capacity and Power input					FCQG71F/ RZQG71L9V1	FCQG100F/ RZQG100L9V1	FCQG125F/ RZQG125L9V1	FCQG140F/ RZQG140L9V1	FCQG100F/ RZQG71L9V1	FCQG140F/ RZQG100L9V1	FCQG140F/ RZQG125L9V1
Indoor unit					FCQG71F	FCQG100F	FCQG125F	-	FCQG100F	FCQG140F	
Outdoor unit					RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1	RZQG71L9V1	RZQG100L9V1	RZQG125L9V1
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	2.01	2.45	3.22	-				
	Heating	Nom.	kW	1.89	2.60	3.72	-				
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A+	-	A++		A+
		Pdesign	kW	6.80	9.50	12.00	-	6.80	9.50	12.00	
		SEER			6.72	6.80	6.00	-	6.80		6.00
		Annual energy consumption	kWh	355	489	700	-	350	489	700	
	Heating (Average climate)	Energy label			A+	A++	A+	-	A+	A++	A+
		Pdesign	kW	6.33	11.30	12.66	-	6.33	11.30	12.66	
		SCOP/A			4.20	4.61	4.10	-	4.20	4.61	4.10
		Annual energy consumption	kWh	2,110	3,432	4,323	-	2,110	3,432	4,323	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	-					
	Sound power level indoor	Cooling	Nom.	dBA	51	-					
Nominal efficiency	EER				3.39	3.87	3.73	-			
	COP				3.97	4.15	3.63	-			
	Annual energy consumption			kWh	1,005	1,225	1,610	-			
	Energy label	Cooling			A			-			
		Heating			A			-			

Notes

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

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/ RZQG71L9V1	FCQHG100F/ RZQG100L9V1	FCQHG125F/ RZQG125L9V1	FCQHG140F/ RZQG140L9V1	FCQHG100F/ RZQG71L9V1	FCQHG140F/ RZQG100L9V1	FCQHG140F/ RZQG125L9V1
Indoor unit				FCQHG71F	FCQHG100F	FCQHG125F	FCQHG140F	FCQHG100F	FCQHG140F	
Outdoor unit				RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1	RZQG71L9V1	RZQG100L9V1	RZQG125L9V1
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	1.66	2.15	3.00	4.00	-		
	Heating	Nom.	kW	1.56	2.16	3.07	3.77	-		

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2 Specifications

2-4 Capacity and Power input					FCQHG71F/ RZQG71L9V1	FCQHG100F/ RZQG100L9V 1	FCQHG125F/ RZQG125L9V 1	FCQHG140F/ RZQG140L9V 1	FCQHG100F/ RZQG71L9V1	FCQHG140F/ RZQG100L9V 1	FCQHG140F/ RZQG125L9V 1
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++			-	A++		
		Pdesign		kW	6.80	9.50	12.00	-	6.80	9.50	12.00
		SEER			6.91	7.00	6.61	-	7.00		6.61
		Annual energy consumption		kWh	345	475	636	-	340	475	636
	Heating (Average climate)	Energy label			A+	A++		-	A+	A++	
		Pdesign		kW	7.60	11.30	12.66	-	7.60	11.30	12.66
		SCOP/A			4.54	4.80	4.63	-	4.54	4.80	4.63
		Annual energy consumption		kWh	2,344	3,296	3,829	-	2,344	3,296	3,829
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	-					
	Sound power level indoor	Cooling	Nom.	dBA	53	-					
Nominal efficiency	EER				4.09	4.42	4.00	3.35	-		
	COP				4.80	4.99	4.40	4.12	-		
	Annual energy consumption			kWh	830	1,075	1,500	-			
	Energy label	Cooling			A			-			
		Heating			A			-			

Notes

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

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				FDQ125C/RZQG125L9V1	
Indoor unit				FDQ125C	
Outdoor unit				RZQG125L9V1	
Cooling capacity	Nom.		kW	12.0	
Heating capacity	Nom.		kW	13.5	
Power input	Cooling	Nom.	kW	3.20	
	Heating	Nom.	kW	3.53	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+	
		Pdesign	kW	12.00	
		SEER		5.81	
		Annual energy consumption	kWh	723	
	Heating (Average climate)	Energy label		A+	
		Pdesign	kW	12.71	
		SCOP/A		4.21	
		Annual energy consumption	kWh	4,227	
Nominal efficiency	EER			3.75	
	COP			3.83	
	Annual energy consumption		kWh	1,600	
	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 Specifications

2-6 Capacity and Power input					FHQ71CB/ RZQG71L9V1	FHQ100CB/ RZQG100L9V 1	FHQ125CB/ RZQG125L9V 1	FHQ100CB/ RZQG71L9V1	FHQ140CB/ RZQG140L9V 1	FHQ140CB/ RZQG100L9V 1	FHQ140CB/ RZQG125L9V 1
Indoor unit					FHQ71C	-					
Outdoor unit					RZQG71L9 V1	-					
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	1.78	2.49	3.58	-	4.05	-		
	Heating	Nom.	kW	1.82	2.61	3.48	-	4.27	-		
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	-					
		Pdesign	kW	6.80	9.50	12.00	6.80	-	9.50	12.00	
		SEER			6.86	6.11	6.01	6.95	-	6.11	6.01
		Annual energy consumption	kWh	347	545	699	343	-	545	699	
	Heating (Average climate)	Energy label			A+	-					
		Pdesign	kW	7.60	11.30	14.13	7.60	-	11.30	14.13	
		SCOP/A			4.32	4.61	4.23	4.32	-	4.61	4.23
		Annual energy consumption	kWh	2,463	3,432	4,677	2,463	-	3,432	4,677	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	66	67	64	-	66	67
	Sound power level indoor	Cooling	Nom.	dBA	55	60	62	60	-	64	
Nominal efficiency	EER				3.82	3.81	3.35	-	3.31	-	
	COP				4.13	4.15	3.89	-	3.63	-	
	Annual energy consumption			kWh	890 (1)	1,245 (1)	1,790 (1)	-	2,025 (1)	-	
	Energy label	Cooling			A	-					
		Heating			A	-					

Notes

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

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

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

2-7 Capacity and Power input				FUQ71C/RZQG71L9V1	FUQ100C/RZQG100L9V1	FUQ125C/RZQG125L9V1	FUQ100C/RZQG71L9V1
Indoor unit				FUQ71C	FUQ100C	FUQ125C	FUQ100C
Outdoor unit				RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG71L9V1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	-
Heating capacity	Nom.		kW	7.5	10.8	13.5	-
Power input	Cooling	Nom.	kW	1.68	2.46	3.54	-
	Heating	Nom.	kW	1.84	2.73	3.95	-
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+	A++
		Pdesign	kW	6.80	9.50	12.00	6.80
		SEER		6.42	6.11	5.61	6.50
		Annual energy consumption	kWh	371	545	749	367
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	7.60	11.30	14.13	7.60
		SCOP/A		4.20	4.50	4.44	4.20
		Annual energy consumption	kWh	2,534	3,516	4,456	2,534
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	-	
	Sound power level indoor	Cooling	Nom.	dBA	59	-	

2 Specifications

2-7 Capacity and Power input				FUQ71C/RZQG71L9V1	FUQ100C/RZQG100L9V1	FUQ125C/RZQG125L9V1	FUQ100C/RZQG71L9V1
Nominal efficiency	EER			4.05	3.86	3.39	-
	COP			4.08	3.95	3.42	-
	Annual energy consumption		kWh	840 (1)	1,230	1,770	-
	Energy label	Cooling		A			-
		Heating		A			-

Notes

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

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

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

2-8 Capacity and Power input					FVQ71C/ RZQG71L9V1	FVQ100C/ RZQG100L9V1	FVQ125C/ RZQG125L9V1	FVQ140C/ RZQG140L9V1	FVQ100C/ RZQG71L9V1	FVQ140C/ RZQG100L9V1	FVQ140C/ RZQG125L9V1
Indoor unit					FVQ71C	FVQ100C	FVQ125C	FVQ140C	FVQ100C	FVQ140C	
Outdoor unit					RZQG71L9 V1	RZQG100L 9V1	RZQG125L 9V1	RZQG140L 9V1	RZQG71L9 V1	RZQG100L 9V1	RZQG125L 9V1
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	2.02	2.49	3.74	4.17	-			
	Heating	Nom.	kW	2.06	2.61	3.65	4.30	-			
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A+		-	A++	A+	
		Pdesign	kW		6.80	9.50	12.00	-	6.80	9.50	12.00
		SEER			6.23	5.61		-	6.31	5.61	
		Annual energy consumption	kWh		383	593	749	-	378	593	749
	Heating (Average climate)	Energy label			A+		A	-	A+		A
		Pdesign	kW		6.33	11.30		-	6.33	11.30	
		SCOP/A			4.05	4.20	3.87	-	4.05	4.20	3.87
		Annual energy consumption	kWh		2,189	3,767	4,088	-	2,189	3,767	4,088
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	-					
	Sound power level indoor	Cooling	Nom.	dBA	55	-					
Nominal efficiency	EER				3.37	3.81	3.21		-		
	COP				3.64	4.14	3.70	3.61	-		
	Annual energy consumption			kWh	1,010 (1)	1,245	1,870	2,085	-		
	Energy label	Cooling			A			-			
		Heating			A			-			

Notes

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

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

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

2-9 Technical Specifications				RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1
Capacity control	Method			Inverter controlled			
Casing	Colour			Ivory white			
	Material			Painted galvanized steel plate			

2 Specifications

2

2-9 Technical Specifications					RZQG71L9V1		RZQG100L9V1		RZQG125L9V1		RZQG140L9V1	
Dimensions	Unit	Height		mm	990		1,430					
		Width		mm	940							
		Depth		mm	320							
	Packed unit	Height		mm	1,170		1,610					
		Width		mm	1,015							
		Depth		mm	422							
Weight	Unit			kg	69		95					
	Packed unit			kg	78		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.	m³/min	59		70				84	
		Heating	Nom.	m³/min	49		62					
Fan motor	Quantity				1		2					
	Model				Brushless DC motor							
	Output			W	94							
	Drive				Direct drive							
	Speed	Cooling	Super low	rpm	-							
		Heating	Super low	rpm	-							
Sound power level	Cooling			dBA	64		66		67		69	
	Heating			dBA	-							
Sound pressure level	Cooling	Nom.		dBA	48		50		51		52	
	Heating	Nom.		dBA	50		52		53			
	Night quiet mode	Level 1		dBA	43		45					
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	2.9		4.0					
				TCO _{2eq}	6.1		8.4					
	Control				Expansion valve (electronic type)							
	GWP				2,087.5							
	Circuits	Quantity			1							

2 Specifications

2-9 Technical Specifications					RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1
Piping connections	Liquid	Quantity			1			
		Type			Flare connection			
		OD	mm		9.52			
	Gas	Quantity			1			
		Type			Flare connection			
		OD	mm		15.9			
	Drain	Quantity			5			
		Type			Hole			
		ID	mm		-			
		OD	mm		26			
	Piping length	OU - IU	Min.	m	5 (1)			
			Max.	m	50	75		
		System	Equivalent	m	70	90		
			Chargeless	m	30			
	Additional refrigerant charge			kg/m	See installation manual			
	Level difference	IU - OU	Max.	m	30.0			
IU - IU		Max.	m	0.5				
Heat insulation				Both liquid and gas pipes				
Refrigerant oil	Type			FVC50K				
	Charged volume		l	0.9	1.35			
Defrost method					Reversed cycle			
Defrost control					Sensor for outdoor heat exchanger temperature			
Safety devices	Item	01			High pressure switch			
		02			Low pressure switch			
		03			Fan driver overload protector			
		04			Fuse			

Standard Accessories : Tie-wraps; Quantity : 2;

Standard Accessories : Installation manual; Quantity : 1;

2-10 Electrical Specifications				RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1
Power supply	Name			V1			
	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	220-240			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Current - 50Hz	Maximum fuse amps (MFA)		A	25	40		
Current	Zmax	List		Complies to EN61000-3-11			
	Recommended fuses		A	25	40		
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			

Notes

(1) 3 with re-charging

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

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 $>16A$ and $\leq 75A$ per phase

See separate drawing for electrical data

Contains fluorinated greenhouse gases

MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

3 Electrical data

3 - 1 Electrical Data

RZQG-L9V1

Unit combination restrictions		Power supply				COMP		OFM		IFM		
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQG71L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	17.2	20	–	15.6	0.094	0.4	2x0.034	2x0.3
2xFNQ50A2VEB	RZQG100L9V1B				28.9	32	–	24.2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ35A2VEB	RZQG100L9V1B				28.8	32	–	24.2	0.094 + 0.094	0.4 + 0.4	3x0.034	3x0.3
2xFNQ60A2VEB	RZQG125L9V1B				29	32	–	24.2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ50A2VEB	RZQG125L9V1B				29.5	32	–	24.2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG125L9V1B				29.2	32	–	24.2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3
3xFNQ50A2VEB	RZQG140L9V1B				29.5	32	–	24.2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5

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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RZQG71-125L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQG71L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	16.4	20	51	15.6	0.094	0.4	0.07	0.5
2xFBQ35D2VEB	RZQG71L9V1B				17.1	20	–	15.6	0.094	0.4	2x0.089	2x0.6
FBQ100D2VEB	RZQG100L9V1B				28.9	32	49	24.2	0.094 + 0.094	0.4 + 0.4	0.127	1.0
2xFBQ50D2VEB	RZQG100L9V1B				29.1	32	–	24.2	0.094 + 0.094	0.4 + 0.4	2x0.089	2x0.6
3xFBQ35D2VEB	RZQG100L9V1B				29.7	32	–	24.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
FBQ125D2VEB	RZQG125L9V1B				29.5	32	64	24.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5
2xFBQ60D2VEB	RZQG125L9V1B				29	32	–	24.2	0.094 + 0.094	0.4 + 0.4	2x0.070	2x0.5
3xFBQ50D2VEB	RZQG125L9V1B				29.8	32	–	24.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6

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

3D094863B

3 Electrical data

3 - 1 Electrical Data

RZQG125-140L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
4xFBQ35D2VEB	RZQG125L9V1B	50	220-240V	MAX. 50Hz 264V MIN. 50Hz 198V	30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
FBQ140D2VEB	RZQG140L9V1B				29,5	32	68	24,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ71D2VEB	RZQG140L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG140L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG140L9V1B				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

3D094863B

RZQG140L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
4xFNQ35A2VEB	RZQG140L9V1B	50	220-240V	MAX. 50Hz 264V MIN. 50Hz 198V	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

RZQG-L9V1

Available options for RZQG models

Option		Option kit			
		RZQG71L9V1B	RZQG100L9V1B	RZQG125L9V1B	RZQG140L9V1B
Bottom plate heater		EKBPH140L7			
Refrigerant branch piping	Twin	KHRQ22M20TA			
	Triple	-	KHRQ127H		
	Double twin	-	-	KHRQ22M20TA (3x)	
Demand adaptor kit		SB.KRP58M51			

3D090356A

5 Combination table

5 - 1 Combination Table

RZQG-L9V1 RZQG-L(8)Y1

Possible combinations

P= Pair	71	100	125	140
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

(*) : 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																			
		FQCHG71FVEB	FQCHG100FVEB	FQCHG125FVEB	FQCHG140FVEB	FQCG35FVEB	FQCG50FVEB	FQCG60FVEB	FQCG71FVEB	FQCG100FVEB	FQCG125FVEB	FQCG140FVEB	FFQ35C2VEB	FFQ50C2VEB	FFQ60C2VEB	FBQ35C8VEB	FBQ50C8VEB	FBQ60C8VEB	FBQ71C8VEB	FBQ100C8VEB	FBQ125C8VEB	FBQ140C8VEB	FHQ35BV1B8	FHQ50BV1B8	FHQ60BV1B8	FHQ71CVBE	FHQ100CVBE	FHQ125CVBE	FHQ140CVBE	FUQ71CVBE	FUQ100CVBE	FUQ125CVBE	FAQ71CVBE	FAQ100CVBE	FQD125C7VEB	FVQ71CVBE	FVQ100CVBE	FVQ125CVBE	FVQ140CVBE	FDXS35F2VEB	FDXS50F2VEB	FDXS60F2VEB	FDXS80F2VEB			
Model																																														
RZQG71L9V1B	RZQG71L8Y1B	P			2			P				2			2			P				2			P			P				P			P			P			2					
RZQG100L9V1B	RZQG100L8Y1B		P		3	2			P			3	2		3	2			P			3	2				P				P				P			P			3	2				
RZQG125L9V1B	RZQG125L8Y1B			P	4	3	2			P		4	3	2	4	3	2			P		4	3	2				P				P				P			P			4	3	2		
RZQG140L9V1B	RZQG140L7Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P			2								P	4	3				

Sky Air	Duct (medium ESP)			Concealed floor standing type		
Model	FBQ35D2VEB	FBQ50D2VEB	FBQ60D2VEB	FBQ71D2VEB	FBQ100D2VEB	FBQ125D2VEB
RZQG71L9V1B	RZQG71L8Y1B	2		P		
RZQG100L9V1B	RZQG100L8Y1B	3	2		P	
RZQG125L9V1B	RZQG125L8Y1B	4	3	2		P
RZQG140L9V1B	RZQG140L7Y1B	4	3		2	P

Notes

- The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
- When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
- For the selection of the correct refnet 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

RZQG-L9V1 RZQG-L(8)Y1

Infrastructure cooling

SkyAir	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		Concealed floor standing type																	
Model	FQCHG71FVEB	FQCHG100FVEB	FQCHG125FVEB	FQCHG140FVEB	FCQCG35FVEB	FCQCG50FVEB	FCQCG60FVEB	FCQCG71FVEB	FCQCG100FVEB	FCQCG125FVEB	FCQCG140FVEB	FFQ35C2VEB	FFQ50C2VEB	FFQ60C2VEB	FBQ35C8VEB	FBQ50C8VEB	FBQ60C8VEB	FBQ71C8VEB	FBQ100C8VEB	FBQ125C8VEB	FBQ140C8VEB	FHQ35CAVEB	FHQ50CAVEB	FHQ60CAVEB	FHQ71CAVEB	FHQ100CAVEB	FHQ125CAVEB	FHQ140CAVEB	FUQ71CVBE	FUQ100CVBE	FUQ125CVBE	FUQ140CVBE	FAQ100CVBE	FQD125C7VEB	FVQ71CVBE	FVQ100CVBE	FVQ125CVBE	FVQ140CVBE	FDXS35F2VEB	FDXS50F2VEB	FDXS60F2VEB	FNQ35A2VEB	FNQ50A2VEB	
RZQG71L9V1B	RZQG71L8Y1B	P			3	2			P			3	2		3	2			P			3	2			P			P				P				P			3	2			
RZQG100L9V1B	RZQG100L8Y1B	2			P	4	3	2				P	4	3		4	3			P		4	3	2				P				P				P			4	3	2			
RZQG125L9V1B	RZQG125L8Y1B			P	4	3	2					P	4	3		4	3	2			P		4	3	2				P				P				P			4	3	2		
RZQG140L9V1B	RZQG140L7Y1B	2			P	4	3	2				P	4	3		4	3	2			P		4	3	2				P			2							P	4	3	2		

Possible combinations

P= Pair
2= Twin
3= Triple
4= Double twin

Notes

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

Twin : KHRQ22M20T or KHRQ58T
Triple : KHRQ127H or KHRQ58H
Double twin : KHRQ22M20T or KHRQ58T

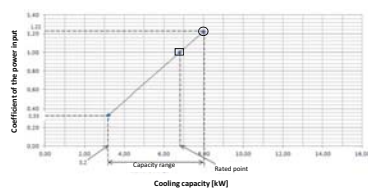
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6 Capacity tables

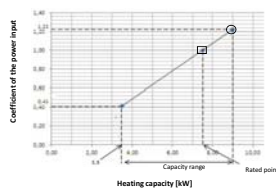
6 - 1 Cooling/Heating Capacity Tables

RZQG71L9V1 RZQG71L8Y1

Cooling



Heating



Symbols

AFR: Air flow rate (m³/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 outdoor fan motors

Cooling

Indoor		Outdoor temperature (°C DB)											
		25			30			35			40		
°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	8.03	5.45	1.00	7.76	5.32	1.11	7.48	5.20	1.21	7.21	5.06	1.32
18.0	25	8.40	5.45	1.00	8.11	5.32	1.11	7.83	5.19	1.22	7.54	5.05	1.33
19.0	27	8.59	5.44	1.01	8.30	5.32	1.12	8.00	5.18	1.22	7.70	5.05	1.33
19.5	27	8.68	5.43	1.01	8.39	5.31	1.12	8.09	5.17	1.22	7.79	5.05	1.33
22.0	30	9.15	5.38	1.01	8.84	5.25	1.12	8.52	5.13	1.23	8.21	4.99	1.34
24.0	32	9.53	5.31	1.03	9.20	5.19	1.13	8.87	5.06	1.25	8.54	4.92	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 (m³/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.

Pair	FCQ071F	FCQ071F	FRQ71C	FRQ071C	FRQ71C	FRQ71C	FRQ71C	FRQ71D
AFR (BF)	21.2 (0.2)	21.5 (0.14)	18.0 (0.08)	20.5 (0.13)	18.0 (0.16)	20.5 (0.13)	23.0 (0.24)	18.0 (0.13)

Twin	FCQ091F X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X
AFR (BF)	12.5 x 2 (0.4 x 2)	16 x 2 (0.15 x 2)	14 x 2 (0.17 x 2)	10 x 2 (0.25 x 2)	8.7 x 2 (0.17 x 2)	15 x 2 (0.08 x 2)	8.7 x 2 (0.17 x 2)

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

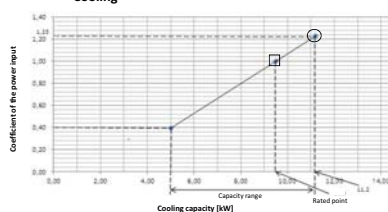
Pair	FCQ071F	FCQ071F	FRQ71C	FRQ071C	FRQ71C	FRQ71C	FRQ71C	FRQ71D
Cooling	1.66	2.01	1.94	1.78	2.00	2.02	1.78	1.67
Heating	1.56	1.89	2.05	1.82	2.03	2.06	1.82	1.68

Twin	FCQ091F X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X
Cooling	2.04	1.98	2.34	2.02	2.23	2.01	2.23
Heating	1.92	2.16	2.70	1.88	2.55	2.08	2.55

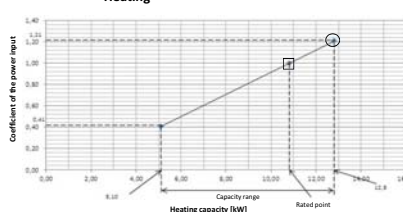
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RZQG100L9V1 RZQG100L8Y1

Cooling



Heating



Symbols

AFR: Air flow rate (m³/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 outdoor fan motors

Cooling

Indoor		Outdoor temperature (°C DB)											
		25			30			35			40		
°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	11.20	7.61	1.01	10.85	7.44	1.11	10.50	7.29	1.22	10.11	7.09	1.32
18.0	25	11.80	7.59	1.01	11.37	7.49	1.12	11.00	7.27	1.23	10.55	7.09	1.33
19.0	27	12.00	7.57	1.02	11.62	7.44	1.12	11.20	7.26	1.23	10.80	7.04	1.34
19.5	27	12.15	7.50	1.02	11.74	7.37	1.13	11.43	7.34	1.23	10.91	7.04	1.34
22.0	30	12.80	7.52	1.02	12.37	7.36	1.13	11.90	7.16	1.24	11.52	7.03	1.35
24.0	32	13.30	7.42	1.03	12.88	7.27	1.14	12.40	7.06	1.25	11.97	6.91	1.36

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 (m³/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.

Pair	FCQ100F	FCQ100F	FRQ100C	FRQ100C	FRQ100C	FRQ100C	FRQ100C	FRQ100D
AFR (BF)	32.3 (0.17)	32.0 (0.17)	32.0 (0.09)	20.0 (0.09)	26.0 (0.20)	28.0 (0.20)	31.0 (0.09)	29.0 (0.20)

Twin	FCQ091F X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X
AFR (BF)	12.5 x 3 (0.22 x 2)	16 x 3 (0.16 x 2)	15 x 3 (0.18 x 2)	12 x 3 (0.16 x 2)	16 x 3 (0.11 x 2)	15 x 3 (0.13 x 2)	16 x 3 (0.11 x 2)

Triple	FCQ091F X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X
AFR (BF)	12.5 x 3 (0.4 x 3)	16 x 3 (0.15 x 3)	14 x 3 (0.17 x 3)	10 x 3 (0.25 x 3)	8.7 x 3 (0.17 x 3)	15 x 3 (0.08 x 3)	8.7 x 3 (0.17 x 3)

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

Pair	FCQ100F	FCQ100F	FRQ100C	FRQ100C	FRQ100C	FRQ100C	FRQ100C	FRQ100D
Cooling	2.15	2.45	2.44	2.49	2.63	2.49	2.33	2.49
Heating	2.16	2.60	2.57	2.60	3.00	2.61	2.60	2.45

Twin	FCQ091F X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X
Cooling	2.32	2.51	2.93	2.65	2.51	2.87	2.51
Heating	2.46	2.86	3.28	2.89	2.96	2.73	2.96

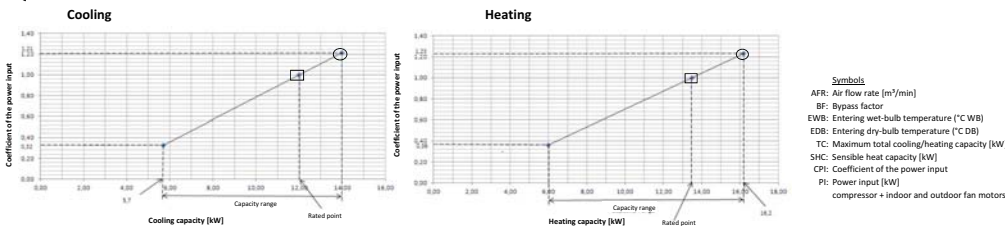
Triple	FCQ091F X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X	FRQ091C X
Cooling	2.38	2.51	2.91	2.45	2.81	2.68	2.81
Heating	2.51	2.86	3.20	2.59	3.68	2.70	3.68

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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZQG125L9V1
RZQG125L8Y1



Indoor		Outdoor temperature (°C DB)											
		25			30			35			40		
°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	14.10	9.54	1.00	13.60	9.30	1.10	13.10	9.12	1.20	12.60	8.78	1.31
18.0	25	14.70	9.50	1.00	14.20	9.32	1.10	13.70	9.09	1.21	13.20	8.83	1.32
19.0	27	15.00	9.52	1.01	14.50	9.34	1.11	14.00	9.06	1.21	13.50	8.87	1.32
19.5	27	15.21	9.52	1.01	14.68	9.36	1.12	14.15	9.08	1.21	13.64	8.91	1.32
22.0	30	16.00	9.39	1.01	15.47	9.14	1.12	14.90	8.95	1.23	14.38	8.74	1.33
24.0	32	16.70	9.31	1.02	16.10	9.09	1.13	15.50	8.83	1.24	14.97	8.63	1.34

- 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 (m³/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.

Pair	FCQ06125H	FCQ06125F	FCQ06125C	FCQ06125C	FCQ06125C	FCQ06125C	FCQ06125C	FCQ06125C	FCQ06125C
Cooling	3.00	3.22	3.15	3.58	3.20	3.74	3.58	3.44	3.63
Heating	3.07	3.72	3.53	3.48	3.53	3.65	3.48	3.66	3.46

Twin	FCQ06125F x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2
Cooling	3.14	3.28	3.67	3.61	3.75	4.10	3.75		
Heating	3.64	3.74	4.11	4.10	4.20	3.85	4.20		

Triple	FCQ06125F x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3
Cooling	3.17	3.28	3.66	3.23	3.45	3.97	3.45		
Heating	3.66	3.74	4.10	3.55	3.61	3.81	3.61		

Double twin	FCQ06125F x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4
Cooling	3.23	3.28	3.64	3.01	3.94	3.74	3.94		
Heating	3.72	3.74	4.00	3.80	4.45	3.78	4.45		

Pair	FCQ06125H	FCQ06125F	FCQ06125C	FCQ06125C	FCQ06125C	FCQ06125C	FCQ06125C	FCQ06125C	FCQ06125C
Cooling	3.00	3.22	3.15	3.58	3.20	3.74	3.58	3.44	3.63
Heating	3.07	3.72	3.53	3.48	3.53	3.65	3.48	3.66	3.46

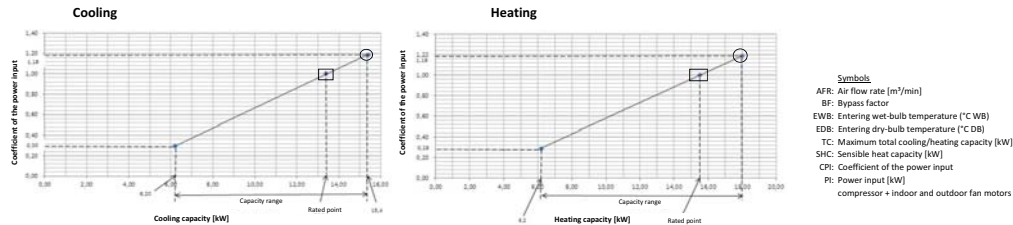
Twin	FCQ06125F x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2	FCQ06125C x 2
Cooling	3.14	3.28	3.67	3.61	3.75	4.10	3.75		
Heating	3.64	3.74	4.11	4.10	4.20	3.85	4.20		

Triple	FCQ06125F x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3	FCQ06125C x 3
Cooling	3.17	3.28	3.66	3.23	3.45	3.97	3.45		
Heating	3.66	3.74	4.10	3.55	3.61	3.81	3.61		

Double twin	FCQ06125F x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4	FCQ06125C x 4
Cooling	3.23	3.28	3.64	3.01	3.94	3.74	3.94		
Heating	3.72	3.74	4.00	3.80	4.45	3.78	4.45		

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RZQG140L9V1
RZQG140LY1



Indoor		Outdoor temperature (°C DB)											
		25			30			35			40		
°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	15.50	10.47	0.98	14.93	10.25	1.08	14.44	10.03	1.18	13.86	9.69	1.28
18.0	25	16.17	10.55	0.98	15.62	10.21	1.09	15.11	10.01	1.19	14.52	9.71	1.30
19.0	27	16.56	10.43	0.99	15.96	10.18	1.09	15.40	9.98	1.19	14.83	9.76	1.30
19.5	27	16.74	10.49	0.99	16.14	10.16	1.10	15.57	10.00	1.19	14.98	9.66	1.30
22.0	30	17.61	10.17	0.99	17.01	10.16	1.10	16.36	9.83	1.21	15.76	9.60	1.31
24.0	32	18.38	10.20	1.00	17.72	10.00	1.11	17.04	9.67	1.22	16.43	9.47	1.32

- 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 (m³/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.

Pair	FCQ06140F	FCQ06140F	FCQ06140C	FCQ06140C	FCQ06140C	FCQ06140C	FCQ06140C	FCQ06140C	FCQ06140C
Cooling	4.00	4.17	4.02	4.05	4.17	4.05	4.00		
Heating	3.77	4.30	4.30	4.27	4.30	4.27	4.31		

Twin	FCQ06140F x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2
Cooling	3.94	4.11	3.75	3.58	3.81	3.59	3.85	3.75	
Heating	3.71	4.34	4.70	4.47	4.68	4.47	4.36	4.70	

Triple	FCQ06140F x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3
Cooling	3.94	4.11	3.75	3.58	3.81	3.59	3.85	3.75	
Heating	3.71	4.34	4.70	4.47	4.68	4.47	4.36	4.70	

Double twin	FCQ06140F x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4
Cooling	3.94	4.11	3.75	3.58	3.81	3.59	3.85	3.75	
Heating	3.71	4.34	4.70	4.47	4.68	4.47	4.36	4.70	

Pair	FCQ06140F	FCQ06140F	FCQ06140C	FCQ06140C	FCQ06140C	FCQ06140C	FCQ06140C	FCQ06140C	FCQ06140C
Cooling	4.00	4.17	4.02	4.05	4.17	4.05	4.00		
Heating	3.77	4.30	4.30	4.27	4.30	4.27	4.31		

Twin	FCQ06140F x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2	FCQ06140C x 2
Cooling	3.94	4.11	3.75	3.58	3.81	3.59	3.85	3.75	
Heating	3.71	4.34	4.70	4.47	4.68	4.47	4.36	4.70	

Triple	FCQ06140F x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3	FCQ06140C x 3
Cooling	3.94	4.11	3.75	3.58	3.81	3.59	3.85	3.75	
Heating	3.71	4.34	4.70	4.47	4.68	4.47	4.36	4.70	

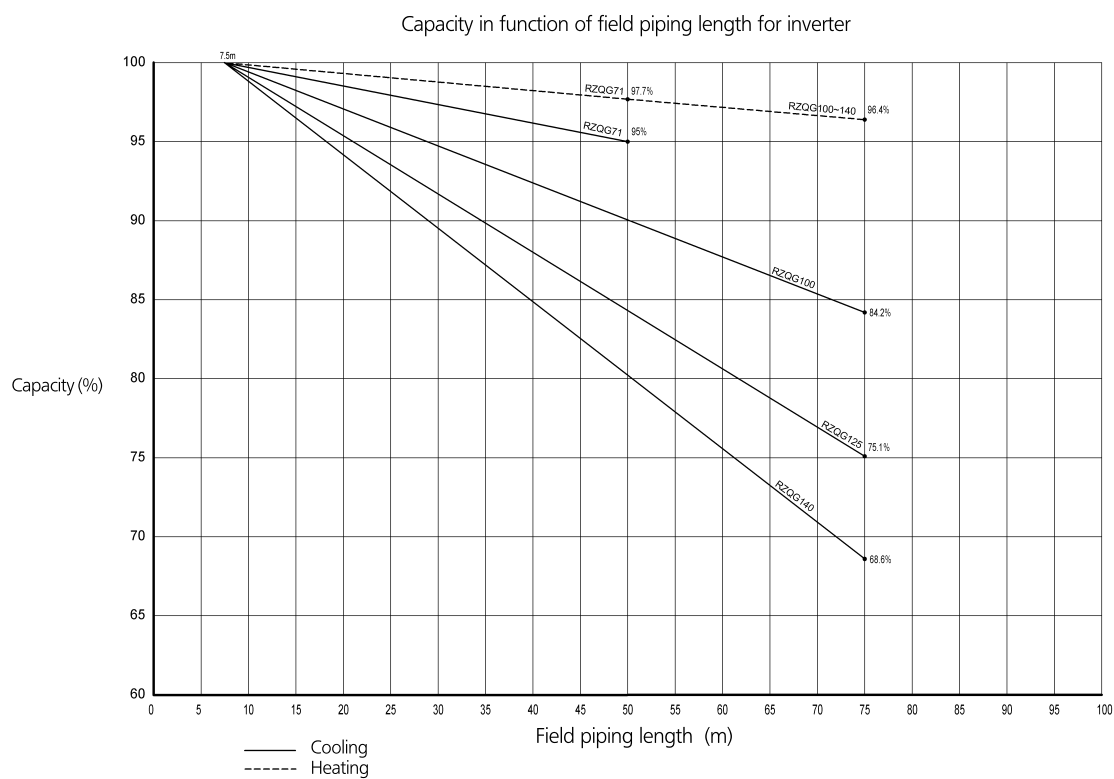
Double twin	FCQ06140F x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4	FCQ06140C x 4
Cooling	3.94	4.11	3.75	3.58	3.81	3.59	3.85	3.75	
Heating	3.71	4.34	4.70	4.47	4.68	4.47	4.36	4.70	

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6 Capacity tables

6 - 2 Capacity Correction Factor

RZQG-L9V1

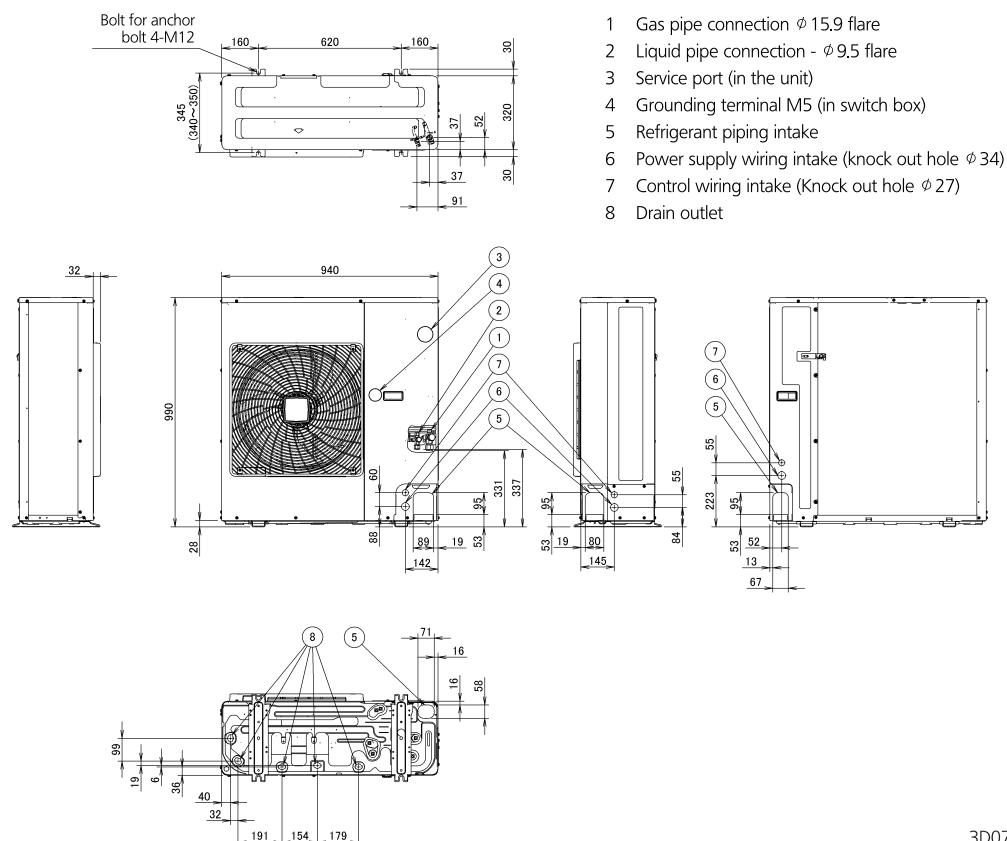


3D076249

7 Dimensional drawings

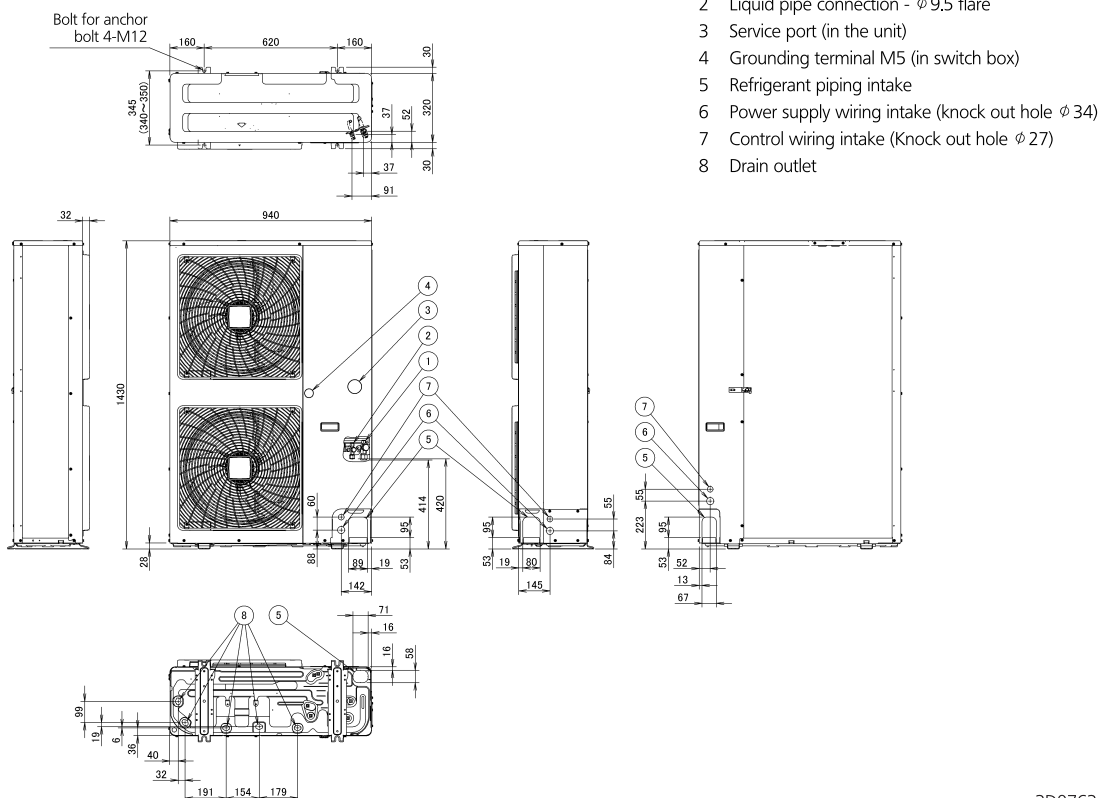
7 - 1 Dimensional Drawings

RZQG71L9V1



3D076345

RZQG100-140L9V1

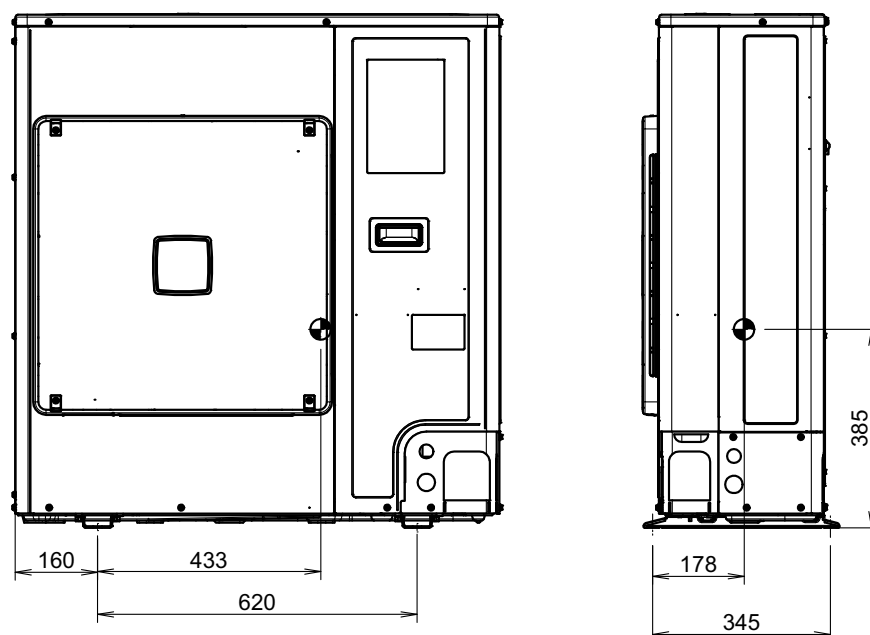


3D076346

8 Centre of gravity

8 - 1 Centre of Gravity

RZQG71L9V1

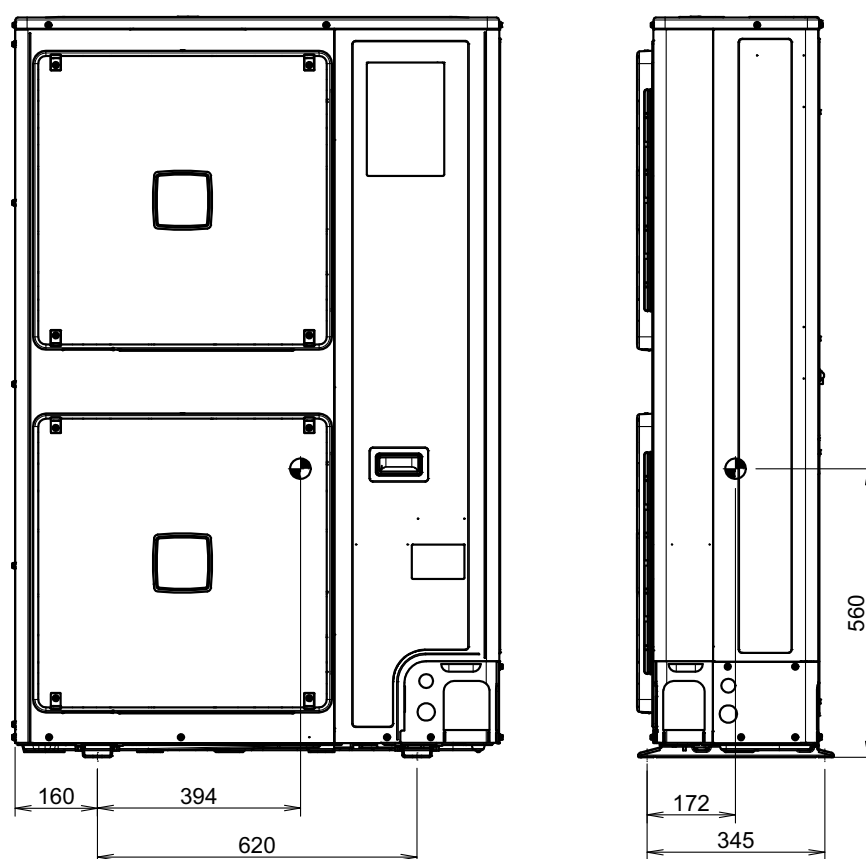


4D090895

8 Centre of gravity

8 - 1 Centre of Gravity

RZQG100-140L9V1

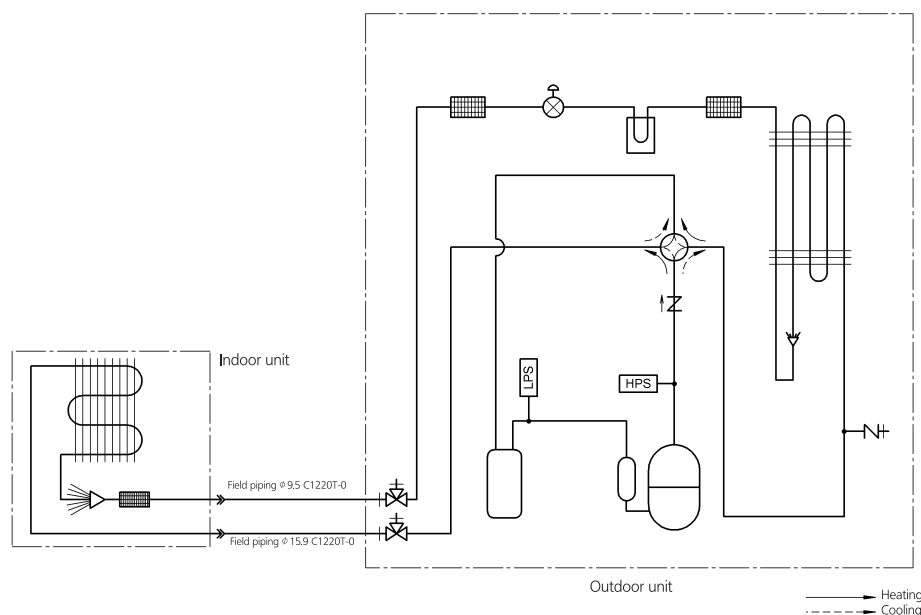


4D090897

9 Piping diagrams

9 - 1 Piping Diagrams

RZQG-L9V1 Pair application



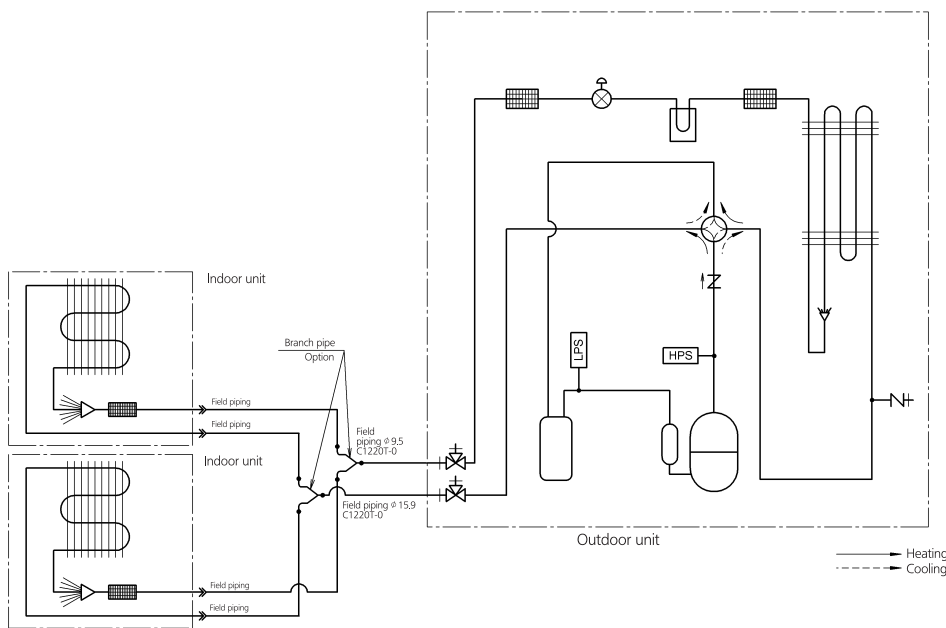
3D090340

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

RZQG-L9V1

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: RZQG71L, RZQSG100L and RZQSG125L.

- | | |
|---|-------------------------------|
|  | 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 |

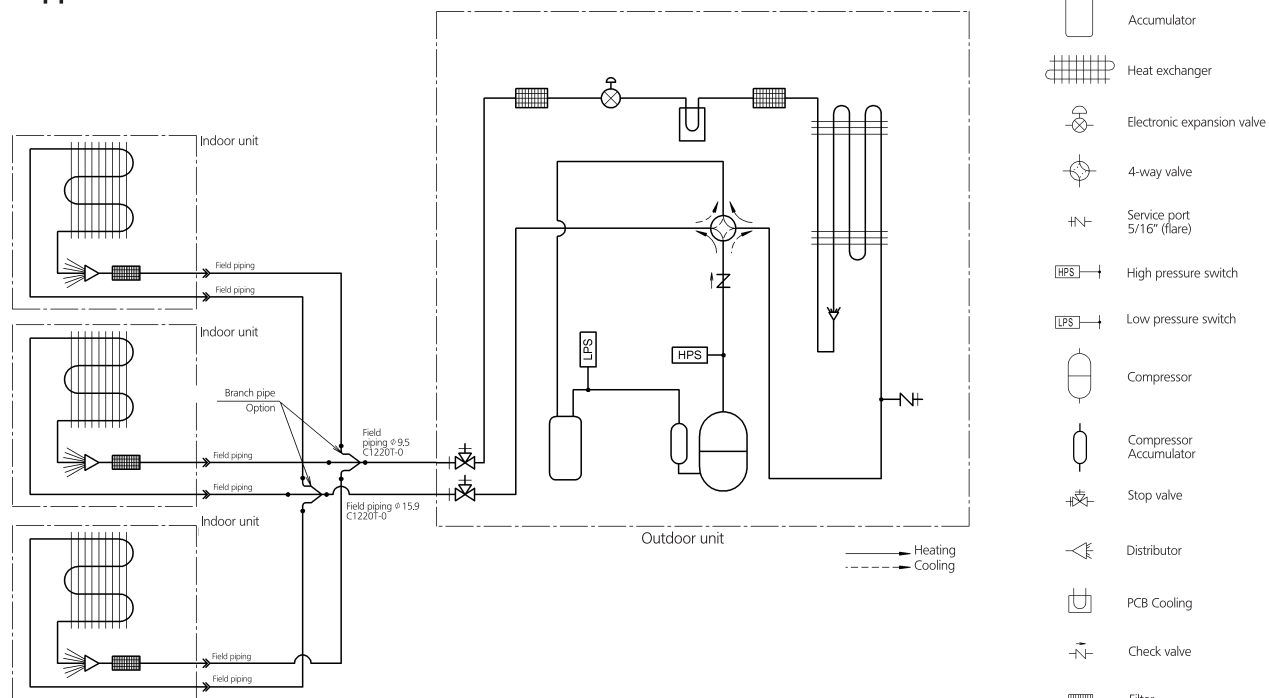
3D090341

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

9

RZQG100-140L9V1 Triple 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.

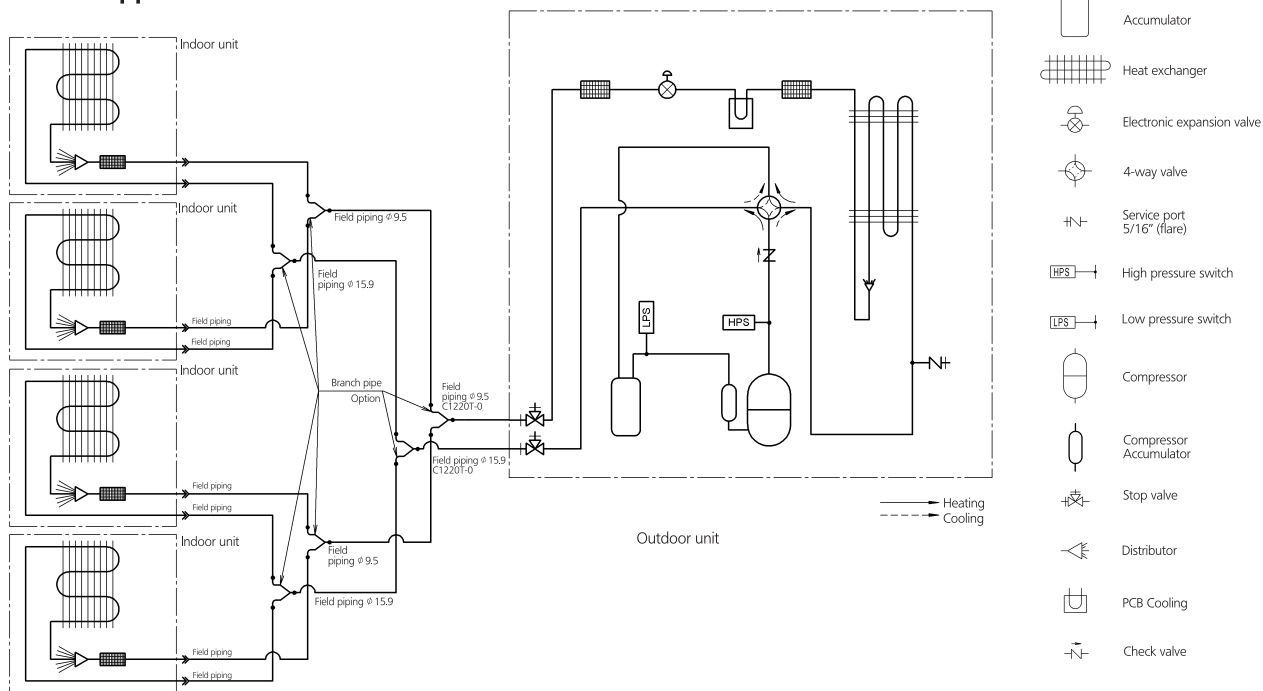
3D090342

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZQG125-140L9V1

Double twin application



Notes:

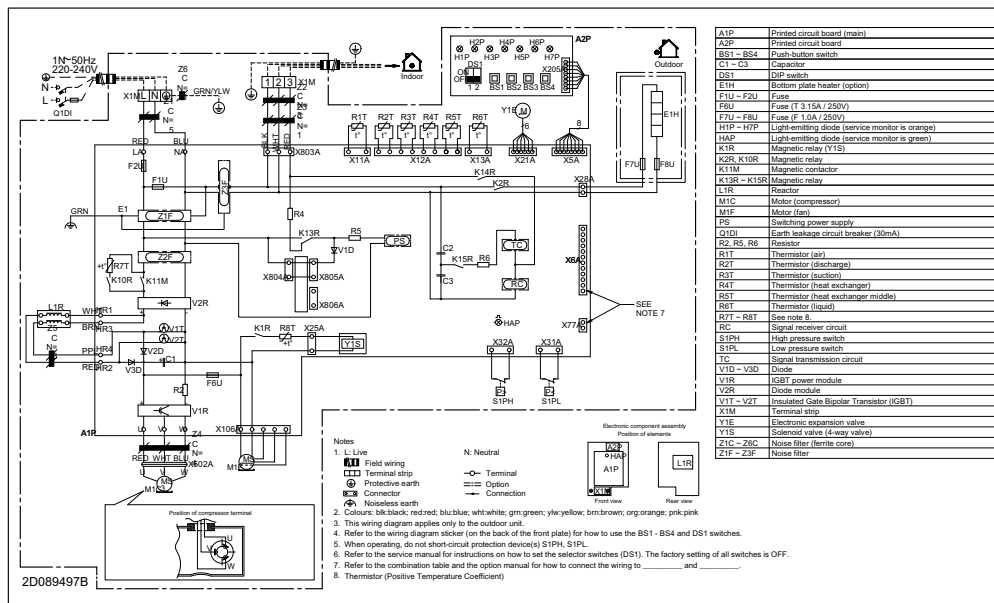
- 1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
- 2 The check valve is only present in following models: RZQSG100L and RZQSG125L.

3D090343

10 Wiring diagrams

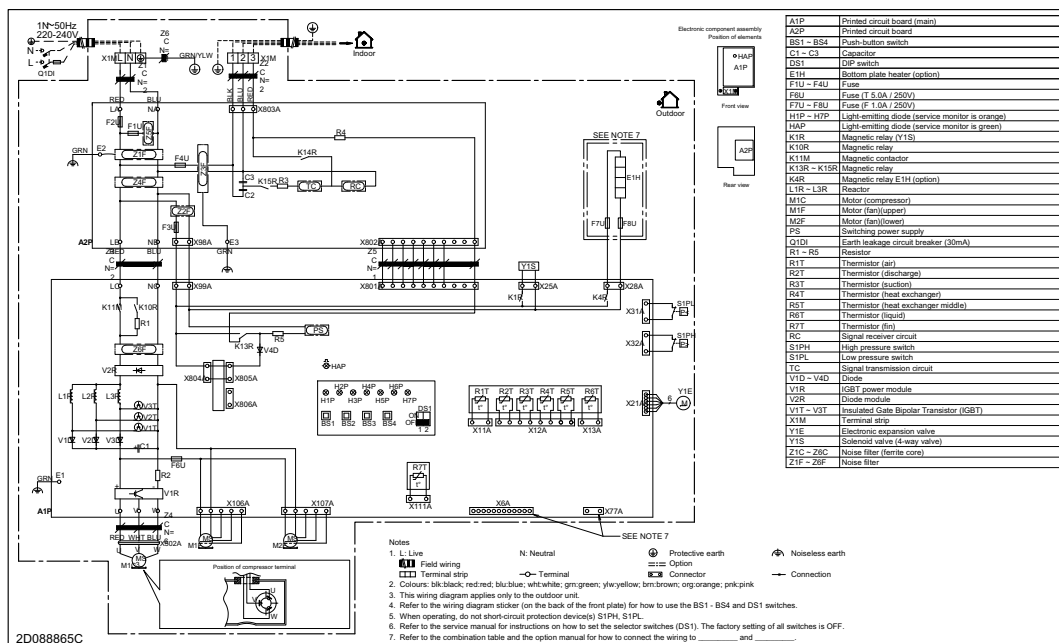
10 - 1 Wiring Diagrams - Single Phase

RZQG71L9V1



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RZQG100-140L9V1

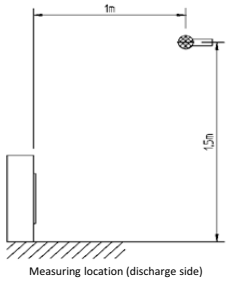
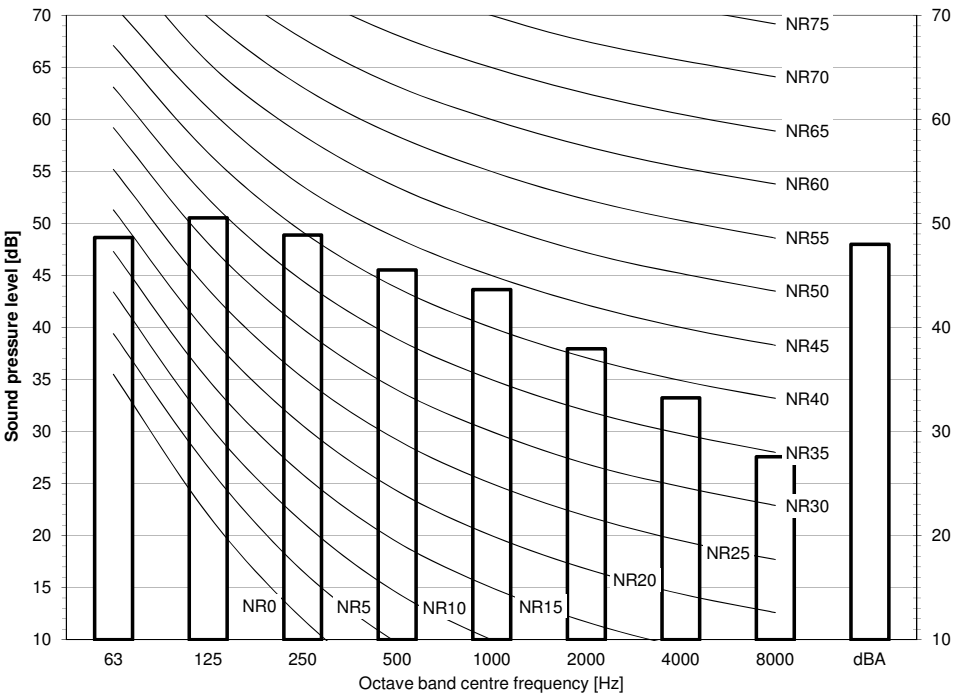


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11 Sound data

11 - 1 Sound Pressure Spectrum - Cooling

RZQG71L9V1

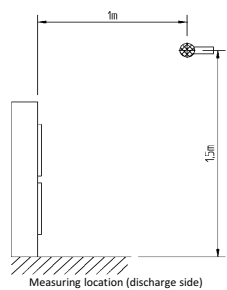
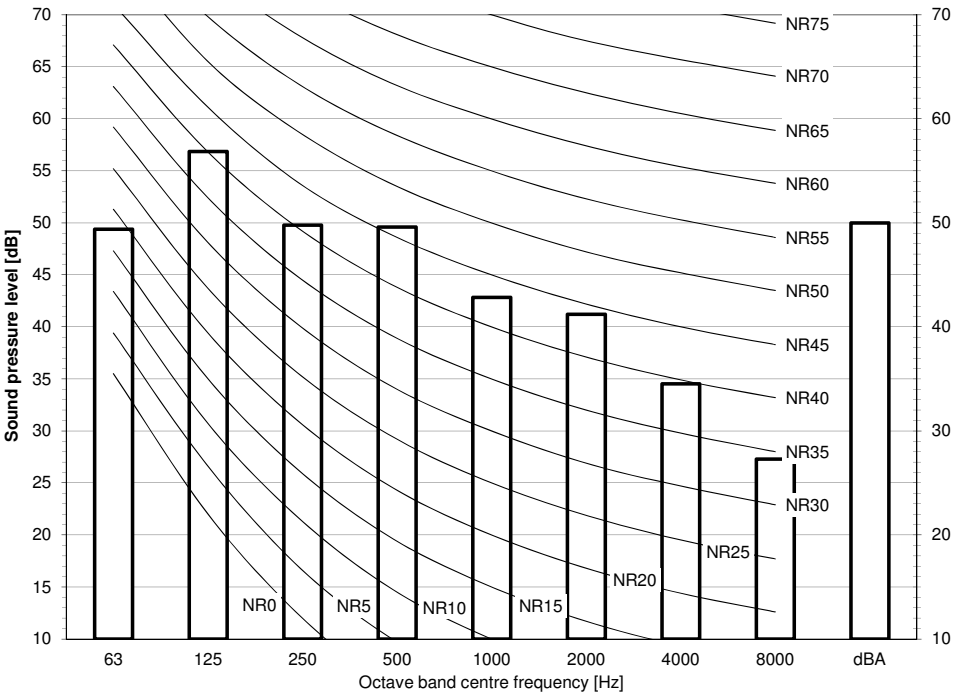


Notes

- 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 μ Pa

3D090877

RZQG100L9V1



Notes

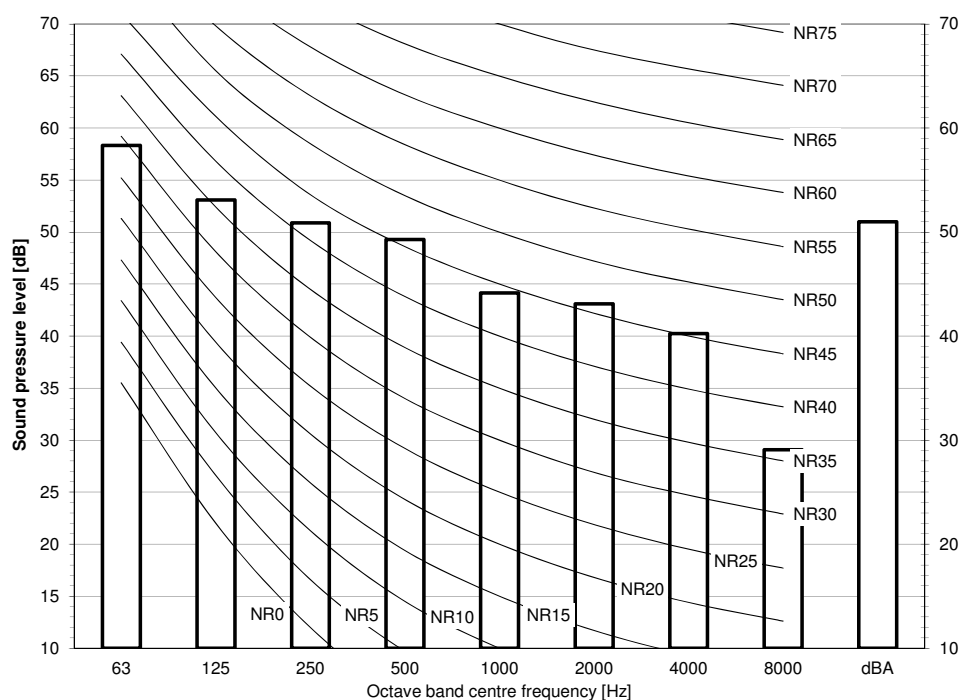
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D090878

11 Sound data

11 - 1 Sound Pressure Spectrum - Cooling

RZQG125L9V1

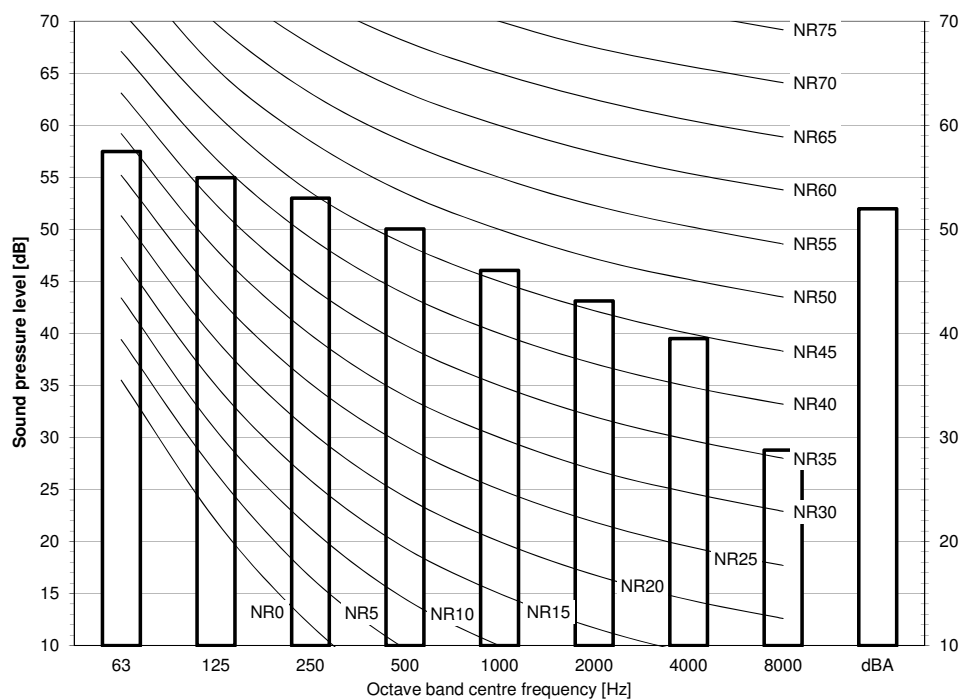


Notes

- 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 μ Pa

3D090879

RZQG140L9V1



Notes

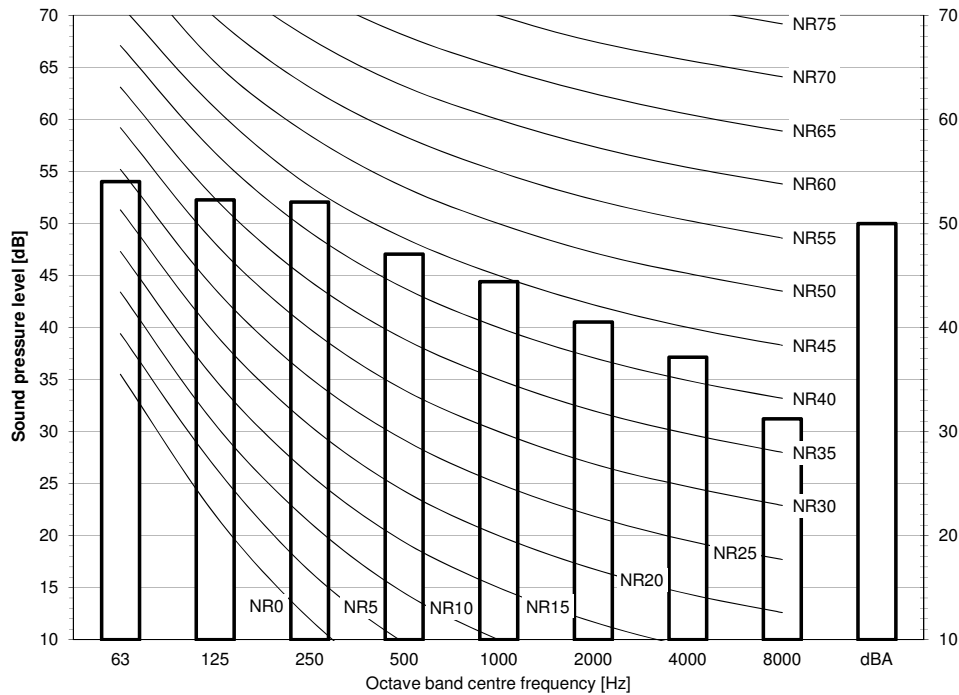
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D090880

11 Sound data

11 - 2 Sound Pressure Spectrum - Heating

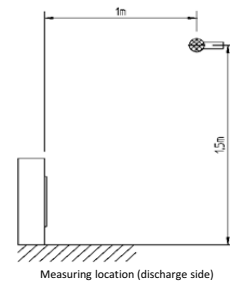
RZQG71L9V1



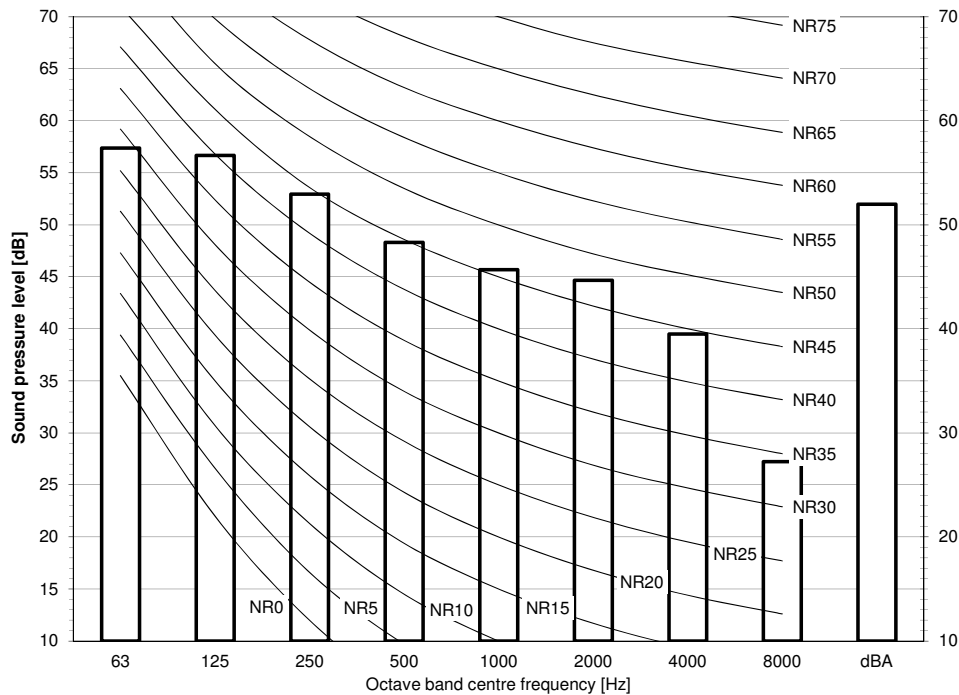
Notes

- 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 μ Pa

3D090867



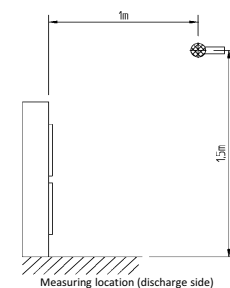
RZQG100L9V1



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 μ Pa

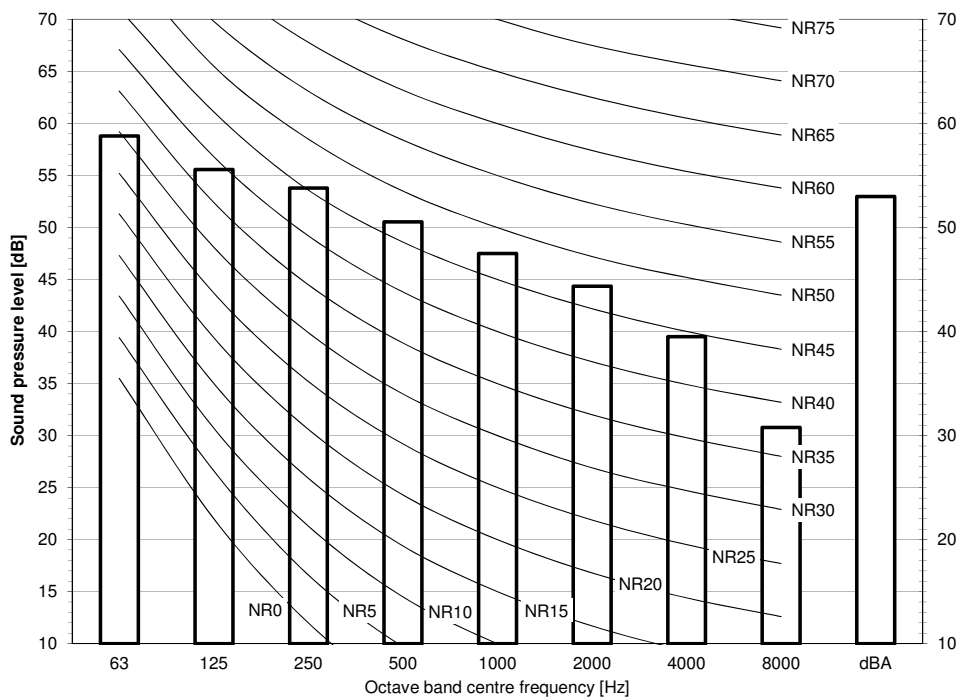
3D090868



11 Sound data

11 - 2 Sound Pressure Spectrum - Heating

RZQG125L9V1

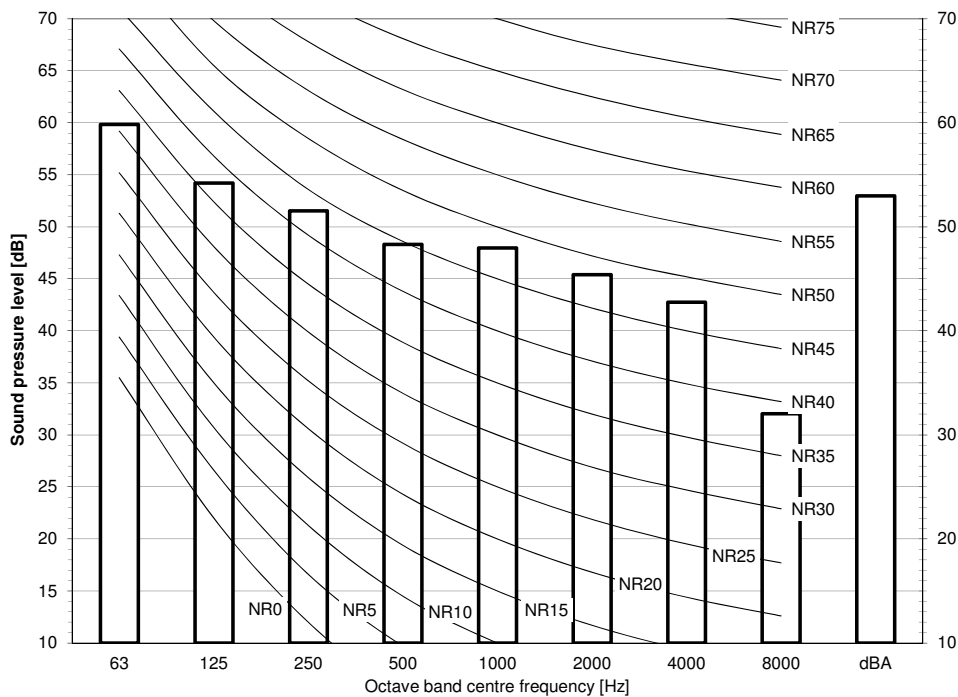


Notes

- 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

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RZQG140L9V1



Notes

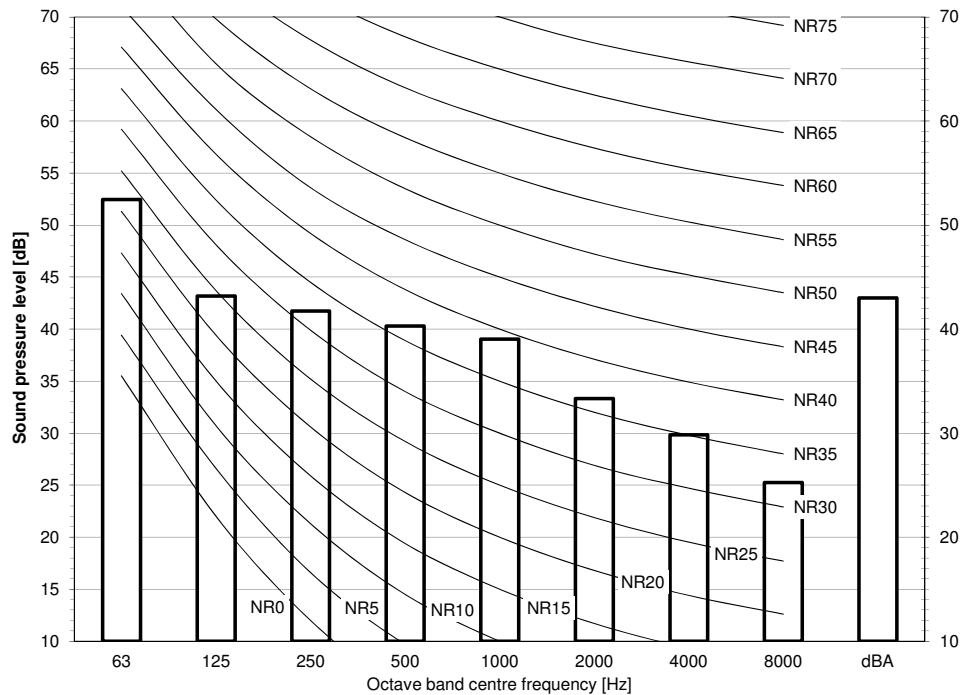
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090870

11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode

RZQG71L9V1

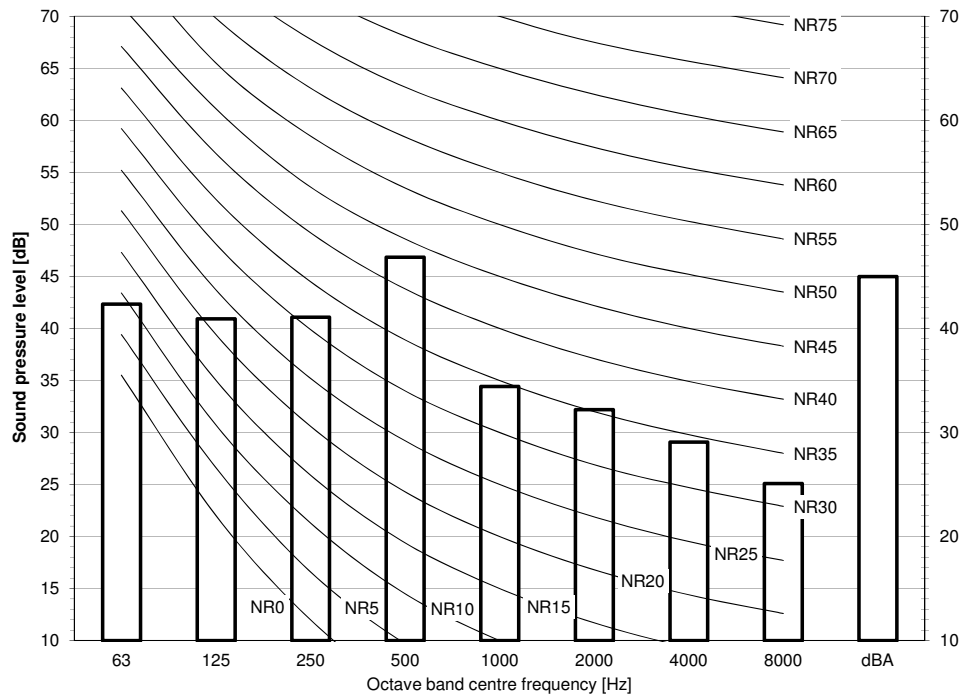


Notes

- 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 μ Pa

3D090857

RZQG100L9V1



Notes

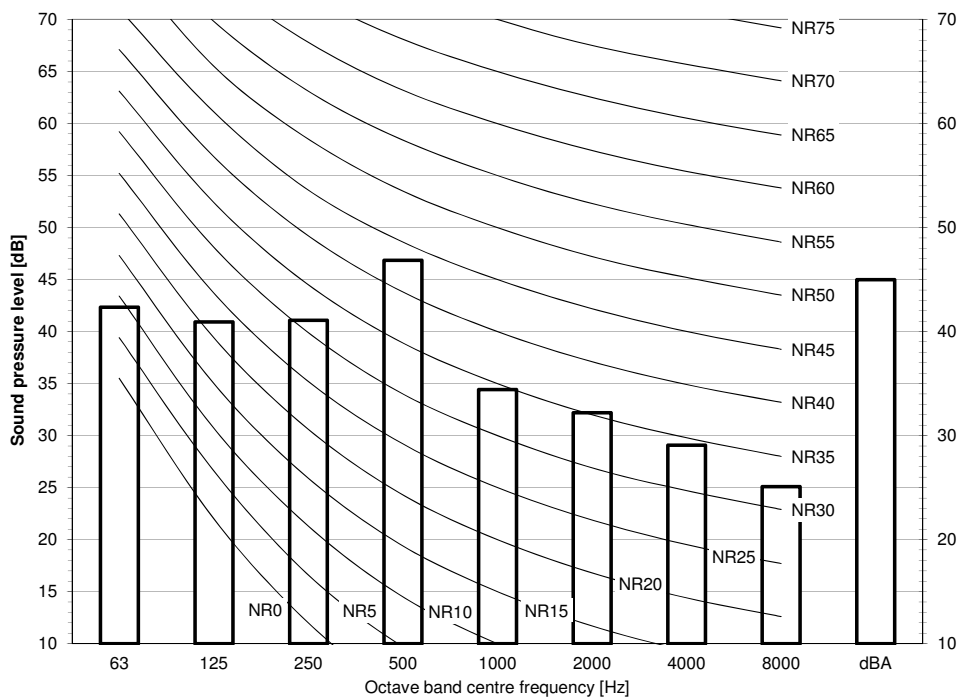
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D090858

11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode

RZQG125L9V1

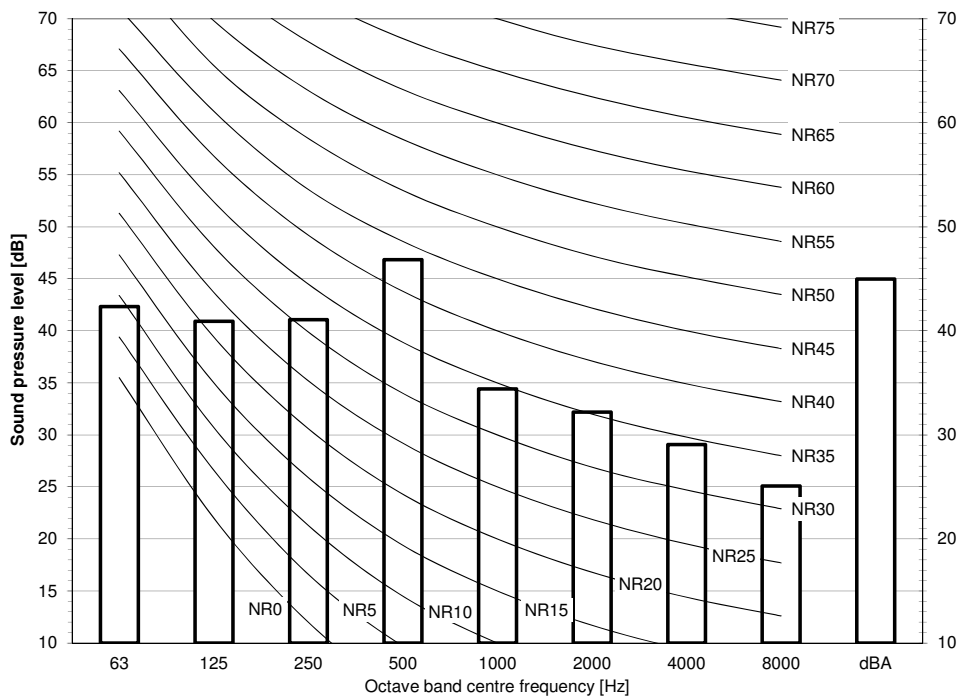


Notes

- 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 μ Pa

3D090859

RZQG140L9V1



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 μ Pa

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12 Installation

12 - 1 Installation Method

RZQG-L9V1

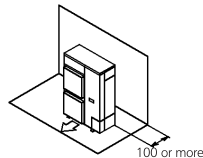
Installation service space

The measure of these values is "mm".

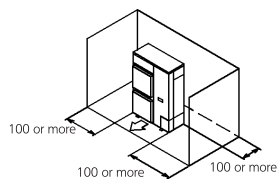
(A) When there are obstacles on suction sides.

• No obstacle above

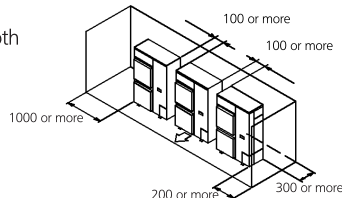
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

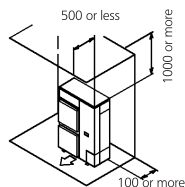


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

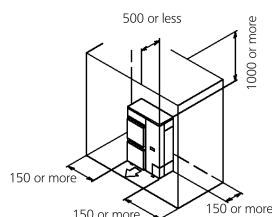


• Obstacle above, too.

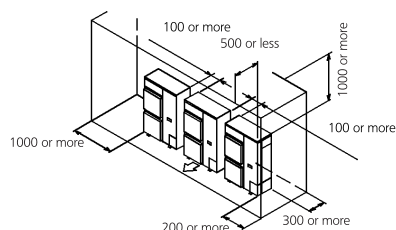
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



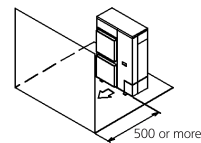
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



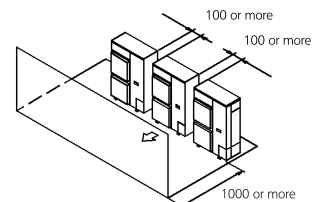
(B) When there are obstacles on discharge sides.

• No obstacle above

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

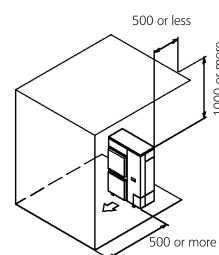


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

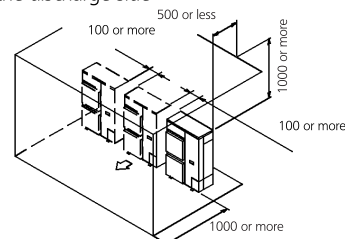


• Obstacle above, too

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



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



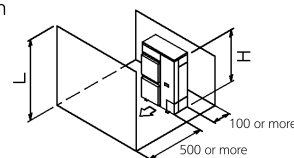
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

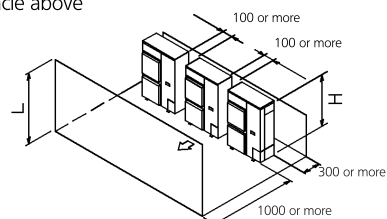
When the obstacles on the discharge side is higher than the unit. ($L > H$)
(There is no limit for the height of obstructions on the suction side.)

• 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

RZQG-L9V1

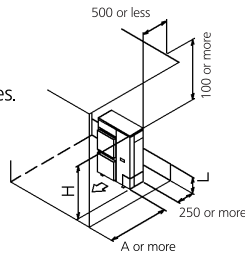
• Obstacle above, too

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
$L \leq H$	$L \leq 1/2 H$ 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.

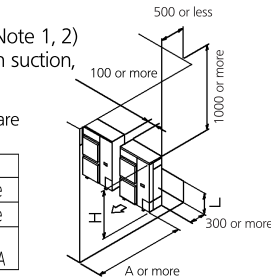
The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ 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

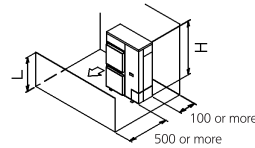
When the obstacle on the discharge side is lower than the unit ($L \leq H$)
(There is no limit for the height of obstructions on the suction side.)



• No obstacle above

① Stand-alone installation

- No obstacle above

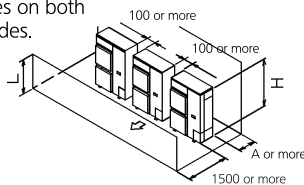


② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on both suction and discharge sides.

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

	L	A
$L \leq H$	$L \leq 1/2 H$ 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	



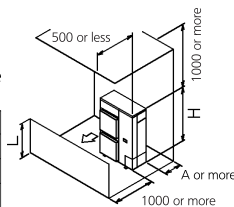
• obstacle above

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
$L \leq H$	$L \leq 1/2 H$ 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	



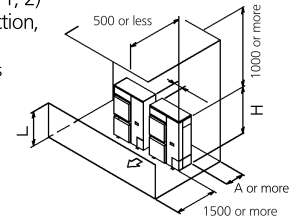
② Series installation (2 or more) (Note 1, 2)

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

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

	L	A
$L \leq H$	$L \leq 1/2 H$ 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	

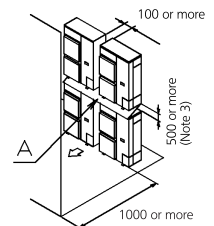
Limit of series installation is 2 units.



(D) Double-decker installation

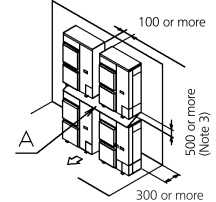
① Obstacle on the discharge side. (1)

- 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.



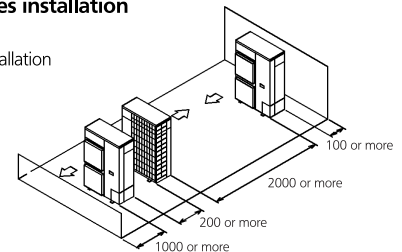
② Obstacle on the suction side. (1)

- 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.)

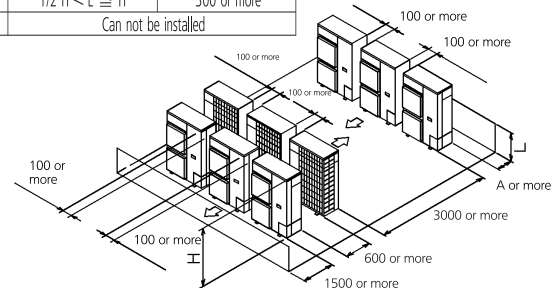
① One row of stand-alone installation



② Rows of series installation (2 or more)

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

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



NOTES

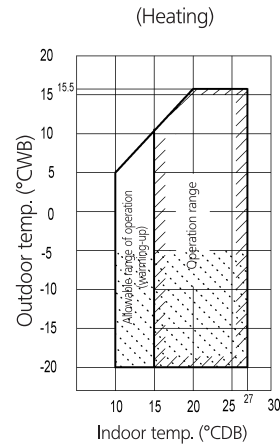
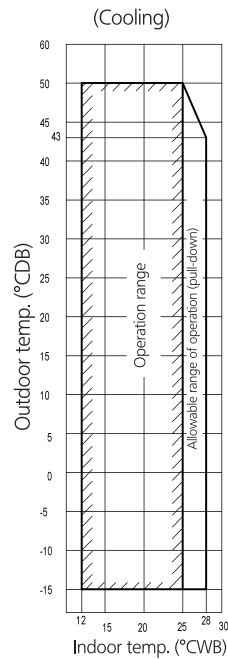
- In case of the sideways piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between 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 reintake of discharged air.

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13 Operation range

13 - 1 Operation Range

RZQG-L9V1

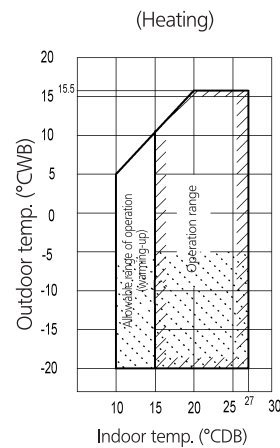
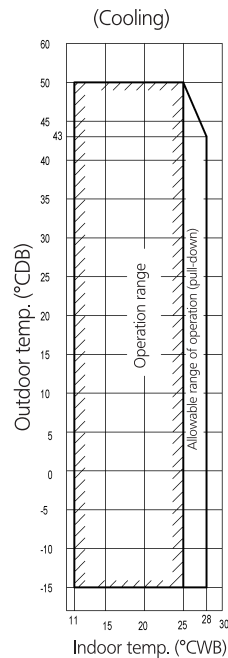


Notes:

- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
- If the unit has to operate for 5 days in this operation range with 100% humidity, it is advisable to install the optional bottom plate heater.

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RZQG-L9V1 - EDP Room

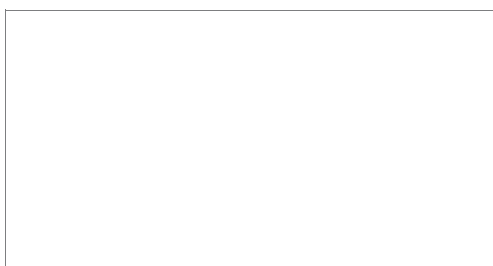


Notes:

- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
- If the unit has to operate for 5 days in this operation range with 100% humidity, it is advisable to install the optional bottom plate heater.

3D076503

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XXX-06/16



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