



Pair, Twin, Triple, double
twin

Air Conditioning
Technical Data

RZQSG-L(8)Y1



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RZQSG-L(8)Y1

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1 Features

1 - 1 RZQSG-L(8)Y1

- › Top efficiency: - Energy labels up to A++ (cooling) /A+ (heating) for RZQG71/100L9V1 + FCQG71/100F - compressor that offers substantial efficiency improvements - control logic that optimises efficiency at the most frequently encountered operating conditio
- › Replace existing systems with R-32 technology without needing to replace the piping
- › Guarantees operation in both heating and cooling mode down to -15°C
- › With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
- › 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
- › 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

1 - 1 RZQSG-L(8)Y1

Technical Specifications					RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Casing	Colour				Ivory white		
	Material				Painted galvanized steel plate		
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		82.0		101.0	
	Packed unit	kg		88.0		108.0	
Heat exchanger	Fin	Type			WF fin		
		Treatment			Anti-corrosion treatment (PE)		
Fan	Type				Propeller fan		
	Discharge direction				Horizontal		
	Quantity				1		2
	Air flow rate	Cooling	Nom.	m³/min	76	77	83
			Rated	m³/h	4,560	4,620	4,980
			Moderate	m³/min	55		-
		Heating	Nom.	m³/min	83		62
			Rated	m³/h	4,980		3,720
			Moderate	m³/min	55		-
Fan motor	Quantity				1		2
	Model				Brushless DC motor		
	Output				200		94
	Drive				Direct drive		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling	Ambient	Min.	°CDB	-15.0		
			Max.	°CDB	46.0		
	Heating	Ambient	Min.	°CWB	-15.0		
			Max.	°CWB	15.5		
Sound power level	Cooling	dBA			70.0		69.0
	Heating	dBA			70.0		69.0
Sound pressure level	Cooling	Nom.	dBA		53	54	53
	Heating	Nom.	dBA		57	58	54
	Night quiet mode	Level 1	dBA		49		
Refrigerant	Type				R-410A		
	Charge				2.9	4.0	
	Charge				6.05	8.35	
	Control				Expansion valve (electronic type)		
	GWP				2,087.5		
	Circuits				1		
Refrigerant oil	Type				Synthetic (ether) oil FVC50K		
	Charged volume				0.90	1.35	
Piping connections	Liquid	Quantity			1		
		Type			Flare connection		
		OD			9.52		
	Gas	Quantity			1		
		Type			Flare connection		
		OD			15.9		
	Drain	Quantity			5		
		Type			Hole		
		OD			26		
	Piping length	OU - IU	Min.	m	5		
			Max.	m	50		
		System	Equivalent	m	70		
	Chargeless		m	30			
	Additional refrigerant charge				kg/m		
	Level difference	IU - OU	Max.	m	30.0		
					0.5		
Heat insulation				Both liquid and gas pipes			
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
		02			Fan driver overload protector		
		03			Fuse		

Standard accessories: Tie-wraps; Quantity: 2;

Standard accessories: Installation manual; Quantity: 1;

2 Specifications

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Electrical Specifications			RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Power supply	Name		Y1		
	Phase		3N~		
	Frequency	Hz	50		
	Voltage	V	380-415		
Current	Zmax	List	Complies to EN61000-3-11		
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		
Current - 50Hz	Maximum fuse amps (MFA)	A	20		25

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

See separate drawing for electrical data |

EN/IEC 61000-3-11: European/international technical standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated ≤ 75A

Technical specifications			FCAHG100H + RZQSG100L8Y1	FCAHG125H + RZQSG125L8Y1	FCAHG140H + RZQSG140LY1
Cooling capacity	Nom.	kW	9.5	12.0	13.4
	Nom.	Btu/h	32,400	40,900	45,700
	Nom.	kcal/h	8,169	10,318	11,522
Heating capacity	Nom.	kW	10.8	13.5	15.5
	Nom.	Btu/h	36,900	46,100	52,900
	Nom.	kcal/h	9,286	11,608	13,328
Power input	Cooling	Nom. kW	2.57	3.85	4.31
	Heating	Nom. kW	2.51	3.60	4.29
Nominal efficiency	EER		3.70	3.12	3.11
	COP		4.30	3.75	3.61
	Annual energy consumption	kWh	1,284	1,923	-
	Energy labeling	Cooling Heating Directive	A	B	-
			A		-
Space cooling	Energy efficiency class		A++	A	-
	Capacity	Pdesign kW	9.50	12.00	13.40
	SEER		6.70	5.40	6.61
	ηs,c	%	-	-	261.6
	Annual energy consumption	kWh/a	497	778	1,215
Space heating (Average climate)	Energy efficiency class		A+		-
	Capacity	Pdesign kW	8.03		11.78
	SCOP/A		4.30	4.10	4.29
	SCOPnet/A		4.32	4.11	4.29
	ηs,h	%	-		168.6
	Pdh Heating capacity at -10°	kW	7		-
	Annual energy consumption	kWh/a	2,615	2,742	3,843
	Required back up heating cap at design conditions	kW	0.660		11.776
Space cooling	A Condi- tion (35°C	Pdc EERd	9.50	12.00	13.40
	- 27/19)	Power input	3.70	3.12	3.11
	B Condi- tion (30°C	Pdc EERd	2.57	3.85	4.31
	- 27/19)	Power input	7.00	8.84	9.88
	C Condi- tion (25°C	Pdc EERd	4.82	3.36	4.97
	- 27/19)	Power input	1.45	2.63	1.96
	D Condi- tion (20°C	Pdc EERd	4.69	5.69	6.35
	- 27/19)	Power input	8.43	6.73	8.19
			0.56	0.85	0.77
			4.12	4.04	6.02
Space cooling	D Condi- tion (20°C	EERd	11.38	10.17	10.91
	- 27/19)	Power input	0.36	0.40	0.55

2 Specifications

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Technical specifications				FCAHG100H + RZQSG100L8Y1	FCAHG125H + RZQSG125L8Y1	FCAHG140H + RZQSG140LY1
Space heating (Average climate)	TOL	Tol (temperature operating limit) °C		-15		-10
		Pd _h (declared heating cap) kW		7.81	7.83	11.78
		COP _d (declared COP)		2.23	2.34	2.12
		Power input kW		3.50	3.35	5.56
	TBivalent	Tbiv (bivalent temperature) °C		-7		-10
		Pd _h (declared heating cap) kW		7.10		11.78
		COP _d (declared COP)		3.28	3.04	2.12
		Power input kW		2.16	2.34	5.56
	A Con- dition (-7°C)	Pd _h (declared heating cap) kW		7.10		10.42
		COP _d (declared COP)		3.28	3.04	2.57
		Power input kW		2.16	2.34	4.05
	B Condi- tion (2°C)	Pd _h (declared heating cap) kW		5.06	5.08	6.34
		COP _d (declared COP)		4.02	3.92	4.36
		Power input kW		1.26	1.30	1.45
	C Condi- tion (7°C)	Pd _h (declared heating cap) kW		3.05	3.06	4.21
		COP _d (declared COP)		5.86	5.58	5.52
		Power input kW		0.52	0.55	0.76
	D Con- dition (12°C)	Pd _h (declared heating cap) kW		3.48	3.49	4.88
		COP _d (declared COP)		6.99	6.65	6.93
		Power input kW		0.50	0.52	0.70
Power consump- tion in other than active mode	Crank- case heater mode	Cooling PCK	kW	0.000		
		Heating PCK	kW	0.000		
	Off mode	Cooling POFF	kW	0.007		0.012
		Heating POFF	kW	0.007		0.012
	Standby mode	Cooling PSB	kW	0.007		0.012
		Heating PSB	kW	0.007		0.012
	Thermo- stat-off mode	Cooling PTO	kW	0.007		0.012
		Heating PTO	kW	0.007		0.012
	Indication if the heater is equipped with a supplementary heater (pair application)			-		No
	Supplementary heater (pair appli- cation)	Back-up Heating elbu	kW	-		0.0
Cooling Cdc (Degradation cooling)				0.25		
Heating Cdh (Degradation heating)				0.25		
Cooling function included				Yes		
Heating function included				Yes		
Average climate included				Yes		
Cold season included				No		
Warm season included				No		

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |

See separate drawing for operation range |

See separate drawing for electrical data

Technical specifications				FCAG100B + RZQSG100L8Y1	FCAG125B + RZQSG125L8Y1	FCAG140B + RZQSG140LY1
Cooling capacity	Nom.	kW		9.5	12.0	13.4
	Nom.	Btu/h		32,400	40,900	45,700
	Nom.	kcal/h		8,169	10,318	11,522
Heating capacity	Nom.	kW		10.8	13.5	15.5
	Nom.	Btu/h		36,900	46,100	52,900
	Nom.	kcal/h		9,286	11,608	13,328
Power input	Cooling Nom.	kW		2.88	4.12	5.58
	Heating Nom.	kW		3.05	3.96	4.55
Nominal efficiency	EER			3.30	2.91	2.40
	COP			3.54	3.41	
	Annual energy consumption kWh			1,439	2,062	-
	Energy labeling	Cooling		A	C	-
	Directive	Heating		B		-
Space cooling	Energy efficiency class			A++	A	-
	Capacity Pdesign	kW		9.50	12.00	13.40
	SEER			6.50	5.30	6.18
	η _{s,c}		%	-	-	244.4
	Annual energy consumption kWh/a			512	793	1,300

2 Specifications

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Technical specifications					FCAG100B + RZQSG100L8Y1	FCAG125B + RZQSG125L8Y1	FCAG140B + RZQSG140LY1	
Space heating (Average climate)	Energy efficiency class				A+		-	
	Capacity	Pdesign	kW		7.60	8.03	11.56	
	SCOP/A				4.10	4.01	4.18	
	SCOPnet/A				4.11	4.02	4.18	
	ηs,h			-		164.2		
	Pdh Heating capacity at -10°	kW		7		-		
	Annual energy consumption				2,596	2,804	3,872	
	Required back up heating cap at design conditions				0.530	0.690	11.562	
Space cooling	A Condi- tion (35°C - 27/19)	Pdc	kW		9.50	12.00	13.40	
	EERd				3.30	2.91	2.40	
	Power input		kW		2.88	4.12	5.58	
	B Condi- tion (30°C - 27/19)	Pdc	kW		7.00	8.84	9.87	
	EERd				4.40	3.16	4.71	
	Power input		kW		1.59	2.80	2.07	
	C Condi- tion (25°C - 27/19)	Pdc	kW		4.56	5.69	6.35	
	EERd				8.45	6.87	7.88	
	Power input		kW		0.54	0.83	0.80	
	D Condi- tion (20°C - 27/19)		Pdc	kW		3.99	3.98	5.71
Space cooling	D Condi- tion (20°C - 27/19)	EERd			11.85	10.18	10.76	
	Power input		kW		0.34	0.39	0.53	
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C		-15		-10
		Pdh (declared heating cap)	kW		7.66	7.74	11.56	
		COPd (declared COP)				2.03	2.10	1.91
		Power input		kW		3.77	3.69	6.05
	TBivalent	Tbiv (bivalent temperature)		°C		-7		-10
		Pdh (declared heating cap)	kW		6.72	7.10	11.56	
		COPd (declared COP)				3.20	2.93	1.91
		Power input		kW		2.10	2.42	6.05
	A Con- dition (-7°C)	Pdh (declared heating cap)		kW		6.72	7.10	10.23
		COPd (declared COP)				3.20	2.93	2.33
		Power input		kW		2.10	2.42	4.39
	B Condi- tion (2°C)	Pdh (declared heating cap)		kW		5.07		6.22
		COPd (declared COP)				3.74	3.70	4.24
		Power input		kW		1.36	1.37	1.47
	C Condi- tion (7°C)	Pdh (declared heating cap)		kW		3.05	3.07	4.08
		COPd (declared COP)				6.03	5.86	5.67
		Power input		kW		0.51	0.52	0.72
	D Con- dition (12°C)	Pdh (declared heating cap)		kW		3.49	3.50	4.73
		COPd (declared COP)				7.10	6.90	7.03
		Power input		kW		0.49	0.51	0.67
	Power consump- tion in other than active mode	Crank- case heater mode	Cooling	PCK	kW	0.000		
			Heating	PCK	kW	0.000		
		Off mode	Cooling	POFF	kW	0.007		0.012
			Heating	POFF	kW	0.007		0.012
		Standby mode	Cooling	PSB	kW	0.007		0.012
			Heating	PSB	kW	0.007		0.012
		Thermo- stat-off mode	Cooling	PTO	kW	0.007		0.012
			Heating	PTO	kW	0.007		0.012
Indication if the heater is equipped with a supplementary heater (pair application)					-		No	
Supplementary heater (pair appli- cation)					-		0.0	
Cooling					Cdc (Degradation cooling)			0.25
Heating					Cdh (Degradation heating)			0.25
Cooling function included								Yes
Heating function included								Yes
Average climate included								Yes
Cold season included								No
Warm season included								No

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range |
See separate drawing for electrical data

2 Specifications

1 - 1 RZQSG-L(8)Y1

Technical specifications				FBA100A + RZQSG100L8Y1	FBA125A + RZQSG125L8Y1	FBA140A + RZQSG140LY1
Cooling capacity	Nom.	kW		9.5	12.0	13.4
	Nom.	Btu/h		32,400	40,900	45,700
	Nom.	kcal/h		8,169	10,318	11,522
Heating capacity	Nom.	kW		10.8	13.5	15.5
	Nom.	Btu/h		36,900	46,100	52,900
	Nom.	kcal/h		9,286	11,608	13,328
Power input	Cooling	Nom.	kW	2.84	3.72	5.88
	Heating	Nom.	kW	2.94	3.72	4.56
Nominal efficiency	EER			3.35	3.23	2.28
	COP			3.67	3.63	3.40
	Annual energy consumption	kWh		1,418	1,858	-
	Energy labeling	Cooling		A		-
		Heating		A		-
	Directive					
Space cooling	Energy efficiency class			A+	A	-
	Capacity	Pdesign	kW	9.50	12.00	13.40
	SEER			5.96	5.47	5.23
	ηs,c		%	-	-	206.3
	Annual energy consumption		kWh/a	558	768	1,537
Space heating (Average climate)	Energy efficiency class			A+		-
	Capacity	Pdesign	kW	7.60		11.57
	SCOP/A			4.15	4.01	3.81
	SCOPnet/A			4.19	4.05	3.81
	ηs,h		%	-	-	149.3
	Pdh Heating capacity at -10°		kW	6		-
	Annual energy consumption		kWh/a	2,564	2,653	4,255
	Required back up heating cap at design conditions		kW	1.840	1.820	11.572
	A Condi- tion (35°C	Pdc	kW	9.50	12.00	13.40
	- 27/19)	EERd		3.35	3.23	2.28
Space cooling	B Condi- tion (30°C	Pdc	kW	7.00	8.84	9.88
	- 27/19)	EERd		4.83	3.70	4.02
	- 27/19)	Power input	kW	1.45	2.39	2.43
	C Condi- tion (25°C	Pdc	kW	4.50	5.68	6.35
	- 27/19)	EERd		7.05	7.38	6.56
	- 27/19)	Power input	kW	0.64	0.77	0.96
	D Condi- tion (20°C	Pdc	kW	3.94	3.95	5.95
	- 27/19)					
	D Condi- tion (20°C	EERd		9.04	9.51	8.56
	- 27/19)	Power input	kW	0.44	0.42	0.69
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-15		-10
		Pdh (declared heating cap)	kW	4.16	4.21	11.57
		COPd (declared COP)		2.11	2.24	2.15
		Power input	kW	1.97	1.88	5.38
	TBivalent	Tbiv (bivalent temperature)	°C	-7		-10
		Pdh (declared heating cap)	kW	6.72		11.57
		COPd (declared COP)		2.98	2.83	2.15
		Power input	kW	2.26	2.37	5.38
	A Con- dition (-7°C)	Pdh (declared heating cap)	kW	6.72		10.24
		COPd (declared COP)		2.98	2.83	2.54
		Power input	kW	2.26	2.37	4.03
	B Condi- tion (2°C)	Pdh (declared heating cap)	kW	4.09		6.23
		COPd (declared COP)		4.32		3.77
		Power input	kW	0.95		1.65
	C Condi- tion (7°C)	Pdh (declared heating cap)	kW	2.82	2.85	4.11
		COPd (declared COP)		4.70	4.35	4.84
		Power input	kW	0.60	0.66	0.85
	D Con- dition (12°C)	Pdh (declared heating cap)	kW	2.93	2.94	4.79
		COPd (declared COP)		5.95	5.46	5.73
		Power input	kW	0.49	0.54	0.84

2 Specifications

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Technical specifications					FBA100A + RZQSG100L8Y1	FBA125A + RZQSG125L8Y1	FBA140A + RZQSG140LY1
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW		0.000	
		Heating	PCK	kW		0.000	
	Off mode	Cooling	POFF	kW	0.004	0.022	0.014
		Heating	POFF	kW	0.004	0.022	0.014
	Standby mode	Cooling	PSB	kW	0.004	0.022	0.014
		Heating	PSB	kW	0.004	0.022	0.014
	Thermo-stat-off mode	Cooling	PTO	kW	0.022	0.004	0.014
		Heating	PTO	kW	0.022	0.004	0.014
	Indication if the heater is equipped with a supplementary heater (pair application)				-		No
	Supplementary heater (pair application)	Back-up capacity	Heating elbu	kW	-		0.0
Cooling Cdc (Degradation cooling)						0.25	
Heating Cdh (Degradation heating)						0.25	
Cooling function included						Yes	
Heating function included						Yes	
Average climate included						Yes	
Cold season included						No	
Warm season included						No	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |

See separate drawing for operation range |

See separate drawing for electrical data

Technical specifications				FDA125A + RZQSG125L8Y1	
Cooling capacity	Nom.		kW	12.0	
	Nom.		Btu/h	40,900	
	Nom.		kcal/h	10,318	
Heating capacity	Nom.		kW	13.5	
	Nom.		Btu/h	46,100	
	Nom.		kcal/h	11,608	
Power input	Cooling	Nom.	kW	3.88	
	Heating	Nom.	kW	3.85	
Nominal efficiency	EER			3.09	
	COP			3.51	
	Annual energy consumption		kWh	1,942	
	Energy labeling	Cooling		B	
		Heating		B	
Space cooling	Energy efficiency class			A	
	Capacity	Pdesign	kW	12.00	
	SEER			5.20	
	Annual energy consumption		kWh/a	808	
Space heating (Average climate)	Energy efficiency class			A	
	Capacity	Pdesign	kW	7.60	
	SCOP/A			3.90	
	SCOPnet/A			3.91	
	PdH Heating capacity at -10°		kW	7	
	Annual energy consumption		kWh/a	2,729	
	Required back up heating cap at design conditions		kW	0.580	
	Space cooling	A Condi- tion (35°C - 27/19)	Pdc EERd	kW	12.00
				3.09	
		Power input	kW	3.88	
B Condi- tion (30°C - 27/19)		Pdc EERd	kW	8.84	
				3.43	
		Power input	kW	2.58	
C Condi- tion (25°C - 27/19)		Pdc EERd	kW	5.69	
				6.56	
		Power input	kW	0.87	
		D Condi- tion (20°C - 27/19)	Pdc EERd	kW	4.04
			8.53		
		Power input	kW	0.47	

2 Specifications

1 - 1 RZQSG-L(8)Y1

Technical specifications					FDA125A + RZQSG125L8Y1		
Space heating (Average climate)	TOL	Tol (temperature operating limit) °C			-15		
		Pd _h (declared heating cap) kW			7.51		
		COP _d (declared COP)			2.22		
		Power input kW			3.38		
		TBivalent	T _{biv} (bivalent temperature) °C			-7	
			Pd _h (declared heating cap) kW			6.72	
	COP _d (declared COP)			2.87			
		Power input kW			2.34		
		A Con- dition (-7°C)	Pd _h (declared heating cap) kW			6.72	
			COP _d (declared COP)			2.87	
	Power input kW			2.34			
	B Condi- tion (2°C)	Pd _h (declared heating cap) kW			4.85		
		COP _d (declared COP)			3.87		
		Power input kW			1.25		
	C Condi- tion (7°C)	Pd _h (declared heating cap) kW			3.02		
COP _d (declared COP)			5.10				
Power input kW			0.59				
Power consump- tion in other than active mode	D Con- dition (12°C)	Pd _h (declared heating cap) kW			3.42		
		COP _d (declared COP)			5.98		
		Power input kW			0.57		
	Crank- case heater mode	Cooling	PCK	kW	0.000		
		Heating	PCK	kW	0.000		
		Off mode	Cooling	POFF	kW	0.007	
	Heating		POFF	kW	0.007		
	Standby mode		Cooling	PSB	kW	0.007	
		Heating	PSB	kW	0.007		
		Thermo- stat-off mode	Cooling	PTO	kW	0.007	
	Heating		PTO	kW	0.007		
	Cooling		Cdc (Degradation cooling)			0.25	
	Heating	Cdh (Degradation heating)			0.25		
	Cooling function included					Yes	
	Heating function included					Yes	
	Average climate included					Yes	
Cold season included					No		
Warm season included					No		
Eurovent	Sound power level outdoor	Cooling	Nom.	dB _A	70		
	Sound power level indoor	Cooling	Nom.	dB _A	66		

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |

See separate drawing for operation range |

See separate drawing for electrical data

Technical specifications				FHA100A + RZQSG100L8Y1	FHA125A + RZQSG125L8Y1	FHA140A + RZQSG140LY1
Cooling capacity	Nom.		kW	9.5	12.0	13.4
	Nom.		Btu/h	32,400	40,900	45,700
	Nom.		kcal/h	8,169	10,318	11,522
Heating capacity	Nom.		kW	10.8	13.5	15.5
	Nom.		Btu/h	36,900	46,100	52,900
	Nom.		kcal/h	9,286	11,608	13,328
Power input	Cooling	Nom.	kW	2.96	4.15	5.10
	Heating	Nom.	kW	2.99	3.73	4.55
Nominal efficiency	EER			3.21	2.89	2.63
	COP			3.61	3.62	3.41
	Annual energy consumption		kWh	1,480	2,076	-
	Energy labeling	Cooling		A	C	-
		Heating		A		-
Space cooling	Directive					-
	Energy efficiency class			A+		-
	Capacity	Pdesign	kW	9.50	12.00	13.40
	SEER			5.61		
	ηs,c		%	-		221.4
Annual energy consumption		kWh/a	593	749	1,434	

2 Specifications

1 - 1 RZQSG-L(8)Y1

2

Technical specifications					FHA100A + RZQSG100L8Y1	FHA125A + RZQSG125L8Y1	FHA140A + RZQSG140LY1	
Space heating (Average climate)	Energy efficiency class				A	A+	-	
	Capacity	Pdesign		kW	7.60		11.61	
	SCOP/A				3.91	4.01	3.72	
	SCOPnet/A				3.92	4.02	3.72	
	ηs,h			%	-		145.6	
	Pd _h Heating capacity at -10°				7		-	
	Annual energy consumption				2,722	2,654	4,376	
Required back up heating cap at design conditions				0.430	0.460	11.614		
Space cooling	A Condi- tion (35°C - 27/19)	Pdc EERd		kW	9.50 3.21	12.00 2.89	13.40 2.63	
	B Condi- tion (30°C - 27/19)	Power input		kW	2.96	4.15	5.10	
		Pdc EERd		kW	7.00 4.52	8.84 3.46	9.88 4.47	
	C Condi- tion (25°C - 27/19)	Power input		kW	1.55	2.55	2.21	
		Pdc EERd		kW	4.60 6.55	5.69 7.34	6.35 6.51	
	D Condi- tion (20°C - 27/19)	Power input		kW	0.70	0.78	0.98	
		Pdc EERd		kW	4.04 8.88	3.99 10.57	5.99 9.55	
	Space cooling	Power input				0.45	0.38	0.63
	Space heating (Average climate)	TOL	Tol (temperature operating limit)			-15		-10
Pd _h (declared heating cap)				kW	7.91	7.84	11.61	
COPd (declared COP)					2.07	2.19	2.05	
Power input				kW	3.82	3.58	5.66	
TBivalent		Tbiv (bivalent temperature)			-7		-10	
		Pd _h (declared heating cap)		kW	6.72		11.61	
		COPd (declared COP)			3.21	2.98	2.05	
		Power input		kW	2.09	2.26	5.66	
A Con- dition (-7°C)		Pd _h (declared heating cap)			6.72		10.27	
		COPd (declared COP)			3.21	2.98	2.44	
		Power input		kW	2.09	2.26	4.21	
B Condi- tion (2°C)		Pd _h (declared heating cap)			5.15	5.18	6.25	
		COPd (declared COP)			3.62	3.91	3.70	
		Power input		kW	1.42	1.32	1.69	
C Condi- tion (7°C)		Pd _h (declared heating cap)			3.09	3.10	4.15	
		COPd (declared COP)			5.46	5.50	4.69	
		Power input		kW	0.57	0.56	0.88	
D Con- dition (12°C)		Pd _h (declared heating cap)			3.53		4.82	
		COPd (declared COP)			6.42	6.47	5.71	
		Power input		kW	0.55		0.84	
Power consump- tion in other than active mode		Crank- case heater mode	Cooling	PCK	kW	0.000		
	Heating		PCK	kW	0.000			
	Off mode	Cooling	POFF	kW	0.007		0.012	
		Heating	POFF	kW	0.007		0.012	
	Standby mode	Cooling	PSB	kW	0.007		0.012	
		Heating	PSB	kW	0.007		0.012	
	Thermo- stat-off mode	Cooling	PTO	kW	0.007		0.000	
		Heating	PTO	kW	0.007		0.012	
Indication if the heater is equipped with a supplementary heater (pair application)					-		No	
Supplementary heater (pair appli- cation)					-		0.0	
Cooling					Cdc (Degradation cooling)		0.25	
Heating					Cdh (Degradation heating)		0.25	
Cooling function included							Yes	
Heating function included							Yes	
Average climate included							Yes	
Cold season included							No	
Warm season included							No	

2 Specifications

1 - 1 RZQSG-L(8)Y1

Technical specifications					FHA100A + RZQSG100L8Y1	FHA125A + RZQSG125L8Y1	FHA140A + RZQSG140LY1
Eurovent	Sound power level outdoor	Cooling	Nom.	dB(A)	69	70	-
	Sound power level indoor	Cooling	Nom.	dB(A)	60	62	-

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |

See separate drawing for operation range |

See separate drawing for electrical data

Technical specifications				FUA100A + RZQSG100L8Y1	FUA125A + RZQSG125L8Y1
Cooling capacity	Nom.		kW	9.5	12.0
	Nom.		Btu/h	32,400	40,900
	Nom.		kcal/h	8,169	10,318
Heating capacity	Nom.		kW	10.8	13.5
	Nom.		Btu/h	36,900	46,100
	Nom.		kcal/h	9,286	11,608
Power input	Cooling	Nom.	kW	2.96	4.53
	Heating	Nom.	kW	2.99	3.96
Nominal efficiency	EER			3.21	2.65
	COP			3.61	3.41
	Annual energy consumption		kWh	1,480	2,264
	Energy labeling Directive	Cooling Heating		A A	D B
Space cooling	Energy efficiency class			A+	A
	Capacity Pdesign		kW	9.50	12.00
	SEER			5.61	5.30
	Annual energy consumption		kWh/a	593	793
Space heating (Average climate)	Energy efficiency class			A+	A
	Capacity Pdesign		kW	7.60	
	SCOP/A			4.01	3.85
	SCOPnet/A			4.02	3.86
	Pdh Heating capacity at -10°		kW	7	
	Annual energy consumption		kWh/a	2,654	2,764
	Required back up heating cap at design conditions		kW	0.570	0.550
Space cooling	A Condition (35°C - 27/19)	Pdc EERd	kW	9.50 3.21	12.00 2.65
	B Condition (30°C - 27/19)	Pdc EERd	kW	2.96 3.73	4.53 3.01
	C Condition (25°C - 27/19)	Pdc EERd	kW	7.00 1.88	8.84 2.94
	D Condition (20°C - 27/19)	Pdc EERd	kW	4.59 1.88	5.69 2.94
		Pdc EERd	kW	7.23 1.88	7.33 2.94
		Power input	kW	0.63	0.78
		Pdc EERd	kW	4.02 9.63	3.96 10.43
		Power input	kW	0.42	0.38

2 Specifications

1 - 1 RZQSG-L(8)Y1

2

Technical specifications					FUA100A + RZQSG100L8Y1		FUA125A + RZQSG125L8Y1		
Space heating (Average climate)	TOL	Tol (temperature operating limit) °C			-15				
		Pd _h (declared heating cap) kW			7.56		7.60		
		COP _d (declared COP)			1.89		1.88		
		Power input kW			4.00		4.04		
	TBivalent	Tbiv (bivalent temperature) °C			-7				
		Pd _h (declared heating cap) kW			6.72				
		COP _d (declared COP)			2.69		2.62		
		Power input kW			2.50		2.56		
	A Con- dition (-7°C)	Pd _h (declared heating cap) kW			6.72				
		COP _d (declared COP)			2.69		2.62		
		Power input kW			2.50		2.56		
	B Condi- tion (2°C)	Pd _h (declared heating cap) kW			4.13		4.14		
		COP _d (declared COP)			3.82		3.68		
		Power input kW			1.08		1.13		
	C Condi- tion (7°C)	Pd _h (declared heating cap) kW			3.02		3.03		
		COP _d (declared COP)			5.56		5.26		
		Power input kW			0.54		0.58		
	D Con- dition (12°C)	Pd _h (declared heating cap) kW			3.44		3.46		
		COP _d (declared COP)			6.59		6.24		
		Power input kW			0.52		0.55		
Power consump- tion in other than active mode	Crank- case heater mode	Cooling	PCK	kW	0.000				
		Heating	PCK	kW	0.000				
	Off mode	Cooling	POFF	kW	0.007				
		Heating	POFF	kW	0.007				
	Standby mode	Cooling	PSB	kW	0.007				
		Heating	PSB	kW	0.007				
	Thermo- stat-off mode	Cooling	PTO	kW	0.007				
		Heating	PTO	kW	0.007				
	Cooling	Cdc (Degradation cooling)				0.25			
	Heating	Cdh (Degradation heating)				0.25			
Cooling function included					Yes				
Heating function included					Yes				
Average climate included					Yes				
Cold season included					No				
Warm season included					No				
Eurovent	Sound power level outdoor	Cooling	Nom.	dB(A)	69		70		
	Sound power level indoor	Cooling	Nom.	dB(A)	64		65		

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |

See separate drawing for operation range |

See separate drawing for electrical data

Technical specifications					FAA100B + RZQSG100L8Y1	
Cooling capacity	Nom.	kW			9.5	
		Btu/h			32,400	
		kcal/h			8,169	
Heating capacity	Nom.	kW			10.8	
		Btu/h			36,900	
		kcal/h			9,286	
Power input	Cooling	Nom.	kW		3.16	
	Heating	Nom.	kW		3.17	
Nominal efficiency	EER				3.01	
	COP				3.41	
	Annual energy consumption		kWh		1,578	
	Energy labeling Directive	Cooling			B	
		Heating			B	
Space cooling	Energy efficiency class				A+	
	Capacity	Pdesign	kW		9.50	
	SEER				5.61	
	Annual energy consumption		kWh/a		593	

2 Specifications

1 - 1 RZQSG-L(8)Y1

Technical specifications					FAA100B + RZQSG100L8Y1		
Space heating (Average climate)	Energy efficiency class				A+		
	Capacity	Pdesign		kW	6.81		
	SCOP/A				4.01		
	SCOPnet/A				4.02		
	Pd _h Heating capacity at -10°		kW	6			
	Annual energy consumption		kWh/a	2,378			
	Required back up heating cap at design conditions		kW	0.370			
Space cooling	A Condi- tion (35°C	Pdc	kW		9.50		
		EERd			3.01		
	- 27/19)	Power input	kW		3.16		
	B Condi- tion (30°C	Pdc	kW		7.00		
		EERd			3.45		
	- 27/19)	Power input	kW		2.03		
	C Condi- tion (25°C	Pdc	kW		4.50		
		EERd			7.54		
	- 27/19)	Power input	kW		0.60		
	D Condi- tion (20°C	Pdc	kW		3.87		
		EERd			10.42		
	- 27/19)	Power input	kW		0.37		
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-15		
		Pd _h (declared heating cap)		kW	7.15		
		COPd (declared COP)			2.04		
	TBivalent	Power input		kW	3.50		
		Tbiv (bivalent temperature)		°C	-7		
		Pd _h (declared heating cap)		kW	6.02		
		COPd (declared COP)			3.02		
		Power input		kW	1.99		
		A Con- dition (-7°C)	Pd _h (declared heating cap)		kW	6.02	
	COPd (declared COP)			3.02			
	Power input		kW	1.99			
	B Condi- tion (2°C)	Pd _h (declared heating cap)		kW	4.73		
		COPd (declared COP)			3.89		
		Power input		kW	1.22		
	C Condi- tion (7°C)	Pd _h (declared heating cap)		kW	2.96		
		COPd (declared COP)			5.61		
		Power input		kW	0.53		
	D Con- dition (12°C)	Pd _h (declared heating cap)		kW	3.37		
		COPd (declared COP)			6.63		
		Power input		kW	0.51		
	Power consump- tion in other than active mode	Crank- case heater mode	Cooling	PCK	kW	0.000	
			Heating	PCK	kW	0.000	
		Off mode	Cooling	POFF	kW	0.007	
			Heating	POFF	kW	0.007	
		Standby mode	Cooling	PSB	kW	0.007	
			Heating	PSB	kW	0.007	
		Thermo- stat-off mode	Cooling	PTO	kW	0.007	
			Heating	PTO	kW	0.007	
Cooling		Cdc (Degradation cooling)				0.25	
Heating		Cdh (Degradation heating)				0.25	
Cooling function included					Yes		
Heating function included					Yes		
Average climate included					Yes		
Cold season included					No		
Warm season included					No		
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	69		
		Sound power level indoor	Cooling	Nom.	dBA	65	

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |

See separate drawing for operation range |

See separate drawing for electrical data

2 Specifications

1 - 1 RZQSG-L(8)Y1

2

Technical specifications				FVA100A + RZQSG100L8Y1	FVA125A + RZQSG125L8Y1	FVA140A + RZQSG140LY1
Cooling capacity	Nom.		kW	9.5	12.0	13.4
	Nom.		Btu/h	32,400	40,900	45,700
	Nom.		kcal/h	8,169	10,318	11,522
Heating capacity	Nom.		kW	10.8	13.5	15.5
	Nom.		Btu/h	36,900	46,100	52,900
	Nom.		kcal/h	9,286	11,608	13,328
Power input	Cooling	Nom.	kW	2.96	4.27	5.34
	Heating	Nom.	kW	2.99	3.96	4.55
Nominal efficiency	EER			3.21	2.81	2.51
	COP			3.61	3.41	
	Annual energy consumption		kWh	1,480	2,135	-
	Energy labeling	Cooling		A	C	-
		Heating		A	B	-
	Directive					
Space cooling	Energy efficiency class			A		-
	Capacity	Pdesign	kW	9.50	12.00	13.40
	SEER			5.50		5.31
	ηs,c		%	-		209.3
	Annual energy consumption		kWh/a	605	764	1,515
Space heating (Average climate)	Energy efficiency class			A+	A	-
	Capacity	Pdesign	kW	7.60		11.47
	SCOP/A			4.01	3.85	3.69
	SCOPnet/A			4.02	3.86	3.69
	ηs,h		%	-		144.6
	Pdh Heating capacity at -10°		kW	7		-
	Annual energy consumption		kWh/a	2,654	2,764	4,350
	Required back up heating cap at design conditions		kW	0.540	0.370	11.466
Space cooling	A Condi- tion (35°C	Pdc	kW	9.50	12.00	13.40
	- 27/19)	EERd		3.21	2.81	2.51
	B Condi- tion (30°C	Pdc	kW	7.00	8.84	9.87
	- 27/19)	EERd		4.34	3.42	4.37
	- 27/19)	Power input	kW	1.61	2.58	2.26
	C Condi- tion (25°C	Pdc	kW	4.60	5.69	6.35
	- 27/19)	EERd		6.53	7.22	5.99
	- 27/19)	Power input	kW	0.70	0.79	1.06
	D Condi- tion (20°C	Pdc	kW	4.03	3.96	5.81
	- 27/19)					
	D Condi- tion (20°C	EERd		8.55	10.18	8.95
	- 27/19)	Power input	kW	0.47	0.39	0.65
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-15		-10
		Pdh (declared heating cap)	kW	7.64	8.07	11.47
		COPd (declared COP)		1.99	2.15	1.76
		Power input	kW	3.84	3.75	6.52
	TBivalent	Tbiv (bivalent temperature)	°C	-7		-10
		Pdh (declared heating cap)	kW	6.72		11.47
		COPd (declared COP)		3.05	2.95	1.76
		Power input	kW	2.20	2.28	6.52
	A Con- dition (-7°C)	Pdh (declared heating cap)	kW	6.72		10.14
		COPd (declared COP)		3.05	2.95	2.15
		Power input	kW	2.20	2.28	4.72
	B Condi- tion (2°C)	Pdh (declared heating cap)	kW	4.95	5.13	6.17
		COPd (declared COP)		3.81	3.68	3.80
		Power input	kW	1.30	1.39	1.62
	C Condi- tion (7°C)	Pdh (declared heating cap)	kW	3.01	3.18	4.06
		COPd (declared COP)		5.56	5.36	4.80
		Power input	kW	0.54	0.59	0.85
	D Con- dition (12°C)	Pdh (declared heating cap)	kW	3.44	3.64	4.74
		COPd (declared COP)		6.53	6.35	5.72
		Power input	kW	0.53	0.57	0.83

2 Specifications

1 - 1 RZQSG-L(8)Y1

Technical specifications					FVA100A + RZQSG100L8Y1	FVA125A + RZQSG125L8Y1	FVA140A + RZQSG140LY1
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000		
		Heating	PCK	kW	0.000		
	Off mode	Cooling	POFF	kW	0.007	0.012	
		Heating	POFF	kW	0.007	0.012	
	Standby mode	Cooling	PSB	kW	0.007	0.012	
		Heating	PSB	kW	0.007	0.012	
	Thermo-stat-off mode	Cooling	PTO	kW	0.007	0.000	
		Heating	PTO	kW	0.007	0.012	
	Indication if the heater is equipped with a supplementary heater (pair application)					-	No
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	-	0.0	
Cooling	Cdc (Degradation cooling)				0.25		
Heating	Cdh (Degradation heating)				0.25		
Cooling function included					Yes		
Heating function included					Yes		
Average climate included					Yes		
Cold season included					No		
Warm season included					No		
Eurovent	Sound power level outdoor	Cooling	Nom.	dBa	69	70	-
	Sound power level indoor	Cooling	Nom.	dBa	62	63	-

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |

See separate drawing for operation range |

See separate drawing for electrical data

3 Electrical data

3 - 1 Electrical Data

RZQSG-L(8)Y1

RZQSG-L9V1

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

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RZQSG100-140L(8)Y1

Unit combination		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFBQ35D2VEB	RZQSG100L8Y1B	3N~ 50Hz	380~415V	MAX. 50Hz 456V MIN. 50Hz 342V	15.4	16	-	11.4	0.2	0.6	3x0.089	3x0.6
FBQ125D2VEB	RZQSG125L8Y1B				15.2	16	-	11.4	0.2	0.6	0.187	1.5
2xFBQ60D2VEB	RZQSG125L8Y1B				14.7	16	-	11.4	0.2	0.6	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG125L8Y1B				15.5	16	-	11.4	0.2	0.6	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG125L8Y1B				16.1	20	-	11.4	0.2	0.6	4x0.089	4x0.6
FBQ140D2VEB	RZQSG140L7Y1B				18.5	20	-	14.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5
2xFBQ71D2VEB	RZQSG140L7Y1B				18	20	-	14.2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG140L7Y1B				18.8	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG140L7Y1B				19.4	25	-	14.2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
2xFBQ100D2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	16	20	-	13.3	0.75	0.7	2x0.127	2x1
3xFBQ71D2VEB	RZQ200C7Y1B				15.5	20	-	13.3	0.75	0.7	3x0.07	3x0.5

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

RZQSG100-140L(8)Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFBA35A2VEB	RZQSG100L8Y1B	3N~ 50Hz	380~415V	MAX. 50Hz 456V MIN. 50Hz 342V	15.4	16	—	11.4	0.2	0.6	3x0.089	3x0.6
FBA125A2VEB	RZQSG125L8Y1B				15.2	16	—	11.4	0.2	0.6	0.187	1.5
2xFBA60A2VEB	RZQSG125L8Y1B				14.7	16	—	11.4	0.2	0.6	2x0.07	2x0.5
3xFBA50A2VEB	RZQSG125L8Y1B				15.5	16	—	11.4	0.2	0.6	3x0.089	3x0.6
4xFBA35A2VEB	RZQSG125L8Y1B				16.1	20	—	11.4	0.2	0.6	4x0.089	4x0.6
FBA140A2VEB	RZQSG140L7Y1B				18.5	20	—	14.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5
2xFBA71A2VEB	RZQSG140L7Y1B				18	20	—	14.2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBA50A2VEB	RZQSG140L7Y1B				18.8	20	—	14.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBA35A2VEB	RZQSG140L7Y1B				19.4	25	—	14.2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
2xFBA100A2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	16	20	—	13.3	0.75	0.7	2x0.127	2x1
3xFBA71A2VEB	RZQ200C7Y1B				15.5	20	—	13.3	0.75	0.7	3x0.07	3x0.5

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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RZQSG100L8Y1

Unit combination restrictions		Power supply				COMP				OFM		IFM	
Indoor	Outdoor	(1)	(2)	(3)	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA	
3xFBQ35D2VEB	RZQG100L8Y1B	3N~ 50Hz	380~415V	MAX. 50Hz 456V MIN. 50Hz 342V	18.7	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6	
FBQ125D2VEB	RZQG125L8Y1B				18.5	20	-	14.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5	
2xFBQ60D2VEB	RZQG125L8Y1B				18	20	-	14.2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.3	
3xFBQ50D2VEB	RZQG125L8Y1B				18.8	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6	
4xFBQ35D2VEB	RZQG125L8Y1B				19.4	20	-	14.2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6	
FBQ140D2VEB	RZQG140L7Y1B				18.5	20	-	14.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5	
2xFBQ71D2VEB	RZQG140L7Y1B				18	20	-	14.2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.3	
3xFBQ50D2VEB	RZQG140L7Y1B				18.8	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6	
4xFBQ35D2VEB	RZQG140L7Y1B				19.4	20	-	14.2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6	
FBQ100D2VEB	RZQSG100L8Y1B	3N~ 50Hz	380~415V	MAX. 50Hz 456V MIN. 50Hz 342V	14.6	16	-	11.4	0.2	0.6	0.127	1.0	
2xFBQ50D2VEB	RZQSG100L8Y1B				14.8	16	-	11.4	0.2	0.6	2x0.089	2x0.6	

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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Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	(1)	(2)	(3)	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3x FBA35A2VEB	RZQG100L8Y1B	3N~ 50Hz	380~415V	MAX. 50Hz 456V MIN. 50Hz 342V	18,7	20	-	14,2	0,094 + 0,094	0,4 + 0,4	3x0,089	3x0,6
FBA125A2VEB	RZQG125L8Y1B				18,5	20	-	14,2	0,094 + 0,094	0,4 + 0,4	0,187	1,5
2x FBA60A2VEB	RZQG125L8Y1B				18	20	-	14,2	0,094 + 0,094	0,4 + 0,4	2x0,07	2x0,5
3x FBA50A2VEB	RZQG125L8Y1B				18,8	20	-	14,2	0,094 + 0,094	0,4 + 0,4	3x0,089	3x0,6
4x FBA35A2VEB	RZQG125L8Y1B				19,4	20	-	14,2	0,094 + 0,094	0,4 + 0,4	4x0,089	4x0,6
FBA140A2VEB	RZQG140L7Y1B				18,5	20	-	14,2	0,094 + 0,094	0,4 + 0,4	0,187	1,5
2x FBA71A2VEB	RZQG140L7Y1B				18	20	-	14,2	0,094 + 0,094	0,4 + 0,4	2x0,07	2x0,5
3x FBA50A2VEB	RZQG140L7Y1B				18,8	20	-	14,2	0,094 + 0,094	0,4 + 0,4	3x0,089	3x0,6
4x FBA35A2VEB	RZQG140L7Y1B				19,4	20	-	14,2	0,094 + 0,094	0,4 + 0,4	4x0,089	4x0,6
FBA100A2VEB	RZQSG100L8Y1B	3N~ 50Hz	380~415V	MAX. 50Hz 456V MIN. 50Hz 342V	14,6	16	-	11,4	0,2	0,6	0,127	1,0
2x FBA50A2VEB	RZQSG100L8Y1B				14,8	16	-	11,4	0,2	0,6	2x0,089	2x0,6

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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Symbols

- MCA: Minimum Circuit Ampere [A]
- TOCA: Total overcurrent amps [A]
- MFA: Maximum Fuse Ampere [A]
- MSC: Maximum current of the starting compressor [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]

Notes

1. The -RLA- is based on the following conditions.
 - Cooling
 - Indoor temperature -27.0°C DB / -19.0°C WB
 - Outdoor temperature -35.0°C DB
 - Heating
 - Indoor temperature -20.0°C DB
 - Outdoor temperature -7.0°C DB / -6.0°C WB
2. -TOCA- is the total value of each overcurrent set.
3. Voltage range
 - The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is -2-%.
5. -MCA- is the maximum input current.
 - The capacity of the -MFA- must be greater than that of the -MCA-.
 - Select the -MFA- according to the table.
6. Select the wire size according to the MCA.
7. -MFA- is used to select the circuit breaker and the ground fault circuit interruptor.
 - Earth leakage circuit breaker
8. Editable data for this drawing are available in the -GDE (E-BOM)- system.

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3 Electrical data

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RZQSG100-140L(8)Y1

Indoor	Outdoor	Power supply	Voltage range	Compressor					OFM		IFM	
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQG100VEVB	RZQSG100L8Y1B	3N~ 50Hz 380-415V	Minimum: -342 V- Maximum: -456 V-	14.5	—	16	—	11.4	0.2	0.6	0.106	1
FCQH100FVEB	RZQSG100L8Y1B			14.8	—	16	—	11.4	0.2	0.6	0.221	1.3
FCQG35FVEB	RZQSG100L8Y1B			14.3	—	16	—	11.4	0.2	0.6	0.044x3	0.3x3
FCQG35FVEB	RZQSG100L8Y1B			14.0	—	16	—	11.4	0.2	0.6	0.039x2	0.3x2
FCQG100FVEB	RZQSG100L8Y1B			14.1	—	16	—	11.4	0.2	0.6	0.117	0.7
FFQ35C2VEB	RZQSG100L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.05x3	0.4x3
FFQ50C2VEB	RZQSG100L8Y1B			14.2	—	16	—	11.4	0.2	0.6	0.05x2	0.4x2
FDXS35F2VEB	RZQSG100L8Y1B			14.3	—	16	—	11.4	0.2	0.6	0.034x3	0.3x3
FDXS50F2VEB9	RZQSG100L8Y1B			14.5	—	16	—	11.4	0.2	0.6	0.06x2	0.5x2
FBQ35C8VEB	RZQSG100L8Y1B			17.7	—	20	—	11.4	0.2	0.6	0.140x3	1.2x3
FBQ50C8VEB	RZQSG100L8Y1B			16.2	—	20	—	11.4	0.2	0.6	0.140x2	1.2x2
FBQ100C8VEB	RZQSG100L8Y1B			15.2	—	16	—	11.4	0.2	0.6	0.350	1.6
FAQ100C8VEB9	RZQSG100L8Y1B			13.7	—	16	—	11.4	0.2	0.6	0.064	0.4
FVQ100C8VEB	RZQSG100L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.238	1.2
FHQ35CBVEB	RZQSG100L8Y1B			15.5	—	16	—	11.4	0.2	0.6	0.060 x 3	0.6 x 3
FHQ50CBVEB	RZQSG100L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.060 x 2	0.6 x 2
FHQ100CBVEB	RZQSG100L8Y1B			14.8	—	16	—	11.4	0.2	0.6	0.150	1.3
FUQ100C8VEB	RZQSG100L8Y1B			14.8	—	16	—	11.4	0.2	0.6	0.106	1.3

Indoor	Outdoor	Power supply	Voltage range	Compressor					OFM		IFM	
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FAH100GVEB	RZQSG100L8Y1B	3N~ 50Hz 380-415V	Minimum: -342 V- Maximum: -456 V-	14.8	—	16	—	11.4	0.2	0.6	0.221	1.3
FCAG35AVEB	RZQSG100L8Y1B			14.3	—	16	—	11.4	0.2	0.6	0.044x3	0.3x3
FCAG50AVEB	RZQSG100L8Y1B			14.0	—	16	—	11.4	0.2	0.6	0.039x2	0.3x2
FCAG100AVEB	RZQSG100L8Y1B			14.1	—	16	—	11.4	0.2	0.6	0.117	0.7
FFA50A2VEB	RZQSG100L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.05x3	0.4x3
FFA50A2VEB	RZQSG100L8Y1B			14.2	—	16	—	11.4	0.2	0.6	0.05x2	0.4x2
FDXM35F3V1B	RZQSG100L8Y1B			14.3	—	16	—	11.4	0.2	0.6	0.034x3	0.3x3
FDXM50F3V1B	RZQSG100L8Y1B			14.5	—	16	—	11.4	0.2	0.6	0.06x2	0.5x2
FAA100BUV1B	RZQSG100L8Y1B			14.2	—	16	—	11.4	0.2	0.6	0.064	0.9
FVA100AMVEB	RZQSG100L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.238	1.2
FHA35AVEB99	RZQSG100L8Y1B			15.5	—	16	—	11.4	0.2	0.6	0.060 x 3	0.6 x 3
FHA50AVEB99	RZQSG100L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.060 x 2	0.6 x 2
FHA100AVEB99	RZQSG100L8Y1B			14.8	—	16	—	11.4	0.2	0.6	0.150	1.3
FUA100AVEB99	RZQSG100L8Y1B			14.8	—	16	—	11.4	0.2	0.6	0.106	1.3

Indoor	Outdoor	Power supply	Voltage range	Compressor					OFM		IFM	
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQG125VEVB	RZQSG125L8Y1B	3N~ 50Hz 380-415V	Minimum: -342 V- Maximum: -456 V-	14.6	—	16	—	11.4	0.2	0.6	0.106	1.1
FCQH125FVEB	RZQSG125L8Y1B			15.0	—	16	—	11.4	0.2	0.6	0.244	1.4
FCQG35FVEB	RZQSG125L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.044x4	0.3x4
FCQG35FVEB	RZQSG125L8Y1B			14.3	—	16	—	11.4	0.2	0.6	0.039x3	0.3x3
FCQG60FVEB	RZQSG125L8Y1B			14.0	—	16	—	11.4	0.2	0.6	0.044x2	0.3x2
FCQG125FVEB	RZQSG125L8Y1B			14.5	—	16	—	11.4	0.2	0.6	0.168	1
FFQ35C2VEB	RZQSG125L8Y1B			15.2	—	16	—	11.4	0.2	0.6	0.05x4	0.4x4
FFQ50C2VEB	RZQSG125L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.05x3	0.4x3
FFQ60C2VEB	RZQSG125L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.05x2	0.6x2
FDXS35F2VEB	RZQSG125L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.034x4	0.3x4
FDXS50F2VEB9	RZQSG125L8Y1B			15.1	—	16	—	11.4	0.2	0.6	0.060x3	0.5x3
FDXS60F2VEB	RZQSG125L8Y1B			14.5	—	16	—	11.4	0.2	0.6	0.060x2	0.5x2
FBQ35C8VEB	RZQSG125L8Y1B			19.2	—	20	—	11.4	0.2	0.6	0.140x4	1.2x4
FBQ50C8VEB	RZQSG125L8Y1B			17.7	—	20	—	11.4	0.2	0.6	0.140x3	1.2x3
FBQ60C8VEB	RZQSG125L8Y1B			16.0	—	20	—	11.4	0.2	0.6	0.350x2	1.1x2
FBQ125C8VEB	RZQSG125L8Y1B			15.8	—	16	—	11.4	0.2	0.6	0.350	2.1
FDQ125C5VEB	RZQSG125L8Y1B			15.8	—	16	—	11.4	0.2	0.6	0.350	2.1
FDQ125C7VEB	RZQSG125L8Y1B			15.8	—	16	—	11.4	0.2	0.6	0.350	2.1
FVQ125C8VEB	RZQSG125L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.238	1.2
FHQ35CBVEB	RZQSG125L8Y1B			16.2	—	20	—	11.4	0.2	0.6	0.060x4	0.6 x 4
FHQ50CBVEB	RZQSG125L8Y1B			15.5	—	16	—	11.4	0.2	0.6	0.060x3	0.6 x 3
FHQ60CBVEB	RZQSG125L8Y1B			14.7	—	16	—	11.4	0.2	0.6	0.091x2	0.8 x 2
FHQ125CBVEB	RZQSG125L8Y1B			15.1	—	16	—	11.4	0.2	0.6	0.15	1.5
FUQ125C8VEB	RZQSG125L8Y1B			15.0	—	16	—	11.4	0.2	0.6	0.106	1.4
FCQG140EVEB	RZQSG140L7Y1B	3N~ 50Hz 380-415V	Minimum: -342 V- Maximum: -456 V-	17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.048x2	0.4x2
FCQG140EVEB	RZQSG140L7Y1B			17.875	—	20	—	14.2	0.094+0.094	0.4+0.4	0.106	1.1
FCQH140FVEB	RZQSG140L7Y1B			17.75	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091x2	0.5x2
FCQH140FVEB	RZQSG140L7Y1B			18.25	—	20	—	14.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	RZQSG140L7Y1B			18	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044x4	0.3x4
FCQG50FVEB	RZQSG140L7Y1B			17.625	—	20	—	14.2	0.094+0.094	0.4+0.4	0.039x3	0.3x3
FCQG71FVEB	RZQSG140L7Y1B			17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.054x2	0.4x2
FCQG140FVEB	RZQSG140L7Y1B			17.75	—	20	—	14.2	0.094+0.094	0.4+0.4	0.168	1
FFQ35C2VEB	RZQSG140L7Y1B			18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.05x4	0.4x4
FFQ50C2VEB	RZQSG140L7Y1B			18	—	20	—	14.2	0.094+0.094	0.4+0.4	0.05x3	0.4x3
FDXS35F2VEB	RZQSG140L7Y1B			18	—	20	—	14.2	0.094+0.094	0.4+0.4	0.034x4	0.3x4
FDXS50F2VEB9	RZQSG140L7Y1B			18.375	—	20	—	14.2	0.094+0.094	0.4+0.4	0.06x3	0.5x3
FBQ35C8VEB	RZQSG140L7Y1B			22.5	—	25	—	14.2	0.094+0.094	0.4+0.4	0.140x4	1.2x4
FBQ50C8VEB	RZQSG140L7Y1B			21	—	25	—	14.2	0.094+0.094	0.4+0.4	0.140x3	1.2x3
FBQ71C8VEB	RZQSG140L7Y1B			19.25	—	20	—	14.2	0.094+0.094	0.4+0.4	0.350x2	1.1x2
FBQ140C8VEB	RZQSG140L7Y1B			19.125	—	20	—	14.2	0.094+0.094	0.4+0.4	0.35	2.1
FAQ71C8VEB9	RZQSG140L7Y1B			17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.048x2	0.4x2
FVQ140C8VEB	RZQSG140L7Y1B			18.25	—	20	—	14.2	0.094+0.094	0.4+0.4	0.276	1.4
FHQ35CBVEB	RZQSG140L7Y1B			19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x 4	0.6 x 4
FHQ50CBVEB	RZQSG140L7Y1B			18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x 3	0.6 x 3
FHQ71CBVEB	RZQSG140L7Y1B			18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091 x 2	0.8 x 2
FHQ140CBVEB	RZQSG140L7Y1B			18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.15	1.8
FUQ71C8VEB	RZQSG140L7Y1B			18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.046 x 2	0.9 x 2

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3 Electrical data

3 - 1 Electrical Data

RZQSG125-140L(8)Y1

3

		Power supply	Voltage range		MCA	TOCA	MFA	Compressor		OFM		IFM	
Indoor	Outdoor							MSC	RLA	kW	FLA	kW	FLA
FCAHG125GVEB		3N~ 50Hz 380-415V	Minimum: -342 V Maximum: +456 V		15.0	—	16	—	11.4	0.2	0.6	0.244	1.4
FCAG35AVEB	x4				14.7	—	16	—	11.4	0.2	0.6	0.044x4	0.3x4
FCAG50AVEB	x3				14.3	—	16	—	11.4	0.2	0.6	0.039x3	0.3x3
FCAG60AVEB	x2				14.0	—	16	—	11.4	0.2	0.6	0.044x2	0.3x2
FCAG125AVEB					14.5	—	16	—	11.4	0.2	0.6	0.168	1
FFA35A2VEB	x4				15.2	—	16	—	11.4	0.2	0.6	0.05x4	0.4x4
FFA50A2VEB	x3				14.7	—	16	—	11.4	0.2	0.6	0.05x3	0.4x3
FFA60A2VEB	x2				14.7	—	16	—	11.4	0.2	0.6	0.05x2	0.6x2
FDXM35F3V1B	x4				14.7	—	16	—	11.4	0.2	0.6	0.034x4	0.3x4
FDXM50F3V1B	x3				15.1	—	16	—	11.4	0.2	0.6	0.060x3	0.5x3
FDXM60F3V1B	x2				14.5	—	16	—	11.4	0.2	0.6	0.060x2	0.5x2
FDA125A5VEB					15.8	—	16	—	11.4	0.2	0.6	0.350	2.1
FVA125AMVEB					14.7	—	16	—	11.4	0.2	0.6	0.238	1.2
FHA35AVEB99	x4				16.2	—	20	—	11.4	0.2	0.6	0.060x4	0.6 x 4
FHA50AVEB99	x3				15.5	—	16	—	11.4	0.2	0.6	0.060x3	0.6 x 3
FHA60AVEB99	x2				14.7	—	16	—	11.4	0.2	0.6	0.091x2	0.8 x 2
FHA125AVEB9					15.1	—	16	—	11.4	0.2	0.6	0.15	1.5
FUA125AVEB9					15.0	—	16	—	11.4	0.2	0.6	0.106	1.4
FCAHG140GVEB	x2	3N~ 50Hz 380-415V	Minimum: -342 V Maximum: +456 V		17.75	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091x2	0.5x2
FCAHG140GVEB					18.25	—	20	—	14.2	0.094+0.094	0.4+0.4	0.244	1.4
FCAG35AVEB	x4				18	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044x4	0.3x4
FCAG50AVEB	x3				17.625	—	20	—	14.2	0.094+0.094	0.4+0.4	0.039x3	0.3x3
FCAG71AVEB	x2				17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.054x2	0.4x2
FCAG140AVEB					17.75	—	20	—	14.2	0.094+0.094	0.4+0.4	0.168	1
FFA35A2VEB	x4				18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.05x4	0.4x4
FFA50A2VEB	x3				18	—	20	—	14.2	0.094+0.094	0.4+0.4	0.05x3	0.4x3
FDXM35F3V1B	x4				18	—	20	—	14.2	0.094+0.094	0.4+0.4	0.034x4	0.3x4
FDXM50F3V1B	x3				18.375	—	20	—	14.2	0.094+0.094	0.4+0.4	0.06x3	0.5x3
FAA71BUV1B	x2				17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.048x2	0.4x2
FVA140AMVEB					18.25	—	20	—	14.2	0.094+0.094	0.4+0.4	0.276	1.4
FHA35AVEB99	x4				19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x 4	0.6 x 4
FHA50AVEB99	x3				18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x 3	0.6 x 3
FHA71AVEB99	x2				18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091 x 2	0.8 x 2
FHA140AVEB9					18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.15	1.8
FUA71AVEB9	x2				18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.046 x 2	0.9 x 2

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4 Options

4 - 1 Options

RZQSG-L(8)Y1

Available options for RZQSG models:

Name of option		Kit name		
		RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Bottom plate heater		-		
Refrigerant branch piping	Twin	KHRQ22M20TA (KHRQ58T): See note 1		
	Triple	KHRQ127H (KHRQ58H): See note 1		
	Double twin	-	KHRQ22M20TA (KHRQ58T): See note 1	
Demand adapter kit		KRP58M51		

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NOTES

- 1 For RZQSG71-140L(8)Y1 in combination with FCQG35-71F or FCQH71F use the refrigerant branch piping mentioned between brackets.

5 Combination table

5 - 1 Combination Table

5

RZQSG-L9V1

RZQSG-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
Model	FCAG71HVEB FCAG100HVEB FCAG125HVEB FCAG140HVEB	FCAG38VEB FCAG50VEB FCAG60VEB FCAG71HVEB FCAG100HVEB FCAG125HVEB FCAG140HVEB	FFA35A2VEB FFA50A2VEB FFA60A2VEB	FBA35A2VEB FBA50A2VEB FBA60A2VEB FBA71A2VEB FBA100A2VEB FBA125A2VEB FBA140A2VEB	FHA35AVEB99 FHA50AVEB99 FHA60AVEB99 FHA71AVEB99 FHA100AVEB99 FHA125AVEB99 FHA140AVEB99	FUA71AVEB9 FUA100AVEB9 FUA125AVEB9	FAA71AUEB FAA100AUEB	FDA125A5VEB	FVA71AMVEB FVA100AMVEB FVA125AMVEB FVA140AMVEB	FDXMS53V1BB FDXMS63V1BB
RZQG71L9V1B RZQG71L8Y1B	P		2		2		P		P	2
RZQG100L9V1B RZQG100L8Y1B	P	3 2	3 2	3 2	P		P		P	3 2
RZQG125L9V1B RZQG125L8Y1B	P	4 3 2	4 3 2	4 3 2	P		P	P	P	4 3 2
RZQG140L9V1B RZQG140L7Y1B	2	4 3	4 3	4 3	P	2				4 3

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
Model	FCAG71HVEB FCAG100HVEB FCAG125HVEB FCAG140HVEB	FCAG38VEB FCAG50VEB FCAG60VEB FCAG71HVEB FCAG100HVEB FCAG125HVEB FCAG140HVEB	FFA35A2VEB FFA50A2VEB FFA60A2VEB	FBA35A2VEB FBA50A2VEB FBA60A2VEB FBA71A2VEB FBA100A2VEB FBA125A2VEB FBA140A2VEB	FHA35AVEB99 FHA50AVEB99 FHA60AVEB99 FHA71AVEB99 FHA100AVEB99 FHA125AVEB99 FHA140AVEB99	FUA71AVEB9 FUA100AVEB9 FUA125AVEB9	FAA71AUEB FAA100AUEB	FDA125A5VEB	FVA71AMVEB FVA100AMVEB FVA125AMVEB FVA140AMVEB	FDXMS53V1BB FDXMS63V1BB
RZQSG71L3V1B	P	2	2	P	2		P		P	2
RZQSG100L9V1B RZQSG100L8Y1B	P	3 2	3 2	3 2	P		P		P	3 2
RZQSG125L9V1B RZQSG125L8Y1B	P	4 3 2	4 3 2	4 3 2	P		P	P	P	4 3 2
RZQSG140L9V1B RZQSG140L7Y1B	2	4 3	4 3	4 3	P	2				4 3

Sky Air	Duct (medium ESP)	Concealed floor standing type
Model	FBA35A2VEB FBA50A2VEB FBA60A2VEB FBA71A2VEB FBA100A2VEB FBA125A2VEB FBA140A2VEB	FNA35A2VEB99 FNA50A2VEB99 FNA60A2VEB99
RZQG71L9V1B RZQG71L8Y1B RZQG71L3V1B	2	2
RZQG100L9V1B RZQG100L8Y1B RZQG100L9V1B RZQG100L8Y1B	3 2	3 2
RZQG125L9V1B RZQG125L8Y1B RZQG125L9V1B RZQG125L8Y1B	4 3 2	4 3 2
RZQG140L9V1B RZQG140L7Y1B RZQG140L9V1B RZQG140L7Y1B	4 3	4 3

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 reheat kit, required to install a multi-combination, refer to the option list.

Twin : KHRQ22M20TA or KHRQ58T
Triple : KHRQ12/14 or KHRQ28T
Double twin : KHRQ22M20TA or KHRQ58T

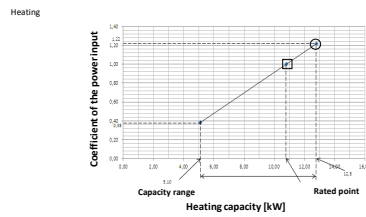
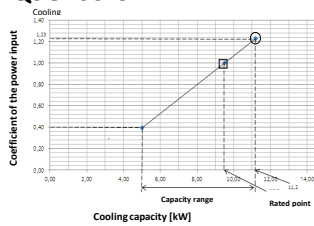
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Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZQSG100L8Y1

RZQSG100L9V1



Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor
- = Maximum at standard conditions
 - = Rated capacity and rated coefficient of the power input
- The maximum capacity is not guaranteed except at standard conditions.
- SHC = SHC for other dry-bulb temperatures = SHC + SHC*
 - SHC* = SHC correction for other dry-bulb temperatures = $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$
- 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: 0 m
 - 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 below.
- The rated power input for each model is mentioned in the table below.

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	
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC
°C WB	°C DB	KW	-	KW	-	KW	-	KW
16.0	22	11.2	7.61	10.1	7.44	1.11	10.5	7.29
18.0	25	11.8	7.59	10.1	7.49	1.12	11.0	7.27
19.0	27	12.0	7.57	10.2	7.44	1.12	11.2	7.26
19.5	27	12.1	7.59	10.2	7.37	1.13	11.4	7.34
22.0	30	12.8	7.52	10.2	7.36	1.13	11.9	7.16
24.0	32	13.3	7.42	10.3	7.27	1.14	12.4	7.06

Heating

Indoor	Outdoor temperature [°C WB]							
	-15		-10		0		6	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°C DB	KW	-	KW	-	KW	-	KW	-
16	8.58	0.93	9.45	0.99	10.1	1.02	10.4	1.05
18	8.57	0.97	9.44	1.02	10.0	1.07	10.3	1.10
20	8.56	1.01	9.43	1.07	10.0	1.11	10.3	1.14
21	8.56	1.03	9.42	1.09	10.0	1.13	10.3	1.16
22	8.55	1.04	9.42	1.10	10.0	1.14	10.3	1.18
24	8.54	1.09	9.41	1.15	10.0	1.19	10.3	1.23

Pair	FCAG100H FCQG100F	FCAG100B FCQG100F	FBQ100C	FHQG100C	FAA100B FAQ100C	FVA100A FVQ100C	FHA100A FHQ100C	FBA100A FBQ100C	FUA100A FUQ100C
AFR (BF)	32.3 (0.17)	32.0 (0.17)	32.0 (0.13)	20.0 (0.09)	26.0 (0.10)	28.0 (0.20)	28.0 (0.09)	29.0 (0.03)	31.0 (0.20)

Twin	FCAG50B X 2 FCQG50F X 2	FBQ50C X 2	FHA50A X 2 FHQ50C X 2	FFQ50C X 2	FDX50F X 2	FBA50A X 2 FBQ50D X 2	FNA50A X 2 FNQ50A X 2
AFR (BF)	12.6 x 2 (0.22 x 2)	16 x 2 (0.16 x 2)	15 x 2 (0.18 x 2)	12.7 x 2 (0.16 x 2)	16 x 2 (0.11 x 2)	18 x 2 (0.15 x 2)	16 x 2 (0.11 x 2)

Triple	FCAG35B X 3 FCQG35F X 3	FBQ35C X 3	FHA35A X 3 FHQ35C X 3	FFQ35C X 3	FDX35F X 3	FBA35A X 3 FBQ35D X 3	FNA35A X 3 FNQ35A X 3
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)

Pair	FCAG100H FCQG100F	FCAG100B FCQG100F	FBQ100C	FHQG100C	FAA100B FAQ100C	FVA100A FVQ100C	FHA100A FHQ100C	FBA100A FBQ100C	FUA100A FUQ100C
Cooling	2.57	2.88	2.87	2.96	3.16	2.96	2.96	2.84	2.96
Heating	2.51	3.05	2.96	2.99	3.17	2.99	2.99	2.94	2.99

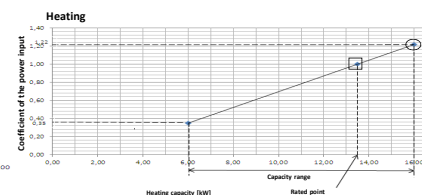
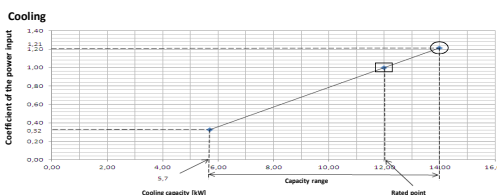
Twin	FCAG50B X 2 FCQG50F X 2	FBQ50C X 2	FHA50A X 2 FHQ50C X 2	FFQ50C X 2	FDX50F X 2	FBA50A X 2 FBQ50D X 2	FNA50A X 2 FNQ50A X 2
Cooling	2.76	2.93	3.35	3.13	3.15	3.10	3.15
Heating	2.61	2.86	3.28	3.34	3.31	3.27	3.31

Triple	FCAG35B X 3 FCQG35F X 3	FBQ35C X 3	FHA35A X 3 FHQ35C X 3	FFQ35C X 3	FDX35F X 3	FBA35A X 3 FBQ35D X 3	FNA35A X 3 FNQ35A X 3
Cooling	2.82	2.93	3.33	2.88	3.71	2.90	3.71
Heating	2.66	2.86	3.26	3.04	4.06	3.24	4.06

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RZQSG125L8Y1

RZQSG125L9V1



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 = SHC for other dry-bulb temperatures = SHC + SHC*
 - SHC* = SHC correction for other dry-bulb temperatures = $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$
- 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: 0 m
 - 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 below.
 - The rated power input for each model is mentioned in the table below.

Cooling

Cooling													
Indoor	Outdoor temperature [°C DB]												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
	°C WB	°C DB	KW	-	KW	-	KW	-	KW	-	KW	-	KW
16.0	22	14.1	9.54	0.98	13.6	9.30	1.09	13.1	9.12	1.19	12.6	8.78	1.28
18.0	25	14.7	9.50	0.98	14.2	9.32	1.09	13.7	9.06	1.20	13.2	8.83	1.31
19.0	27	15.0	9.52	1.00	14.5	9.34	1.10	14.0	9.06	1.20	13.5	8.87	1.33
19.5	27	15.2	9.52	1.00	14.7	9.26	1.11	14.2	9.06	1.20	13.6	8.81	1.31
22.0	30	16.0	9.39	1.00	15.5	9.14	1.11	14.9	8.95	1.21	14.4	8.74	1.32
24.0	32	16.7	9.31	1.01	16.1	9.08	1.12	15.5	8.93	1.22	15.0	8.67	1.33

Indoor	Outdoor temperature [°C WB]							
	-15.0		-10.0		0.0		6.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°C DB	KW	-	KW	-	KW	-	KW	-
16	10.7	0.93	11.8	0.99	12.6	1.02	13.0	1.06
18	10.7	0.97	11.8	1.02	12.6	1.07	12.9	1.10
20	10.7	1.01	11.8	1.07	12.6	1.11	12.9	1.14
21	10.7	1.03	11.8	1.09	12.6	1.13	12.9	1.16
22	10.7	1.04	11.8	1.10	12.6	1.14	12.9	1.18
24	10.7	1.09	11.8	1.15	12.6	1.19	12.9	1.23

Note ⑧

Pair	FCAG125G FCQG125F	FCAG125A FCQG125F	FBQ125C	FHQG125C	FVA125A FVQ125C	FHA125A FHQ125C	FBA125A FBQ125D	FUA125A FUQ125C
AFR (BF)	33.5 (0.19)	33.0 (0.21)	39.0 (0.16)	31.0 (0.134)	31.0 (0.16)	31.0 (0.14)	34.0 (0.06)	32.5 (0.19)

Twin	FCAG60A X 2 FCQG60F X 2	FBQ60C X 2	FHA60A X 2 FHQ60C X 2	FFQ60C X 2	FDX60F X 2	FBA60A X 2 FBQ60D X 2	FNA60A X 2 FNQ60A X 2
AFR (BF)	13.6 x 2 (0.2 x 2)	18 x 2 (0.15 x 2)	14.5 x 2 (0.20 x 2)	14.5 x 2 (0.11 x 2)	16 x 2 (0.12 x 2)	18 x 2 (0.15 x 2)	16 x 2 (0.12 x 2)

Triple	FCAG50A X 3 FCQG50F X 3	FBQ50C X 3	FHA50A X 3 FHQ50C X 3	FFQ50C X 3	FDX50F X 3	FBA50A X 3 FBQ50D X 3	FNA50A X 3 FNQ50A X 3
AFR (BF)	12.5 x 3 (0.22 x 3)	16 x 3 (0.16 x 3)	14 x 3 (0.18 x 3)	10 x 3 (0.25 x 3)	8.7 x 3 (0.11 x 3)	15 x 3 (0.13 x 3)	8.7 x 3 (0.11 x 3)

Double twin	FCAG35A X 4 FCQG35F X 4	FBQ35C X 4	FHA35A X 4 FHQ35C X 4	FFQ35C X 4	FDX35F X 4	FBA35A X 4 FBQ35D X 4	FNA35A X 4 FNQ35A X 4
AFR (BF)	12.5 x 4 (0.4 x 4)	16 x 4 (0.15 x 4)	14 x 4 (0.17 x 4)	10 x 4 (0.25 x 4)	8.7 x 4 (0.17 x 4)	15 x 4 (0.08 x 4)	8.7 x 4 (0.17 x 4)

Note ⑨

Pair	FCAG125G FCQG125F	FCAG125A FCQG125F	FBQ125C	FHQG125C	FVA125A FVQ125C	FHA125A FHQ125C	FBA125A FBQ125D	FUA125A FUQ125C
Cooling	3.71	3.74	3.74	4.15	4.27	4.15	3.72	4.53
Heating	3.60	3.96	3.85	3.73	3.96	3.73	3.72	3.96

Twin	FCAG60A X 2 FCQG60F X 2	FBQ60C X 2	FHA60A X 2 FHQ60C X 2	FFQ60C X 2	FDX60F X 2	FBA60A X 2 FBQ60D X 2	FNA60A X 2 FNQ60A X 2
Cooling	3.66	3.95	4.34	4.75	4.88	4.34	4.88
Heating	3.88	4.06	4.43	4.33	4.38	4.14	4.38

Triple	FCAG50A X 3 FCQG50F X 3	FBQ50C X 3	FHA50A X 3 FHQ50C X 3	FFQ50C X 3	FDX50F X 3	FBA50A X 3 FBQ50D X 3	FNA50A X 3 FNQ50A X 3
Cooling	3.69	3.95	4.33	4.14	4.07	4.06	4.07
Heating	3.90	4.06	4.42	3.87	3.92	4.09	3.92

Double twin	FCAG35A X 4 FCQG35F X 4	FBQ35C X 4	FHA35A X 4 FHQ35C X 4	FFQ35C X 4	FDX35F X 4	FBA35A X 4 FBQ35D X 4	FNA35A X 4 FNQ35A X 4
Cooling	3.75	3.95	4.31	3.99	4.67	3.95	4.67
Heating	3.96	4.06	4.32	3.59	4.66	4.03	4.66

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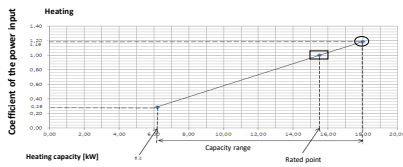
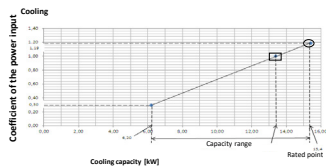
6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZQSG140L9V1

RZQSG140L7Y1

6



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
 R: Power input [kW]
 compressor + indoor and outdoor fan motors

- 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 × AFR (m³/min) × (t - 18) × (DB - EDB)
 The capacities are based on the following conditions:
 Outdoor air: 95% 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: 0 m
 - 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.
 - The rated power input for each model is mentioned in the table below.

Cooling		Outdoor temperature [°C DB]											
		25			30			35			40		
Indoor	TC SHC CPI	TC SHC CPI		TC SHC CPI		TC SHC CPI		TC SHC CPI		TC SHC CPI		TC SHC CPI	
		TC SHC CPI	TC SHC CPI	TC SHC CPI	TC SHC CPI	TC SHC CPI	TC SHC CPI	TC SHC CPI	TC SHC CPI	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	10.03	1.18	13.90	9.69	1.28
18.0	25	16.2	10.55	0.98	15.6	10.21	1.09	15.1	10.01	1.19	14.50	9.71	1.30
19.5	27	16.6	10.43	0.99	16.0	10.18	1.09	15.4	9.98	1.19	14.80	9.76	1.30
22.0	30	17.6	10.49	0.99	16.1	10.16	1.10	15.6	10.00	1.19	15.00	9.66	1.31
24.0	32	18.4	10.30	1.00	17.7	10.00	1.11	17.0	9.67	1.22	16.40	9.47	1.32

Heating		Outdoor temperature [°C WB]											
		-15			-10			-5			0		
Indoor	TC SHC CPI	TC SHC CPI		TC SHC CPI		TC SHC CPI		TC SHC CPI		TC SHC CPI		TC SHC CPI	
		TC SHC CPI	TC SHC CPI	TC SHC CPI	TC SHC CPI	TC SHC CPI	TC SHC CPI	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	18.0	1.09	18.4	1.16	
18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	18.0	1.14	18.4	1.21	
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	18.0	1.19	18.4	1.25	
21	11.5	1.00	12.7	1.06	13.5	1.11	13.9	1.13	18.0	1.21	18.4	1.28	
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.24	18.4	1.30	
24	11.5	1.07	12.6	1.13	13.5	1.17	13.9	1.20	18.0	1.29	18.4	1.35	

Pair	FCAG140H FCQG140F	FCAG140B FCQG140F	FBQ140C	FHQ140C	FVA140A FVQ140C	FHA140A FHQ140CB	FBA140A FBQ140D
AFR	33.5 (0.15)	33.0 (0.23)	39-C/41-H (0.14)	34.0 (0.17)	30.0 (0.18)	34.0 (0.17)	34.0 (0.17)

Pair	FCAG140H FCQG140F	FCAG140B FCQG140F	FBQ140C	FHQ140C	FVA140A FVQ140C	FHA140A FHQ140CB	FBA140A 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	FCAG71H X 2 FCQG71F X 2	FCAG71B X 2 FCQG71F X 2	FBQ71C X 2	FHQ71C X 2	FAA71B X 2 FAQ71C X 2	FHA71A9 X 2 FHQ71CB X 2	FBA71A9 X 2 FBQ71D X 2	FUA71A X 2 FUQ71C X 2
AFR	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 (0.16 x 2)	20.5 x 2 (0.13 x 2)	18 x 2 (0.13 x 2)	23.0 x 2 (0.24 x 2)

Twin	FCAG71H X 2 FCQG71F X 2	FCAG71B X 2 FCQG71F X 2	FBQ71C X 2	FHQ71C X 2	FAA71B X 2 FAQ71C X 2	FHA71A9 X 2 FHQ71CB X 2	FBA71A9 X 2 FBQ71D X 2	FUA71A X 2 FUQ71C X 2
Cooling	4.11	4.39	4.17	4.01	4.23	4.01	4.17	4.39
Heating	4.23	4.48	4.94	4.71	4.92	4.71	4.94	4.94

Triple	FCAG50B X 3 FCQG50F X 3	FBQ50C X 3	FHA50A9 X 3 FHQ50CB X 3	FFA50A9 X 3 FFQ50C X 3	FDX50F9 X 3 FDX50F9 X 3	FBA50A9 X 3 FBQ50D X 3	FNA50A9 X 3 FNO50A X 3
AFR	12.6 x 3 (0.22 x 3)	16 x 3 (0.16 x 3)	15 x 3 (0.18 x 3)	12.7 x 3 (0.16 x 3)	16 x 3 (0.11 x 3)	15 x 3 (0.13 x 3)	16 x 3 (0.11 x 3)

Triple	FCAG50B X 3 FCQG50F X 3	FBQ50C X 3	FHA50A9 X 3 FHQ50CB X 3	FFA50A9 X 3 FFQ50C X 3	FDX50F9 X 3 FDX50F9 X 3	FBA50A9 X 3 FBQ50D X 3	FNA50A9 X 3 FNO50A 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	FCAG35B X 4 FCQG35F X 4	FBQ35C X 4	FHA35A9 X 4 FHQ35CB X 4	FFA35A9 X 4 FFQ35C X 4	FDX35F9 X 4 FDX35F9 X 4	FBA35A9 X 4 FBQ35D X 4	FNA35A9 X 4 FNO35A X 4
AFR	12.5 x 4 (0.4 x 4)	16 x 4 (0.15 x 4)	14 x 4 (0.20 x 4)	10 x 4 (0.25 x 4)	8.7 x 4 (0.17 x 4)	15 x 4 (0.08 x 4)	8.7 x 4 (0.17 x 4)

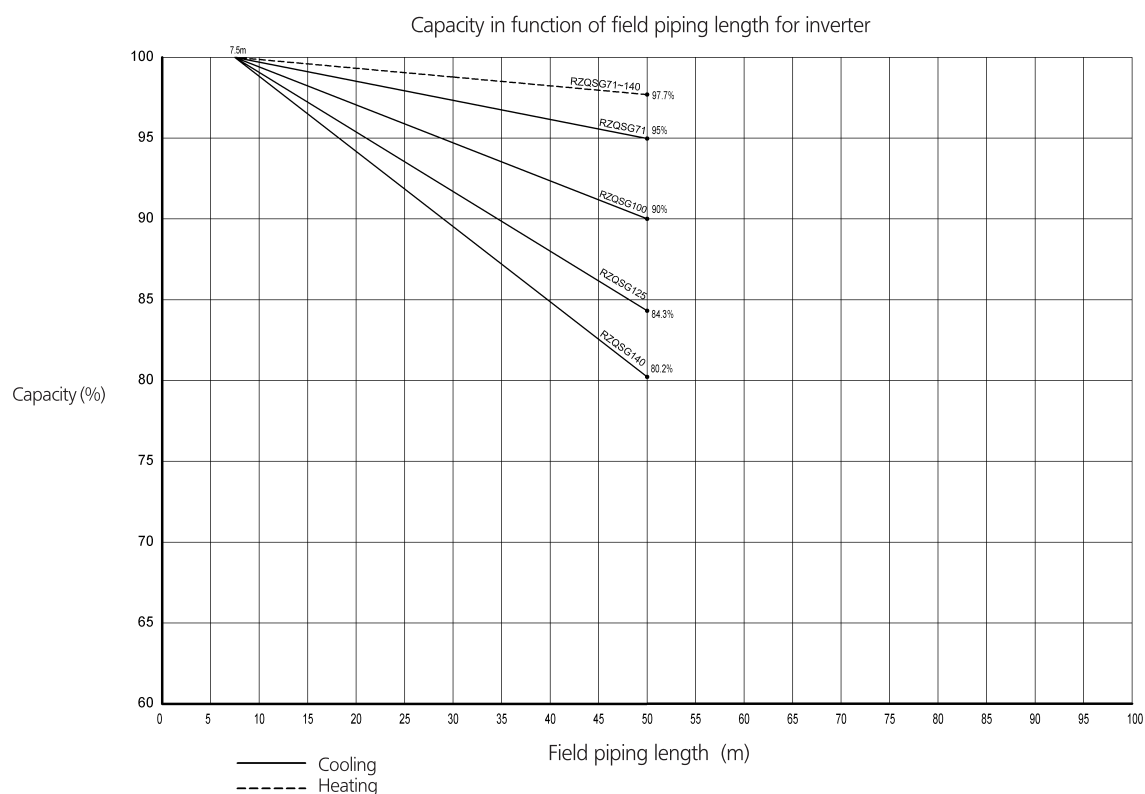
Double twin	FCAG35B X 4 FCQG35F X 4	FBQ35C X 4	FHA35A9 X 4 FHQ35CB X 4	FFA35A9 X 4 FFQ35C X 4	FDX35F9 X 4 FDX35F9 X 4	FBA35A9 X 4 FBQ35D X 4	FNA35A9 X 4 FNO35A X 4
Cooling	4.56	4.17	4.65	4.11	5.80	4.17	5.80
Heating	4.54	4.94	5.57	4.05	6.09	4.94	6.09

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6 Capacity tables

6 - 2 Capacity Correction Factor

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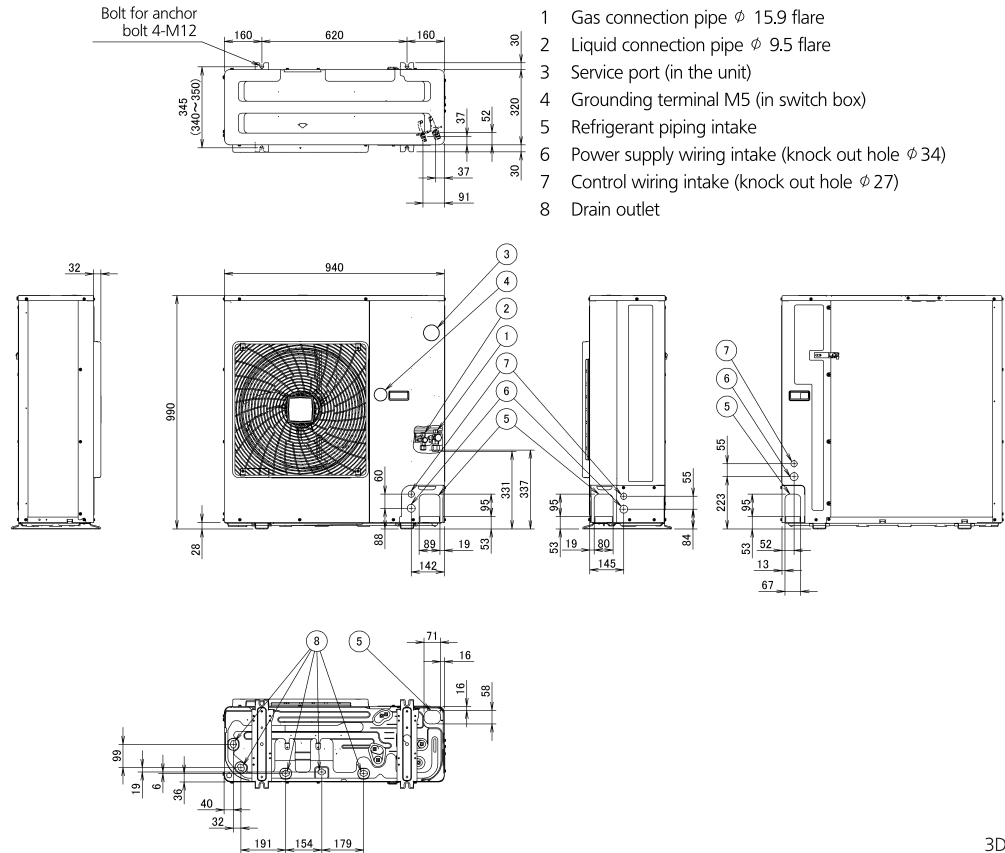


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7 Dimensional drawings

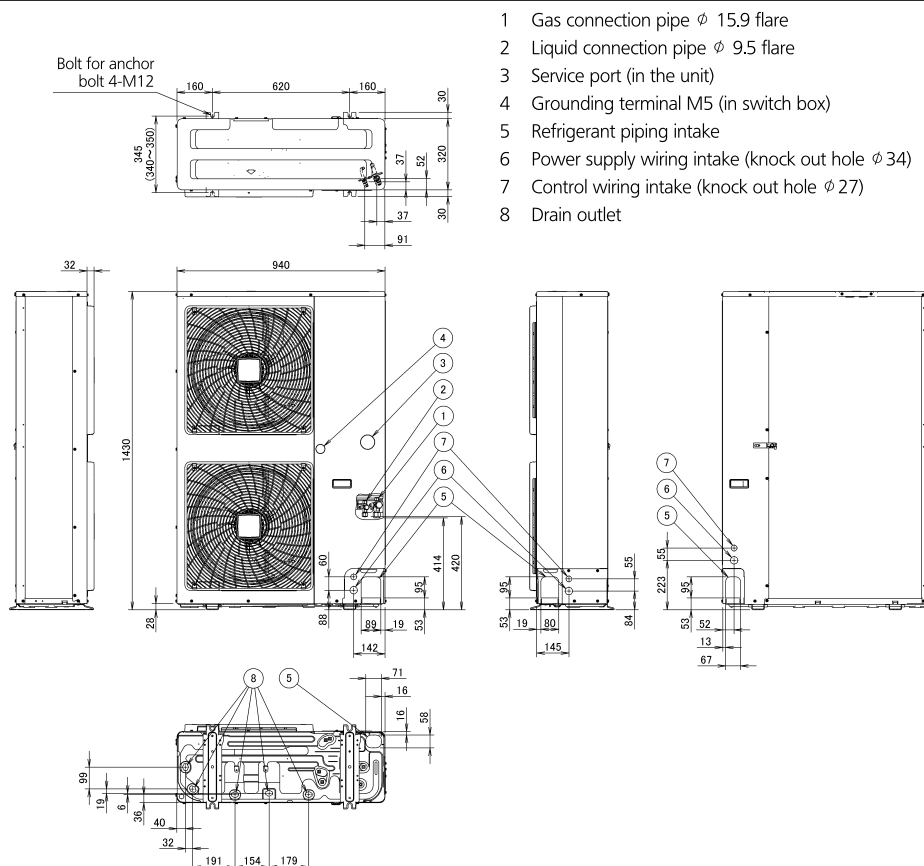
7 - 1 Dimensional Drawings

RZQSG100-125L8Y1



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RZQSG140LY1

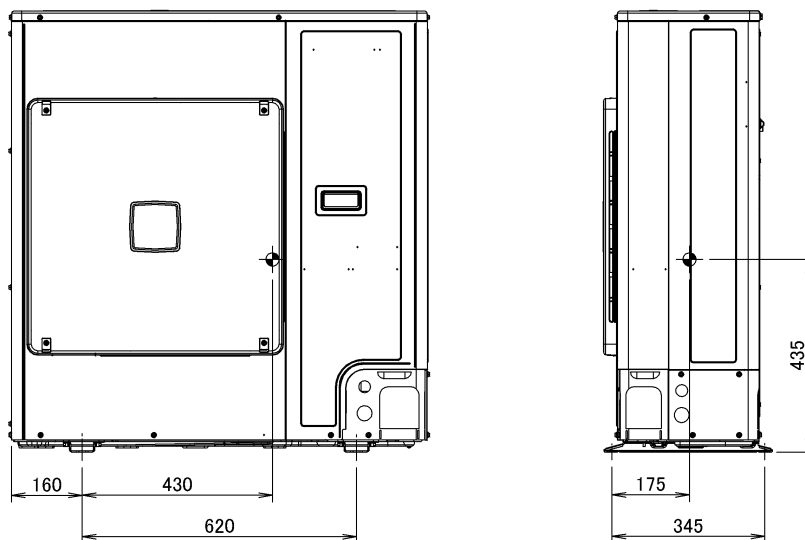


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8 Centre of gravity

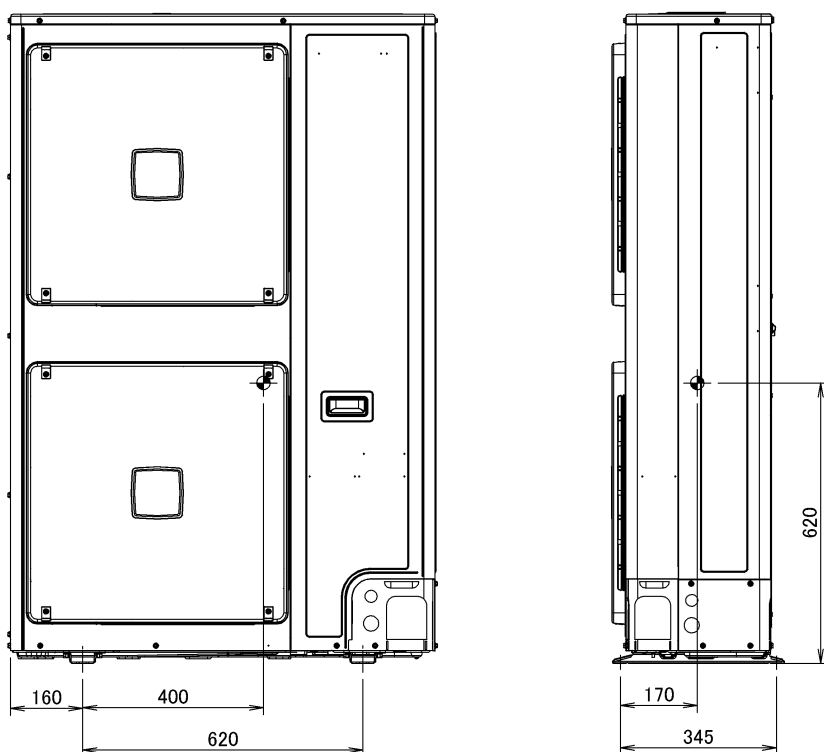
8 - 1 Centre of Gravity

RZQSG100-125L8Y1



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RZQSG140LY1

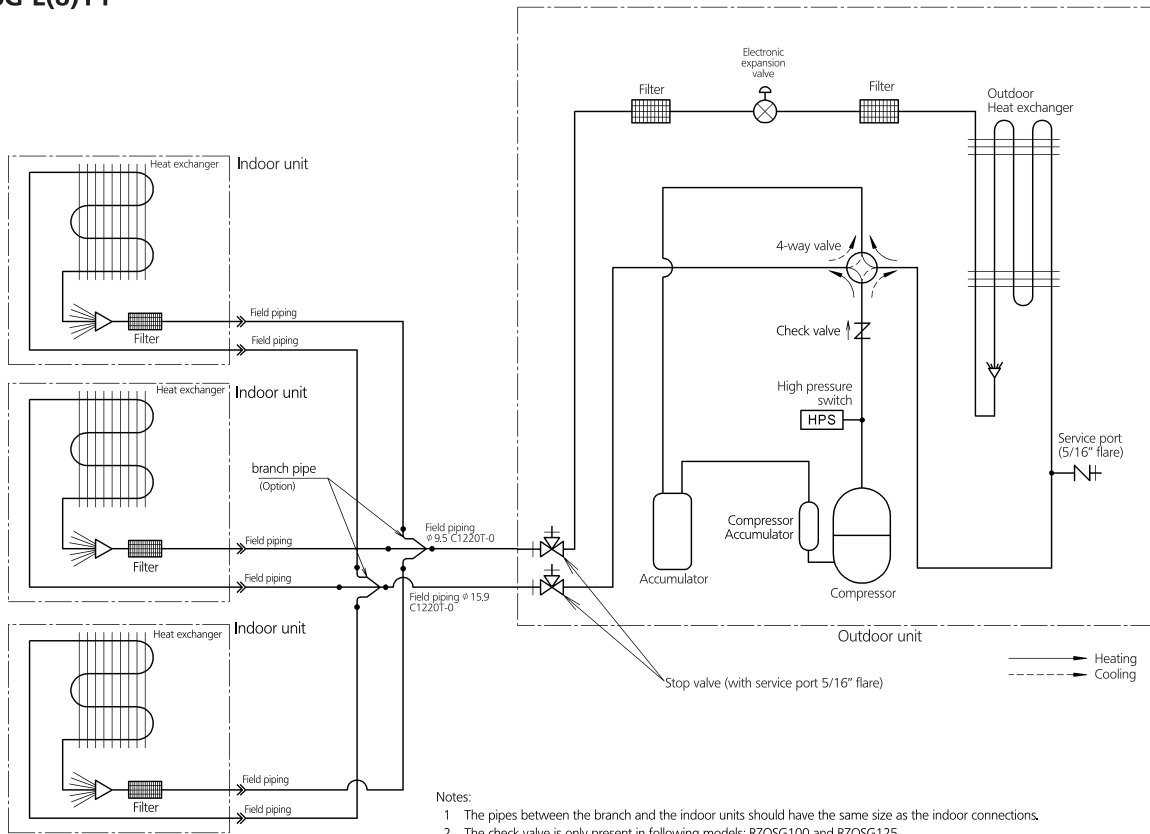


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9 Piping diagrams

9 - 1 Piping Diagram Triple Application

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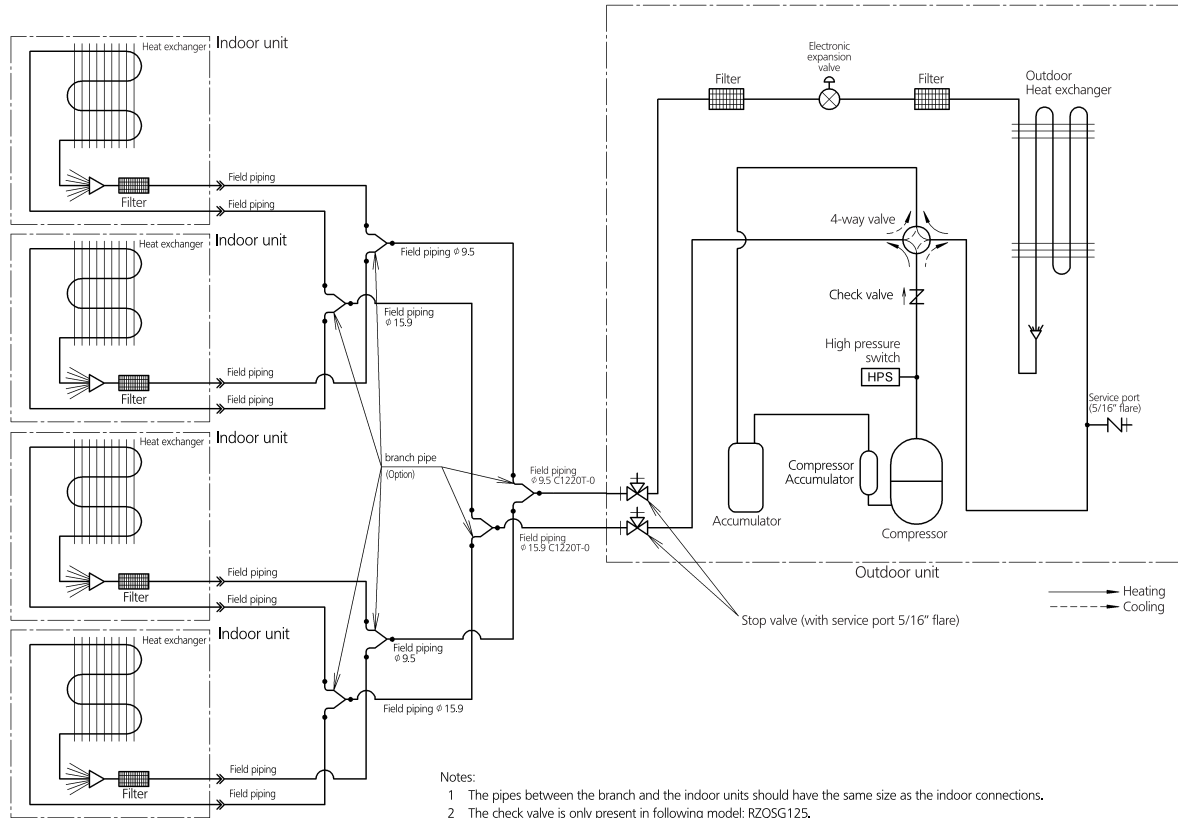


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9 Piping diagrams

9 - 2 Piping Diagram Double Twin Application

RZQSG125-140L(8)Y1



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10 Wiring diagrams

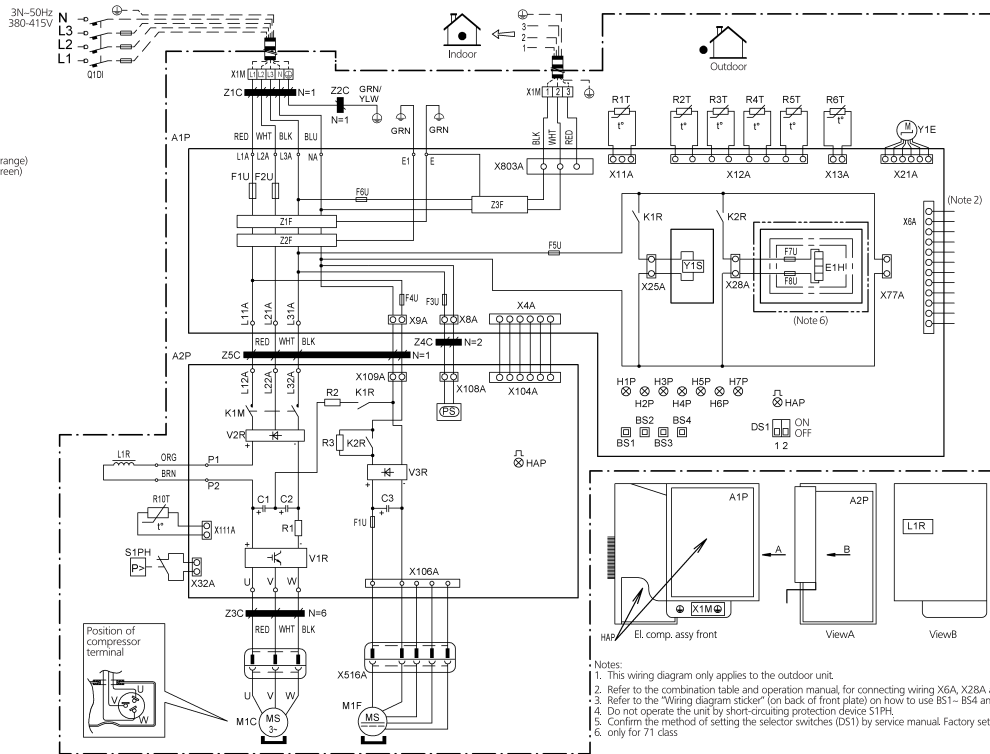
10 - 1 Wiring Diagrams - Three Phase

10

RZQSG100-125L8Y1

- A1P : Printed circuit board
A2P : Printed circuit board (Inverter)
BS1-BS2 : Push button switch
C1-C3 : Capacitor
DS1 : Dip switch
E1H : Bottomplate heater
F1U : Fuse (31.5A / 250V)
F2U : Fuse (31.5A / 250V)
F3U-F6U : Fuse (T 6.3A / 250V)
F7U-F8U : Fuse (T 1.0A / 250V)
F9U : Fuse (T 5.0A / 250V)
H1P-H7P : Light emitting diode (service monitor orange)
HAP(A1P/A2P) : Light emitting diode (service monitor green)
K1M : Magnetic contactor
K1R(A1P) : Magnetic relay (Y1S)
K1R(A2P) : Magnetic relay
K2R(A1P) : Magnetic relay (E1H Option)
K2R(A2P) : Magnetic relay
L1R : Reactor
M1C : Motor (compressor)
M1F : Motor (fan) (upper)
M2F : Motor (fan) (lower)
PS : Switching power supply
Q1DI : Earth leakage breaker (30mA)
R1-R3 : Resistor
R1T : Thermistor (air)
R2T : Thermistor (discharge)
R3T : Thermistor (Suction)
R4T : Thermistor (Heat exchanger)
R5T : Thermistor (heat exchanger middle)
R6T : Thermistor (liquid)
R10T : Thermistor (fin)
S1PH : Pressure switch (High)
V1R : KGBT Power module
V2R, V3R : Diode module
X6A : Connector (Option)
X1M : Terminal strip
Y1E : Electronic expansion valve
Y1S : Solenoid valve (4 way valve)
Z1C-Z5C : Noise filter (fermite core)
Z1F-Z3F : Noise filter

- L: Live
N: Neutral
Field wiring
Protective earth (screw)
Noiseless earth
Terminal
Connection
Terminal strip
Connector
Relay connector
Option
BLK: Black
BLU: Blue
BRN: Brown
GRN: Green
ORG: Orange
RED: Red
WHT: White
YLW: Yellow



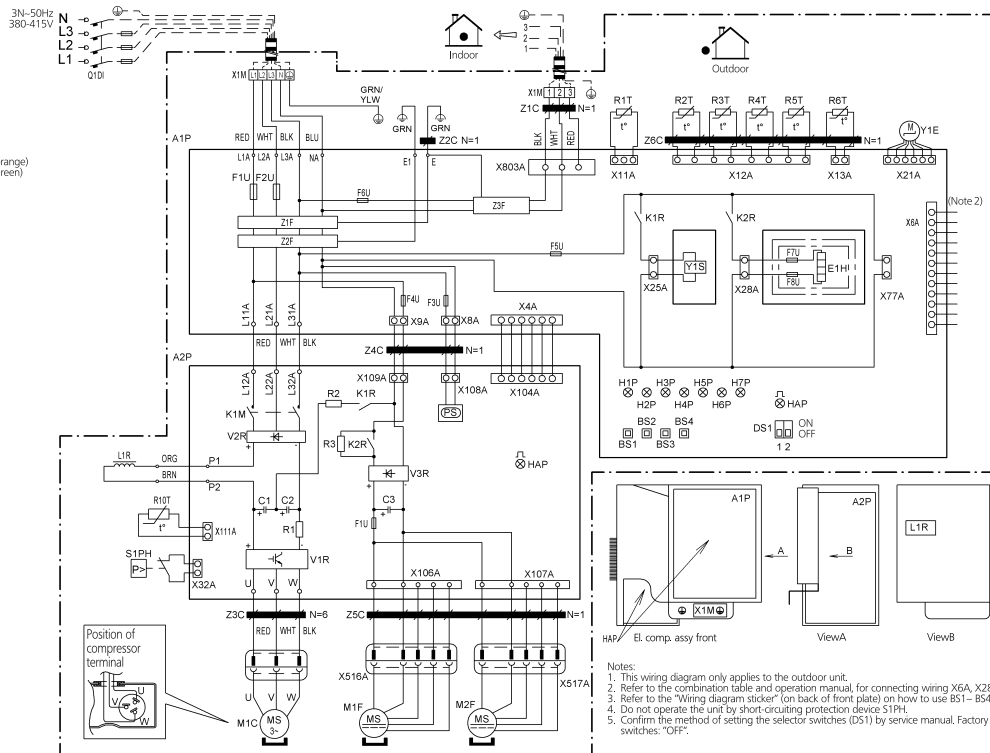
- Notes:
1. This wiring diagram only applies to the outdoor unit.
2. Refer to the combination table and operation manual for connecting wiring X6A, X28A and X77A.
3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
4. Do not operate the unit by short-circuiting protection device S1PH.
5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".
6. Only for 71 class.

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RZQSG140LY1

- A1P : Printed circuit board
A2P : Printed circuit board (Inverter)
BS1-BS2 : Push button switch
C1-C3 : Capacitor
DS1 : Dip switch
E1H : Bottomplate heater
F1U : Fuse (31.5A / 250V)
F2U : Fuse (31.5A / 250V)
F3U-F6U : Fuse (T 6.3A / 250V)
F7U-F8U : Fuse (T 1.0A / 250V)
F9U : Fuse (T 5.0A / 250V)
H1P-H7P : Light emitting diode (service monitor orange)
HAP(A1P/A2P) : Light emitting diode (service monitor green)
K1M : Magnetic contactor
K1R(A1P) : Magnetic relay (Y1S)
K1R(A2P) : Magnetic relay
K2R(A1P) : Magnetic relay (E1H Option)
K2R(A2P) : Magnetic relay
L1R : Reactor
M1C : Motor (compressor)
M1F : Motor (fan) (upper)
M2F : Motor (fan) (lower)
PS : Switching power supply
Q1DI : Earth leakage breaker (30mA)
R1-R3 : Resistor
R1T : Thermistor (air)
R2T : Thermistor (discharge)
R3T : Thermistor (Suction)
R4T : Thermistor (Heat exchanger)
R5T : Thermistor (heat exchanger middle)
R6T : Thermistor (liquid)
R10T : Thermistor (fin)
S1PH : Pressure switch (High)
V1R : KGBT Power module
V2R, V3R : Diode module
X6A : Connector (Option)
X1M : Terminal strip
Y1E : Electronic expansion valve
Y1S : Solenoid valve (4 way valve)
Z1C-Z6C : Noise filter (fermite core)
Z1F-Z3F : Noise filter

- L: Live
N: Neutral
Field wiring
Protective earth (screw)
Noiseless earth
Terminal
Connection
Terminal strip
Connector
Relay connector
Option
BLK: Black
BLU: Blue
BRN: Brown
GRN: Green
ORG: Orange
RED: Red
WHT: White
YLW: Yellow



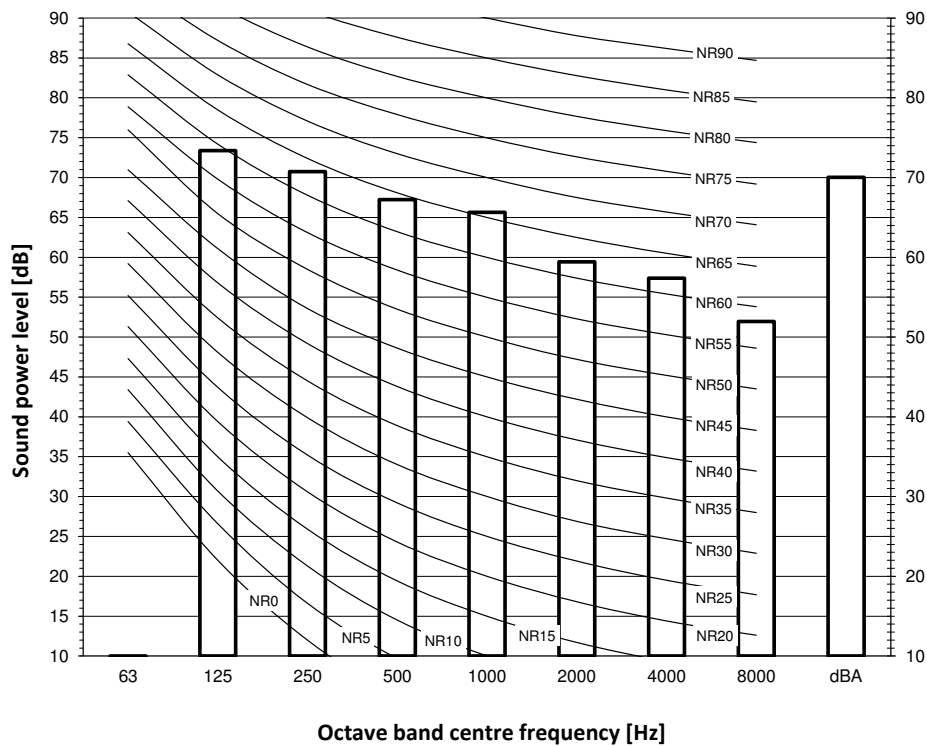
- Notes:
1. This wiring diagram only applies to the outdoor unit.
2. Refer to the combination table and operation manual for connecting wiring X6A, X28A and X77A.
3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
4. Do not operate the unit by short-circuiting protection device S1PH.
5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".
6. Only for 71 class.

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11 Sound data

11 - 1 Sound Power Spectrum

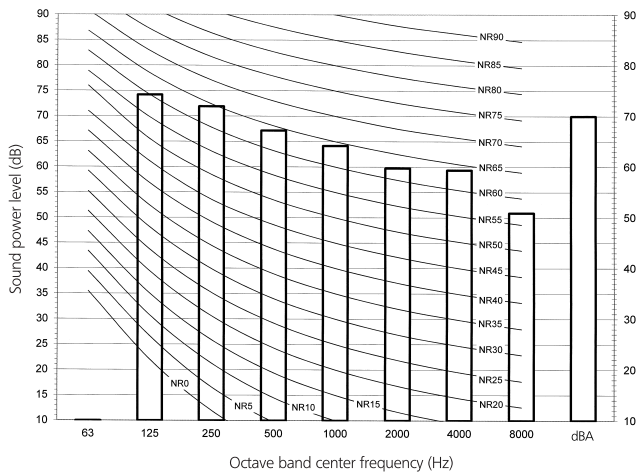
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Notes
 dBA = A-weighted sound power level (A scale according to IEC).
 Reference acoustic intensity 0dB = $10^{-6} \mu W/m^2$.
 Measured according to ISO 3744

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RZQSG125L8Y1



NOTES

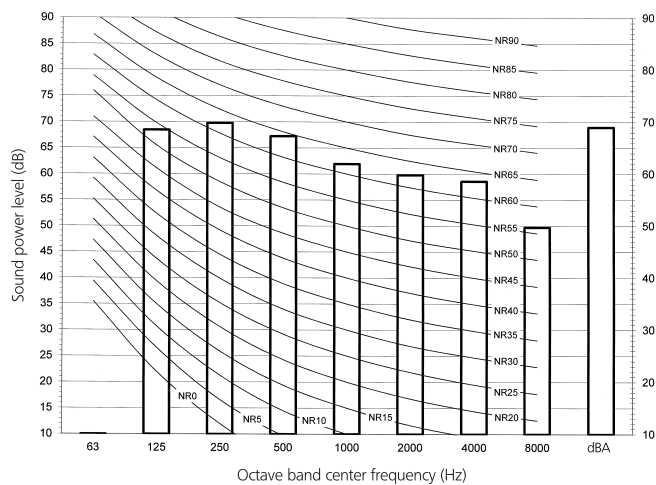
- 1 dBA = A-weighted sound power level (A-scale according to IEC)
- 2 Reference acoustic intensity 0 dB = $10^{-6} \mu W/m^2$
- 3 Measured according to ISO 3744

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11 Sound data

11 - 1 Sound Power Spectrum

RZQSG140LY1



NOTES

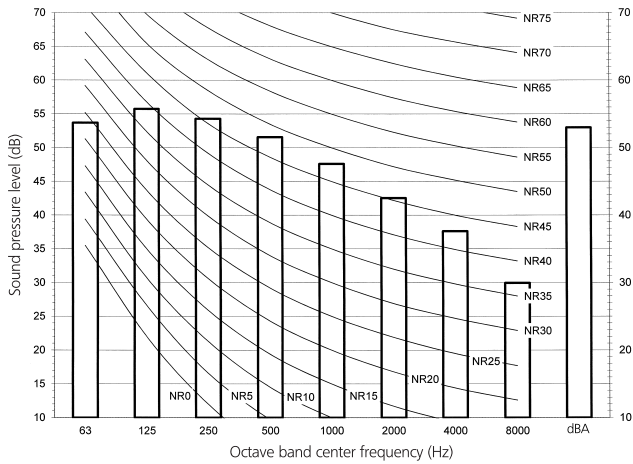
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- 2 Reference acoustic intensity 0 dB = $10E-6\mu W/m^2$
- 3 Measured according to ISO 3744

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11 Sound data

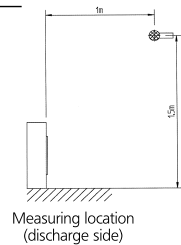
11 - 2 Sound Pressure Spectrum - Cooling

RZQSG100L8Y1



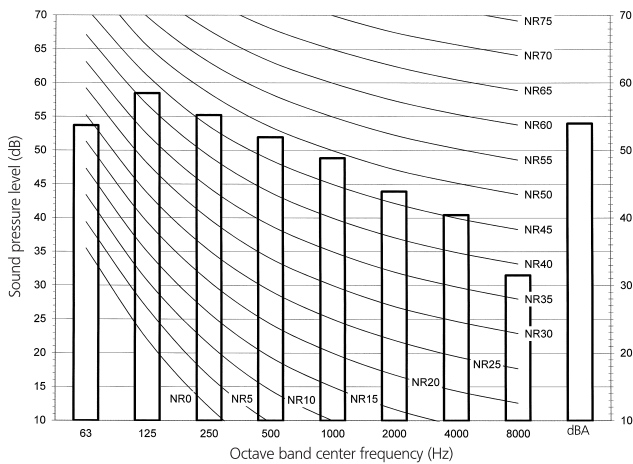
NOTES

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



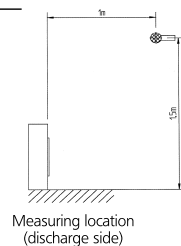
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RZQSG125L8Y1



NOTES

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



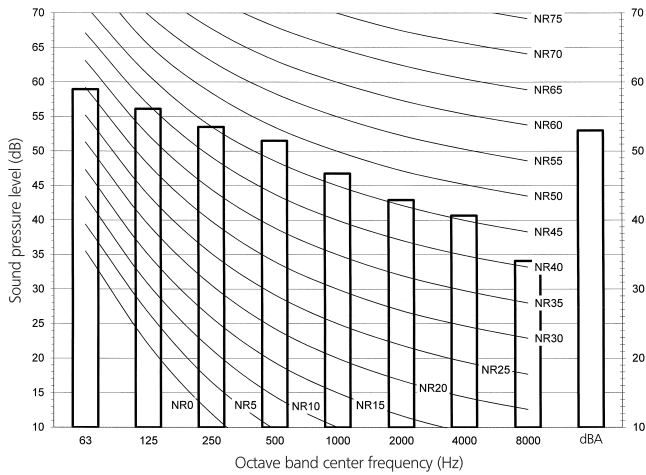
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11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

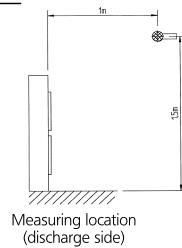
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RZQSG140LY1



NOTES

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

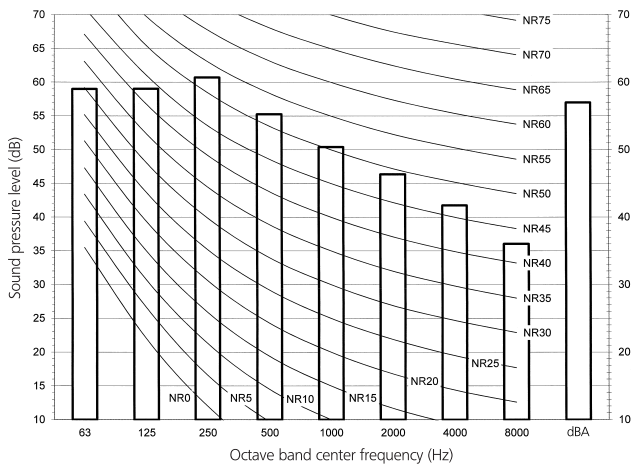


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11 Sound data

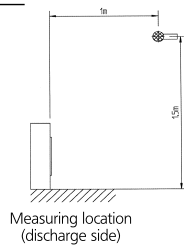
11 - 3 Sound Pressure Spectrum - Heating

RZQSG100L8Y1



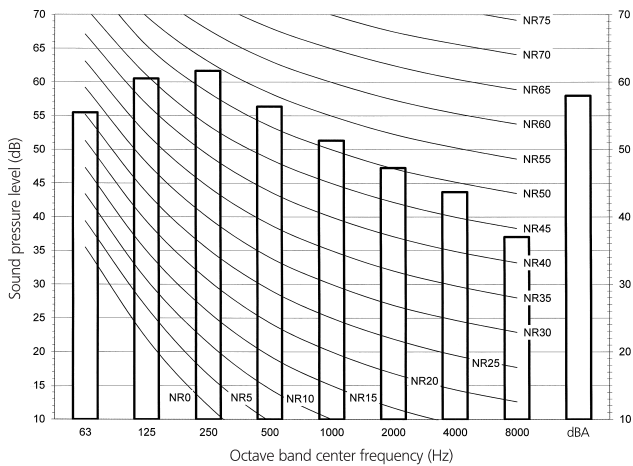
NOTES

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



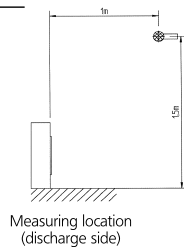
3D077804

RZQSG125L8Y1



NOTES

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



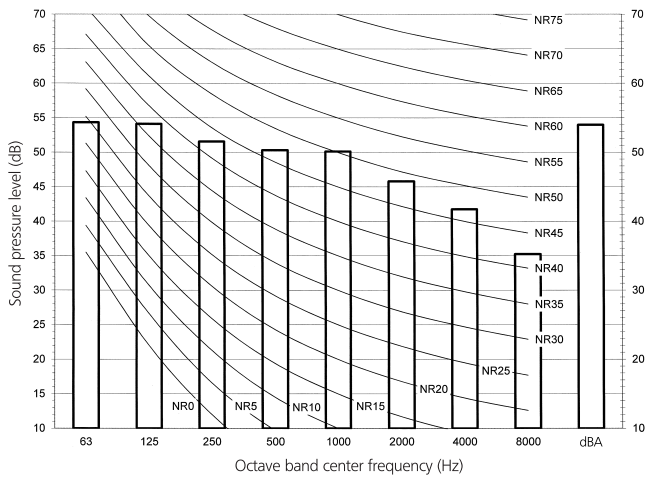
3D077805

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

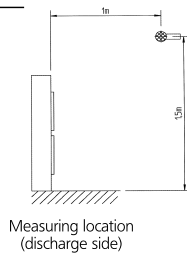
11

RZQSG140LY1



NOTES

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

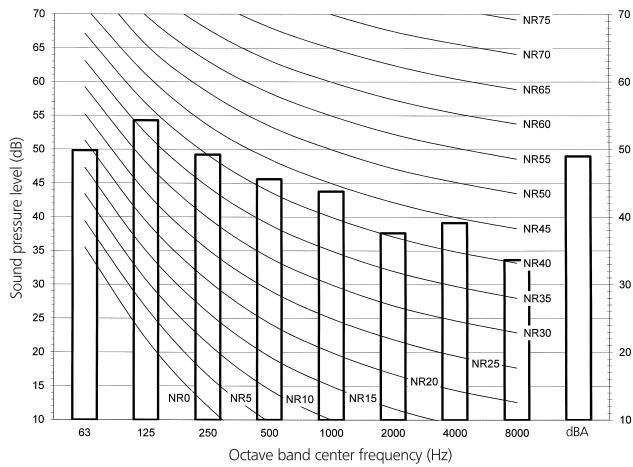


3D077806

11 Sound data

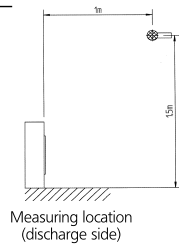
11 - 4 Sound Pressure Spectrum Quiet Mode

RZQSG100L8Y1



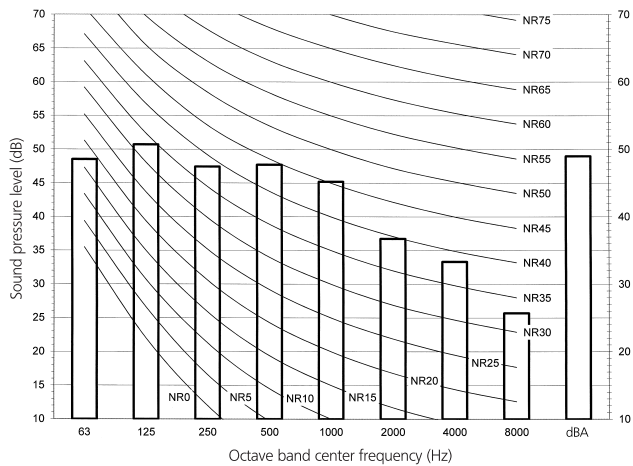
NOTES

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



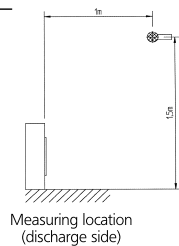
3D077790

RZQSG125L8Y1



NOTES

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



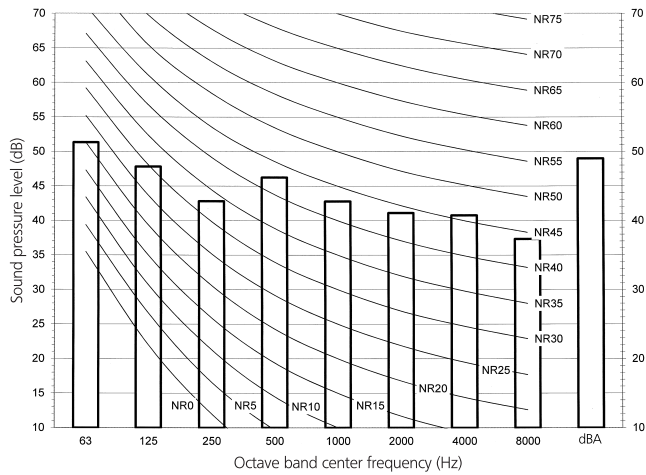
3D077791

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

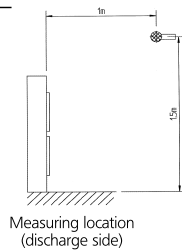
11

RZQSG140LY1



NOTES

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



3D077792

12 Installation

12 - 1 Installation Method

RZQSG-L(8)Y1

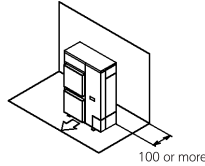
Installation service space

The measure of these values is "mm".

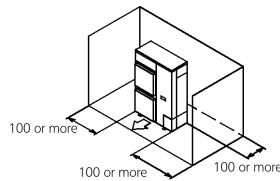
(A) When there are obstacles on suction sides.

• No obstacle above

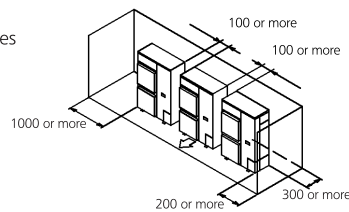
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

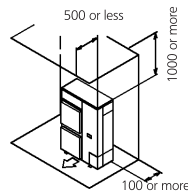


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

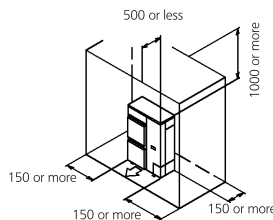


• Obstacle above, too.

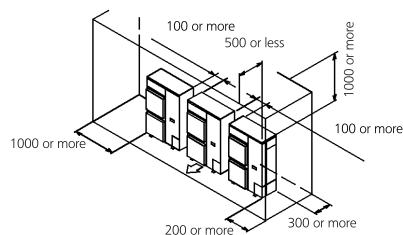
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



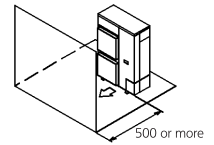
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



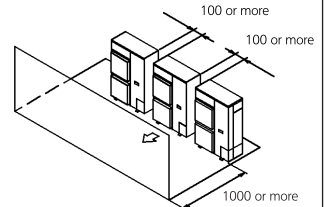
(B) When there are obstacles on discharge sides.

• No obstacle above

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

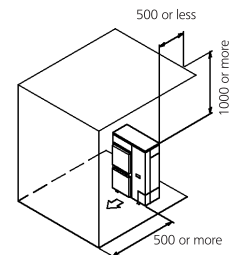


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

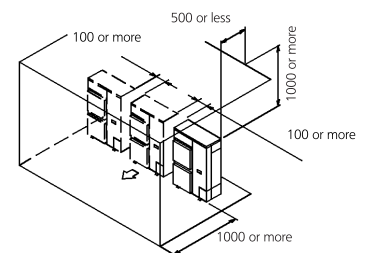


• Obstacle above, too

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



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



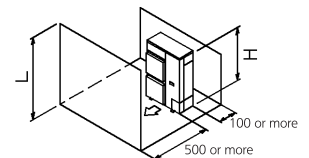
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

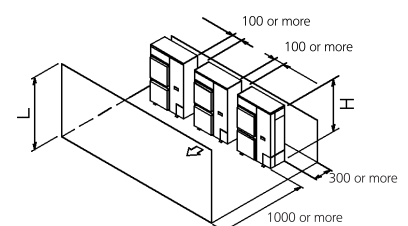
When the obstacles on the discharge side is higher than the unit. ($L > H$)
(There is no limit for the height of obstructions on the suction side.)

• 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

12

RZQSG-L(8)Y1

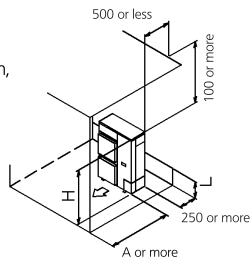
● Obstacle above, too

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

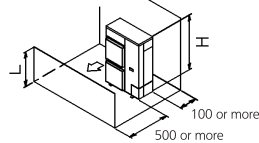
When the obstacle on the discharge side is lower than the unit ($L \leq H$)

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

● No obstacle above

① Stand-alone installation

- No obstacle above

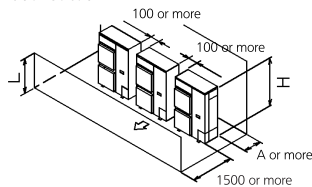


② Series installation (2 or more) (Note 1)

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



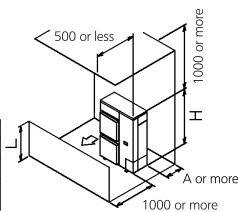
● Obstacle above, too

① Stand-alone installation (Note 2)

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

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

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



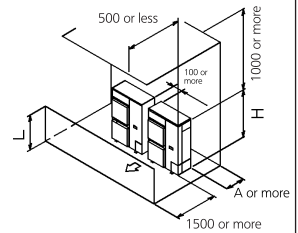
② Series installation (2 or more) (Note 1, 2)

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

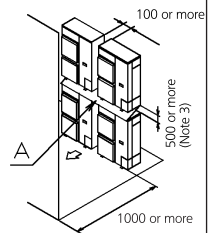
Limit of series installation is 2 units.



(D) Double-decker installation

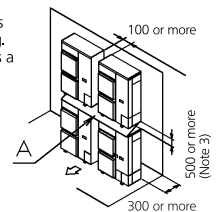
① Obstacle on the discharge side. (Note 1)

- 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.



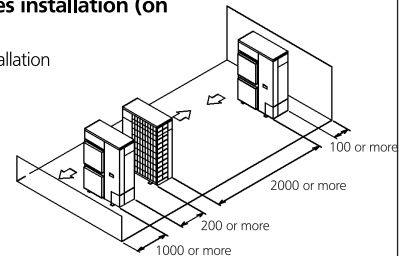
② Obstacle on the suction side. (Note 1)

- 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.)

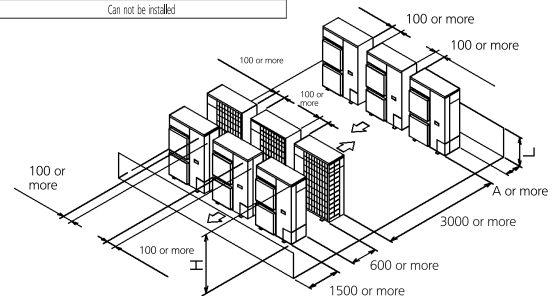
① One row of stand-alone installation



② Rows of series installation (2 or more)

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

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



NOTES

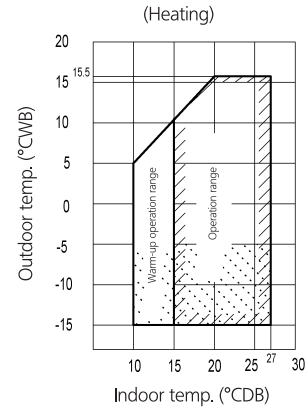
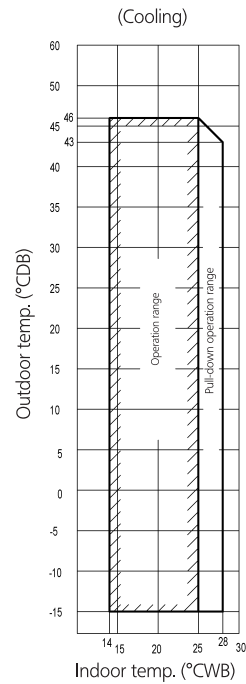
- In case of the sideways piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between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

3D069554

13 Operation range

13 - 1 Operation Range

RZQSG-L(8)Y1



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

14 Appropriate Indoors

14 - 1 Appropriate Indoors

RZQSG140LY1
RZQSG140L9V1

14

Recommended indoor units for ·RZQ(S)G*L*· outdoor units

Class	140
	FCAHG140
	FCAG140
	FBA140
	FHA140
	FVA140
	4XFCAG35
	4XFBA35

For details about the allowed combinations, see the engineering databook.

Appropriate indoor units for ·RZQ(S)G*L*· outdoor units

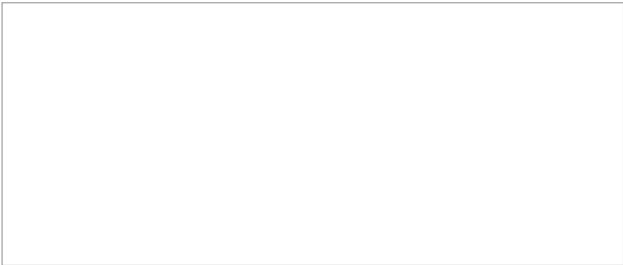
Covered by ·ENER LOT21·

FCAHG140
FCAG140
FBA140
FHA140
FVA140

Covered by ·ENER LOT10·

FCAHG71
FCAG35-50-71
FFA35-50
FBA35-50-71
FHA35-50-71
FUA71
FAA71
FDXM35-50
FNA35-50

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12/2021



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