



Pair, Twin, Triple, double
twin

Air Conditioning
Technical Data

RZQSG-L3/9V1



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RZQSG-L3/9V1

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1 Features

1 - 1 RZQSG-L3/9V1

Technology and comfort combined for commercial applications

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- › 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-L3/9V1

Technical Specifications					RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	
Casing	Colour Material				Ivory white				
Dimensions	Unit	Height	mm		770	990		1,430	
		Width	mm		900	940			
		Depth	mm			320			
	Packed unit	Height	mm		900	1,170		1,610	
		Width	mm		980	1,015			
		Depth	mm		420	422			
Weight	Unit	kg		67	72.0	74.0	95.0		
	Packed unit	kg		71	81.0	83.0	104.0		
Heat exchanger	Fin	Type Treatment			WF fin				
Fan					Anti-corrosion treatment (PE)				
	Type				Propeller fan				
	Discharge direction				Horizontal				
	Quantity				1		2		
	Air flow rate	Cooling	Nom.	m³/min	52	76	77	83	
			Rated	m³/h	-	4,560	4,620	4,980	
			Moderate	m³/min	-	55		-	
		Heating	Nom.	m³/min	48	83		62	
			Rated	m³/h	-	4,980		3,720	
Moderate			m³/min	-	55		-		
Fan motor	Quantity				1		2		
	Model				KFD-325-70-8A	Brushless DC motor			
	Output				W	70	200	94	
	Drive				Direct drive				
Compressor	Quantity				1				
	Starting method				Inverter driven	-			
	Type				Hermetically sealed swing compressor				
Operation range	Cooling	Ambient	Min.	°CDB	-15.0				
			Max.	°CDB	46	46.0			
	Heating	Ambient	Min.	°CWB	-15	-15.0			
			Max.	°CWB		15.5			
Sound power level	Cooling				dBA	65	70.0	69.0	
	Heating				dBA	-	70.0	69.0	
Sound pressure level	Cooling	Nom.			dBA	49	53	54	53
		Silent operation		dBA	47	-			
Sound pressure level	Heating	Nom.			dBA	51	57	58	54
	Night quiet mode	Level 1			dBA	-	49		
Refrigerant	Type				R-410A				
	Charge				kg	2.75	2.9	4.0	
	Charge				TCO2Eq	5.7	6.05	8.35	
	Control				Expansion valve (electronic type)				
	GWP				2,087.5				
	Circuits		Quantity		1				
Refrigerant oil	Type				FVC50K	Synthetic (ether) oil FVC50K			
	Charged volume				l	0.75	0.90	1.35	
Piping connections	Liquid	Quantity			1				
		Type			Flare connection				
		OD			mm 9.52				
	Gas	Quantity			1				
		Type			Flare connection				
		OD			mm 15.9				
	Drain	Quantity			3	5			
		Type			Hole				
		OD			mm 26				
	Piping length	OU - IU	Min.	m	5				
			Max.	m	50				
		System	Equivalent	m	70				
			Chargeless	m	30				
	Additional refrigerant charge				kg/m	See installation manual			
	Level dif-	IU - OU	Max.	m	15	30.0			
	ference	IU - IU			m	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 motor thermal protection	Low pressure switch		
	03				Fuse	Fan driver overload protector			
	04				-	Fuse			

Standard accessories: Tie-wraps; Quantity: 2;

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Standard accessories: Installation manual; Quantity: 1;

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Electrical Specifications			RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1
Power supply	Name		V1			
	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-240			
Current	Zmax	List	-	Complies to EN61000-3-11		
	Minimum Ssc value		kVa	-	Equipment complying with EN / IEC 61000-3-12/ See note 1 / See note 2	
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	40	
Current	Recommended fuses		A	25	-	
Power supply	Voltage range		%	10	-	
			%	-10	-	

EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current larger than 16A and ≤ 75A per phase. |

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

Ssc: Short-circuit power |

Short-circuit power |

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 |

Contains fluorinated greenhouse gases |

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			FCAHG71H + RZQSG71L3V1	FCAHG100H + RZQSG100L9V1	FCAHG125H + RZQSG125L9V1	FCAHG140H + RZQSG140L9V1
Cooling capacity	Nom.	kW	6.80	9.50	12.00	13.40
	Nom.	Btu/h	23,200	32,400	40,900	45,700
	Nom.	kcal/h	5,847	8,169	10,318	11,522
Heating capacity	Nom.	kW	7.50	10.80	13.50	15.50
	Nom.	Btu/h	25,600	36,900	46,100	52,900
	Nom.	kcal/h	6,449	9,286	11,608	13,328
Power input	Cooling	Nom. kW	1.94	2.57	3.85	4.31
	Heating	Nom. kW	1.83	2.51	3.60	4.29
Nominal efficiency	EER		3.50	3.70	3.12	3.11
	COP		4.10	4.30	3.75	3.61
	Annual energy consumption	kWh	971	1,284	1,923	-
	Energy labeling Directive		A		B	-
Space cooling	Energy efficiency class		A++		A	-
	Capacity	Pdesign kW	6.80	9.50	12.00	13.40
	SEER		6.50	6.70	5.40	6.61
	ηs,c	%	-			261.56
	Annual energy consumption	kWh/a	367	497	778	1,215
Space heating (Average climate)	Energy efficiency class		A+			-
	Capacity	Pdesign kW	7.60	8.03		11.78
	SCOP/A		4.15	4.30	4.10	4.29
	SCOPnet/A		4.18	4.32	4.11	4.29
	ηs,h	%	-			168.61
	Pdh Heating capacity at -10°	kW	6.45	7.36	7.37	0.00
	Annual energy consumption	kWh/a	2,563	2,615	2,742	3,843
	Required back up heating cap at design conditions	kW	1.15	0.67	0.66	11.78
	A Condi- tion (35°C - 27/19)	Pdc EERd	6.80 3.50	9.50 3.70	12.00 3.12	13.40 3.11
	B Condi- tion (30°C - 27/19)	Pdc EERd	5.01 4.99	7.00 5.00	8.84 3.38	9.88 4.97
Space cooling	C Condi- tion (25°C - 27/19)	Pdc EERd	3.71 8.31	4.69 8.29	5.69 6.80	6.35 8.19
	D Condi- tion (20°C - 27/19)	Pdc EERd	3.90 11.60	4.12 11.12	4.04 9.88	6.02 10.91
	- 27/19) Power input	kW	0.34	0.37	0.41	0.55
	- 27/19) Power input	kW	1.94	2.57	3.85	4.31
	- 27/19) Power input	kW	1.00	1.40	2.62	1.96
	- 27/19) Power input	kW	0.45	0.57	0.84	0.77
	- 27/19) Power input	kW	0.04	0.05	0.06	0.07
	- 27/19) Power input	kW	0.04	0.05	0.06	0.07
	- 27/19) Power input	kW	0.04	0.05	0.06	0.07
	- 27/19) Power input	kW	0.04	0.05	0.06	0.07

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Technical specifications				FCAHG71H + RZQSG71L3V1	FCAHG100H + RZQSG100L9V1	FCAHG125H + RZQSG125L9V1	FCAHG140H + RZQSG140L9V1
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-15			-10
		Pdh (declared heating cap)	kW	6.01	7.79	7.82	11.78
		COPd (declared COP)		2.15	2.30	2.38	2.12
		Power input	kW	2.80	3.39	3.29	5.56
	TBivalent	Tbiv (bivalent temperature)	°C	-7			-10
		Pdh (declared heating cap)	kW	6.72	7.10		11.78
		COPd (declared COP)		2.56	3.29	3.12	2.12
		Power input	kW	2.63	2.16	2.28	5.56
	A Con- dition (-7°C)	Pdh (declared heating cap)	kW	6.72	7.10		10.42
		COPd (declared COP)		2.56	3.29	3.12	2.57
		Power input	kW	2.63	2.16	2.28	4.05
	B Condi- tion (2°C)	Pdh (declared heating cap)	kW	4.58	5.06	5.08	6.34
		COPd (declared COP)		4.02	4.03	3.89	4.36
		Power input	kW	1.14	1.26	1.31	1.45
	C Condi- tion (7°C)	Pdh (declared heating cap)	kW	2.89	3.05	3.06	4.21
		COPd (declared COP)		6.09	5.84	5.56	5.52
		Power input	kW	0.47	0.52	0.55	0.76
	D Con- dition (12°C)	Pdh (declared heating cap)	kW	3.29	3.48	3.49	4.88
		COPd (declared COP)		7.15	6.94	6.62	6.93
		Power input	kW	0.46	0.50	0.53	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 capacity	kW	-			0.00
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				FCAG71B + RZQSG71L3V1	FCAG100B + RZQSG100L9V1	FCAG125B + RZQSG125L9V1	FCAG140B + RZQSG140L9V1
Cooling capacity	Nom.		kW	6.80	9.50	12.00	13.40
	Nom.		Btu/h	23,200	32,400	40,900	45,700
	Nom.		kcal/h	5,847	8,169	10,318	11,522
Heating capacity	Nom.		kW	7.50	10.80	13.50	15.50
	Nom.		Btu/h	25,600	36,900	46,100	52,900
	Nom.		kcal/h	6,449	9,286	11,608	13,328
Power input	Cooling	Nom.	kW	2.12	2.88	4.12	5.58
	Heating	Nom.	kW	2.08	3.05	3.96	4.55
Nominal efficiency	EER			3.21	3.30	2.91	2.40
	COP			3.61	3.54	3.41	
	Annual energy consumption			1,059	1,439	2,062	-
	Energy labeling Directive	Cooling		A		C	-
		Heating		A	B		-
Space cooling	Energy efficiency class			A++		A	-
	Capacity	Pdesign	kW	6.80	9.50	12.00	13.40
	SEER			6.10	6.50	5.30	6.18
	ηs,c			%		-	244.40
	Annual energy consumption			391	512	793	1,300

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Technical specifications				FCAG71B + RZQSG71L3V1	FCAG100B + RZQSG100L9V1	FCAG125B + RZQSG125L9V1	FCAG140B + RZQSG140L9V1
Space heating (Average climate)	Energy efficiency class			A+			-
	Capacity	Pdesign	kW	6.33	7.60	8.03	11.56
	SCOP/A			4.10			4.18
	SCOPnet/A			4.11			4.18
	ηs,h		%	-			164.22
	Pdh Heating capacity at -10°		kW	5.75	7.07	7.30	0.00
	Annual energy consumption		kWh/a	2,162	2,596	2,804	3,872
	Required back up heating cap at design conditions		kW	0.58	0.53	0.73	11.56
	A Condi- tion (35°C - 27/19)	Pdc EERd Power input	kW	6.80 3.21 2.12	9.50 3.30 2.88	12.00 2.91 4.12	13.40 2.40 5.58
	B Condi- tion (30°C - 27/19)	Pdc EERd Power input	kW	5.01 3.94 1.27	7.00 4.58 1.53	8.84 3.14 2.82	9.87 4.71 2.07
Space cooling	C Condi- tion (25°C - 27/19)	Pdc EERd Power input	kW	3.51 8.43 0.42	4.56 8.30 0.55	5.69 6.91 0.82	6.35 7.88 0.80
	D Condi- tion (20°C - 27/19)	Pdc EERd Power input	kW	3.63 11.57 0.31	3.99 10.19 0.34	3.98 10.76 0.39	5.71 10.76 0.53
	TOL	Tol (temperature operating limit)	°C	-15			-10
	Pdh (declared heating cap)		kW	6.00	7.66	7.64	11.56
	COPd (declared COP)			1.85	2.07	2.09	1.91
	Power input		kW	3.24	3.70	3.66	6.05
	TBivalent	Tbiv (bivalent temperature)	°C	-7			-10
	Pdh (declared heating cap)		kW	5.60	6.72	7.10	11.56
	COPd (declared COP)			2.25	3.21	2.94	1.91
	Power input		kW	2.49	2.09	2.41	6.05
Space heating (Average climate)	A Con- dition (-7°C)	Pdh (declared heating cap) COPd (declared COP) Power input	kW	5.60 2.25 2.49	6.72 3.21 2.09	7.10 2.94 2.41	10.23 2.33 4.39
	B Condi- tion (2°C)	Pdh (declared heating cap) COPd (declared COP) Power input	kW	4.06 4.18 0.97	5.07 3.75 1.35	6.22 3.69 1.37	6.22 4.24 1.47
	C Condi- tion (7°C)	Pdh (declared heating cap) COPd (declared COP) Power input	kW	2.89 6.40 0.45	3.06 5.98 0.51	3.07 5.89 0.52	4.08 5.67 0.72
	D Con- dition (12°C)	Pdh (declared heating cap) COPd (declared COP) Power input	kW	3.28 7.36 0.45	3.49 7.04 0.50	3.50 6.94 0.67	4.73 7.03 0.67
	Power consump- tion in other than active mode	Crank- case heater mode	Cooling PCK Heating PCK	kW	0.000 0.000		
	Off mode	Cooling POFF Heating POFF	kW	0.007 0.007			0.012 0.012
	Standby mode	Cooling PSB Heating PSB	kW	0.007 0.007			0.012 0.012
	Thermo- stat-off mode	Cooling PTO Heating PTO	kW	0.007 0.007			0.012 0.012
	Indication if the heater is equipped with a supplementary heater (pair application)			-			No
	Supplementary heater (pair appli- cation)	Back-up capacity	Heating elbu kW	-			0.00
Power consump- tion in other than active mode	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

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Technical specifications			FBA71A9 + RZQSG71L3V1	FBA100A + RZQSG100L9V1	FBA125A + RZQSG125L9V1	FBA140A + RZQSG140L9V1
Cooling capacity	Nom.	kW	6.80	9.50	12.00	13.40
	Nom.	Btu/h	23,200	32,400	40,900	45,700
	Nom.	kcal/h	5,847	8,169	10,318	11,522
Heating capacity	Nom.	kW	7.50	10.80	13.50	15.50
	Nom.	Btu/h	25,600	36,900	46,100	52,900
	Nom.	kcal/h	6,449	9,286	11,608	13,328
Power input	Cooling	Nom. kW	1.98	2.84	3.72	5.88
	Heating	Nom. kW	1.91	2.94	3.72	4.56
Nominal efficiency	EER		3.43	3.35	3.23	2.28
	COP		3.92	3.67	3.63	3.40
	Annual energy consumption	kWh	991	1,418	1,858	-
	Energy labeling	Cooling	A			-
	Directive	Heating	A			-
Space cooling	Energy efficiency class		A+		A	-
	Capacity	Pdesign kW	6.80	9.50	12.00	13.40
	SEER		5.84	5.61	5.47	5.23
	ηs,c	%	-			206.28
	Annual energy consumption	kWh/a	408	593	768	1,537
Space heating (Average climate)	Energy efficiency class		A+			-
	Capacity	Pdesign kW	6.00	7.60		11.57
	SCOP/A		4.01	4.15	4.01	3.81
	SCOPnet/A		4.05	4.19	4.05	3.81
	ηs,h	%	-			149.30
	Pdh Heating capacity at -10°	kW	4.75	5.77	5.79	0.00
	Annual energy consumption	kWh/a	2,095	2,564	2,653	4,255
	Required back up heating cap at design conditions	kW	1.25	1.83	1.81	11.57
Space cooling	A Condi- tion (35°C - 27/19)	Pdc EERd Power input kW	6.80 3.43 1.98	9.50 3.35 2.84	12.00 3.23 3.72	13.40 2.28 5.88
	B Condi- tion (30°C - 27/19)	Pdc EERd Power input kW	5.01 4.59 1.09	7.00 4.81 1.46	8.84 3.68 2.40	9.88 4.02 2.43
	C Condi- tion (25°C - 27/19)	Pdc EERd Power input kW	3.63 7.85 0.46	4.50 7.07 0.64	5.68 7.42 0.77	6.35 6.56 0.96
	D Condi- tion (20°C - 27/19)	Pdc kW	3.76	3.94	3.95	5.95
	D Condi- tion (20°C - 27/19)	EERd Power input kW	10.20 0.37	9.03 0.44	9.50 0.42	8.56 0.69
	TOL	Tol (temperature operating limit) °C	-15			-10
		Pdh (declared heating cap) kW	3.81	4.18	4.23	11.57
		COPd (declared COP)	1.76	2.10	2.22	2.15
		Power input kW	2.16	1.99	1.91	5.38
	TBivalent	Tbiv (bivalent temperature) °C	-7			-10
		Pdh (declared heating cap) kW	5.31	6.72		11.57
		COPd (declared COP)	2.23	3.01	2.85	2.15
Space heating (Average climate)		Power input kW	2.38	2.23	2.36	5.38
	A Con- dition (-7°C)	Pdh (declared heating cap) kW	5.31	6.72		10.24
		COPd (declared COP)	2.23	3.01	2.85	2.54
		Power input kW	2.38	2.23	2.36	4.03
	B Condi- tion (2°C)	Pdh (declared heating cap) kW	3.23	4.09		6.23
		COPd (declared COP)	4.04	4.29	4.28	3.77
		Power input kW	0.80	0.95	0.96	1.65
	C Condi- tion (7°C)	Pdh (declared heating cap) kW	2.83	2.82	2.85	4.11
		COPd (declared COP)	5.96	4.71	4.39	4.84
		Power input kW	0.47	0.60	0.65	0.85
	D Con- dition (12°C)	Pdh (declared heating cap) kW	3.27	2.93	2.94	4.79
		COPd (declared COP)	7.15	6.01	5.52	5.73
		Power input kW	0.46	0.49	0.53	0.84

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Technical specifications					FBA71A9 + RZQSG71L3V1	FBA100A + RZQSG100L9V1	FBA125A + RZQSG125L9V1	FBA140A + RZQSG140L9V1
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	0.015		0.022	0.014
		Heating	POFF	kW	0.015		0.022	0.014
	Standby mode	Cooling	PSB	kW	0.015		0.022	0.014
		Heating	PSB	kW	0.015		0.022	0.014
	Thermo-stat-off mode	Cooling	PTO	kW	0.003		0.004	0.014
		Heating	PTO	kW	0.003		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		-		0.00
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 + RZQSG125L9V1	
Cooling capacity	Nom.		kW	12.00		
	Nom.		Btu/h	40,900		
	Nom.		kcal/h	10,318		
Heating capacity	Nom.		kW	13.50		
	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		
	Directive					
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			3.92		
	PdH Heating capacity at -10°			kW	7.02	
	Annual energy consumption			kWh/a	2,729	
	Required back up heating cap at design conditions			kW	0.58	
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		
				3.41		
		Power input	kW	2.59		
	C Condi- tion (25°C - 27/19)	Pdc EERd	kW	5.69		
				6.59		
		Power input	kW	0.86		
				4.04		
	D Condi- tion (20°C - 27/19)	Pdc EERd	kW	8.52		
			0.47			

2 Specifications

1 - 1 RZQSG-L3/9V1

Technical specifications				FDA125A + RZQSG125L9V1
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-15
		Pdh (declared heating cap)	kW	7.51
		COPd (declared COP)		2.21
	TBivalent	Power input	kW	3.40
		Tbiv (bivalent temperature)	°C	-7
		Pdh (declared heating cap)	kW	6.72
	A Con- dition (-7°C)	COPd (declared COP)		2.89
		Power input	kW	2.33
		Pdh (declared heating cap)	kW	6.72
	B Condi- tion (2°C)	COPd (declared COP)		2.89
		Power input	kW	2.33
		Pdh (declared heating cap)	kW	4.85
	C Condi- tion (7°C)	COPd (declared COP)		3.86
		Power input	kW	1.26
		Pdh (declared heating cap)	kW	3.02
Power consump- tion in other than active mode	D Con- dition (12°C)	COPd (declared COP)		5.12
		Power input	kW	0.59
		Pdh (declared heating cap)	kW	3.42
	Crank- case heater mode	COPd (declared COP)		6.00
		Power input	kW	0.57
		Cooling PCK	kW	0.000
	Off mode	Heating PCK	kW	0.000
		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
		Cdc (Degradation cooling)		0.25
	Cooling	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.	70
		Sound power level indoor	Nom.	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				FHA71A9 + RZQSG71L3V1	FHA100A + RZQSG100L9V1	FHA125A + RZQSG125L9V1	FHA140A + RZQSG140L9V1	
Cooling capacity	Nom.		kW	6.80	9.50	12.00	13.40	
	Nom.		Btu/h	23,200	32,400	40,900	45,700	
	Nom.		kcal/h	5,847	8,169	10,318	11,522	
Heating capacity	Nom.		kW	7.50	10.80	13.50	15.50	
	Nom.		Btu/h	25,600	36,900	46,100	52,900	
	Nom.		kcal/h	6,449	9,286	11,608	13,328	
Power input	Cooling	Nom.	kW	1.97	2.96	4.15	5.10	
	Heating	Nom.	kW	1.88	2.99	3.73	4.55	
Nominal efficiency	EER			3.46	3.21	2.89	2.63	
	COP			4.00	3.61	3.62	3.41	
	Annual energy consumption			kWh	983	1,480	2,076	-
	Energy labeling	Cooling		A			C	-
		Heating		A				-
Space cooling	Directive							-
	Energy efficiency class			A+				-
	Capacity	Pdesign	kW	6.80	9.50	12.00		13.40
	SEER			5.61				
	ηs,c			%	-			221.35
Annual energy consumption			kWh/a	425	593	749	1,434	

2 Specifications

1 - 1 RZQSG-L3/9V1

2

Technical specifications					FHA71A9 + RZQSG71L3V1	FHA100A + RZQSG100L9V1	FHA125A + RZQSG125L9V1	FHA140A + RZQSG140L9V1	
Space heating (Average climate)	Energy efficiency class				A		A+	-	
	Capacity	Pdesign	kW		7.60			11.61	
	SCOP/A				3.90	3.91	4.01	3.72	
	SCOPnet/A				3.97	3.92	4.02	3.72	
	ηs,h	%		-			145.63		
	Pd _h Heating capacity at -10°				6.47	7.12	7.14	0.00	
	Annual energy consumption				2,727	2,722	2,654	4,376	
Required back up heating cap at design conditions				1.13	0.48	0.46	11.61		
Space cooling	A Condi- tion (35°C - 27/19)	Pdc EERd	kW		6.80 3.46	9.50 3.21	12.00 2.89	13.40 2.63	
	B Condi- tion (30°C - 27/19)	Power input Pdc	kW		1.97 5.01	2.96 7.00	4.15 8.84	5.10 9.88	
	C Condi- tion (25°C - 27/19)	Power input EERd	kW		0.96 3.64	1.56 4.60	2.57 5.69	2.19 6.35	
	D Condi- tion (20°C - 27/19)	Power input Pdc	kW		0.55 3.81	0.70 4.04	0.77 3.99	0.97 5.99	
	D Condi- tion (20°C - 27/19)				8.89	8.86	10.58	9.55	
	Power input				0.43	0.46	0.38	0.63	
	Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C		-15		-10
		Pd _h (declared heating cap)				6.06	7.79	7.84	11.61
		COP _d (declared COP)				1.91	2.11	2.19	2.05
		Power input				3.17	3.69	3.58	5.66
TBivalent		Tbiv (bivalent temperature)		°C		-7		-10	
Pd _h (declared heating cap)				6.72		11.61			
COP _d (declared COP)				2.45	3.22	3.00	2.05		
Power input				2.74	2.09	2.24	5.66		
A Con- dition (-7°C)		Pd _h (declared heating cap)		kW		6.72		10.27	
COP _d (declared COP)				2.45	3.22	3.00	2.44		
Space heating (Average climate)	Power input				2.74	2.09	2.24	4.21	
	B Condi- tion (2°C)	Pd _h (declared heating cap)		kW		4.61	5.16	5.18	6.25
	COP _d (declared COP)				3.85	3.64	3.90	3.70	
	Power input				1.20	1.42	1.33	1.69	
	C Condi- tion (7°C)	Pd _h (declared heating cap)		kW		2.92	3.10		4.15
	COP _d (declared COP)				5.83	5.42	5.51	4.69	
	Power input				0.50	0.57	0.56	0.88	
	D Con- dition (12°C)	Pd _h (declared heating cap)		kW		3.32	3.53		4.82
	COP _d (declared COP)				6.71	6.38	6.49	5.71	
	Power input				0.49	0.55	0.54	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	0.056	0.007		0.012	
		Heating	PTO	kW	0.056	0.007		0.012	
	Indication if the heater is equipped with a supplementary heater (pair application)					-			No
	Supplementary heater (pair appli- cation)					-			0.00
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-L3/9V1

Technical specifications					FHA71A9 + RZQSG71L3V1	FHA100A + RZQSG100L9V1	FHA125A + RZQSG125L9V1	FHA140A + RZQSG140L9V1
Eurovent	Sound power level outdoor	Cooling	Nom.	dB(A)	65	70		-
	Sound power level indoor	Cooling	Nom.	dB(A)	55	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				FUA71A + RZQSG71L3V1	FUA100A + RZQSG100L9V1	FUA125A + RZQSG125L9V1
Cooling capacity	Nom.		kW	6.80	9.50	12.00
	Nom.		Btu/h	23,200	32,400	40,900
	Nom.		kcal/h	5,847	8,169	10,318
Heating capacity	Nom.		kW	7.50	10.80	13.50
	Nom.		Btu/h	25,600	36,900	46,100
	Nom.		kcal/h	6,449	9,286	11,608
Power input	Cooling	Nom.	kW	2.12	2.96	4.53
	Heating	Nom.	kW	2.08	2.99	3.96
Nominal efficiency	EER				3.21	2.65
	COP				3.61	3.41
	Annual energy consumption		kWh	1,059	1,480	2,264
	Energy labeling	Cooling			A	D
	Energy labeling	Heating			A	B
Space cooling	Energy efficiency class				A+	A
	Capacity	Pdesign	kW	6.80	9.50	12.00
	SEER			5.81	5.61	5.30
	Annual energy consumption		kWh/a	410	593	793
Space heating (Average climate)	Energy efficiency class			A	A+	A
	Capacity	Pdesign	kW	6.33	7.60	
	SCOP/A			3.90	4.01	3.85
	SCOPnet/A			3.92	4.02	3.86
	Pdh Heating capacity at -10°		kW	5.70	7.04	7.05
	Annual energy consumption		kWh/a	2,273	2,654	2,764
	Required back up heating cap at design conditions		kW	0.63	0.57	0.55
Space cooling	A Condi- tion (35°C	Pdc	kW	6.80	9.50	12.00
	- 27/19)	EERd		3.21		2.65
		Power input	kW	2.12	2.96	4.53
	B Condi- tion (30°C	Pdc	kW	5.01	7.00	8.84
	- 27/19)	EERd		3.86	3.73	3.01
		Power input	kW	1.30	1.88	2.94
	C Condi- tion (25°C	Pdc	kW	3.65	4.59	5.69
	- 27/19)	EERd		7.91	7.23	7.33
		Power input	kW	0.46	0.63	0.78
	D Condi- tion (20°C	Pdc	kW	3.81	4.02	3.96
	- 27/19)	EERd		10.81	9.63	10.43
		Power input	kW	0.35	0.42	0.38

2 Specifications

1 - 1 RZQSG-L3/9V1

2

Technical specifications					FUA71A + RZQSG71L3V1	FUA100A + RZQSG100L9V1	FUA125A + RZQSG125L9V1
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C			-15	
		Pdh (declared heating cap)	kW		5.87	7.56	7.60
		COPd (declared COP)			1.73	1.89	1.88
		Power input	kW		3.39	4.00	4.04
	TBivalent	Tbiv (bivalent temperature)	°C			-7	
		Pdh (declared heating cap)	kW		5.60	6.72	
		COPd (declared COP)			2.45	2.69	2.62
		Power input	kW		2.29	2.50	2.56
	A Con- dition (-7°C)	Pdh (declared heating cap)	kW		5.60	6.72	
		COPd (declared COP)			2.45	2.69	2.62
		Power input	kW		2.29	2.50	2.56
	B Condi- tion (2°C)	Pdh (declared heating cap)	kW		3.46	4.13	4.14
		COPd (declared COP)			3.89	3.82	3.68
		Power input	kW		0.89	1.08	1.13
	C Condi- tion (7°C)	Pdh (declared heating cap)	kW		2.86	3.02	3.03
		COPd (declared COP)			5.41	5.56	5.26
		Power input	kW		0.53	0.54	0.58
	D Con- dition (12°C)	Pdh (declared heating cap)	kW		3.25	3.44	3.46
		COPd (declared COP)			6.31	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.	dBa	65	70	
		Sound power level indoor	Cooling	Nom.	dBa	59	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					FAA71B + RZQSG71L3V1	FAA100B + RZQSG100L9V1
Cooling capacity	Nom.		kW		6.80	9.50
			Btu/h		23,200	32,400
			kcal/h		5,847	8,169
Heating capacity	Nom.		kW		7.50	10.80
			Btu/h		25,600	36,900
			kcal/h		6,449	9,286
Power input	Cooling	Nom.	kW		2.12	3.16
	Heating	Nom.	kW		2.08	3.17
Nominal efficiency	EER				3.21	3.01
	COP				3.61	3.41
	Annual energy consumption		kWh		1,059	1,578
	Energy labeling	Cooling			A	B
	Directive	Heating			A	B
Space cooling	Energy efficiency class				A+	
	Capacity	Pdesign	kW		6.80	9.50
	SEER				6.05	5.61
	Annual energy consumption		kWh/a		394	593

2 Specifications

1 - 1 RZQSG-L3/9V1

Technical specifications					FAA71B + RZQSG71L3V1		FAA100B + RZQSG100L9V1		
Space heating (Average climate)	Energy efficiency class				A		A+		
	Capacity	Pdesign	kW		6.33		6.81		
	SCOP/A				3.90		4.01		
	SCOPnet/A				4.19		4.02		
	Pdh Heating capacity at -10°	kW		5.70		6.44			
	Annual energy consumption				2,123		2,378		
	Required back up heating cap at design conditions				0.63		0.37		
Space cooling	A Condi- tion (35°C - 27/19)	Pdc EERd	kW		6.80		9.50		
					3.21		3.01		
	- 27/19)	Power input	kW		2.12		3.16		
	B Condi- tion (30°C - 27/19)	Pdc EERd	kW		5.01		7.00		
					4.17		3.44		
	- 27/19)	Power input	kW		1.20		2.03		
	C Condi- tion (25°C - 27/19)	Pdc EERd	kW		3.65		4.50		
					8.20		7.56		
	- 27/19)	Power input	kW		0.45		0.60		
	D Condi- tion (20°C - 27/19)	Pdc EERd	kW		3.81		3.87		
				11.10		10.39			
				0.34		0.37			
Space heating (Average climate)	TOL	Tol (temperature operating limit)			°C		-15		
	Pdh (declared heating cap)				kW		5.87		
	COPd (declared COP)						1.73		
	Power input				kW		3.39		
							3.99		
	TBivalent	Tbiv (bivalent temperature)			°C		-7		
	Pdh (declared heating cap)				kW		5.60		
	COPd (declared COP)						2.72		
	Power input				kW		2.06		
							2.08		
	A Con- dition (-7°C)	Pdh (declared heating cap)			kW		5.60		
	COPd (declared COP)						2.72		
	Power input				kW		2.06		
							2.08		
	B Condi- tion (2°C)	Pdh (declared heating cap)			kW		3.46		
	COPd (declared COP)						4.16		
	Power input				kW		0.83		
							1.26		
	C Condi- tion (7°C)	Pdh (declared heating cap)			kW		2.86		
	COPd (declared COP)						5.68		
	Power input				kW		0.50		
							0.48		
	D Con- dition (12°C)	Pdh (declared heating cap)			kW		3.25		
	COPd (declared COP)						6.58		
	Power input				kW		0.49		
						0.47			
Power consump- tion in other than active mode	Crank- case heater mode	Cooling	PCK	kW	0.000		0.000		
	Heating				PCK		kW		
	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	65		70		
	Sound power level indoor	Cooling	Nom.	dB	45		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-L3/9V1

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Technical specifications			FVA71A + RZQSG71L3V1	FVA100A + RZQSG100L9V1	FVA125A + RZQSG125L9V1	FVA140A + RZQSG140L9V1
Cooling capacity	Nom.	kW	6.80	9.50	12.00	13.40
	Nom.	Btu/h	23,200	32,400	40,900	45,700
	Nom.	kcal/h	5,847	8,169	10,318	11,522
Heating capacity	Nom.	kW	7.50	10.80	13.50	15.50
	Nom.	Btu/h	25,600	36,900	46,100	52,900
	Nom.	kcal/h	6,449	9,286	11,608	13,328
Power input	Cooling	Nom. kW	2.12	2.96	4.27	5.34
	Heating	Nom. kW	2.08	2.99	3.96	4.55
Nominal efficiency	EER		3.21		2.81	2.51
	COP		3.61		3.41	
	Annual energy consumption	kWh	1,059	1,480	2,135	-
	Energy labeling	Cooling	A		C	-
	Directive	Heating	A		B	-
Space cooling	Energy efficiency class		A			-
	Capacity	Pdesign kW	6.80	9.50	12.00	13.40
	SEER		5.50		5.31	
	ηs,c	%	-			209.31
	Annual energy consumption	kWh/a	433	605	764	1,515
Space heating (Average climate)	Energy efficiency class		A		A	-
	Capacity	Pdesign kW	6.33	7.60		11.47
	SCOP/A		3.86	4.01	3.85	3.69
	SCOPnet/A		3.91	4.02	3.86	3.69
	ηs,h	%	-			144.63
	Pdh Heating capacity at -10°	kW	5.74	7.03	7.23	0.00
	Annual energy consumption	kWh/a	2,297	2,654	2,764	4,350
	Required back up heating cap at design conditions	kW	0.60	0.57	0.37	11.47
Space cooling	A Condi- tion (35°C	Pdc EERd	6.80	9.50	12.00	13.40
	- 27/19)	Power input	2.12	2.96	4.27	5.34
	B Condi- tion (30°C	Pdc EERd	5.01	7.00	8.84	9.87
	- 27/19)	Power input	4.37	4.50	3.40	4.37
	C Condi- tion (25°C	Pdc EERd	1.15	1.56	2.60	2.24
	- 27/19)	Power input	3.52	4.60	5.69	6.35
	D Condi- tion (20°C	Pdc EERd	7.01	6.44	7.26	5.99
	- 27/19)	Power input	0.50	0.71	0.78	1.05
	D Condi- tion (20°C	Pdc EERd	3.64	4.03	3.96	5.81
	- 27/19)	Power input				
	D Condi- tion (20°C	EERd	9.24	8.37	10.19	8.95
	- 27/19)	Power input	0.39	0.48	0.39	0.65
Space heating (Average climate)	TOL	Tol (temperature operating limit) °C	-15			-10
		Pdh (declared heating cap) kW	5.96	7.54	8.07	11.47
		COPd (declared COP)	1.72	2.03	2.15	1.76
		Power input kW	3.47	3.71	3.75	6.52
	TBivalent	Tbiv (bivalent temperature) °C	-7			-10
		Pdh (declared heating cap) kW	5.60	6.72		11.47
		COPd (declared COP)	2.23	3.06	2.96	1.76
		Power input kW	2.51	2.20	2.27	6.52
	A Con- dition (-7°C)	Pdh (declared heating cap) kW	5.60	6.72		10.14
		COPd (declared COP)	2.23	3.06	2.96	2.15
		Power input kW	2.51	2.20	2.27	4.72
	B Condi- tion (2°C)	Pdh (declared heating cap) kW	4.07	4.96	5.13	6.17
		COPd (declared COP)	3.90	3.82	3.66	3.80
		Power input kW	1.04	1.30	1.40	1.62
	C Condi- tion (7°C)	Pdh (declared heating cap) kW	2.88	3.02	3.18	4.06
		COPd (declared COP)	6.12	5.52	5.37	4.80
		Power input kW	0.47	0.55	0.59	0.85
	D Con- dition (12°C)	Pdh (declared heating cap) kW	3.27	3.45	3.64	4.74
		COPd (declared COP)	6.96	6.49	6.36	5.72
		Power input kW	0.47	0.53	0.57	0.83

2 Specifications

1 - 1 RZQSG-L3/9V1

Technical specifications					FVA71A + RZQSG71L3V1	FVA100A + RZQSG100L9V1	FVA125A + RZQSG125L9V1	FVA140A + RZQSG140L9V1
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	0.060	0.007		0.012
		Heating	PTO	kW	0.060	0.007		0.012
Indication if the heater is equipped with a supplementary heater (pair application)					-			No
Supplementary heater (pair application)					-			0.00
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	65	70		-
	Sound power level indoor	Cooling	Nom.	dBA	43	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

3

Notes

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

Symbols

①	Hz	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

3D094863C

RZQSG71-125L3/9V1

Unit combination restrictions		Power supply						COMP		OFM		IFM		Symbols
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	① Hz	
FBQ140D2VEB	RZQG140L9V1B				29.5	32	68	24.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5	② Voltage	
2xFBQ71D2VEB	RZQG140L9V1B				29	32	—	24.2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5	③ Voltage range	
3xFBQ50D2VEB	RZQG140L9V1B				29.8	32	—	24.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6	MCA Minimum Circuit Ampere [A]	
4xFBQ35D2VEB	RZQG140L9V1B				30.4	32	—	24.2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6	MFA Maximum Fuse Ampere [A]	
FBQ71D2VEB	RZQSG71L3V1B	50	220-240V	MAX. 50Hz 264V MIN. 50Hz 198V	18.9	20	50	16.2	0.07	0.3	0.07	0.5	RLA Rated load amps [A]	
2xFBQ35D2VEB	RZQSG71L3V1B				19.6	20	—	16.2	0.07	0.3	2x0.089	2x0.6	OFM Outdoor fan motor	
FBQ100D2VEB	RZQSG100L9V1B				28.9	32	53	24.4	0.2	0.6	0.127	1.0	IFM Indoor fan motor	
2xFBQ50D2VEB	RZQSG100L9V1B				29.1	32	—	24.4	0.2	0.6	2x0.089	2x0.6	FLA Full Load Ampere (A)	
3xFBQ35D2VEB	RZQSG100L9V1B				29.7	32	—	24.4	0.2	0.6	3x0.089	3x0.6	kW Fan motor rated output [kW]	
FBQ125D2VEB	RZQSG125L9V1B				29.5	32	80	24.4	0.2	0.6	0.187	1.5	RHz Rated operating frequency [Hz]	
														COMP Compressor

COMP Compressor

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3 - 1 Electrical Data

RZQSG71-125L3/9V1

Unit combination restrictions		Power supply						COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA	
4xFBA35A2VEB	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	
FBA140A2VEB	RZQG140L9V1B				29,5	32	68	24,2	0.094 + 0.094	0.4 + 0.4	0.187	1.5	
2xFBA71A2VEB	RZQG140L9V1B				29	32	—	24,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5	
3xFBA50A2VEB	RZQG140L9V1B				29,8	32	—	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6	
4xFBA35A2VEB	RZQG140L9V1B				30,4	32	—	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6	
FBA71A2VEB	RZQSG71L3V1B	50	220~240V	MAX. 50Hz 264V MIN. 50Hz 198V	18,9	20	50	16,2	0.07	0.3	0.07	0.5	
2xFBA35A2VEB	RZQSG71L3V1B				19,6	20	—	16,2	0.07	0.3	2x0.089	2x0.6	
FBA100A2VEB	RZQSG100L9V1B				28,9	32	53	24,4	0.2	0.6	0.127	1.0	
2xFBA50A2VEB	RZQSG100L9V1B				29,1	32	—	24,4	0.2	0.6	2x0.089	2x0.6	
3xFBA35A2VEB	RZQSG100L9V1B				29,7	32	—	24,4	0.2	0.6	3x0.089	3x0.6	
FBA125A2VEB	RZQSG125L9V1B				29,5	32	80	24,4	0.2	0.6	0.187	1.5	

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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RZQSG125-140L9V1

Unit combination restrictions		Power supply				COMP		OFM		IFM		
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFBQ60D2VEB	RZQSG125L9V1B	50	220~240V	MAX. 50Hz 264V MIN. 50Hz 198V	29	32	—	24,4	0,2	0,6	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG125L9V1B				29,8	32	—	24,4	0,2	0,6	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG125L9V1B				30,4	32	—	24,4	0,2	0,6	4x0.089	4x0.6
FBQ140D2VEB	RZQSG140L9V1B				29,5	32	74	24,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ71D2VEB	RZQSG140L9V1B				29	32	—	24,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG140L9V1B				29,8	32	—	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG140L9V1B				30,4	32	—	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
FBQ71D2VEB	RZQG71L8Y1B	3N~ 50Hz	380~415V	MAX. 50Hz 456V MIN. 50Hz 342V	11,8	16	—	9,6	0,094	0,4	0,07	0,5
2xFBQ35D2VEB	RZQG71L8Y1B				12	16	—	9,6	0,094	0,4	2x0.089	2x0.6
FBQ100D2VEB	RZQG100L8Y1B				17,9	20	—	14,2	0.094 + 0.094	0.4 + 0.4	0,127	1,0
2xFBQ50D2VEB	RZQG100L8Y1B				18,1	20	—	14,2	0.094 + 0.094	0.4 + 0.4	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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RZQSG125-140L9V1

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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
2xFBA60A2VEB	RZQSG125L9V1B	50	220~240V	MAX. 50Hz 264V MIN. 50Hz 198V	29	32	—	24.4	0.2	0.6	2x0.07	2x0.5
3xFBA50A2VEB	RZQSG125L9V1B				29.8	32	—	24.4	0.2	0.6	3x0.089	3x0.6
4xFBA35A2VEB	RZQSG125L9V1B				30.4	32	—	24.4	0.2	0.6	4x0.089	4x0.6
FBA140A2VEB	RZQSG140L9V1B				29.5	32	74	24.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5
2xFBA71A2VEB	RZQSG140L9V1B				29	32	—	24.2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBA50A2VEB	RZQSG140L9V1B				29.8	32	—	24.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBA35A2VEB	RZQSG140L9V1B				30.4	32	—	24.2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
FBA71A2VEB	RZQG71L8Y1B	3N~ 50Hz	380~415V	MAX. 50Hz 456V MIN. 50Hz 342V	11.8	16	—	9.6	0.094	0.4	0.07	0.5
2xFBA35A2VEB	RZQG71L8Y1B				12	16	—	9.6	0.094	0.4	2x0.089	2x0.6
FBA100A2VEB	RZQG100L8Y1B				17.9	20	—	14.2	0.094 + 0.094	0.4 + 0.4	0.127	1.0
2xFBA50A2VEB	RZQG100L8Y1B				18.1	20	—	14.2	0.094 + 0.094	0.4 + 0.4	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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RZQSG-L9V1

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

- 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
- TOCA· is the total value of each overcurrent set.
- 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.
- The maximum allowable voltage that is unbalanced between phases is ·2·%.
- 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.
- Select the wire size according to the MCA.
- MFA· is used to select the circuit breaker and the ground fault circuit interruptor.
 - Earth leakage circuit breaker
- Editable data for this drawing are available in the ·GDE (E-BOM)· system.

3D090679G

3 Electrical data

3 - 1 Electrical Data

RZQSG71-100L9V1

								Compressor		OFM		IFM								Compressor		OFM		IFM			
Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA	Indoor	Outdoor	Power supply	Voltage range	MCA	TOC A	MFA	MSC	RLA	kW	FLA	kW	FLA		
FCQHGT1FVEB	RZQSG7L3V1B	50Hz ~ 220-240V	Minimum: -198 V- Maximum: 264 V-	18.8	-	20	-	16.2	0.07	0.3	0.091	0.5	FCAHGT1GVEB	RZQSG7L3V1B	50Hz ~ 220-240V	Minimum: -198 V- Maximum: 264 V-	18.8	-	20	-	16.2	0.07	0.3	0.091	0.5		
FCQCG3FVEB	x2			RZQSG7L3V1B	18.9	-	20	-	16.2	0.07	0.3	0.044+2	0.3+2	FCAG35AVEB			x2	RZQSG7L3V1B	18.9	-	20	-	16.2	0.07	0.3	0.044+2	0.3+2
FCQGT7FVEB	RZQSG7L3V1B			18.7	-	20	-	16.2	0.07	0.3	0.054	0.4	FCAG71AVEB	RZQSG7L3V1B			18.7	-	20	-	16.2	0.07	0.3	0.054	0.4		
FDXCS2VEB	x2			RZQSG7L3V1B	19.2	-	20	-	16.2	0.07	0.3	0.050+2	0.4+2	FFA35A2VEB			x2	RZQSG7L3V1B	19.2	-	20	-	16.2	0.07	0.3	0.050+2	0.4+2
FDX35F2VEB	x2			RZQSG7L3V1B	18.9	-	20	-	16.2	0.07	0.3	0.034+2	0.3+2	FDX3M5F3V1B			x2	RZQSG7L3V1B	18.9	-	20	-	16.2	0.07	0.3	0.034+2	0.3+2
FBQ35C8VEB	x2			RZQSG7L3V1B	21.2	-	25	-	16.2	0.07	0.3	0.140+2	1.2+2	FAA71BUV1B			RZQSG7L3V1B	18.7	-	20	-	16.2	0.07	0.3	0.048	0.4	
FBGT7C8VEB	RZQSG7L3V1B			19.5	-	20	-	16.2	0.07	0.3	0.350	1.1	FVA71AMVEB	RZQSG7L3V1B			18.9	-	20	-	16.2	0.07	0.3	0.117	0.6		
FAQT7CVEB9	RZQSG7L3V1B			18.7	-	20	-	16.2	0.07	0.3	0.048	0.4	FHA35AVEB99	x2			RZQSG7L3V1B	19.1	-	20	-	15.7	0.07	0.3	0.060+2	0.6+2	
IVGT7CVEB	RZQSG7L3V1B			18.9	-	20	-	16.2	0.07	0.3	0.117	0.6	FHA71AVEB99	RZQSG7L3V1B			18.6	-	20	-	15.7	0.07	0.3	0.091	0.8		
FHQ35CBVEB	x2			RZQSG7L3V1B	19.1	-	20	-	15.7	0.07	0.3	0.060+2	0.6+2	FCAGH100GVEB			RZQSG100L9V1B	29.1	-	32	-	24.4	0.2	0.6	0.221	1.3	
FHO71C8VEB	RZQSG7L3V1B			18.6	-	20	-	15.7	0.07	0.3	0.081	0.6	FCAG35AVEB	x3			RZQSG100L9V1B	28.6	-	32	-	24.4	0.2	0.6	0.044+3	0.3+3	
FCQH100FVEB	RZQSG100L9V1B			29.1	-	32	-	24.4	0.2	0.6	0.221	1.3	FCAG50AVEB	x2			RZQSG100L9V1B	28.3	-	32	-	24.4	0.2	0.6	0.039+2	0.3+2	
FCQCG3FVEB	x3	RZQSG100L9V1B	28.6	-	32	-	24.4	0.2	0.6	0.044+3	0.3+3	FCAG100AVEB	RZQSG100L9V1B	28.4	-	32	-	24.4	0.2	0.6	0.117	0.7					
FCQCG50FVEB	x2	RZQSG100L9V1B	28.3	-	32	-	24.4	0.2	0.6	0.039+2	0.3+2	FFA35A2VEB	x3	RZQSG100L9V1B	29.0	-	32	-	24.4	0.2	0.6	0.05+3	0.4+3				
FCQG100FVEB	RZQSG100L9V1B	28.4	-	32	-	24.4	0.2	0.6	0.117	0.7	FFA50A2VEB	x2	RZQSG100L9V1B	28.5	-	32	-	24.4	0.2	0.6	0.05+2	0.4+2					
FFQCS2VEB	x3	RZQSG100L9V1B	29.0	-	32	-	24.4	0.2	0.6	0.05+3	0.4+3	FDX3M5F3V1B	x3	RZQSG100L9V1B	28.6	-	32	-	24.4	0.2	0.6	0.034+3	0.3+3				
FFQ50C2VEB	x2	RZQSG100L9V1B	28.5	-	32	-	24.4	0.2	0.6	0.05+2	0.4+2	FDX5M5F3V1B	x2	RZQSG100L9V1B	28.8	-	32	-	24.4	0.2	0.6	0.06+2	0.5+2				
FDX35F2VEB	x3	RZQSG100L9V1B	28.6	-	32	-	24.4	0.2	0.6	0.034+3	0.3+3	FAA100BUV1B	RZQSG100L9V1B	28.5	-	32	-	24.4	0.2	0.6	0.064	0.9					
FDX50F2VEB9	x2	RZQSG120L9V1B	28.8	-	32	-	24.4	0.2	0.6	0.062	0.52	FVA100AMVEB	RZQSG100L9V1B	29.0	-	32	-	24.4	0.2	0.6	0.238	1.2					
FBQ35C8VEB	x3	RZQSG100L9V1B	32.0	-	40	-	24.4	0.2	0.6	0.140+3	1.2+3	FHA35AVEB99	x3	RZQSG100L9V1B	29.8	-	32	-	24.4	0.2	0.6	0.060+3	0.6+3				
FBQ50C8VEB	x2	RZQSG100L9V1B	30.5	-	32	-	24.4	0.2	0.6	0.140+2	1.2+2	FHA50AVEB99	x2	RZQSG100L9V1B	29.0	-	32	-	24.4	0.2	0.6	0.060+2	0.6+2				
FBQ100C8VEB	RZQSG100L9V1B	29.5	-	32	-	24.4	0.2	0.6	0.350	1.6	FHA100AVEB9	RZQSG100L9V1B	29.1	-	32	-	24.4	0.2	0.6	0.150	1.3						
FAQ100C8VEB9	RZQSG100L9V1B	28.0	-	32	-	24.4	0.2	0.6	0.064	0.4	FUA100AVEB9	RZQSG100L9V1B	29.1	-	32	-	24.4	0.2	0.6	0.106	1.3						
IVQ100C8VEB	RZQSG100L9V1B	28.0	-	32	-	24.4	0.2	0.6	0.238	1.2																	
FHQ35CBVEB	x3	RZQSG100L9V1B	29.8	-	32	-	24.4	0.2	0.6	0.060+3	0.6+3																
FHQ50C8VEB	x2	RZQSG100L9V1B	29.0	-	32	-	24.4	0.2	0.6	0.060+2	0.6+2																
FHQ100C8VEB	RZQSG100L9V1B	29.1	-	32	-	24.4	0.2	0.6	0.150	1.3																	
FUQ100C8VEB	RZQSG100L9V1B	29.1	-	32	-	24.4	0.2	0.6	0.106	1.3																	

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RZQSG125-140L9V1

Indoor		Outdoor		Power supply	Voltage range	Compressor										Compressor																	
						MCA		TOCA		MFA		MSC		RLA		KW		FLA		MCA		TOCA		MFA		MSC		RLA		KW		FLA	
						50Hz ~ 220-240V										50Hz ~ 220-240V																	
FCQHG125FVB	RZSGS125LV9VB	29.3	-	32	-	24.4	-	32	-	24.4	0.2	0.6	0.244	1.4	FCAGH125GVB	RZQSG125LV9VB	29.3	-	32	-	24.4	0.2	0.6	0.244	1.4								
FCQG35FVB	+4 RZSGS125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.044	0.34				FCAG35AVEB	+4 RZQSG125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.044	0.34									
FCQG60FVB	+3 RZSGS125LV9VB	28.6	-	32	-	24.4	0.2	0.6	0.039	0.33				FCAG60AVEB	+3 RZQSG125LV9VB	28.6	-	32	-	24.4	0.2	0.6	0.039	0.33									
FCQG80FVB	+2 RZSGS125LV9VB	28.3	-	32	-	24.4	0.2	0.6	0.044	0.32				FCAG80AVEB	+2 RZQSG125LV9VB	28.3	-	32	-	24.4	0.2	0.6	0.044	0.32									
FCQG125FVB	+1 RZSGS125LV9VB	28.8	-	32	-	24.4	0.2	0.6	0.188	1				FCAG125AVEB	+1 RZQSG125LV9VB	28.8	-	32	-	24.4	0.2	0.6	0.188	1									
FFQSG32VEB	+4 RZSGS125LV9VB	29.5	-	32	-	24.4	0.2	0.6	0.05	0.44				FFAS32AVEB	+4 RZSGS125LV9VB	29.5	-	32	-	24.4	0.2	0.6	0.05	0.44									
FFQSG32VEB	+3 RZSGS125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.05	0.33	0.43			FFAS32AVEB	+3 RZSGS125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.05	0.33	0.43								
FFQSG60VEB	+2 RZSGS125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.05	0.52				FFAS60AVEB	+2 RZSGS125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.05	0.52									
FFQSG80VEB	+1 RZSGS125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.034	0.4				FFAS80AVEB	+1 RZSGS125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.034	0.4									
FDXSG35FVB	+4 RZSGS125LV9VB	29.4	-	32	-	24.4	0.2	0.6	0.06	0.5				FDXSG35FVB	+4 RZSGS125LV9VB	29.4	-	32	-	24.4	0.2	0.6	0.06	0.5									
FDXSG60FVB	+3 RZSGS125LV9VB	28.8	-	32	-	24.4	0.2	0.6	0.060	0.52				FDXSG60FVB	+3 RZSGS125LV9VB	28.8	-	32	-	24.4	0.2	0.6	0.060	0.52									
FDXSG80FVB	+2 RZSGS125LV9VB	33.5	-	40	-	24.4	0.2	0.6	0.140	1.24				FDXSG80FVB	+2 RZSGS125LV9VB	30.1	-	32	-	24.4	0.2	0.6	0.140	1.24									
FBQSG35VEB	+1 RZSGS125LV9VB	32.0	-	40	-	24.4	0.2	0.6	0.140	1.23				FVA125AVEB	+1 RZSGS125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.238	1.2									
FBQSG60VEB	+2 RZSGS125LV9VB	30.3	-	32	-	24.4	0.2	0.6	0.350	2.1				FHAG35AVEB	+2 RZSGS125LV9VB	30.5	-	32	-	24.4	0.2	0.6	0.060	0.4									
FBQ125FVB	RZSGS125LV9VB	30.1	-	32	-	24.4	0.2	0.6	0.350	2.1				FHAG60AVEB	+3 RZSGS125LV9VB	29.4	-	32	-	24.4	0.2	0.6	0.060	0.3									
FBQ125FVB	RZSGS125LV9VB	30.1	-	32	-	24.4	0.2	0.6	0.350	2.1				FHAG125AVEB	+2 RZSGS125LV9VB	29.8	-	32	-	24.4	0.2	0.6	0.07	0.2									
FVQ125VEB	RZSGS125LV9VB	29.9	-	32	-	24.4	0.2	0.6	0.238	1.2				FUA125AVEB	+1 RZSGS125LV9VB	29.4	-	32	-	24.4	0.2	0.6	0.116	1.4									
FHQSG35VEB	+4 RZSGS125LV9VB	30.5	-	32	-	24.4	0.2	0.6	0.060	0.64				FCAGH71GVB	+2 RZSGS140LV9VB	28.75	-	32	-	24.2	0.094	0.094	0.4	0.4									
FHQSG60VEB	+3 RZSGS125LV9VB	29.8	-	32	-	24.4	0.2	0.6	0.060	0.63				FCAGH140GVB	+3 RZSGS140LV9VB	29.25	-	32	-	24.2	0.094	0.094	0.4	0.4									
FHQSG80VEB	+2 RZSGS125LV9VB	29.0	-	32	-	24.4	0.2	0.6	0.091	0.62				FCAG35AVEB	+4 RZSGS140LV9VB	29	-	32	-	24.2	0.094	0.094	0.4	0.4									
FHQ125VEB	RZSGS125LV9VB	29.4	-	32	-	24.4	0.2	0.6	0.15	1.5				FCAG50AVEB	+3 RZSGS140LV9VB	28.625	-	32	-	24.2	0.094	0.094	0.4	0.4									
FUQ125VEB	RZSGS125LV9VB	29.3	-	32	-	24.4	0.2	0.6	0.106	1.4				FCAG71AVEB	+2 RZSGS140LV9VB	28.5	-	32	-	24.2	0.094	0.094	0.4	0.4									
FCQG71FVB	+2 RZSGS140LV9VB	28.75	-	32	-	24.2	0.094	0.094	0.4	0.4	0.4	0.21	0.52	FCAG140AVEB	RZSGS140LV9VB	28.75	-	32	-	24.2	0.094	0.094	0.4	0.4									
FCQG140FVB	+1 RZSGS140LV9VB	29.25	-	32	-	24.2	0.094	0.094	0.4	0.4	0.24	1.4		FFAS32AVEB	+4 RZSGS140LV9VB	29.5	-	32	-	24.2	0.094	0.094	0.4	0.4									
FCQSG35FVB	+4 RZSGS140LV9VB	29.0	-	32	-	24.2	0.094	0.094	0.4	0.4	0.34	0.34		FFAG60AVEB	+3 RZSGS140LV9VB	29	-	32	-	24.2	0.094	0.094	0.4	0.4									
FCQSG60FVB	+3 RZSGS140LV9VB	28.625	-	32	-	24.2	0.094	0.094	0.4	0.4	0.039	0.33		FDXSG35FVB	+4 RZSGS140LV9VB	29	-	32	-	24.2	0.094	0.094	0.4	0.4									
FCQG71FVB	+2 RZSGS140LV9VB	28.5	-	32	-	24.2	0.094	0.094	0.4	0.4	0.054	0.42		FDXSG60FVB	+3 RZSGS140LV9VB	29.375	-	32	-	24.2	0.094	0.094	0.4	0.4									
FCQG140FVB	+1 RZSGS140LV9VB	28.75	-	32	-	24.2	0.094	0.094	0.4	0.4	0.188	1		FAG71BVB	+2 RZSGS140LV9VB	28.5	-	32	-	24.2	0.094	0.094	0.4	0.4									
FFQSG35VEB	+4 RZSGS140LV9VB	29.5	-	32	-	24.2	0.094	0.094	0.4	0.4	0.05	0.4		FFAG140VEB	+3 RZSGS140LV9VB	30.5	-	32	-	24.2	0.094	0.094	0.4	0.4									
FFQSG60VEB	+3 RZSGS140LV9VB	29.0	-	32	-	24.2	0.094	0.094	0.4	0.4	0.05	0.33	0.43	FHAG35AVEB	+4 RZSGS140LV9VB	28.5	-	32	-	24.2	0.094	0.094	0.4	0.4									
FFQSG80VEB	+2 RZSGS140LV9VB	29.0	-	32	-	24.2	0.094	0.094	0.4	0.4	0.034	0.34		FHAG60AVEB	+3 RZSGS140LV9VB	29.8	-	32	-	24.2	0.094	0.094	0.4	0.4									
FDXSG35FVB	+4 RZSGS140LV9VB	29.375	-	32	-	24.2	0.094	0.094	0.4	0.4	0.06	0.3	0.53	FHAG71AVEB	+2 RZSGS140LV9VB	29.5	-	32	-	24.2	0.094	0.094	0.4	0.4									
FBQSG35VEB	+4 RZSGS140LV9VB	33.5	-	40	-	24.2	0.094	0.094	0.4	0.4	0.140	1.24		FHA140AVEB	+3 RZSGS140LV9VB	29.8	-	32	-	24.2	0.094	0.094	0.4	0.4									
FBQSG60VEB	+3 RZSGS140LV9VB	32.0	-	40	-	24.2	0.094	0.094	0.4	0.4	0.15	1.23		FUA71AVEB	+2 RZSGS140LV9VB	29.8	-	32	-	24.2	0.094	0.094	0.4	0.4									
FBQ125VEB	RZSGS140LV9VB	30.25	-	32	-	24.2	0.094	0.094	0.4	0.4	0.350	2.1																					
FBQ140CVEB	RZSGS140LV9VB	30.125	-	32	-	24.2	0.094	0.094	0.4	0.4	0.35	2.1																					
FAQ71CVEB	+2 RZSGS140LV9VB	28.5	-	32	-	24.2	0.094	0.094	0.4	0.4	0.048	0.2	0.42																				
FVQ140VEB	RZSGS140LV9VB	29.25	-	32	-	24.2	0.094	0.094	0.4	0.4	0.276	1.4																					
FHQ125CVEB	+4 RZSGS140LV9VB	30.5	-	32	-	24.2	0.094	0.094	0.4	0.4	0.060	0.4																					
FHQSG35VEB	+3 RZSGS140LV9VB	29.25	-	32	-	24.2	0.094	0.094	0.4	0.4	0.050	0.3	0.63																				
FHQ71CVEB	+2 RZSGS140LV9VB	29.5	-	32	-	24.2	0.094	0.094	0.4	0.4	0.051	0.2	0.82																				
FHQ140CVEB	RZSGS140LV9VB	29.8	-	32	-	24.2	0.094	0.094	0.4	0.4	0.15	1.8																					
FHQ71CVEB	+1 RZSGS140LV9VB	29.8	-	32	-	24.2	0.094	0.094	0.4	0.4	0.062	0.2	0.92																				

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3 Electrical data

3 - 1 Electrical Data

RZQSG71L3V1

Symbols :

MCA: Minimum Circuit Amperes [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Amperes [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 amps [A]
KW: Fan motor rated output [kW]

Notes :

- The ·RLA· is based on the following conditions.
Power supply
50Hz 230V
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
 - TOCA· is the total value of each overcurrent set.
 - 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.
 - The maximum allowable voltage that is unbalanced between phases is ·2·%.
 - 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.
 - Select the wire size according to the ·MCA· or the ·TOCA·, whichever is higher.
 - 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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RZQSG71L3V1

Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	KW	FLA	KW	FLA
FCQH71FVEB	RZQSG71L3V1B	50Hz ~220-240V	Minimum ·198V·	18.8	—	20	—	16.2	0.07	0.3	0.091	0.5
FCQG35FVEB	x2 RZQSG71L3V1B			18.9	—	20	—	16.2	0.07	0.3	0.044x2	0.3x2
FCQG71FVEB	RZQSG71L3V1B			18.7	—	20	—	16.2	0.07	0.3	0.054	0.4
FFQ35B9V1B	x2 RZQSG71L3V1B			19.2	—	20	—	16.2	0.07	0.3	0.055x2	0.4x2
FFQ35C2VEB	x2 RZQSG71L3V1B			18.9	—	20	—	16.2	0.07	0.3	0.050x2	0.3x2
FBQ35C8VEB	x2 RZQSG71L3V1B			21.2	—	25	—	16.2	0.07	0.3	0.140x2	1.2x2
FBQ71C8VEB	RZQSG71L3V1B			19.5	—	20	—	16.2	0.07	0.3	0.350	1.1
FHQ35B9V1B	x2 RZQSG71L3V1B			19.7	—	20	—	16.2	0.07	0.3	0.062x2	0.6x2
FHQG71CVEB	RZQSG71L3V1B			19.2	—	20	—	16.2	0.07	0.3	0.091	0.8
FAQ71CVEB	RZQSG71L3V1B			18.7	—	20	—	16.2	0.07	0.3	0.048	0.4
FVQ71CVEB	RZQSG71L3V1B			18.9	—	20	—	16.2	0.07	0.3	0.117	0.6
FFQ35C2VEB	x2 RZQSG71L3V1B		Maximum ·264V·	19.2	—	20	—	16.2	0.07	0.3	0.050x2	0.4x2
FDX35F2VEB	x2 RZQSG71L3V1B			18.9	—	20	—	16.2	0.07	0.3	0.034x2	0.3x2
FUQ71CVEB	RZQSG71L3V1B			19.2	—	20	—	16.2	0.07	0.3	0.046	0.9
FHQ35CAVEB	x2 RZQSG71L3V1B			19.7	—	20	—	16.2	0.07	0.3	0.062x2	0.6x2
FHQ35CBVEB	x2 RZQSG71L3V1B			19.7	—	20	—	16.2	0.07	0.3	0.062x2	0.6x2
FHQ71CAVEB	RZQSG71L3V1B			19.2	—	20	—	16.2	0.07	0.3	0.091	0.8
FHQ71CBVEB	RZQSG71L3V1B			19.2	—	20	—	16.2	0.07	0.3	0.091	0.8
FAQ71CVEB9	RZQSG71L3V1B			18.7	—	20	—	16.2	0.07	0.3	0.048	0.4

Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	KW	FLA	KW	FLA
FCAHG71GVEB	RZQSG71L3V1B	50Hz ~220-240V	Minimum ·198V·	18.8	—	20	—	16.2	0.07	0.3	0.091	0.5
FCAG35AVEB	x2 RZQSG71L3V1B			18.9	—	20	—	16.2	0.07	0.3	0.044x2	0.3x2
FCAG71AVEB	RZQSG71L3V1B			18.7	—	20	—	16.2	0.07	0.3	0.054	0.4
FFA35A2VEB	x2 RZQSG71L3V1B			18.9	—	20	—	16.2	0.07	0.3	0.050x2	0.3x2
FBA35A2VEB	x2 RZQSG71L3V1B			21.2	—	25	—	16.2	0.07	0.3	0.140x2	1.2x2
FBA71A2VEB	RZQSG71L3V1B			19.5	—	20	—	16.2	0.07	0.3	0.350	1.1
FDX35F3V1B	x2 RZQSG71L3V1B		Maximum ·264V·	18.9	—	20	—	16.2	0.07	0.3	0.034x2	0.3x2
FHA35AVEB99	x2 RZQSG71L3V1B			19.7	—	20	—	16.2	0.07	0.3	0.062x2	0.6x2
FHA71AVEB99	RZQSG71L3V1B			19.2	—	20	—	16.2	0.07	0.3	0.091	0.8
FAA71B1V1B	RZQSG71L3V1B			18.7	—	20	—	16.2	0.07	0.3	0.048	0.4
FVA71AMVEB	RZQSG71L3V1B			18.9	—	20	—	16.2	0.07	0.3	0.117	0.6
FUA71AVEB9	RZQSG71L3V1B			19.2	—	20	—	16.2	0.07	0.3	0.046	0.9

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4 Options

4 - 1 Options

RZQSG-L3/9V1

4

Available options for RZQSG models

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

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RZQSG71L3V1

Available options for RZQSG models:

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

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5 Combination table

5 - 1 Combination Table

5

RZQSG-L9V1

RZQSG-L(8)Y1

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	FCAG50RVEB	FCAG60RVEB	FCAG71BVEB	FCAG100RVEB	FCAG125BVEB	FCAG140BVEB	FFA35A2VEB99	FFA50A2VEB99	FFA60A2VEB99	FBA35A2VEB99	FBA50A2VEB99	FBA60A2VEB99	FBA71A2VEB99	FBA100A2VEB99	FBA125A2VEB99	FBA140A2VEB99	FHA35AVEB99	FHA50AVEB99	FHA60AVEB99	FHA71AVEB99	FHA100AVEB99	FHA125AVEB99	FHA140AVEB99	FUA71AVEB99	FUA100AVEB99	FUA125AVEB99	FAA71AUEB99	FAA100AUEB99	FDA125A5VEB99	FVA71AMVEB99	FVA100AMVEB99	FVA125AMVEB99	FVA140AMVEB99	FDXMS53V1BB99	FDXMS63V1BB99	FDXMS73V1BB99			
RZQG71L9V1B	RZQG71L8Y1B	P			2			P				2			2			P				2		P				P							P				2			2		
RZQG100L9V1B	RZQG100L8Y1B		P					3	2			3	2		3	2			P				3	2		P			P							P				3	2		3	
RZQG125L9V1B	RZQG125L8Y1B			P				4	3	2				P		4	3	2			P		4	3	2		P			P							P				4	3		4
RZQG140L9V1B	RZQG140L7Y1B	2			P	4	3	2				P	4	3	2			2				P	4	3	2		P	2				2							P	4	3		4	

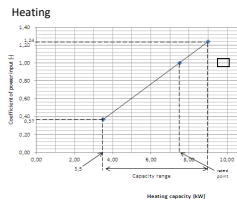
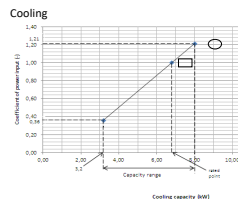
Sky Air	High Cassette			Thin cassette			2x2 cassette		Duct (medium ESP)			Ceiling-suspended		Ceiling-mounted - 4-way blow		Wall mounted type		Duct (high ESP)		Floor standing type		Slim duct																							
Model	FCAG71HVEB	FCAG100HVEB	FCAG125HVEB	FCAG140HVEB	FCAG38VEB	FCAG50RVEB	FCAG60RVEB	FCAG71BVEB	FCAG100RVEB	FCAG125BVEB	FCAG140BVEB	FFA35A2VEB99	FFA50A2VEB99	FFA60A2VEB99	FBA35A2VEB99	FBA50A2VEB99	FBA60A2VEB99	FBA71A2VEB99	FBA100A2VEB99	FBA125A2VEB99	FBA140A2VEB99	FHA35AVEB99	FHA50AVEB99	FHA60AVEB99	FHA71AVEB99	FHA100AVEB99	FHA125AVEB99	FHA140AVEB99	FUA71AVEB99	FUA100AVEB99	FUA125AVEB99	FAA71AUEB99	FAA100AUEB99	FDA125A5VEB99	FVA71AMVEB99	FVA100AMVEB99	FVA125AMVEB99	FVA140AMVEB99	FDXMS53V1BB99	FDXMS63V1BB99	FDXMS73V1BB99				
RZQSG71L3V1B		P			2			P				2			2							2		P				P								P				2			2		
RZQSG100L9V1B	RZQSG100L8Y1B		P					3	2			3	2		3	2			P			3	2		P				P								P				3	2		3	
RZQSG125L9V1B	RZQSG125L8Y1B			P				4	3	2				P		4	3	2			P		4	3	2		P			P								P				4	3		4
RZQSG140L9V1B	RZQSG140L7Y1B	2			P	4	3	2				P	4	3	2			2				P	4	3	2		P	2				2							P	4	3		4		

Sky Air			Duct (medium ESP)						Concealed floor standing type			
Model			FFA35A2VEB99	FFA50A2VEB99	FFA60A2VEB99	FBA71A2VEB99	FBA100A2VEB99	FBA125A2VEB99	FBA140A2VEB99	FNA35A2VEB99	FNA50A2VEB99	FNA60A2VEB99
RZQG71L9V1B	RZQG71L8Y1B	RZQG71L3V1B		2			P			2		
RZQG100L9V1B	RZQG100L8Y1B	RZQG100L9V1B	3	2			P			3	2	
RZQG125L9V1B	RZQG125L8Y1B	RZQG125L9V1B	4	3	2			P		4	3	2
RZQG140L9V1B	RZQG140L7Y1B	RZQG140L9V1B	4	3	2			P		4	3	

Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZQSG71L3V1



Symbols

- ARF: 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)
 - PI: Power input (kW)
 - CPI: Coefficient of the power input
- Caution
TC and SHC are shown by kW

Cooling

Indoor	Outdoor temperature [°C DB]											
	25			30			35			40		
°C WB / °C DB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0 22	7.29	4.95	0.92	7.28	4.99	1.08	7.50	5.21	1.20	7.20	5.06	1.17
18.0 25	8.37	5.43	1.00	8.11	5.32	1.11	7.83	5.19	1.21	7.52	5.04	1.34
19.0 27	8.54	5.41	1.01	8.28	5.31	1.11	8.00	5.18	1.21	7.68	5.03	1.34
19.5 27	8.63	5.40	1.01	8.37	5.30	1.11	8.08	5.17	1.21	7.76	5.03	1.34
22.0 30	9.07	5.35	1.03	8.80	5.23	1.12	8.51	5.12	1.22	8.18	4.97	1.35
24.0 32	9.43	5.25	1.03	9.15	5.16	1.13	8.85	5.05	1.23	8.51	4.90	1.36

Heating

Indoor	Outdoor temperature [°C WB]											
	-15			-10			-5			0		
°C DB	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
16	5.14	0.89	5.68	0.94	6.22	0.98	6.75	1.03	7.02	1.08	7.72	1.13
18	5.14	0.92	5.67	0.97	6.21	1.02	6.74	1.07	9.01	1.12	9.70	1.18
20	5.13	0.96	5.67	1.01	6.20	1.06	6.73	1.11	9.00	1.17	9.69	1.23
21	5.13	0.98	5.66	1.03	6.20	1.08	6.73	1.13	9.00	1.19	9.69	1.25
22	5.12	0.99	5.66	1.04	6.19	1.10	6.73	1.15	8.99	1.22	9.68	1.28
24	5.12	1.03	5.65	1.09	6.19	1.14	6.72	1.20	8.98	1.26	9.66	1.32

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark shows the maximum at standard conditions. On the figure the mark shows the rated capacity and rated coefficient of the power input. However the maximum capacity is not guaranteed except at standard conditions.
- SHC is based on indoor EWB and EDB. SHC* for other dry-bulb temperatures = SHC + SHC*. SHC* = SHC correction for other dry bulb. = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB).
- The coefficient of the power input is the percentage when the rated value is defined as 1.00.

Note -9

Pair	FAHG71G	FCAG71A	FBA71A	FHQG71C	FAQ71C	FVA71A	FHQ71CA	FUA71A	FHA71A	FAA71A
AFR (BF)	11.2 (0.20)	21.5 (0.14)	18.0 (0.13)	20.5 (0.13)	18.0 (0.16)	18.0 (0.13)	20.5 (0.13)	23.0 (0.24)	18.0 (0.13)	18.0 (0.16)

Twin	FCAG35A x 2	FFQ35 x 2	FBA35A x 2	FHQ35BW x 2	FHQ35CA x 2	FFA35A x 2	FDX35F x 2	FNA35A x 2	FHA35A x 2
AFR (BF)	12.5 x 2 (0.40 x 2)	10.0 x 2 (0.25 x 2)	15.0 x 2 (0.08 x 2)	13.0 x 2 (0.20 x 2)	14.0 x 2 (0.17 x 2)	10.0 x 2 (0.25 x 2)	8.7 x 2 (0.17 x 2)	8.7 x 2 (0.17 x 2)	14.0 x 2 (0.17 x 2)

Note -10

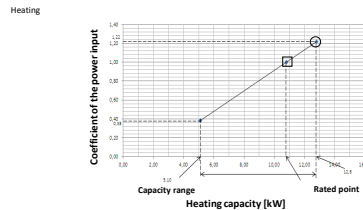
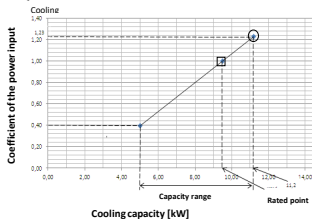
Pair	FAHG71G	FCAG71A	FBA71A	FHQG71C	FAQ71C	FVA71A	FHQ71CA	FUA71A	FHA71A	FAA71A
Cooling	1.94	2.12	1.98	1.97	2.12	2.12	1.97	2.12	1.97	2.12
Heating	1.83	2.08	1.91	1.88	2.08	2.08	1.88	2.08	1.88	2.08

Twin	FCAG35A x 2	FFQ35 x 2	FBA35A x 2	FHQ35BW x 2	FHQ35CA x 2	FFA35A x 2	FDX35F x 2	FNA35A x 2	FHA35A x 2
Cooling	2.28	2.30	2.09	2.51	2.47	2.29	2.31	2.16	2.47
Heating	2.37	2.32	2.12	2.78	2.70	2.31	2.39	2.39	2.70

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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 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.
- 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		
°C WB / °C DB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0 22	11.2	7.61	1.01	10.8	7.44	1.11	10.5	7.29	1.22	10.1	7.09	1.32
18.0 25	11.8	7.59	1.01	11.4	7.49	1.12	11.0	7.27	1.23	10.5	7.09	1.33
19.0 27	12.0	7.57	1.02	11.6	7.44	1.12	11.2	7.26	1.23	10.8	7.04	1.33
19.5 27	12.1	7.59	1.02	11.7	7.37	1.13	11.4	7.34	1.23	10.9	7.04	1.34
22.0 30	12.8	7.52	1.02	12.4	7.36	1.13	11.9	7.16	1.24	11.5	7.03	1.35
24.0 32	13.3	7.42	1.03	12.9	7.27	1.14	12.4	7.06	1.25	12.0	6.91	1.36

Heating

Indoor	Outdoor temperature [°C WB]											
	-15			-10			-5			0		
°C DB	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
16	8.58	0.93	9.45	0.99	10.1	1.02	10.4	1.05	12.8	1.12	13.8	1.13
18	8.57	0.97	9.44	1.02	10.0	1.07	10.3	1.10	12.8	1.17	13.8	1.28
20	8.56	1.01	9.43	1.07	10.0	1.11	10.3	1.14	12.8	1.22	13.8	1.28
21	8.56	1.03	9.42	1.09	10.0	1.13	10.3	1.16	12.8	1.24	13.8	1.30
22	8.55	1.04	9.42	1.10	10.0	1.14	10.3	1.18	12.8	1.26	13.8	1.33
24	8.54	1.09	9.41	1.15	10.0	1.19	10.3	1.23	12.8	1.31	13.8	1.38

Pair	FAHG100H	FCAG100B	FBA100A	FHQG100C	FAQ100C	FVA100A	FHQ100CB	FUA100A	FHA100A	FAA100A
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)	31.0 (0.20)

Twin	FCAG50B x 2	FFQ50C x 2	FBA50A x 2	FHQ50CB x 2	FHQ50CA x 2	FFA50A x 2	FDX50F x 2	FNA50A x 2	FHA50A 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)	16 x 2 (0.15 x 2)	16 x 2 (0.11 x 2)	16 x 2 (0.11 x 2)	16 x 2 (0.11 x 2)

Triple	FCAG35B x 3	FFQ35C x 3	FBA35A x 3	FHQ35CB x 3	FHQ35CA x 3	FFA35A x 3	FDX35F x 3	FNA35A x 3	FHA35A 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)	8.7 x 3 (0.17 x 3)	8.7 x 3 (0.17 x 3)

Pair	FAHG100H	FCAG100B	FBA100A	FHQG100C	FAQ100C	FVA100A	FHQ100CB	FUA100A	FHA100A	FAA100A
Cooling	2.57	2.88	2.87	2.96	3.16	2.96	2.96	2.96	2.84	2.96
Heating	2.51	3.05	2.96	2.99	3.17	2.99	2.99	2.99	2.94	2.99

Twin	FCAG50B x 2	FFQ50C x 2	FBA50A x 2	FHQ50CB x 2	FHQ50CA x 2	FFA50A x 2	FDX50F x 2	FNA50A x 2	FHA50A x 2
Cooling	2.76	2.93	3.35	3.13	3.15	3.10	3.10	3.10	3.10
Heating	2.61	2.86	3.28	3.34	3.31	3.27	3.31	3.31	3.31

Triple	FCAG35B x 3	FFQ35C x 3	FBA35A x 3	FHQ35CB x 3	FHQ35CA x 3	FFA35A x 3	FDX35F x 3	FNA35A x 3	FHA35A x 3
Cooling	2.82	2.93	3.33	3.28	3.71	2.90	3.71	3.71	3.71
Heating	2.66	2.86	3.26	3.04	4.06	3.24	4.06	4.06	4.06

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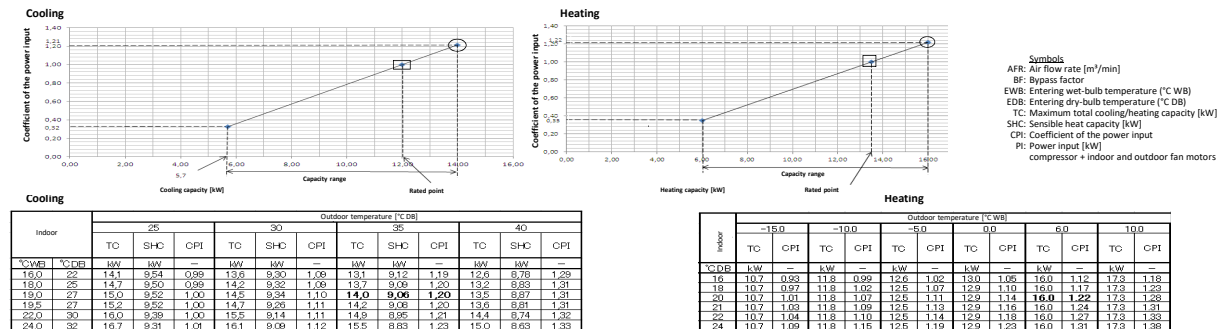
6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZQSG125L8Y1

RZQSG125L9V1

6



- 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: 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.

Note - 8

Pair	FAHG125G	FAHG125A	FBQ125C	FHQ125C	FVA125A	FHA125A	FBA125A	FUA125A
AFR	33.5	33.0	39.0	31.0	28.0	31.0	34.0	32.5
(BF)	(0.19)	(0.21)	(0.16)	(0.14)	(0.16)	(0.14)	(0.06)	(0.19)

Twin	FAHG60A X 2	FBQ60C X 2	FHA60A X 2	FFA60A X 2	FDX60F X 2	FBA60A X 2	FNA60A X 2
AFR	13.6 x 2	18 x 2	19.5 x 2	14.5 x 2	16 x 2	18 x 2	16 x 2
(BF)	(0.2 x 2)	(0.15 x 2)	(0.20 x 2)	(0.11 x 2)	(0.12 x 2)	(0.15 x 2)	(0.12 x 2)

Triple	FAHG50A X 3	FBQ50C X 3	FHA50A X 3	FFA50A X 3	FDX50F X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 x 3	16 x 3	15 x 3	12.7 x 3	16 x 3	15 x 3	16 x 3
(BF)	(0.22 x 3)	(0.16 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin	FAHG35A X 4	FBQ35C X 4	FHA35A X 4	FFA35A X 4	FDX35F X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 x 4	16 x 4	14 x 4	10 x 4	8.7 x 4	15 x 4	8.7 x 4
(BF)	(0.4 x 4)	(0.13 x 4)	(0.17 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Note - 9

Pair	FAHG125G	FAHG125A	FBQ125C	FHQ125C	FVA125A	FHA125A	FBA125A	FUA125A
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	FAHG60A X 2	FBQ60C X 2	FHA60A X 2	FFA60A X 2	FDX60F X 2	FBA60A X 2	FNA60A X 2
Cooling	3.66	3.95	4.34	4.75	4.88	4.24	4.88
Heating	3.88	4.06	4.43	4.33	4.38	4.34	4.38

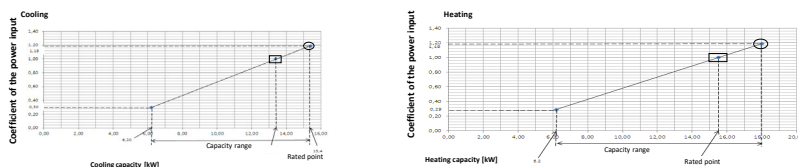
Triple	FAHG50A X 3	FBQ50C X 3	FHA50A X 3	FFA50A X 3	FDX50F X 3	FBA50A X 3	FNA50A X 3
Cooling	3.69	3.95	4.33	4.14	4.07	4.08	4.07
Heating	3.90	4.06	4.42	3.87	3.92	4.09	3.92

Double twin	FAHG35A X 4	FBQ35C X 4	FHA35A X 4	FFA35A X 4	FDX35F X 4	FBA35A X 4	FNA35A 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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RZQSG140L7Y1



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

Pair	FAHG140H	FAHG140B	FBQ140C	FHQ140C	FVA140A	FHA140A	FBA140A	FUA140A
AFR	33.5	33.0	39.0	31.0	28.0	31.0	34.0	32.5
(BF)	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)	(0.17)	(0.06)	(0.19)

Twin	FAHG71H X 2	FBQ71C X 2	FHA71A X 2	FFA71A X 2	FDX71F X 2	FBA71A X 2	FNA71A X 2
AFR	21.2 x 2	21.5 x 2	18.0 x 2	20.5 x 2	18.0 x 2	20.5 x 2	18.2 x 2
(BF)	(0.2 x 2)	(0.14 x 2)	(0.08 x 2)	(0.13 x 2)	(0.16 x 2)	(0.13 x 2)	(0.24 x 2)

Triple	FAHG50B X 3	FBQ50C X 3	FHA50A X 3	FFA50A X 3	FDX50F X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 x 3	16 x 3	15 x 3	12.7 x 3	16 x 3	15 x 3	16 x 3
(BF)	(0.22 x 3)	(0.16 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin	FAHG35B X 4	FBQ35C X 4	FHA35A X 4	FFA35A X 4	FDX35F X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 x 4	16 x 4	14 x 4	10 x 4	8.7 x 4	15 x 4	8.7 x 4
(BF)	(0.4 x 4)	(0.13 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair	FAHG140H	FAHG140B	FBQ140C	FHQ140C	FVA140A	FHA140A	FBA140A	FUA140A
Cooling	4.17	4.45	4.44	4.45	4.45	4.45	4.38	4.38
Heating	4.29	4.54	4.54	4.54	4.54	4.45	4.56	4.56

Twin	FAHG71H X 2	FBQ71C X 2	FHA71A X 2	FFA71A X 2	FDX71F X 2	FBA71A X 2	FNA71A X 2
Cooling	4.11	4.39	4.17	4.01	4.23	4.01	4.17
Heating	4.23	4.48	4.94	4.71	4.52	4.71	4.94

Triple	FAHG50B X 3	FBQ50C X 3	FHA50A X 3	FFA50A X 3	FDX50F X 3	FBA50A X 3	FNA50A X 3
Cooling	4.40	4.17	4.67	4.43	4.67	4.43	4.67
Heating	4.48	4.94	5.67	4.39	4.61	4.94	4.61

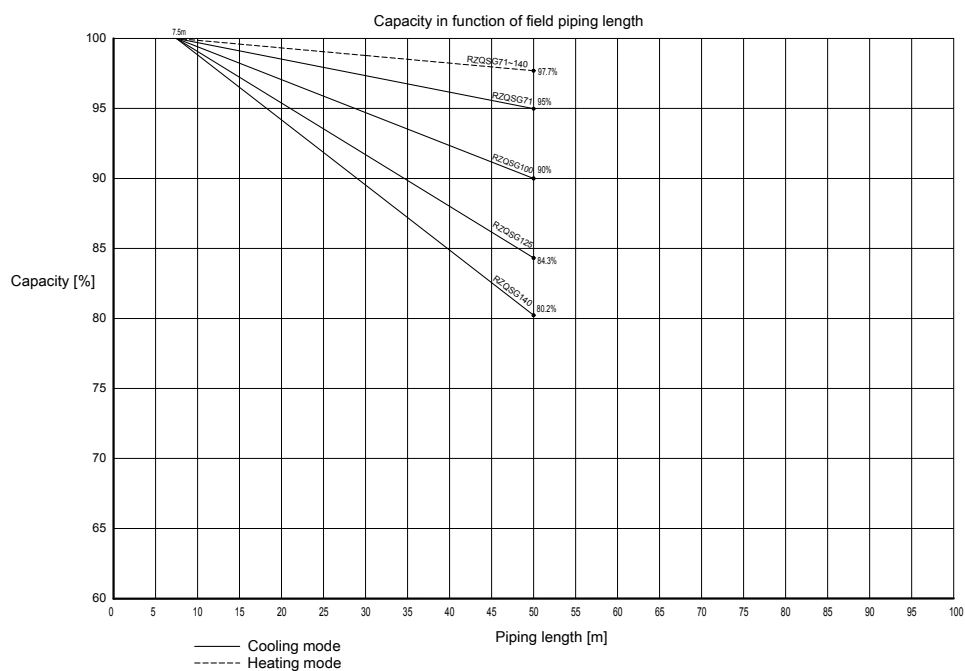
Double twin	FAHG35B X 4	FBQ35C X 4	FHA35A X 4	FFA35A X 4	FDX35F X 4	FBA35A X 4	FNA35A X 4
Cooling	4.36	4.17	4.85	4.11	4.85	4.11	4.85
Heating	4.54	4.94	5.57	4.05	6.09	4.94	6.09

3D076755H

6 Capacity tables

6 - 2 Capacity Correction Factor

RZQSG-L3/9V1

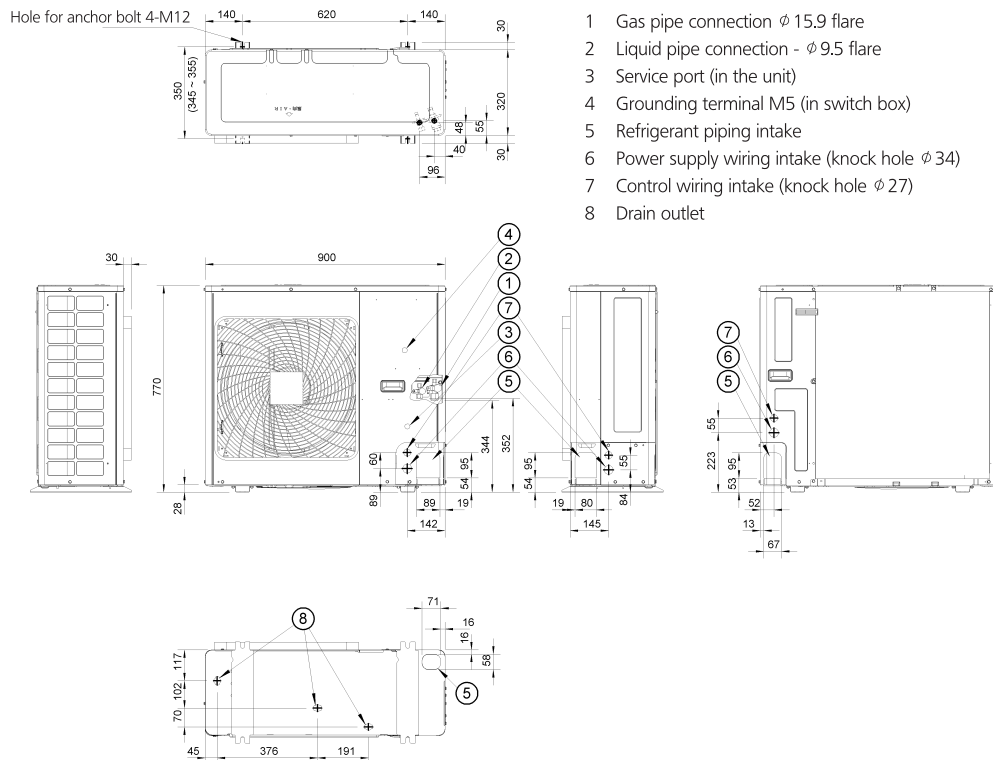


3D076247A

7 Dimensional drawings

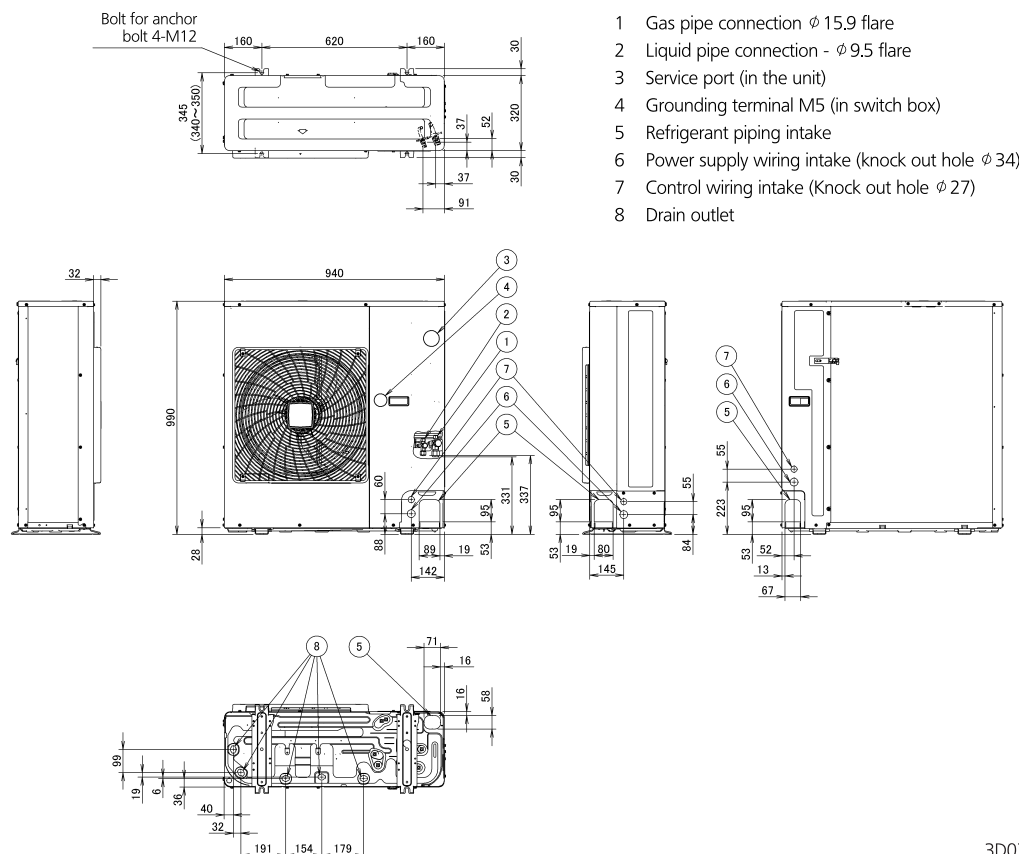
7 - 1 Dimensional Drawings

RZQSG71L3V1



3D082346

RZQSG100-125L9V1

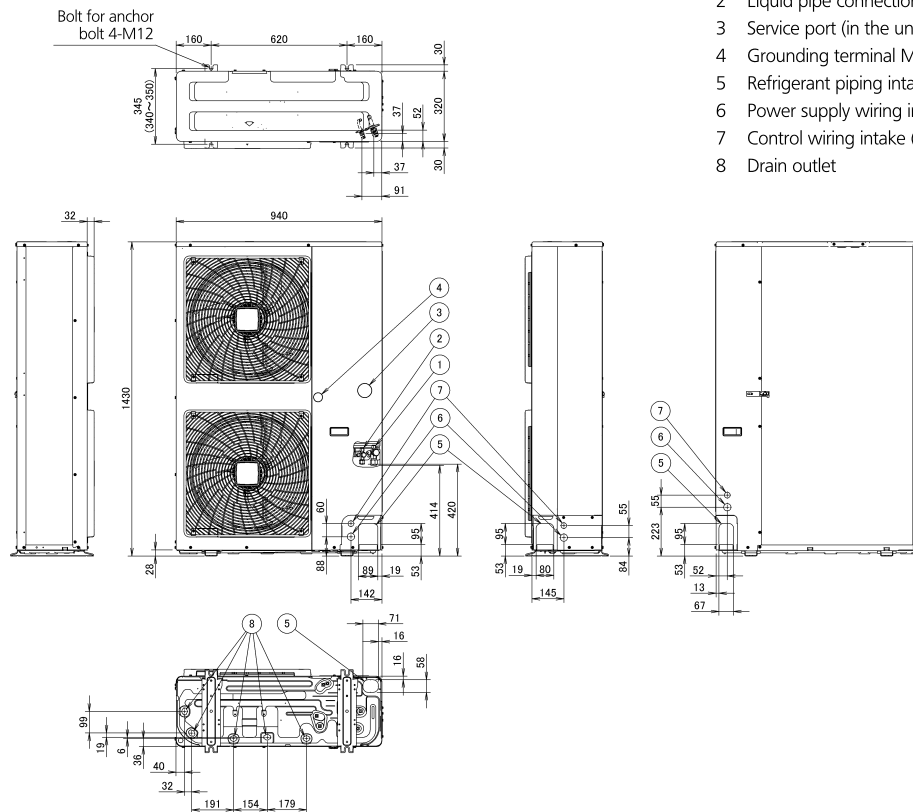


3D076345

7 Dimensional drawings

7 - 1 Dimensional Drawings

RZQSG140L9V1

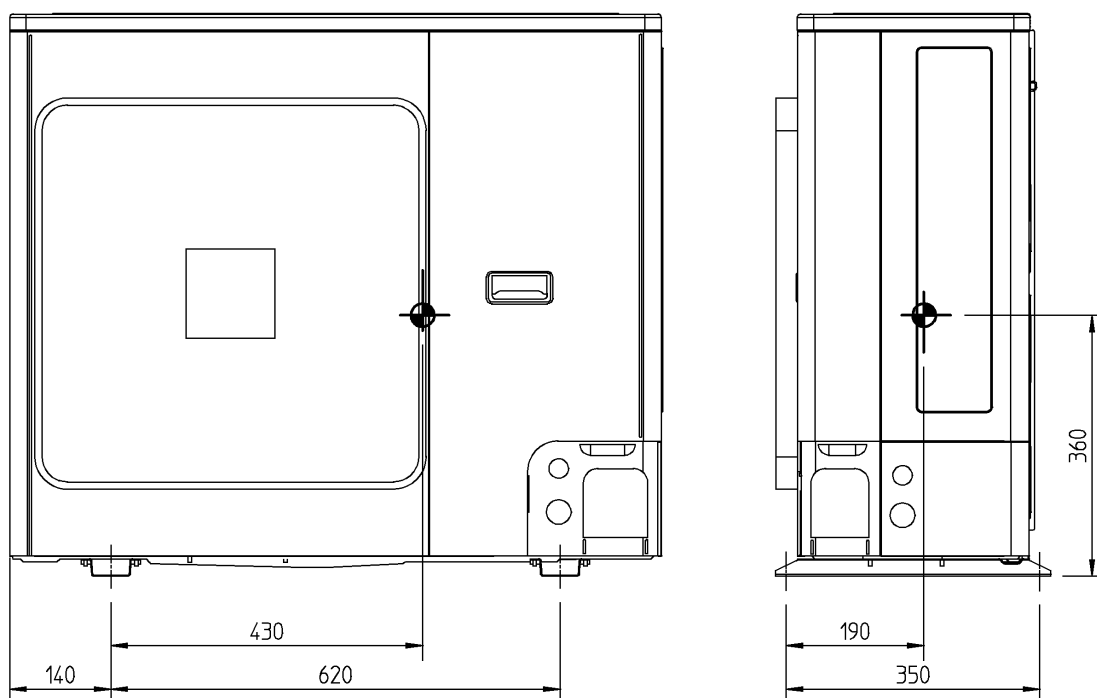


3D076346

8 Centre of gravity

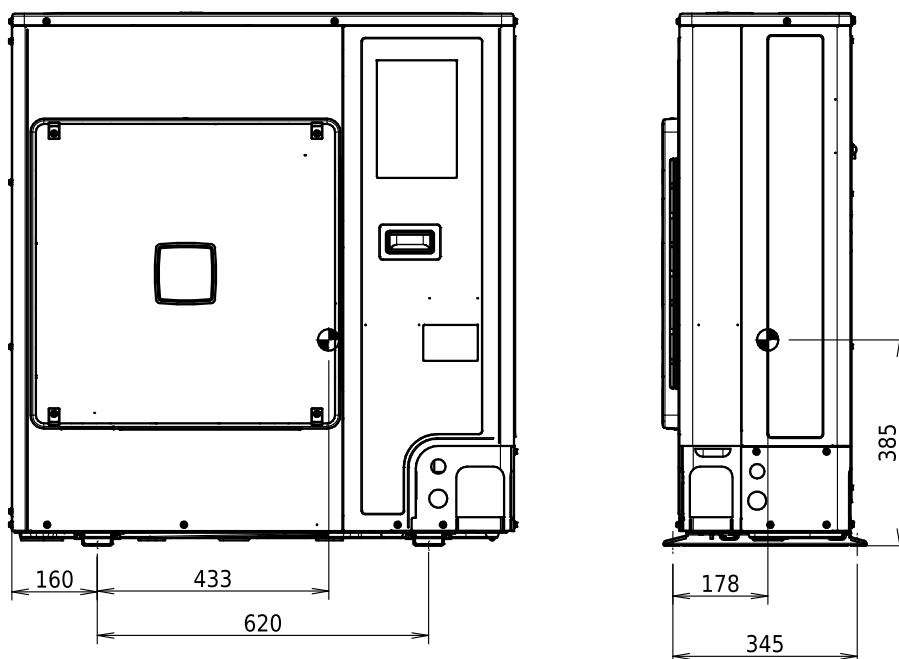
8 - 1 Centre of Gravity

RZQSG71L3V1



4TW30469-3

RZQSG100L9V1

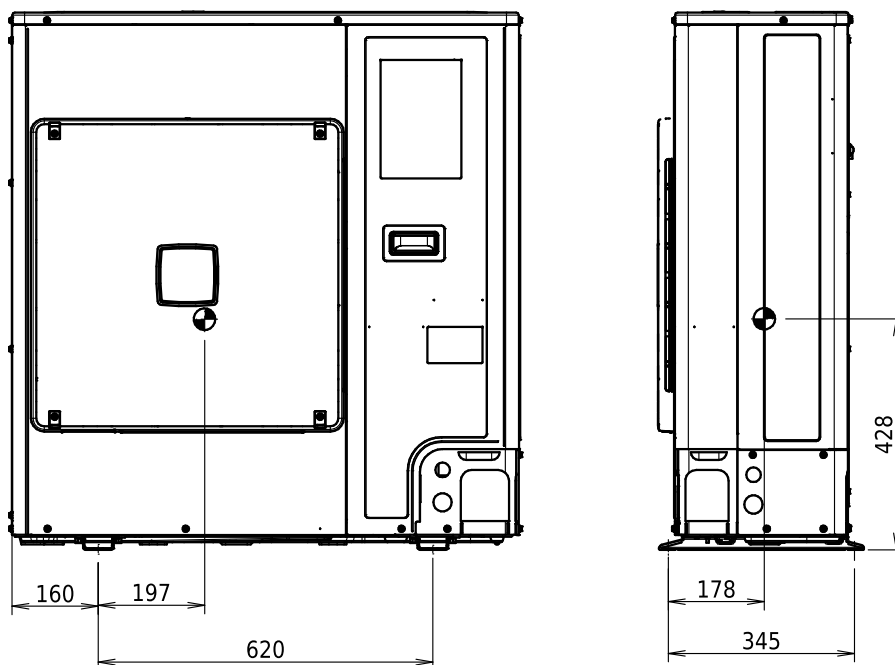


4D090895

8 Centre of gravity

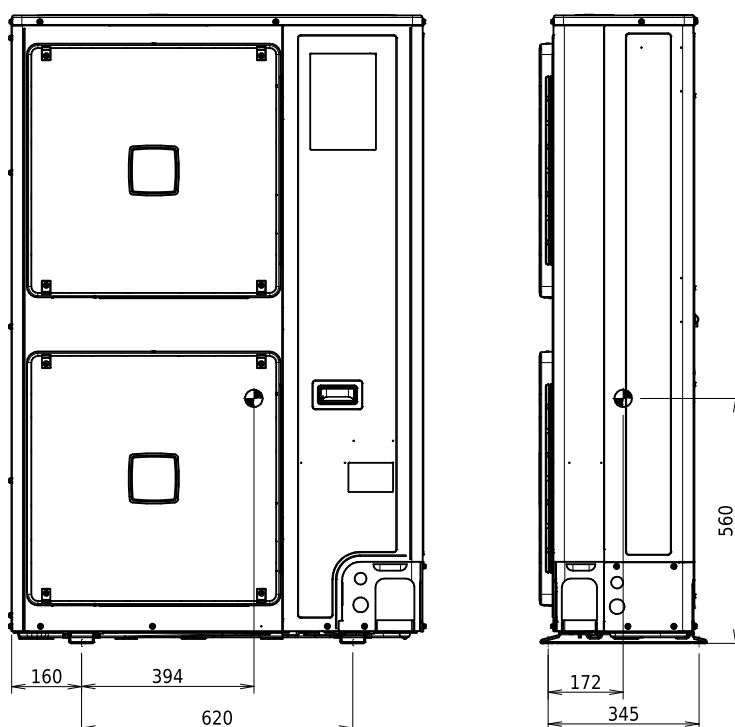
8 - 1 Centre of Gravity

RZQSG125L9V1



4D090896

RZQSG140L9V1

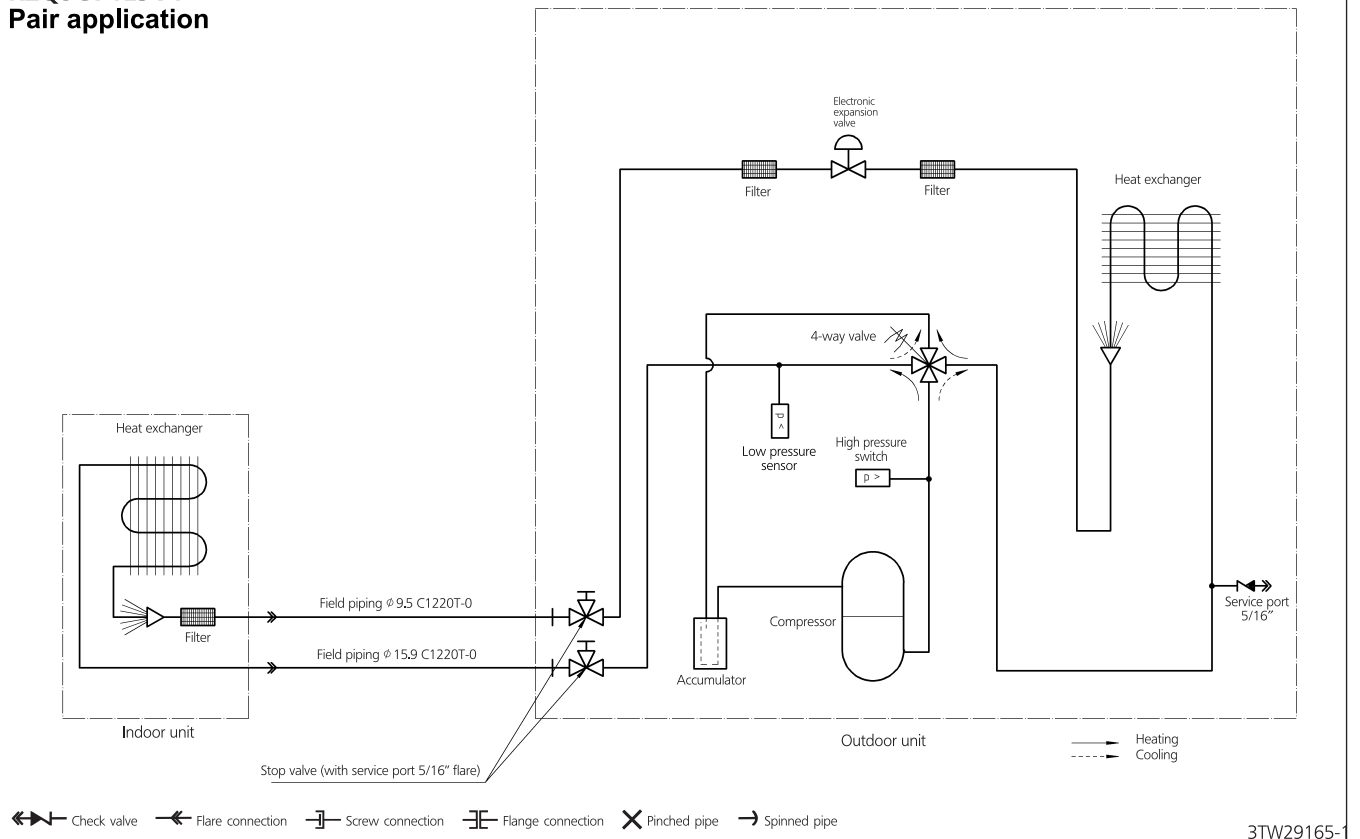


4D090897

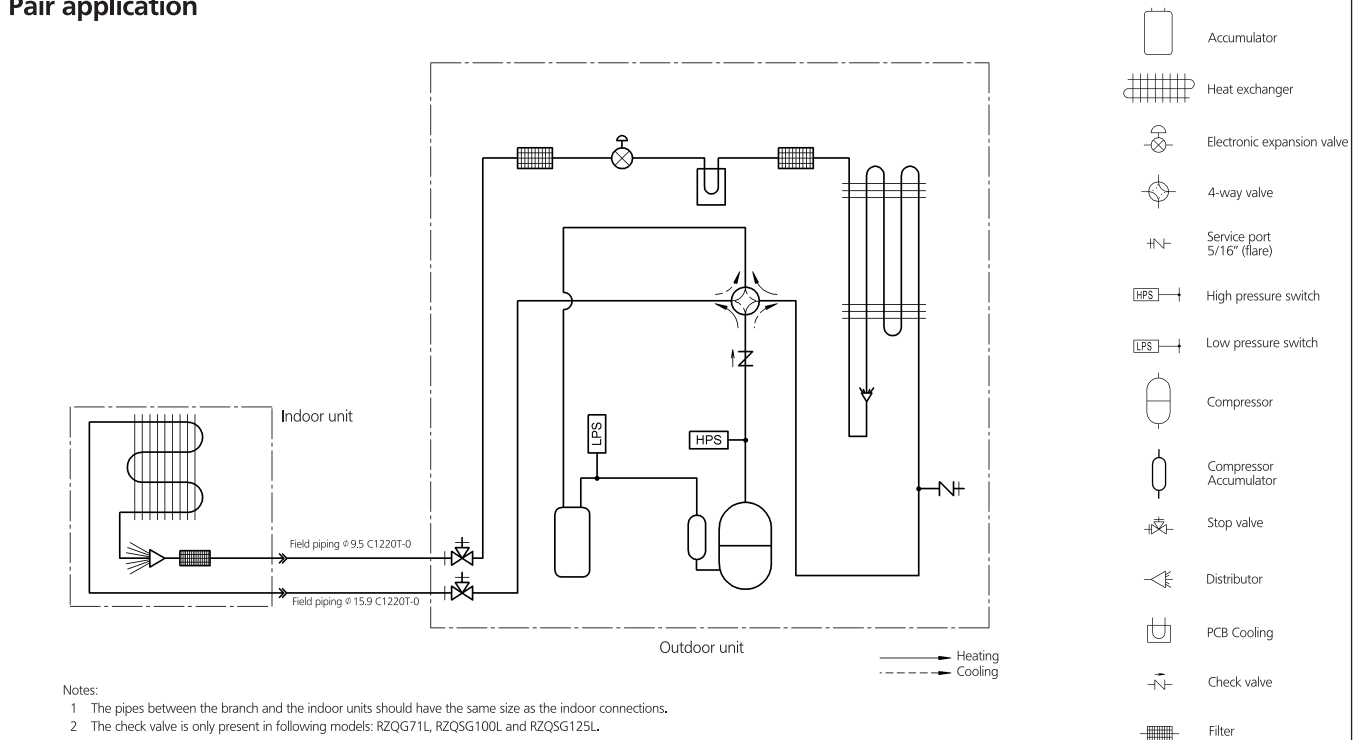
9 Piping diagrams

9 - 1 Piping Diagrams

RZQSG71L3V1 Pair application

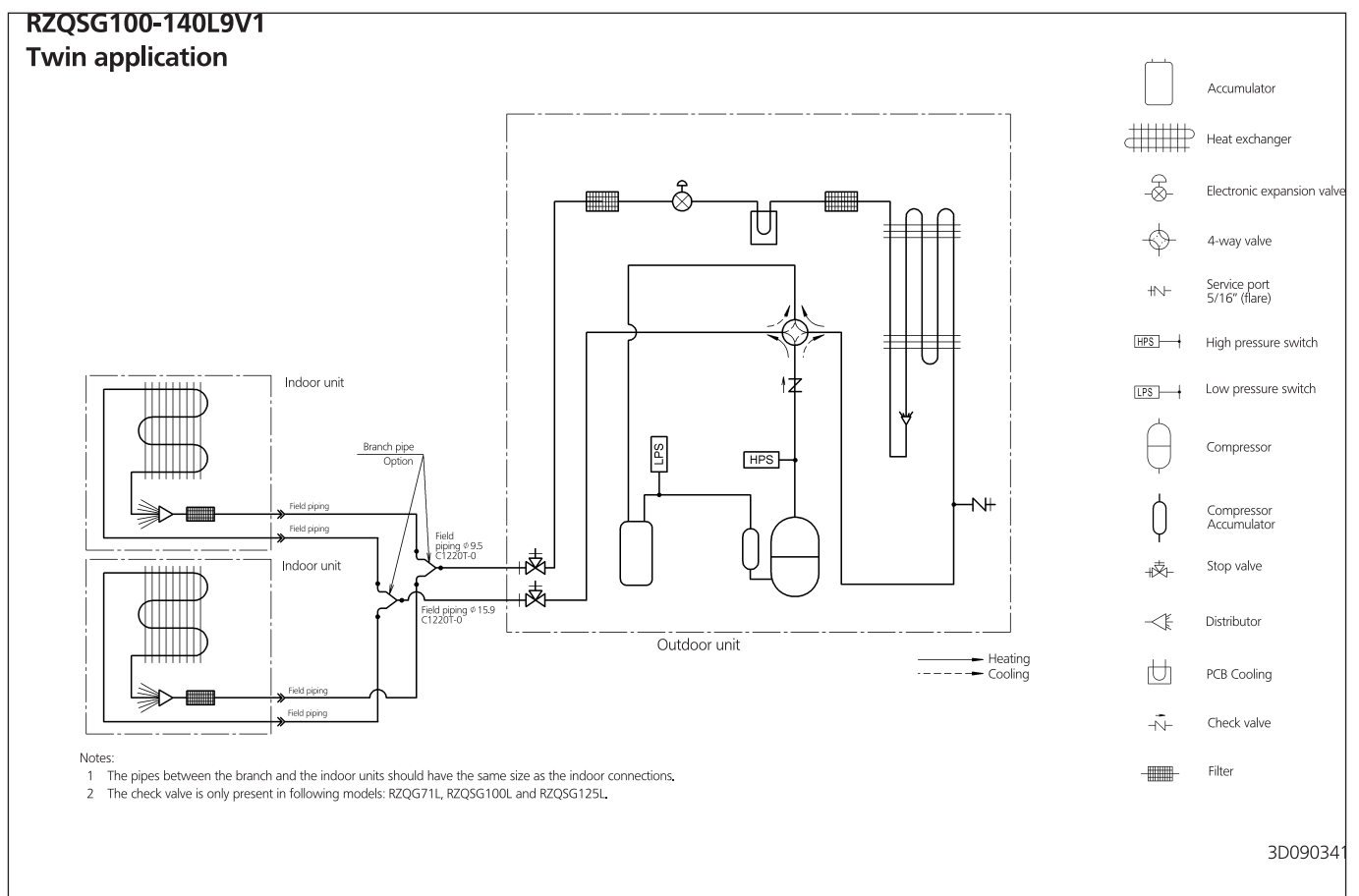
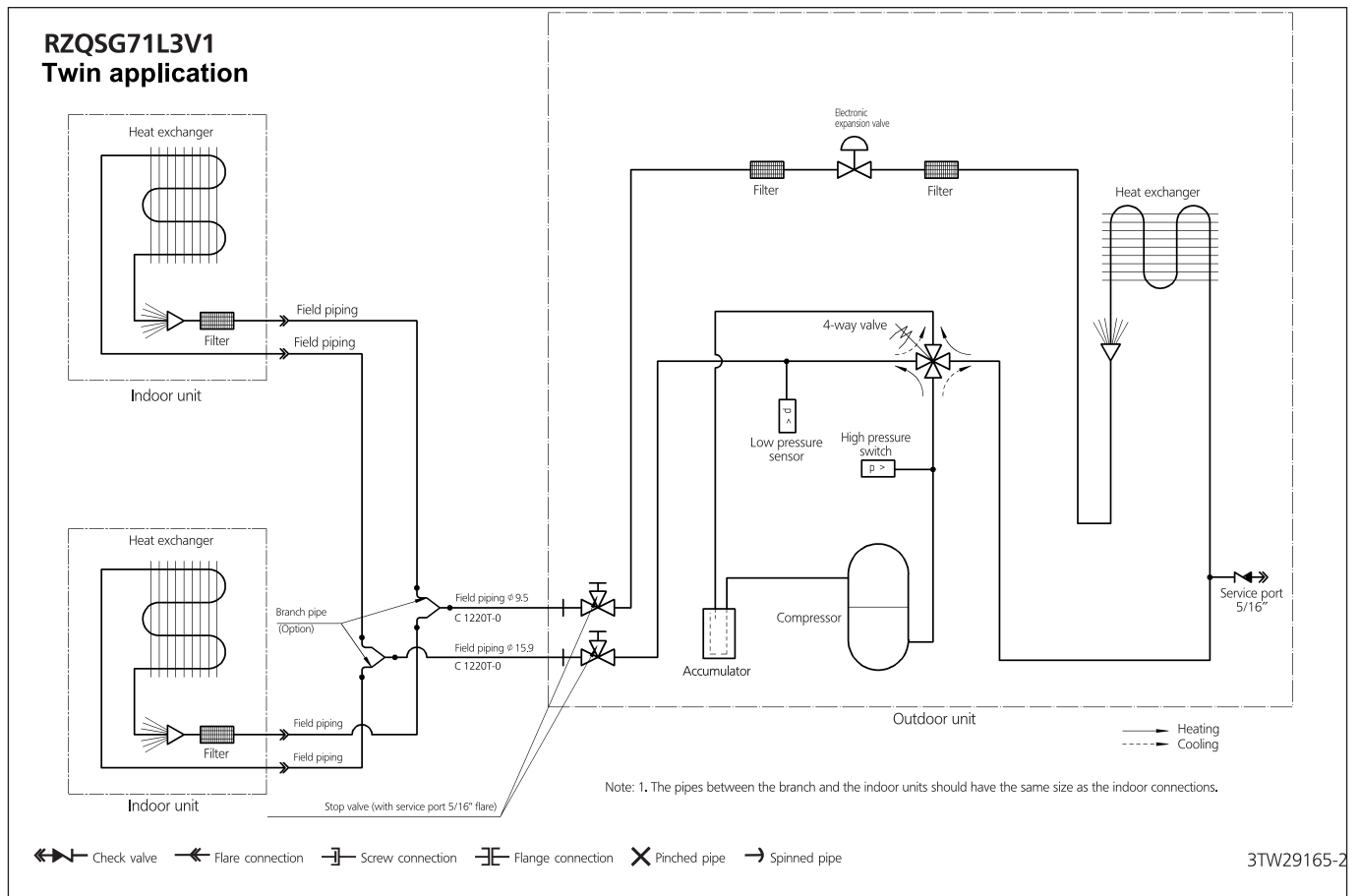


RZQSG100-140L9V1 Pair application



9 Piping diagrams

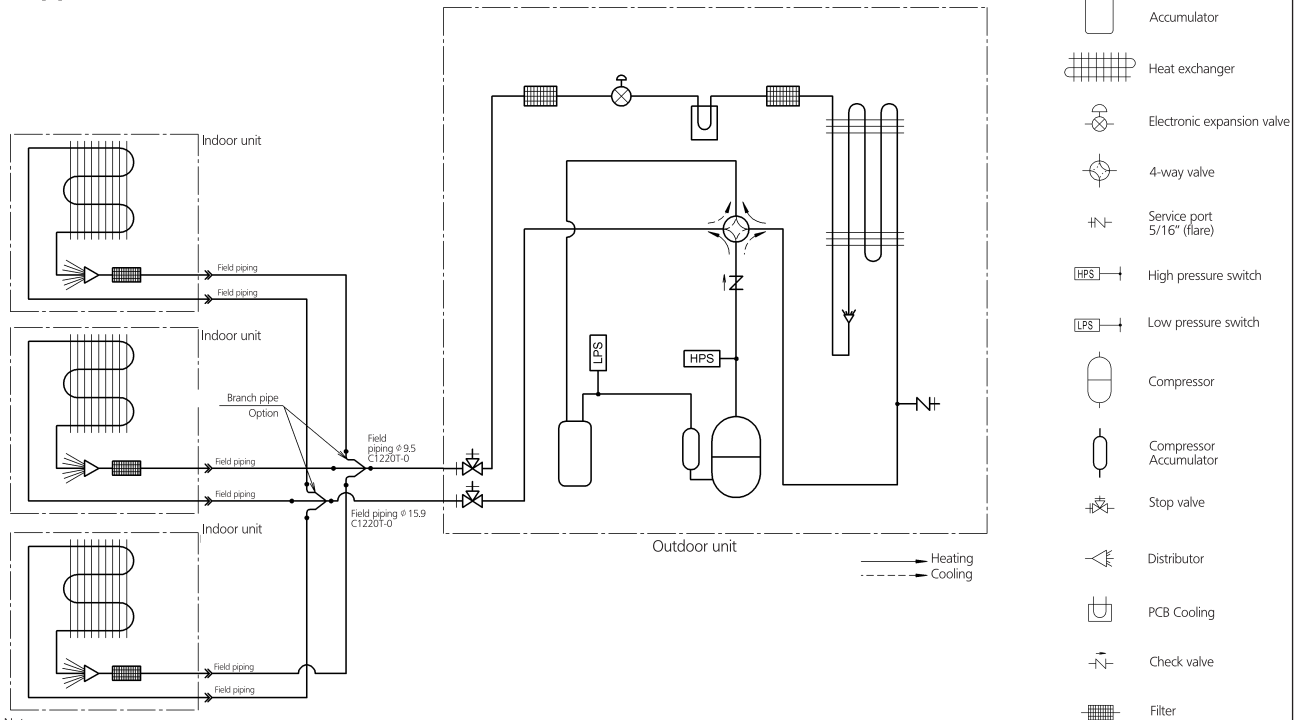
9 - 2 Piping Diagram Twin Application



9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZQSG100-140L9V1 Triple application



Notes:

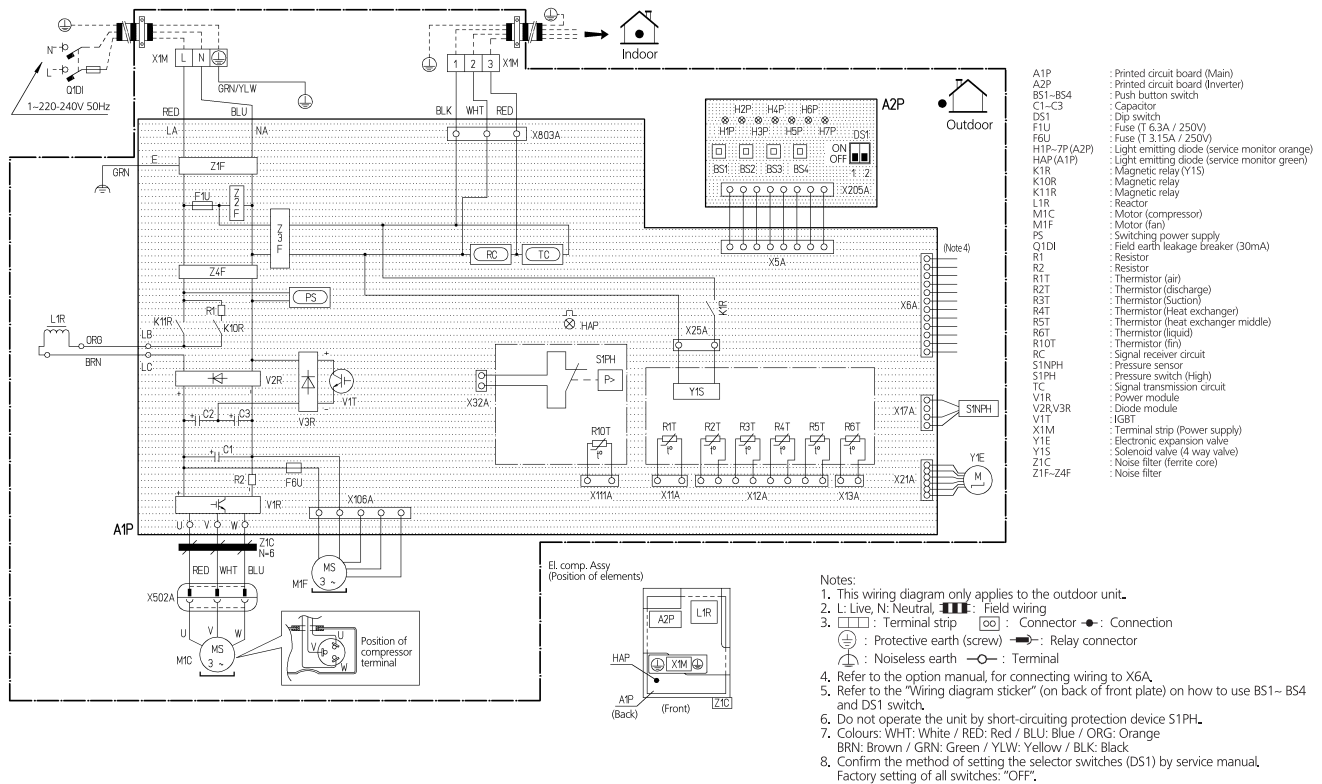
- 1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
- 2 The check valve is only present in following models: RZQSG100L and RZQSG125L.

3D090342

10 Wiring diagrams

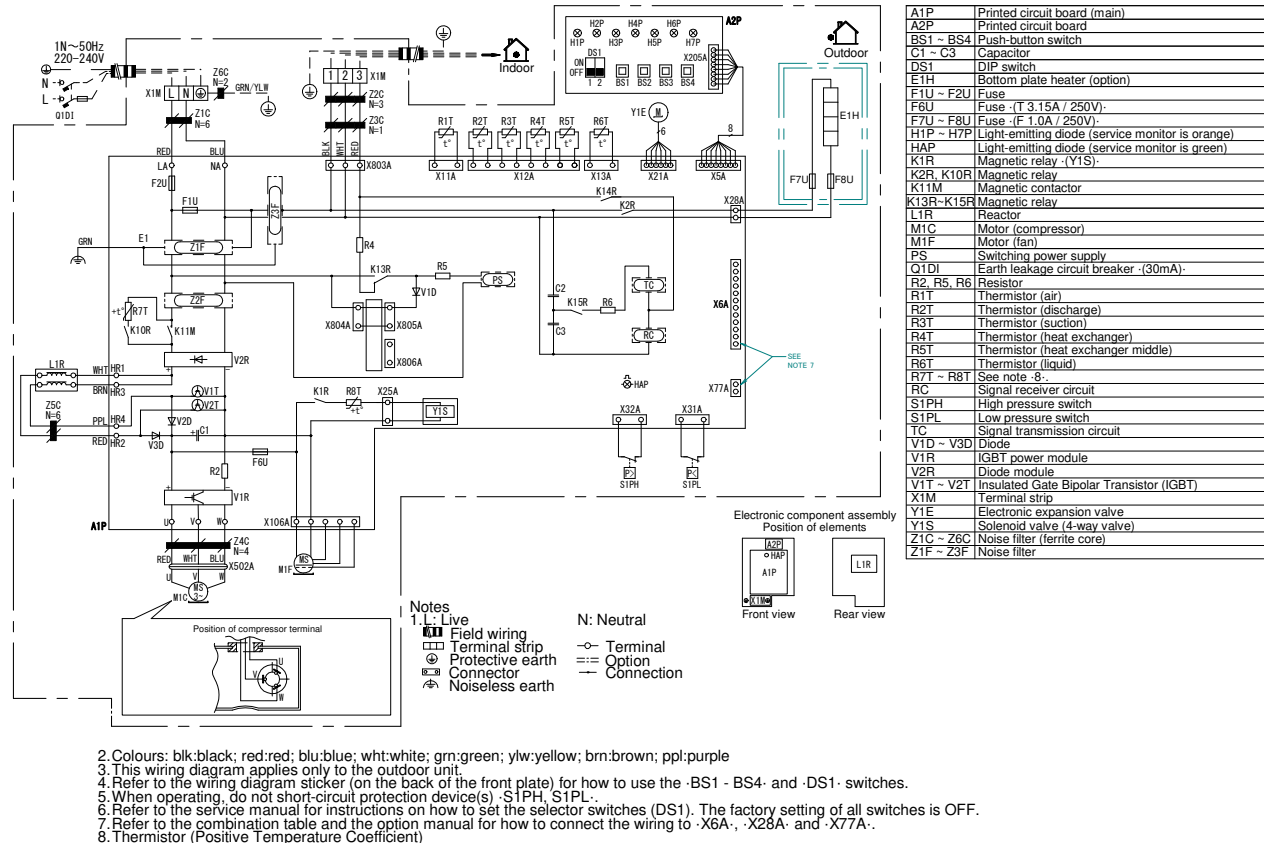
10 - 1 Wiring Diagrams - Single Phase

RZQSG71L3V1



2TW30466-1B

RZQSG100L9V1

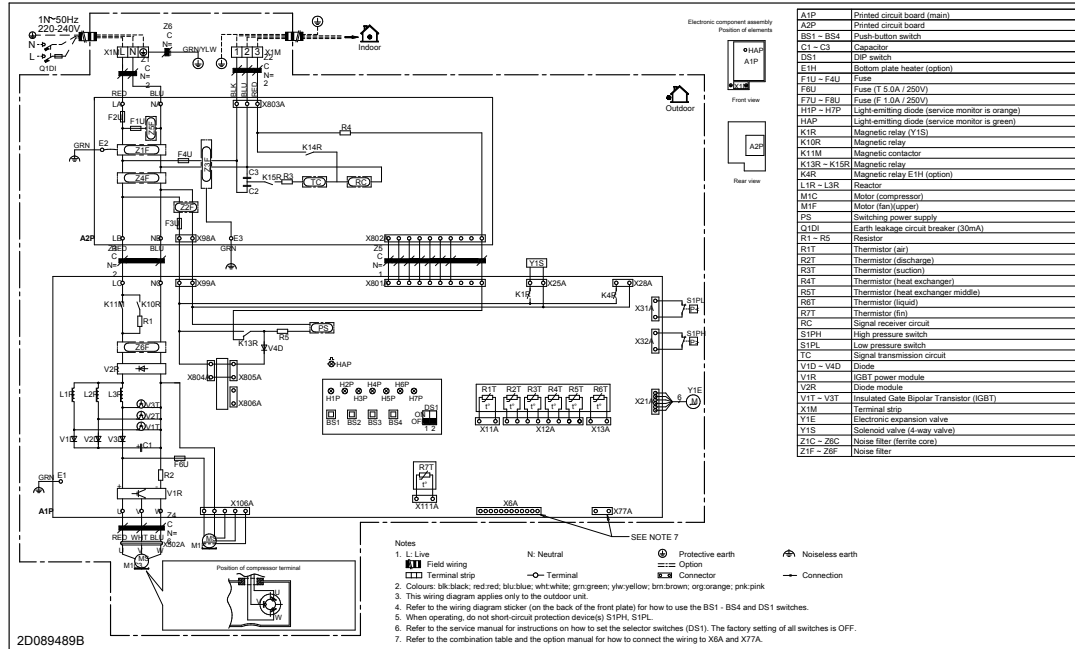


2D089497C

10 Wiring diagrams

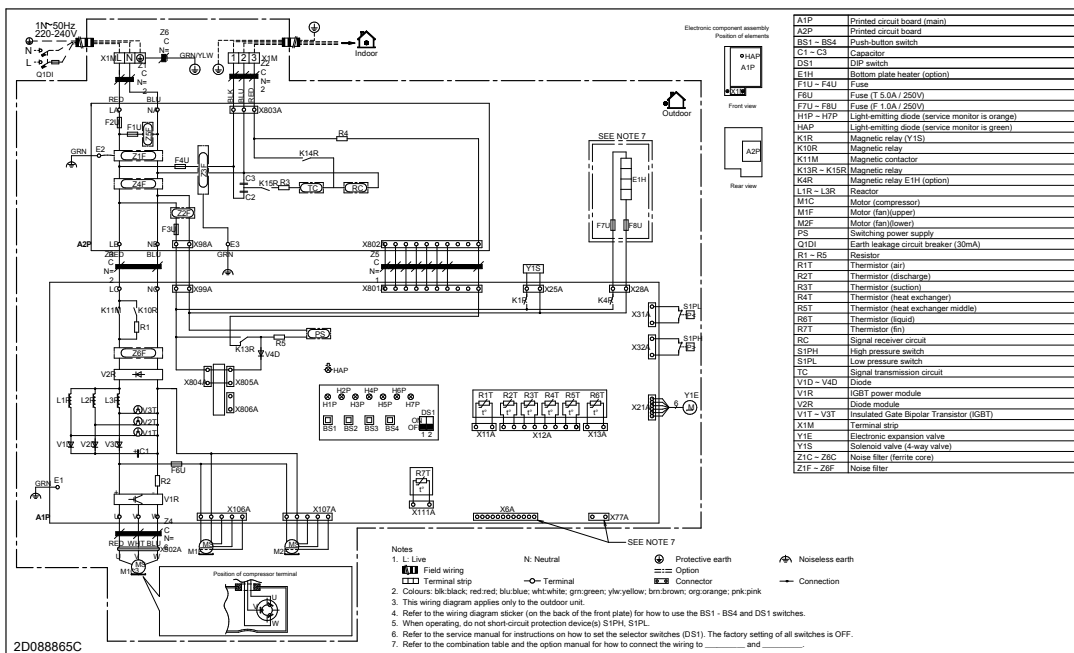
10 - 1 Wiring Diagrams - Single Phase

RZQSG125L9V1



2D089489B

RZQSG140L9V1

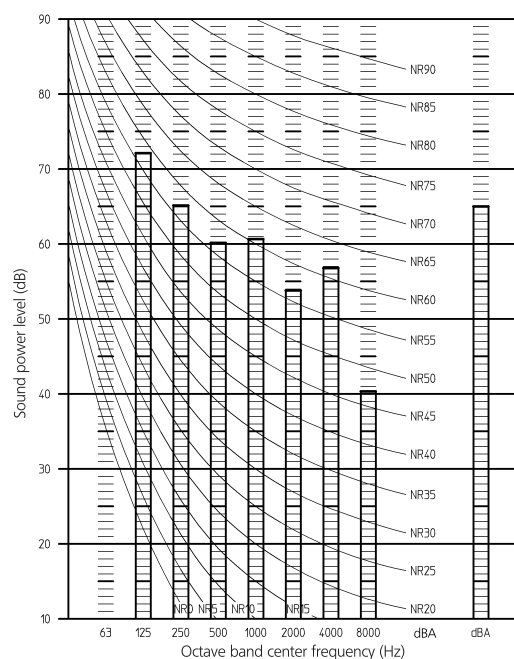


2D088865C

11 Sound data

11 - 1 Sound Power Spectrum

RZQSG71L3V1



NOTES

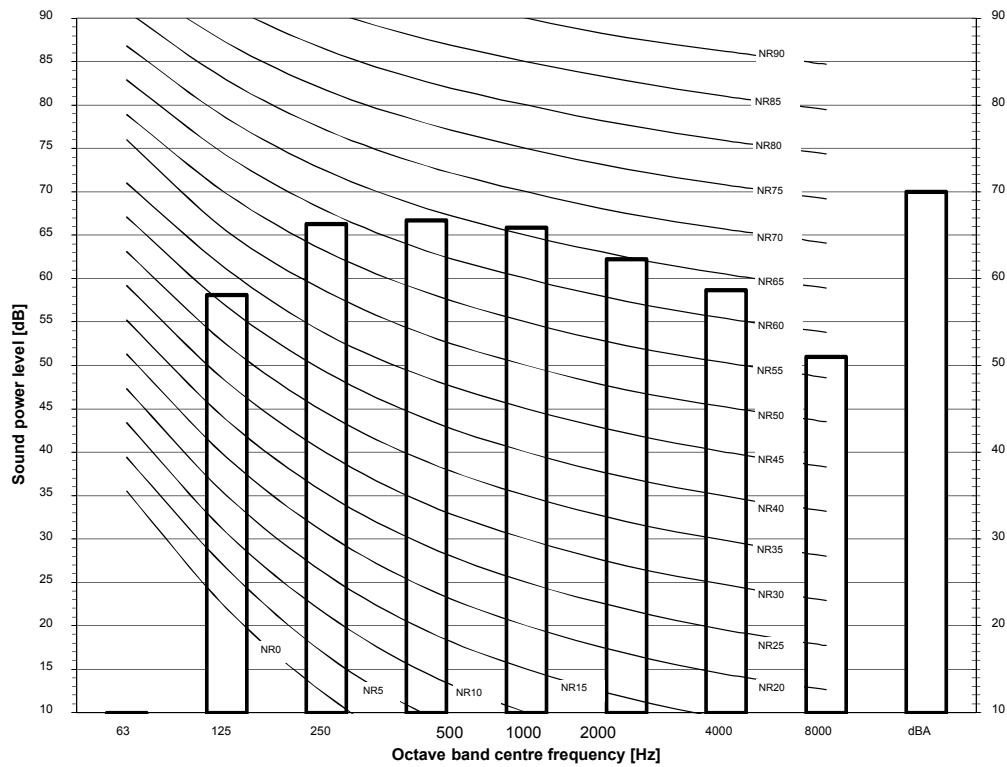
- 1 dB(A) = A-weighted sound power level (A-scale according to IEC)
- 2 Reference acoustic intensity $0\text{ dB} = 10\text{E-}6\mu\text{W/m}^2\text{0}$
- 3 Measured according ISO3744

3TW30467-3

11 Sound data

11 - 1 Sound Power Spectrum

RZQSG100L9V1



Notes

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

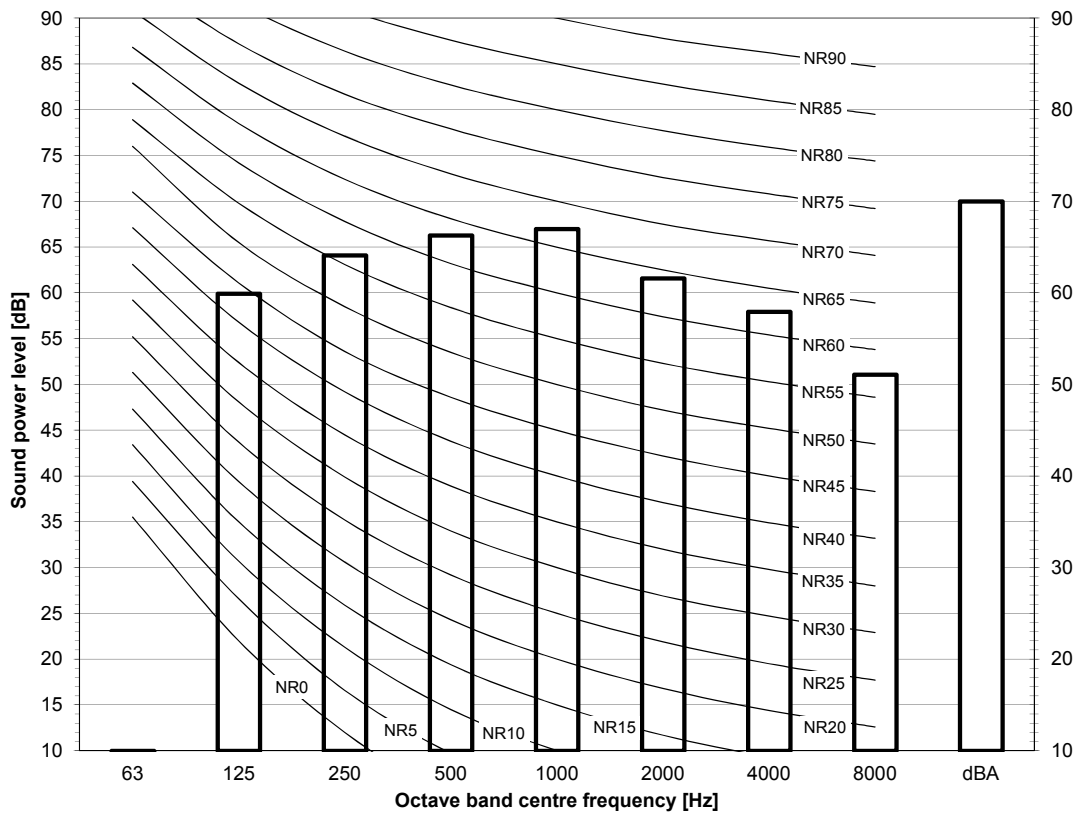
3D090851A

11 Sound data

11 - 1 Sound Power Spectrum

11

RZQSG125L9V1



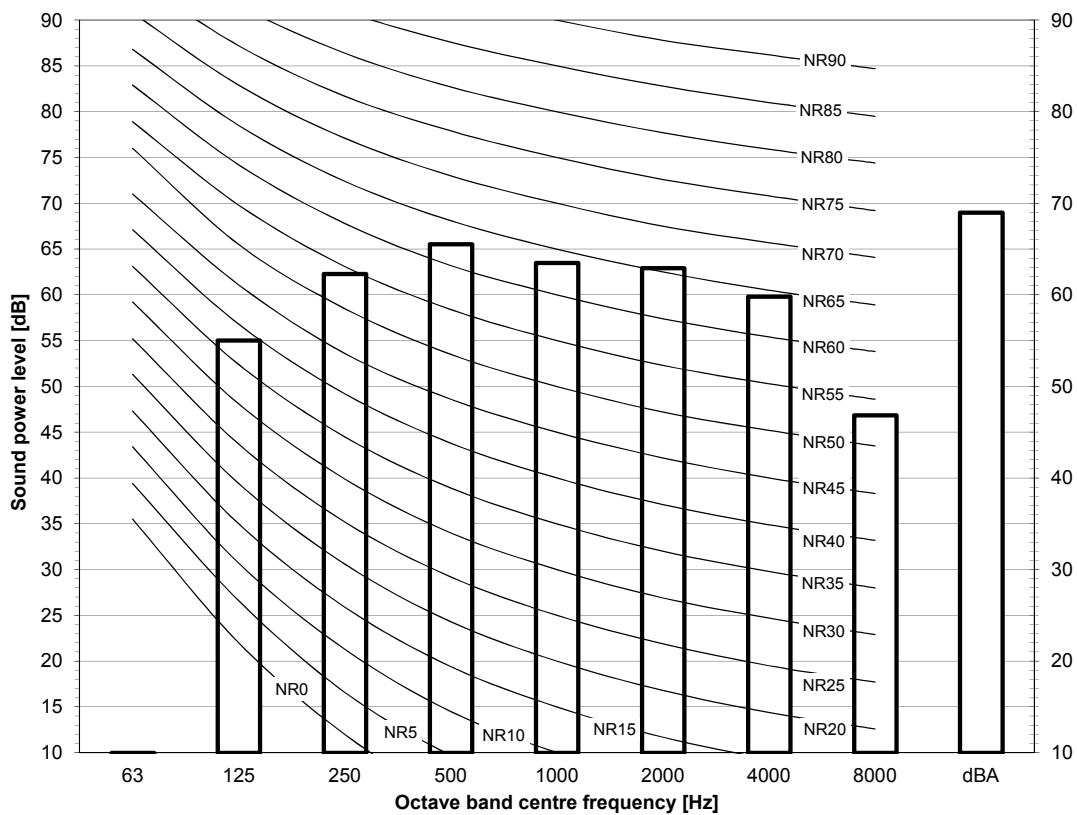
Notes
 - dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity $O_{dB} = 10E-6 \mu W/m^2$
 - Measured according to ISO 3744

3D090852A

11 Sound data

11 - 1 Sound Power Spectrum

RZQSG140L9V1



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

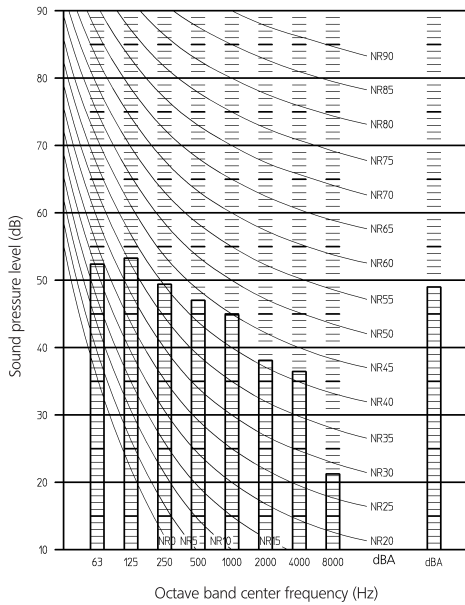
3D090853A

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

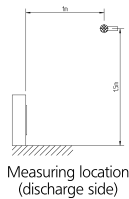
11

RZQSG71L3V1



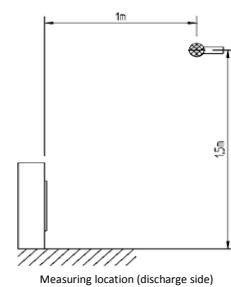
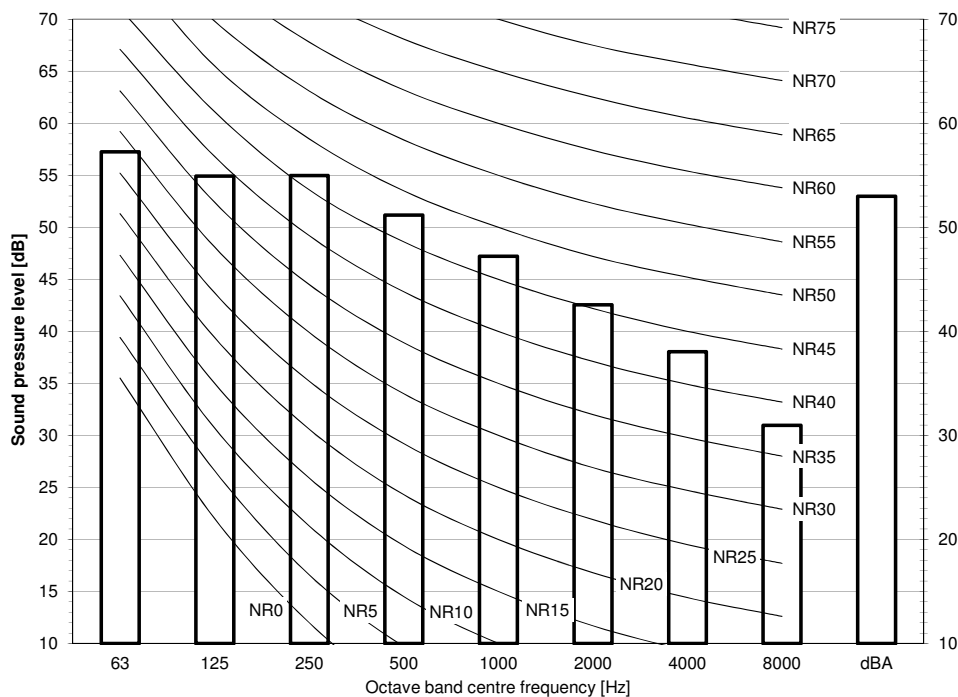
NOTES

- 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 pressure 0dB = 20μPa



3TW30467-1

RZQSG100L9V1



- 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

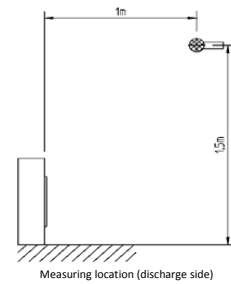
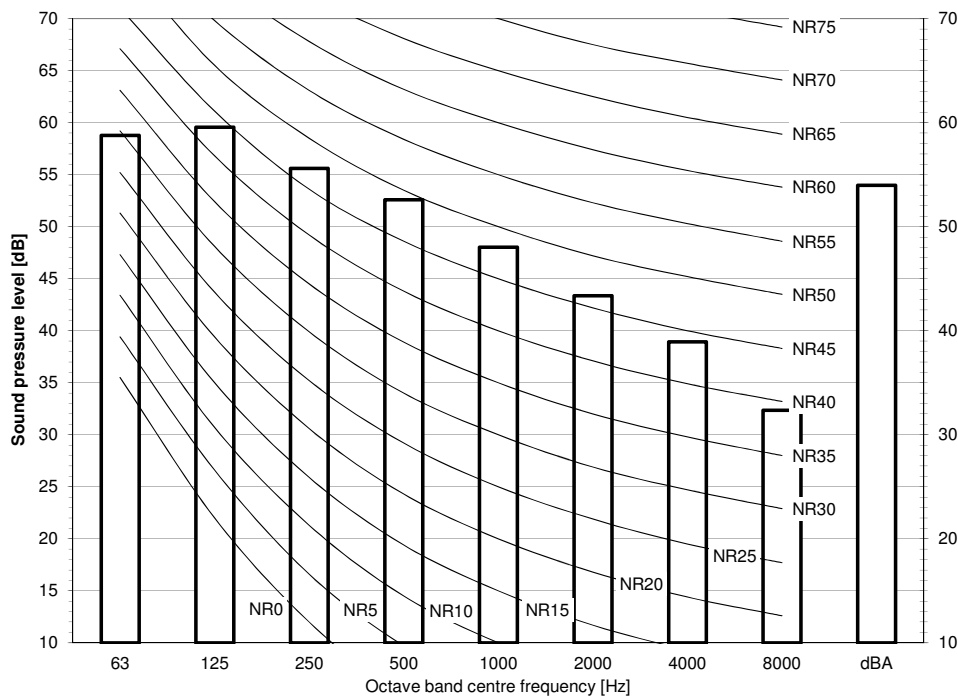
3D090881

42

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

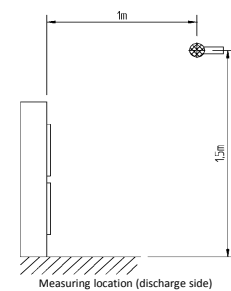
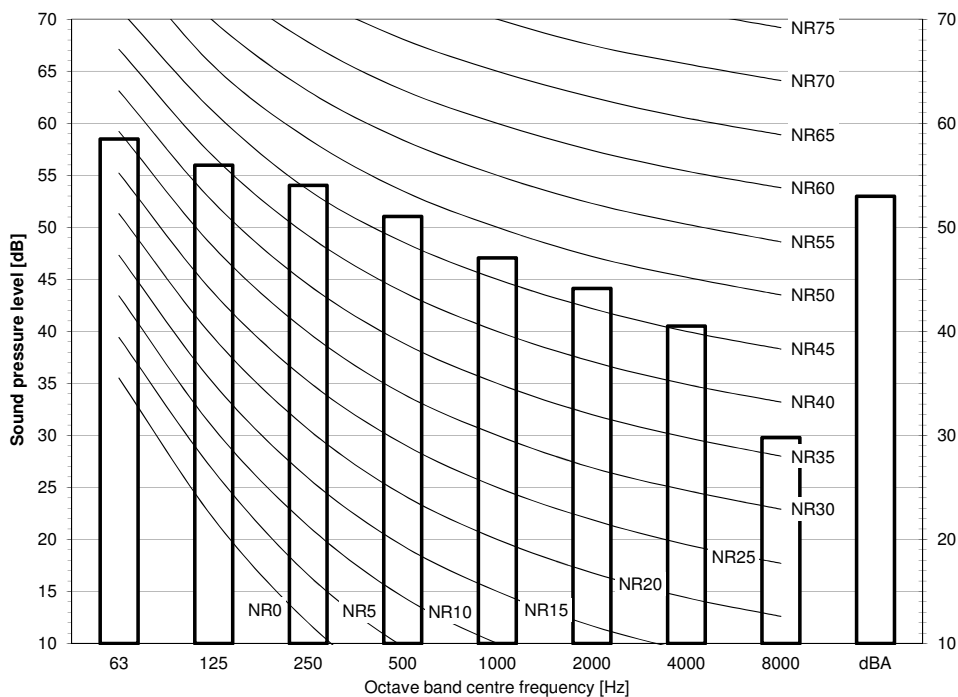
RZQSG125L9V1



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

3D090882

RZQSG140L9V1



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

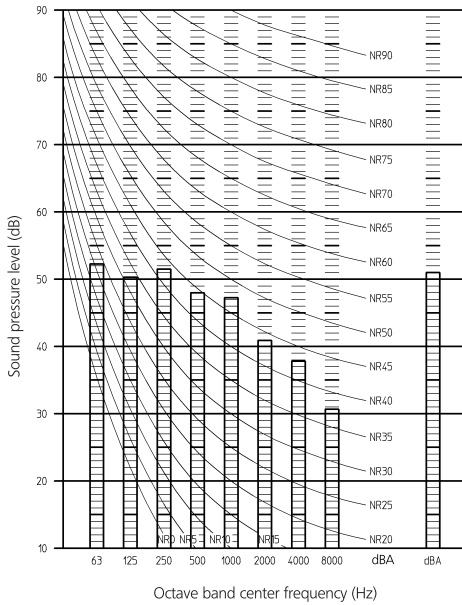
3D090883

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

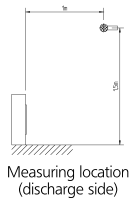
11

RZQSG71L3V1



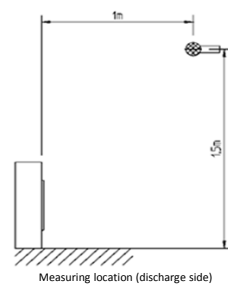
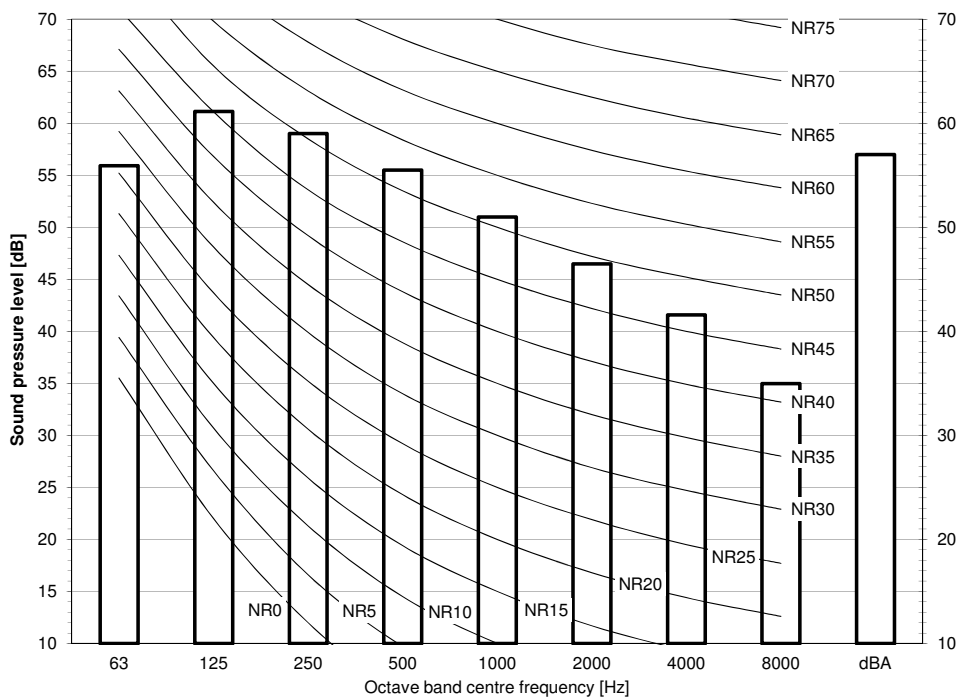
NOTES

- 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 pressure 0dB = 20μPa



3TW30467-2

RZQSG100L9V1



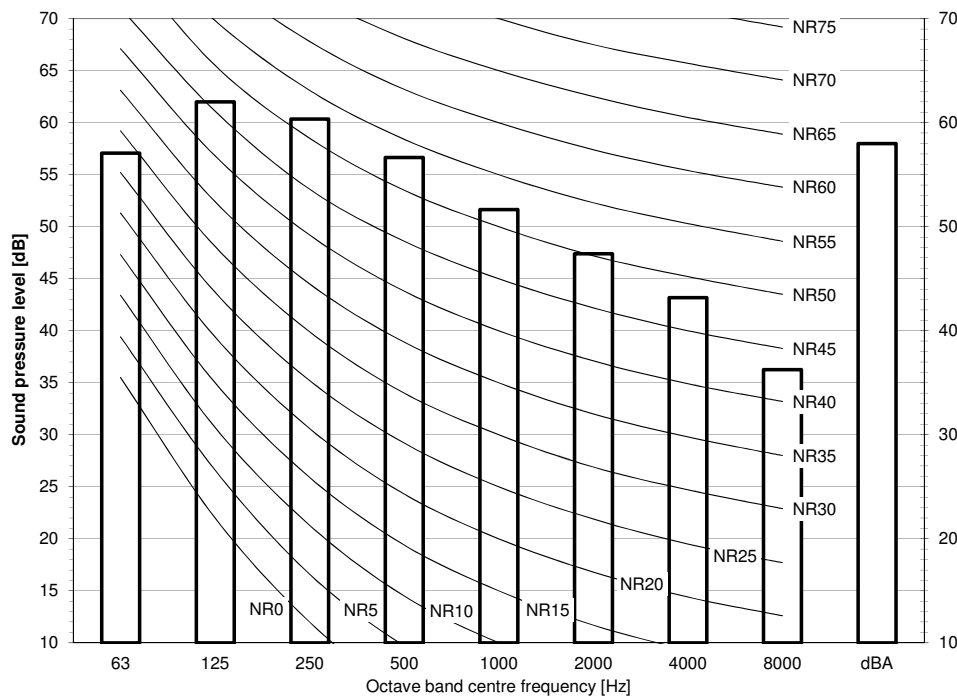
- Notes
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 μPa

3D090871

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZQSG125L9V1

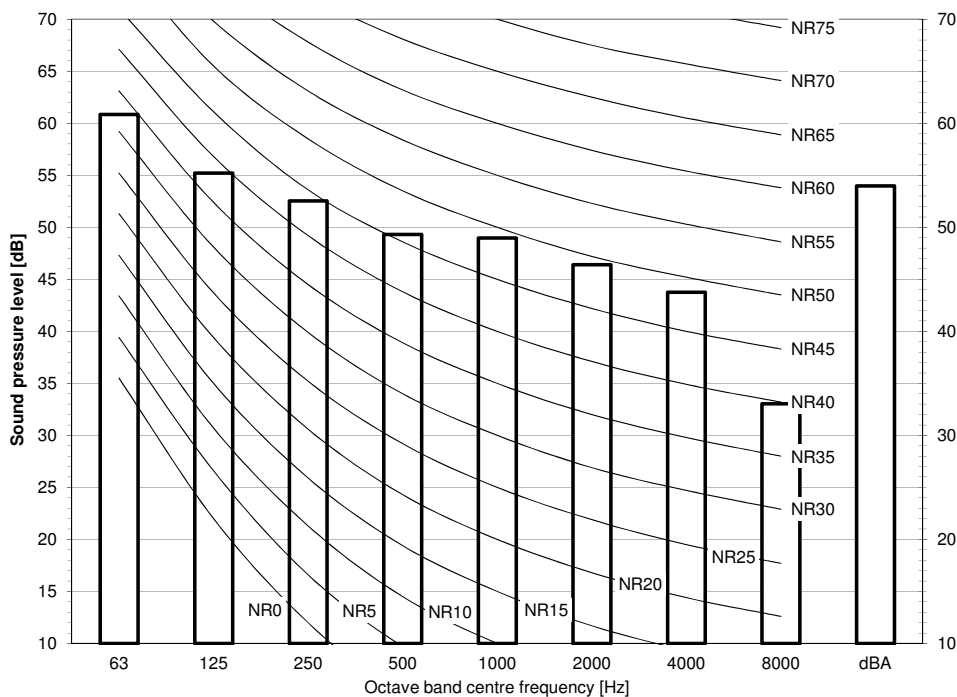


Notes

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

3D090872

RZQSG140L9V1



Notes

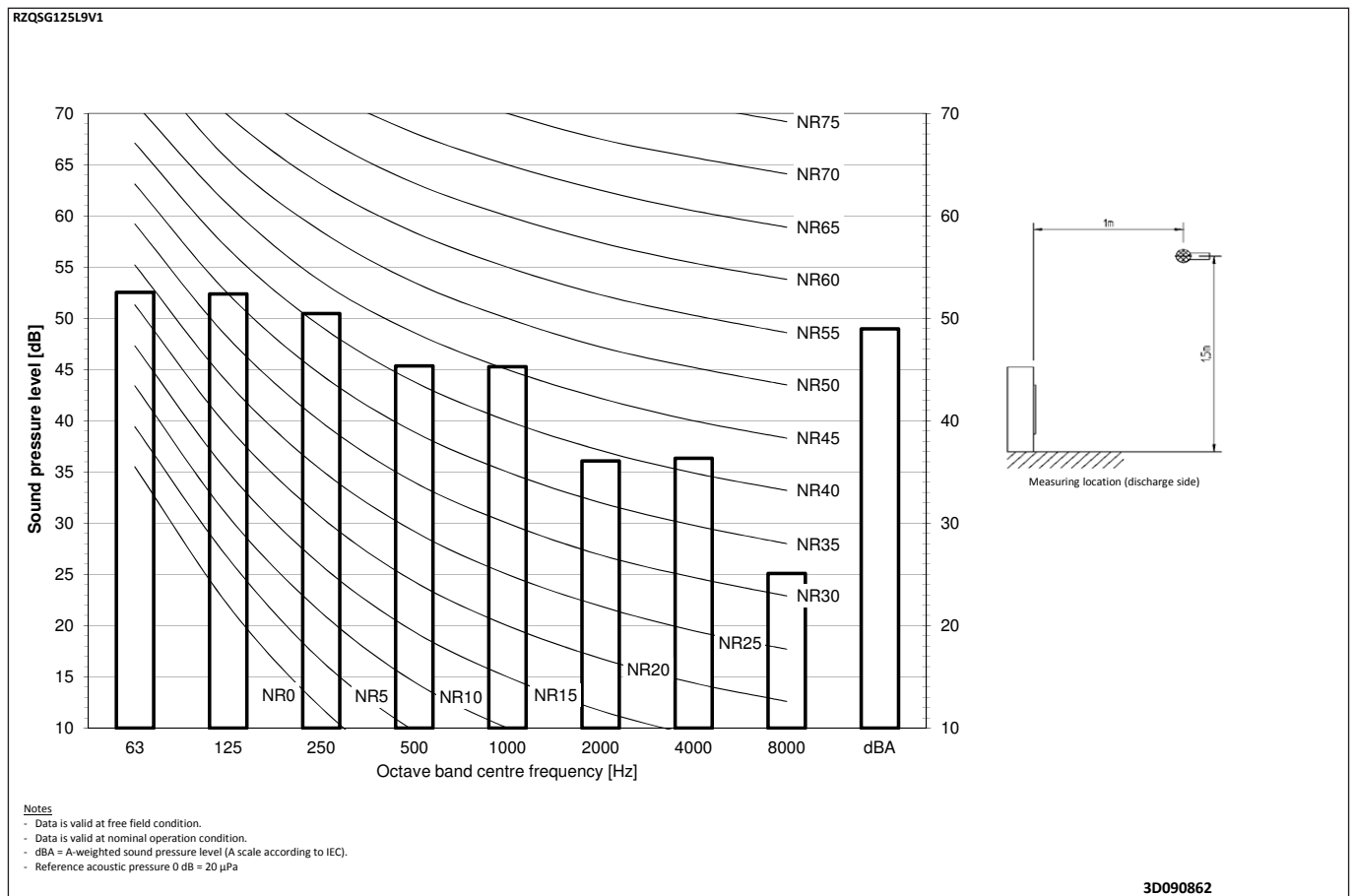
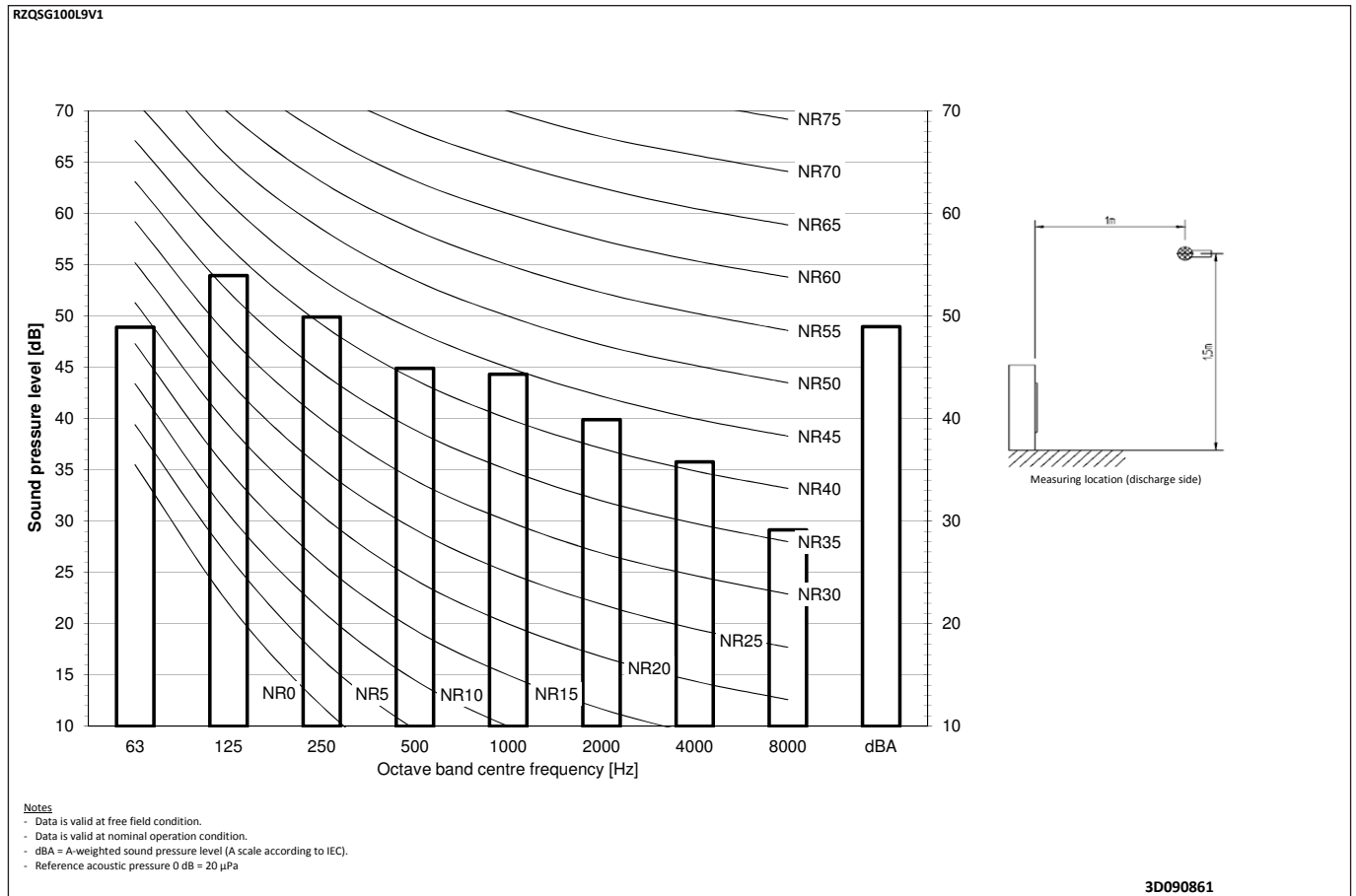
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D090873

11 Sound data

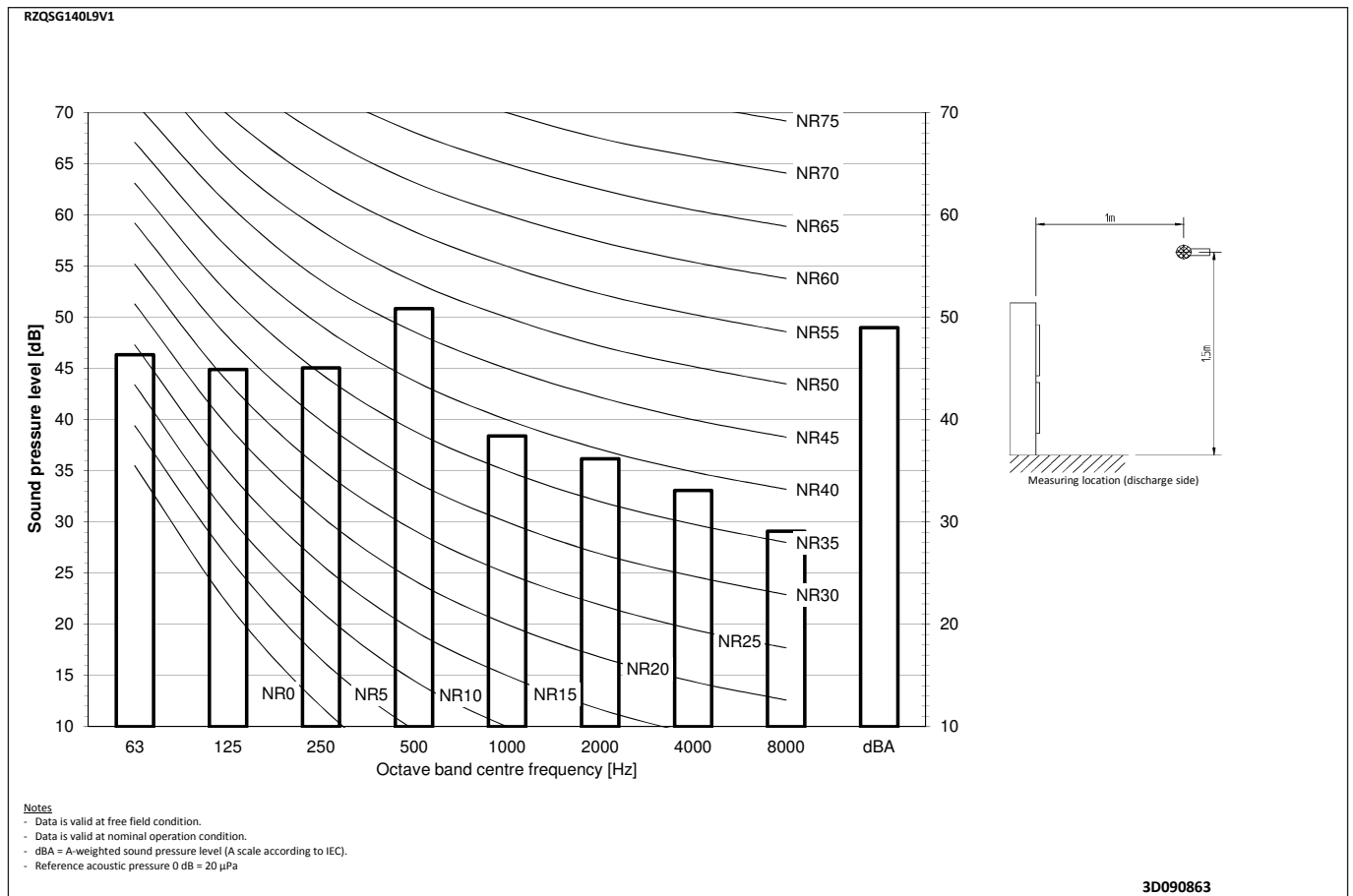
11 - 4 Sound Pressure Spectrum Quiet Mode

11



11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode



12 Installation

12 - 1 Installation Method

12

RZQSG100-140L9V1

Installation service space

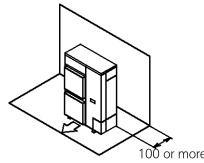
The measure of these values is "mm".

(A) When there are obstacles on suction sides.

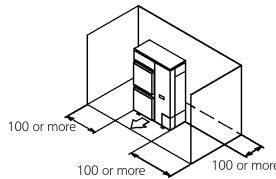
• No obstacle above

① Stand-alone installation

- Obstacle on the suction side only

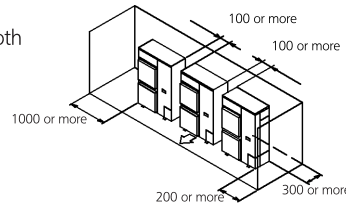


- Obstacle on both sides and suction side, too



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

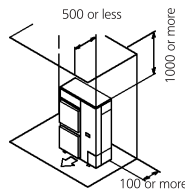
- Obstacle on the suction side and both sides



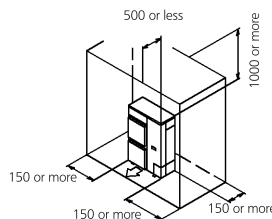
• Obstacle above, too.

① Stand-alone installation

- Obstacle on the suction side, too

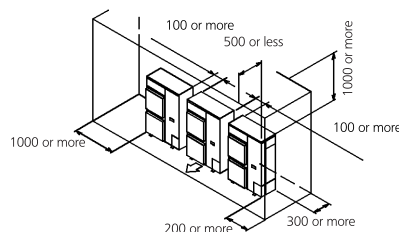


- Obstacle on both sides and suction side, too



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

- Obstacle on the suction side and both sides

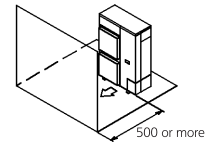


(B) When there are obstacles on discharge sides.

• No obstacle above

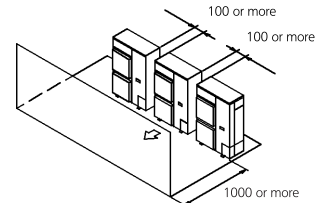
① Stand-alone installation

- Obstacle on the discharge side only



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

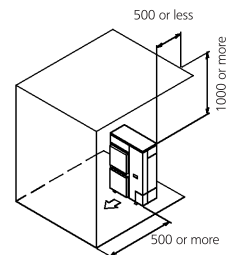
- Obstacle on the discharge side only



• Obstacle above, too

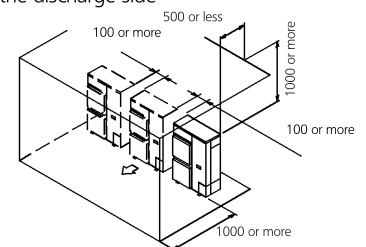
① Stand-alone installation

- Obstacle on the discharge side only, too



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

- Obstacle on the discharge side



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

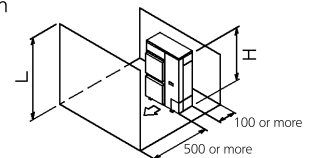
Pattern 1

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

• No obstacle above

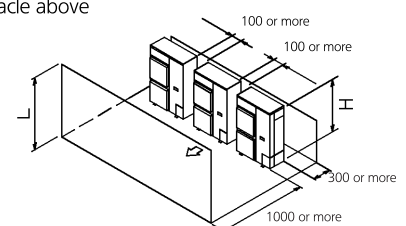
① Stand-alone installation

- No obstacle above



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

- No obstacle above



3D069554

12 Installation

12 - 1 Installation Method

RZQSG100-140L9V1

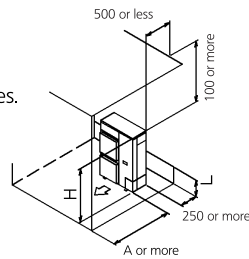
● Obstacle above, too

① Stand-alone installation (Note 2)

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

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

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



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

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

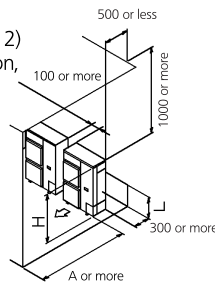
The relations between H, A and L are as follows.

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

Limit of series installation is 2 units.

Pattern 2

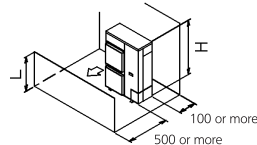
When the obstacle on the discharge side is lower than the unit ($L \leq H$)
(There is no limit for the height of obstructions on the suction side.)



● No obstacle above

① Stand-alone installation

- No obstacle above

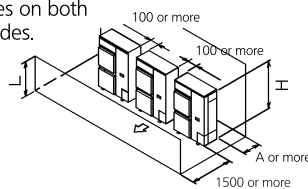


② Series installation (2 or more) (Note 1, 2)

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

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

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



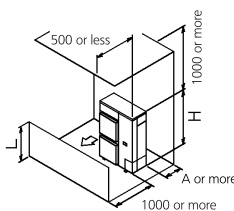
● Obstacle above, too

① Stand-alone installation (Note 2)

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

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

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



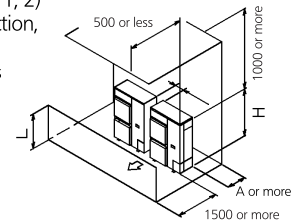
② Series installation (2 or more) (Note 1, 2)

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

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

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

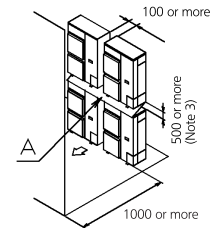
Limit of series installation is 2 units.



(D) Double-decker installation

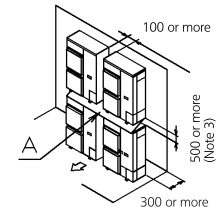
① Obstacle on the discharge side. (Note 1)

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



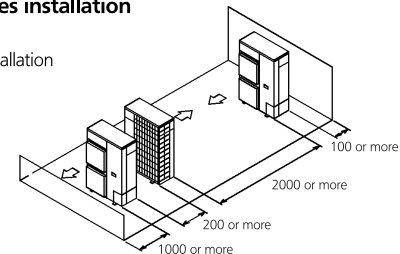
② Obstacle on the suction side. (Note 1)

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



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

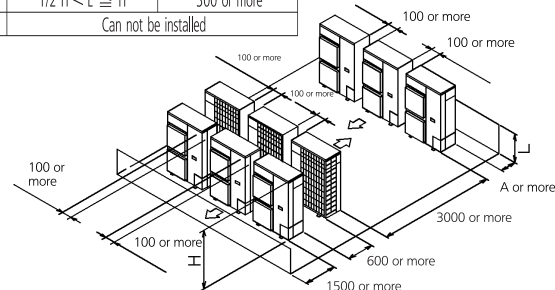
① One row of stand-alone installation



② Rows of series installation (2 or more)

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

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



NOTES

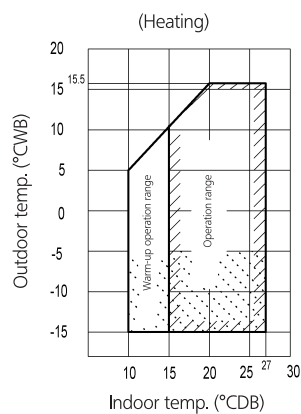
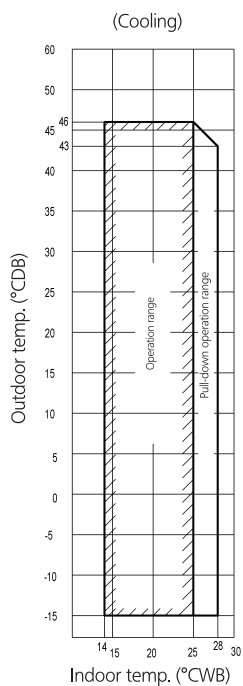
- In case of the sideways piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between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

3D069554

13 Operation range

13 - 1 Operation Range

RZQSG-L3/9V1



Notes:

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

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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

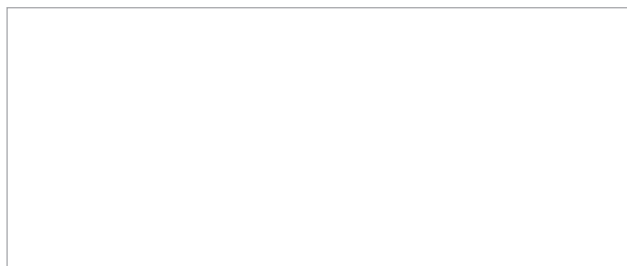
Covered by ·ENER LOT21·

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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