

Air Conditioning
Technical Data

RZQSG-L(8)Y1



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RZQSG-L(8)Y1

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1 Features

Technology and comfort combined for commercial applications

- 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 conditions
- Re-use of existing R-22 or R-407C technology
- 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
- Compatibility with D-BACS
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.



Inverter



Auto cooling-
heating
changeover

2 Specifications

2-1 Capacity and Power input			FCQG100F/RZQSG100L8Y1	FCQG125F/RZQSG125L8Y1	FCQG140F/RZQSG140LY1				
Cooling capacity	Nom.		kW	9.5	12.0	13.4			
Heating capacity	Nom.		kW	10.8	13.5	15.5			
Power input	Cooling	Nom.	kW	2.88	3.74	4.45			
	Heating	Nom.	kW	3.05	3.96	4.54			
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A	-		
		Pdesign	kW	9.5	12	-	-		
		SEER			6.5	5.3	-	-	
		Annual energy consumption		kWh	512	793	-	-	
		A Condi on (35°C - 27/19)	Pdc	kW	9.5	12	-	-	
			EERd			3.3	2.91	-	-
			power input	kW	2.88	4.13	-	-	
		B Condi on (30°C - 27/19)	Pdc	kW	7	8.84	-	-	
			EERd			4.4	3.16	-	-
			power input	kW	1.6	2.8	-	-	
		C Condi on (25°C - 27/19)	Pdc	kW	4.56	5.69	-	-	
			EERd			8.45	6.87	-	-
	power input		kW	0.54	0.83	-	-		
	D Condi on (20°C - 27/19)	Pdc	kW	3.99	3.98	-	-		
		EERd			11.85	10.18	-	-	
		power input	kW	0.34	0.4	-	-		
	Heating (Average climate)	Energy label		A+		-	-		
		Pdesign	kW	7.6	8.03	-	-		
		SCOP			4.1	4.01	-	-	
		Annual energy consumption		kWh	2,596	2,804	-	-	
		Required back up heating cap at design conditions		kW	0.52	0.69	-	-	
		TOL	Tol (temperature operating limit)	°C	-15		-	-	
			Pdh (declared heating cap)	kW	7.66	7.74	-	-	
			COPd (declared COP)			2.03	2.1	-	-
Power input			kW	3.78	3.69	-	-		
TBivalent		Tbiv (bivalent temperature)	°C	-7		-	-		
		Pdh (declared heating cap)	kW	6.72	7.1	-	-		
		COPd (declared COP)			3.2	2.93	-	-	

2 Specifications

2

2-1 Capacity and Power input				FCQG100F/RZQSG100L8Y1	FCQG125F/RZQSG125L8Y1	FCQG140F/RZQSG140LY1	
			Power input	kW	2.1	2.43	-
	A Condi tion (- 7°C)	Pd _h (decla red heat ing cap)	kW		6.72	7.1	-
				COP _d (declared COP)	3.2	2.93	-
		Power input	kW	2.1	2.43	-	
	B Condi tion (2°C)	Pd _h (decla red heat ing cap)	kW	5.07			-
				COP _d (declared COP)	3.74	3.7	-
		Power input	kW	1.36	1.38	-	
	C Condi tion (7°C)	Pd _h (decla red heat ing cap)	kW		3.05	3.07	-
				COP _d (declared COP)	6.03	5.86	-
		Power input	kW	0.51	0.53	-	
	D Condi tion (12°C)	Pd _h (decla red heat ing cap)	kW		3.49	3.5	-
				COP _d (declared COP)	7.1	6.9	-
		Power input	kW	0.5	0.51	-	
Pto (Thermostat off)				W	7		-
Cooling	Psb (Standby mode cooling)		W		7		-
	Cdc (Degradation cooling)				0.25		-
Heating	Psb (Standby mode heating)		W		7		-
	Cdh (Degradation heating)				0.25		-
Pck (Crankcase heater mode)			W		0		-
Poff (Off mode)			W		0		-
Cooling function included					yes		-
Heating function included					yes		-
Average climate included					yes		-
Cold season included					no		-
Warm season included					no		-
Ecolabel logo					no		-
Nominal efficiency	EER				3.30	3.21	3.01
	COP				3.54	3.41	
	Annual energy consumption		kWh		1,440	1,870	2,225
	Energy label	Cooling				A	
Heating				B		-	

Notes

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

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

2 Specifications

2-2 Capacity and Power input				FAQ100C/RZQSG100L8Y1		
Cooling capacity	Nom.		kW	9.5		
Heating capacity	Nom.		kW	10.8		
Power input	Cooling	Nom.	kW	3.16		
	Heating	Nom.	kW	3.17		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+		
		Pdesign	kW	9.5		
		SEER		5.61		
		Annual energy consumption		kWh	593	
		A Condi on (35°C - 27/19)	Pdc	kW	9.5	
			EERd		3.01	
			power input	kW	3.16	
		B Condi on (30°C - 27/19)	Pdc	kW	7	
			EERd		3.45	
			power input	kW	2.03	
		C Condi on (25°C - 27/19)	Pdc	kW	4.5	
			EERd		7.54	
			power input	kW	0.6	
		D Condi on (20°C - 27/19)	Pdc	kW	3.87	
	EERd		10.42			
	power input		kW	0.38		
	Heating (Average climate)	Energy label		A+		
		Pdesign	kW	6.81		
		SCOP		4.01		
		Annual energy consumption		kWh	2,378	
Required back up heating cap at design conditions		kW	0.36			
TOL		Tol (temper ature operati ng limit)	°C	-15		
		Pdh (decla red heating cap)	kW	7.15		
		COPd (declared COP)		2.04		
		Power input	kW	3.51		
		TBivale nt	Tbiv (bivalen t temper ature)	°C	-7	
Pdh (decla red heating cap)			kW	6.02		

2 Specifications

2

2-2 Capacity and Power input				FAQ100C/RZQSG100L8Y1
			COPd (declared COP)	3.02
			Power input kW	2
	A Condition (-7°C)		Pdh (declared heating cap) kW	6.02
			COPd (declared COP)	3.02
			Power input kW	2
	B Condition (2°C)		Pdh (declared heating cap) kW	4.73
			COPd (declared COP)	3.89
			Power input kW	1.22
	C Condition (7°C)		Pdh (declared heating cap) kW	2.96
			COPd (declared COP)	5.61
			Power input kW	0.53
	D Condition (12°C)		Pdh (declared heating cap) kW	3.37
			COPd (declared COP)	6.63
			Power input kW	0.51
Pto (Thermostat off)			W	7
Cooling	Psb (Standby mode cooling)		W	7
	Cdc (Degradation cooling)			0.25
Heating	Psb (Standby mode heating)		W	7
	Cdh (Degradation heating)			0.25
Pck (Crankcase heater mode)			W	0
Poff (Off mode)			W	0
Cooling function included				yes
Heating function included				yes
Average climate included				yes
Cold season included				no
Warm season included				no
Ecolabel logo				no
Nominal efficiency	EER			3.01
	COP			3.41
	Annual energy consumption		kWh	1,580
	Energy label	Cooling		
Heating			B	

Notes

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

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

2 Specifications

2-3 Capacity and Power input				FHQ100C/RZQSG100L8Y1	FHQ125C/RZQSG125L8Y1	FHQ140C/RZQSG140LY1	
Cooling capacity	Nom.		kW	9.5	12.0	13.4	
Heating capacity	Nom.		kW	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	2.96	4.15	4.45	
	Heating	Nom.	kW	2.99	3.73	4.54	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+		-	
		Pdesign	kW	9.5	12	-	
		SEER		5.61		-	
		Annual energy consumption	kWh	593	749	-	
		A Condi on (35°C - 27/19)	Pdc	kW	9.5	12	-
			EERd		3.21	2.89	-
			power input	kW	2.96	4.16	-
		B Condi on (30°C - 27/19)	Pdc	kW	7	8.84	-
			EERd		4.52	3.46	-
			power input	kW	1.55	2.56	-
		C Condi on (25°C - 27/19)	Pdc	kW	4.6	5.69	-
			EERd		6.55	7.34	-
			power input	kW	0.71	0.78	-
	D Condi on (20°C - 27/19)	Pdc	kW	4.04	3.99	-	
		EERd		8.88	10.57	-	
		power input	kW	0.46	0.38	-	
	Heating (Average climate)	Energy label		A	A+	-	
		Pdesign	kW	7.6		-	
		SCOP		3.91	4.01	-	
		Annual energy consumption	kWh	2,722	2,654	-	
		Required back up heating cap at design conditions	kW	0.43	0.46	-	
		TOL	Tol (temperature operating limit)	°C	-15		-
			Pdh (declared heating cap)	kW	7.91	7.84	-
COPd (declared COP)			2.07	2.19	-		
Power input			kW	3.83	3.58	-	
TBivalent		Tbivalent (bivalent temperature)	°C	-7		-	
		Pdh (declared heating cap)	kW	6.72		-	

2 Specifications

2

2-3 Capacity and Power input				FHQ100C/RZQSG100L8Y1	FHQ125C/RZQSG125L8Y1	FHQ140C/RZQSG140LY1	
			COPd (declared COP)	3.21	2.98	-	
			Power input	kW	2.1	2.26	-
		A Condi- tion (- 7°C)	Pdh (declared heating cap)	kW	6.72		-
			COPd (declared COP)		3.21	2.98	-
			Power input	kW	2.1	2.26	-
		B Condi- tion (2°C)	Pdh (declared heating cap)	kW	5.15	5.18	-
			COPd (declared COP)		3.62	3.91	-
			Power input	kW	1.43	1.33	-
		C Condi- tion (7°C)	Pdh (declared heating cap)	kW	3.09	3.1	-
			COPd (declared COP)		5.46	5.5	-
			Power input	kW	0.57		-
		D Condi- tion (12°C)	Pdh (declared heating cap)	kW	3.53		-
			COPd (declared COP)		6.42	6.47	-
			Power input	kW	0.55		-
		Pto (Thermostat off)			W	7	-
		Cooling	Psb (Standby mode cooling)		W	7	-
Cdc (Degradation cooling)				0.25	-		
Heating	Psb (Standby mode heating)		W	7	-		
	Cdh (Degradation heating)			0.25	-		
Pck (Crankcase heater mode)			W	0	-		
Poff (Off mode)			W	0	-		
Cooling function included				yes	-		
Heating function included				yes	-		
Average climate included				yes	-		
Cold season included				no	-		
Warm season included				no	-		
Ecolabel logo				no	-		
Nominal efficiency	EER			3.21	2.89	3.01	
	COP			3.61	3.62	3.41	
	Annual energy consumption		kWh	1,480	2,075	2,225	
	Energy label	Cooling			A	C	-
Heating			A		-		

Notes

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

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

2 Specifications

2-4 Capacity and Power input				FDQ125C/RZQSG125L8Y1		
Cooling capacity	Nom.		kW	12.0		
Heating capacity	Nom.		kW	13.5		
Power input	Cooling	Nom.	kW	3.74		
	Heating	Nom.	kW	3.85		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A		
		Pdesign	kW	12		
		SEER		5.2		
		Annual energy consumption		kWh	808	
		A Condi on (35°C - 27/19)	Pdc	kW	12	
			EERd		3.09	
			power input	kW	3.89	
		B Condi on (30°C - 27/19)	Pdc	kW	8.84	
			EERd		3.43	
			power input	kW	2.58	
		C Condi on (25°C - 27/19)	Pdc	kW	5.69	
			EERd		6.56	
			power input	kW	0.87	
		D Condi on (20°C - 27/19)	Pdc	kW	4.04	
	EERd		8.53			
	power input		kW	0.48		
	Heating (Average climate)	Energy label		A		
		Pdesign	kW	7.6		
		SCOP		3.9		
		Annual energy consumption		kWh	2,729	
Required back up heating cap at design conditions		kW	0.58			
TOL		Tol (temper ature operati ng limit)	°C	-15		
		Pdh (decla red heating cap)	kW	7.51		
		COPd (declared COP)		2.22		
		Power input	kW	3.39		
		TBivale nt	Tbiv (bivalen t temper ature)	°C	-7	
Pdh (decla red heating cap)			kW	6.72		

2 Specifications

2

2-4 Capacity and Power input				FDQ125C/RZQSG125L8Y1
			COPd (declared COP)	2.87
			Power input kW	2.35
	A Condition (-7°C)		Pdh (declared heating cap) kW	6.72
			COPd (declared COP)	2.87
			Power input kW	2.35
	B Condition (2°C)		Pdh (declared heating cap) kW	4.85
			COPd (declared COP)	3.87
			Power input kW	1.26
	C Condition (7°C)		Pdh (declared heating cap) kW	3.02
			COPd (declared COP)	5.1
			Power input kW	0.6
	D Condition (12°C)		Pdh (declared heating cap) kW	3.42
			COPd (declared COP)	5.98
			Power input kW	0.58
Pto (Thermostat off)			W	7
Cooling	Psb (Standby mode cooling)		W	7
	Cdc (Degradation cooling)			0.25
Heating	Psb (Standby mode heating)		W	7
	Cdh (Degradation heating)			0.25
Pck (Crankcase heater mode)			W	0
Poff (Off mode)			W	0
Cooling function included				yes
Heating function included				yes
Average climate included				yes
Cold season included				no
Warm season included				no
Ecolabel logo				no
Nominal efficiency	EER			3.21
	COP			3.51
	Annual energy consumption		kWh	1,870
	Energy label	Cooling		A
Heating		B		

Notes

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

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

2 Specifications

2-5 Capacity and Power input				FCQHG100F/RZQSG100L8Y1	FCQHG125F/RZQSG125L8Y1	FCQHG140F/RZQSG140LY1	
Cooling capacity	Nom.		kW	9.5	12.0	13.4	
Heating capacity	Nom.		kW	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	2.57	3.71	4.17	
	Heating	Nom.	kW	2.51	3.60	4.29	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++	A	-	
		Pdesign	kW	9.5	12	-	
		SEER			6.7	5.4	-
		Annual energy consumption		kWh	497	778	-
		A Condi on (35°C - 27/19)	Pdc	kW	9.5	12	-
			EERd		3.7	3.12	-
			power input	kW	2.57	3.85	-
		B Condi on (30°C - 27/19)	Pdc	kW	7	8.84	-
			EERd		4.82	3.36	-
			power input	kW	1.46	2.64	-
	C Condi on (25°C - 27/19)	Pdc	kW	4.69	5.69	-	
		EERd		8.43	6.73	-	
		power input	kW	0.56	0.85	-	
	D Condi on (20°C - 27/19)	Pdc	kW	4.12	4.04	-	
		EERd		11.38	10.17	-	
		power input	kW	0.37	0.4	-	
	Heating (Average climate)	Energy label			A+	-	
		Pdesign	kW	8.03		-	
		SCOP			4.3	4.1	-
		Annual energy consumption		kWh	2,615	2,742	-
Required back up heating cap at design conditions		kW	0.66	0.65	-		
TOL		Tol (temperature operating limit)	°C	-15		-	
		Pdh (declared heating cap)	kW	7.81	7.83	-	
		COPd (declared COP)			2.23	2.34	-
		Power input	kW	3.51	3.35	-	
TBivalent		Tbiv (bivalent temperature)	°C	-7		-	
	Pdh (declared heating cap)	kW	7.1		-		

2 Specifications

2

2-5 Capacity and Power input				FCQHG100F/RZQSG100L8Y1	FCQHG125F/RZQSG125L8Y1	FCQHG140F/RZQSG140LY1		
		A Condition (-7°C)	COPd (declared COP)	3.28	3.04	-		
			Power input	kW	2.17	2.34	-	
			Pdh (declared heating cap)	kW	7.1		-	
		B Condition (2°C)	COPd (declared COP)	3.28	3.04	-		
			Power input	kW	2.17	2.34	-	
			Pdh (declared heating cap)	kW	5.06	5.08	-	
		C Condition (7°C)	COPd (declared COP)	4.02	3.92	-		
			Power input	kW	1.26	1.3	-	
			Pdh (declared heating cap)	kW	3.05	3.06	-	
		D Condition (12°C)	COPd (declared COP)	5.86	5.58	-		
			Power input	kW	0.53	0.55	-	
			Pdh (declared heating cap)	kW	3.48	3.49	-	
				COPd (declared COP)	6.99	6.65	-	
				Power input	kW	0.5	0.53	-
		Pto (Thermostat off)			W	7	-	
Cooling	Psb (Standby mode cooling)		W	7	-			
	Cdc (Degradation cooling)			0.25	-			
Heating	Psb (Standby mode heating)		W	7	-			
	Cdh (Degradation heating)			0.25	-			
Pck (Crankcase heater mode)			W	0	-			
Poff (Off mode)			W	0	-			
Cooling function included				yes	-			
Heating function included				yes	-			
Average climate included				yes	-			
Cold season included				no	-			
Warm season included				no	-			
Ecolabel logo				no	-			
Nominal efficiency	EER			3.70	3.23	3.21		
	COP			4.30	3.75	3.61		
	Annual energy consumption		kWh	1,285	1,855	-		
	Energy label	Cooling			A	-		
		Heating			A	-		

Notes

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

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

2 Specifications

2-6 Capacity and Power input				FVQ100C/RZQSG100L8Y1	FVQ125C/RZQSG125L8Y1	FVQ140C/RZQSG140LY1	
Cooling capacity	Nom.		kW	9.5	12.0	13.4	
Heating capacity	Nom.		kW	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	2.96	4.27	4.45	
	Heating	Nom.	kW	2.99	3.96	4.54	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A		-	
		Pdesign	kW	9.5	12	-	
		SEER		5.5		-	
		Annual energy consumption	kWh	605	764	-	
		A Condi on (35°C - 27/19)	Pdc	kW	9.5	12	-
			EERd		3.21	2.81	-
			power input	kW	2.96	4.28	-
		B Condi on (30°C - 27/19)	Pdc	kW	7	8.84	-
			EERd		4.34	3.42	-
			power input	kW	1.62	2.59	-
		C Condi on (25°C - 27/19)	Pdc	kW	4.6	5.69	-
			EERd		6.53	7.22	-
			power input	kW	0.71	0.79	-
	D Condi on (20°C - 27/19)	Pdc	kW	4.03	3.96	-	
		EERd		8.55	10.18	-	
		power input	kW	0.48	0.39	-	
	Heating (Average climate)	Energy label		A+	A	-	
		Pdesign	kW	7.6		-	
		SCOP		4.01	3.85	-	
		Annual energy consumption	kWh	2,654	2,764	-	
		Required back up heating cap at design conditions	kW	0.53	0.37	-	
		TOL	Tol (temperature operating limit)	°C	-15		-
			Pdh (declared heating cap)	kW	7.64	8.07	-
COPd (declared COP)			1.99	2.15	-		
Power input			kW	3.84	3.76	-	
TBivalent		Tbiv (bivalent temperature)	°C	-7		-	
		Pdh (declared heating cap)	kW	6.72		-	

2 Specifications

2

2-6 Capacity and Power input				FVQ100C/RZQSG100L8Y1	FVQ125C/RZQSG125L8Y1	FVQ140C/RZQSG140LY1		
			COPd (declared COP)	3.05	2.95	-		
			Power input	kW	2.21	2.28	-	
		A Condi- tion (- 7°C)	Pdh (declared heating cap)	kW	6.72			-
			COPd (declared COP)		3.05	2.95	-	
			Power input	kW	2.21	2.28	-	
		B Condi- tion (2°C)	Pdh (declared heating cap)	kW	4.95	5.13	-	
			COPd (declared COP)		3.81	3.68	-	
			Power input	kW	1.3	1.4	-	
		C Condi- tion (7°C)	Pdh (declared heating cap)	kW	3.01	3.18	-	
			COPd (declared COP)		5.56	5.36	-	
			Power input	kW	0.55	0.6	-	
		D Condi- tion (12°C)	Pdh (declared heating cap)	kW	3.44	3.64	-	
			COPd (declared COP)		6.53	6.35	-	
			Power input	kW	0.53	0.58	-	
		Pto (Thermostat off)			W	7		-
		Cooling	Psb (Standby mode cooling)		W	7		-
Cdc (Degradation cooling)				0.25		-		
Heating	Psb (Standby mode heating)		W	7		-		
	Cdh (Degradation heating)			0.25		-		
Pck (Crankcase heater mode)			W	0		-		
Poff (Off mode)			W	0		-		
Cooling function included					yes	-		
Heating function included					yes	-		
Average climate included					yes	-		
Cold season included					no	-		
Warm season included					no	-		
Ecolabel logo					no	-		
Nominal efficiency	EER			3.21	2.81	3.01		
	COP			3.61	3.41			
	Annual energy consumption		kWh	1,480	2,135	2,225		
	Energy label	Cooling			A	C	-	
Heating			A	B	-			

Notes

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

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

2 Specifications

2-7 Capacity and Power input				FBQ100D/RZQSG100L8Y1	FBQ125D/RZQSG125L8Y1	FBQ140D/RZQSG140LY1		
Indoor unit				FBQ100D	FBQ125D	FBQ140D		
Outdoor unit				RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1		
Cooling capacity	Nom.		kW	9.5 (1)	12.0 (1)	13.4 (1)		
Heating capacity	Nom.		kW	10.80 (1)	13.50 (1)	15.50 (1)		
Power input	Cooling	Nom.	kW	2.84 (1)	3.72 (1)	4.38 (1)		
	Heating	Nom.	kW	2.94 (1)	3.72 (1)	4.56 (1)		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+	A	-		
		Pdesign	kW	9.50	12.00	-		
		SEER			5.61	5.47	-	
		Annual energy consumption		kWh	593	768	-	
		A Condi on (35°C - 27/19)	Pdc	kW	9.50	12.00	-	
			EERd			3.35	3.23	-
			power input	kW	2.84	3.72	-	
		B Condi on (30°C - 27/19)	Pdc	kW	7.00	8.84	-	
			EERd			4.83	3.70	-
			power input	kW	1.45	2.39	-	
		C Condi on (25°C - 27/19)	Pdc	kW	4.50	5.68	-	
			EERd			7.05	7.38	-
			power input	kW	0.64	0.77	-	
	D Condi on (20°C - 27/19)	Pdc	kW	3.94	3.95	-		
		EERd			9.04	9.51	-	
		power input	kW	0.44	0.42	-		
	Heating (Average climate)	Energy label			A+	-		
		Pdesign	kW	7.60		-		
		SCOP/A			4.15	4.01	-	
		SCOPnet/A			4.19	4.05	-	
		Annual energy consumption		kWh	2,564	2,653	-	
		Required back up heating cap at design conditions		kW	1.84	1.82	-	
		TOL	Tol (temperature operating limit)	°C	-15		-	
Pdh (declared heating cap)			kW	4.16	4.21	-		
COPd (declared COP)			2.11	2.24	-			
Power input		kW	1.97	1.88	-			
TBivalent		Tbivalent temperature)	°C	-7		-		

2 Specifications

2

2-7 Capacity and Power input				FBQ100D/RZQSG100L8Y1	FBQ125D/RZQSG125L8Y1	FBQ140D/RZQSG140LY1		
			Pdh (declared heating cap)	kW	6.72		-	
			COPd (declared COP)		2.98	2.83	-	
			Power input	kW	2.26	2.37	-	
	A Condition (-7°C)			Pdh (declared heating cap)	kW	6.72		-
				COPd (declared COP)		2.98	2.83	-
				Power input	kW	2.26	2.37	-
	B Condition (2°C)			Pdh (declared heating cap)	kW	4.09		-
				COPd (declared COP)		4.32		-
				Power input	kW	0.95		-
	C Condition (7°C)			Pdh (declared heating cap)	kW	2.82	2.85	-
				COPd (declared COP)		4.70	4.35	-
				Power input	kW	0.60	0.66	-
D Condition (12°C)			Pdh (declared heating cap)	kW	2.93	2.94	-	
			COPd (declared COP)		5.95	5.46	-	
			Power input	kW	0.49	0.54	-	
Pto (Thermostat off)			W	4.0		-		
Cooling	Psb (Standby mode cooling)		W	22.0		-		
	Cdc (Degradation cooling)			0.25		-		
Heating	Cdh (Degradation heating)			0.25		-		
Pck (Crankcase heater mode)			W	0.0		-		
Poff (Off mode)			W	22.0		-		
Cooling function included				Yes		-		
Heating function included				Yes		-		
Average climate included				Yes		-		
Cold season included				No		-		
Warm season included				No		-		
Ecolabel logo				No		-		
Nominal efficiency	EER			3.35 (2)	3.23 (2)	3.06 (2)		
	COP			3.67 (2)	3.63 (2)	3.40 (2)		
	Annual energy consumption		kWh	1,418	1,858	-		
	Energy label	Cooling			A		-	
Heating			A		-			

2 Specifications

Notes

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

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

2-8 Capacity and Power input				FUQ100C/RZQSG100L8Y1	FUQ125C/RZQSG125L8Y1	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+	A	
		Pdesign	kW	9.50	12.00	
		SEER		5.61	5.30	
		Annual energy consumption		kWh	593	793
		A Condi on (35°C - 27/19)	Pdc	kW	9.50	12.00
			EERd		3.21	2.65
			power input	kW	2.96	4.53
		B Condi on (30°C - 27/19)	Pdc	kW	7.00	8.84
			EERd		3.73	3.01
			power input	kW	1.88	2.94
		C Condi on (25°C - 27/19)	Pdc	kW	4.59	5.69
			EERd		7.23	7.33
			power input	kW	0.64	0.78
		D Condi on (20°C - 27/19)	Pdc	kW	4.02	3.96
	EERd		9.63	10.43		
	power input		kW	0.42	0.38	
	Heating (Average climate)	Energy label		A+	A	
		Pdesign	kW	7.60		
		SCOP/A		4.01	3.85	
		SCOPnet/A		4.02	3.86	
Pdh Heating capacity at -10°		7				
Annual energy consumption		kWh	2,654	2,764		
Required back up heating cap at design conditions		kW	0.56	0.55		
TOL		Tol (temper ature operati ng limit)	°C	-15		
		Pdh (decla red heating cap)	kW	7.56	7.60	
		COPd (declared COP)		1.89	1.88	
		Power input	kW	4.00	4.05	
TBivale nt		Tbiv (bivalen t temper ature)	°C	-7		

2 Specifications

2

2-8 Capacity and Power input					FUQ100C/RZQSG100L8Y1	FUQ125C/RZQSG125L8Y1
			Pdh (declared heating cap)	kW	6.72	
			COPd (declared COP)		2.69	2.62
			Power input	kW	2.50	2.57
		A Condition (-7°C)	Pdh (declared heating cap)	kW	6.72	
			COPd (declared COP)		2.69	2.62
			Power input	kW	2.50	2.57
		B Condition (2°C)	Pdh (declared heating cap)	kW	4.13	4.14
			COPd (declared COP)		3.82	3.68
			Power input	kW	1.09	1.13
		C Condition (7°C)	Pdh (declared heating cap)	kW	3.02	3.03
			COPd (declared COP)		5.56	5.26
			Power input	kW	0.55	0.58
D Condition (12°C)	Pdh (declared heating cap)	kW	3.44	3.46		
	COPd (declared COP)		6.59	6.24		
	Power input	kW	0.53	0.56		
Pto (Thermostat off)				W	7.0	
Cooling	Psb (Standby mode cooling)			W	7.0	
	Cdc (Degradation cooling)				0.25	
Heating	Psb (Standby mode heating)			W	7.0	
	Cdh (Degradation heating)				0.25	
Pck (Crankcase heater mode)				W	0.0	
Poff (Off mode)				W	0.0	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					No	
Ecolabel logo					No	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	69	70
	Sound power level indoor	Cooling	Nom.	dBA	64	65

2 Specifications

2-9 Technical Specifications				RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1	
Capacity control	Method			Inverter controlled			
Casing	Colour			Ivory white			
	Material			Painted galvanized steel plate			
Dimensions	Unit	Height	mm	990		1,430	
		Width	mm	940			
		Depth	mm	320			
	Packed unit	Height	mm	1,170		1,610	
		Width	mm	1,015			
		Depth	mm	422			
Weight	Unit		kg	82		101	
	Packed unit		kg	94		114	
Heat exchanger	Fin	Type		WF fin			
		Treatment		Anti-corrosion treatment (PE)			
Compressor	Quantity			1			
	Type			Hermetically sealed swing compressor			
	Starting method			Inverter driven			
Fan	Type			Propeller fan			
	Discharge direction			Horizontal			
	Quantity			1		2	
	Air flow rate	Cooling	Nom.	m ³ /min	76	77	83
			Super low	m ³ /min cfm	-		
		Heating	Nom.	m ³ /min	83		62
			Super low	m ³ /min cfm	-		
Fan motor	Quantity			1		2	
	Model			Brushless DC motor			
	Output		W	200		94	
	Drive			Direct drive			
	Speed	Cooling	Super low	rpm	-		
			Heating	Super low	rpm	-	
Sound power level	Cooling		dBA	69	70	69	
	Heating		dBA	-			
Sound pressure level	Cooling	Nom.	dBA	53	54	53	
	Heating	Nom.	dBA	57	58	54	
	Night quiet mode	Level 1	dBA	49			
Operation range	Cooling	Ambient	Min.	°CDB	-15		
			Max.	°CDB	46		
	Heating	Ambient	Min.	°CWB	-15		
			Max.	°CWB	15.5		
Refrigerant	Type			R-410A			
	Charge	kg		2.9		4.0	
		TCO ₂ eq		6.1		8.4	
	Control			Expansion valve (electronic type)			
	GWP			2,087.5			
	Circuits	Quantity			1		
Piping connections	Liquid	Quantity			1		
		Type			Flare connection		
		OD	mm	9.52			
	Gas	Quantity			1		
		Type			Flare connection		
		OD	mm	15.9			
	Drain	Quantity			5		
		Type			Hole		
		ID	mm	-			
		OD	mm	26			

2 Specifications

2

2-9 Technical Specifications					RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Piping length	OU - IU	Min.	m		5		
		Max.	m		50		
	System	Equivalent	m		70		
		Chargel ess	m		30		
	Additional refrigerant charge			kg/m	See installation manual		
	Level difference	IU - OU	Max.	m	30		
IU - IU		Max.	m	0.5			
Heat insulation				Both liquid and gas pipes			
Refrigerant oil	Type				FVC50K		
	Charged volume			l	0.9	1.35	
Defrost method				Reversed cycle			
Defrost control				Sensor for outdoor heat exchanger temperature			
Safety devices	Item	01		High pressure switch			
		02		Fan driver overload protector			
		03		Fuse			

2-10 Electrical Specifications					RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Power supply	Name			Y1			
	Phase			3N~			
	Frequency			Hz	50		
	Voltage			V	380-415		
	Voltage range	Min.		%	-10		
		Max.		%	10		
Current - 50Hz	Maximum fuse amps (MFA)		A	20			
Current	Zmax	List		Complies to EN61000-3-11			
	Recommended fuses			A	20		
Current - 60Hz	Maximum fuse amps (MFA)		A	-			
Wiring connections	For power supply	Remark		See installation manual outdoor unit			
	For connection with indoor	Remark		See installation manual outdoor unit			
Power supply intake				Outdoor unit only			

Notes

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

3 Electrical data

3 - 1 Electrical Data

RZQSG100L8Y1

Indoor	Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor		OFM		IFM	
								MSC	RLA	kW	FLA	kW	FLA
FCQG100EVEB	RZQSG100L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 466 V		14.5	—	16	—	11.4	0.2	0.6	0.106	1
FCQHG100FVEB	RZQSG100L8Y1B				14.8	—	16	—	11.4	0.2	0.6	0.221	1.3
FCQG35FVEB	*3 RZQSG100L8Y1B				14.3	—	16	—	11.4	0.2	0.6	0.044×3	0.3×3
FCQG50FVEB	*2 RZQSG100L8Y1B				14.0	—	16	—	11.4	0.2	0.6	0.039×2	0.3×2
FCQG100FVEB	RZQSG100L8Y1B				14.1	—	16	—	11.4	0.2	0.6	0.117	0.7
FFQ35C2VEB	*3 RZQSG100L8Y1B				14.7	—	16	—	11.4	0.2	0.6	0.05×3	0.4×3
FFQ50C2VEB	*2 RZQSG100L8Y1B				14.2	—	16	—	11.4	0.2	0.6	0.05×2	0.4×2
FDXS35F2VEB	*3 RZQSG100L8Y1B				14.3	—	16	—	11.4	0.2	0.6	0.034×3	0.3×3
FDXS50F2VEB9	*2 RZQSG100L8Y1B				14.5	—	16	—	11.4	0.2	0.6	0.06×2	0.5×2
FBQ35C8VEB	*3 RZQSG100L8Y1B				17.7	—	20	—	11.4	0.2	0.6	0.140×3	1.2×3
FBQ50C8VEB	*2 RZQSG100L8Y1B				16.2	—	20	—	11.4	0.2	0.6	0.140×2	1.2×2
FBQ100C8VEB	RZQSG100L8Y1B				15.2	—	16	—	11.4	0.2	0.6	0.350	1.6
FAQ100CVEB9	RZQSG100L8Y1B				13.7	—	16	—	11.4	0.2	0.6	0.064	0.4
FVQ100CVEB	RZQSG100L8Y1B				14.7	—	16	—	11.4	0.2	0.6	0.238	1.2
FHQ35CBVEB	*3 RZQSG100L8Y1B				15.5	—	16	—	11.4	0.2	0.6	0.060 x 3	0.6 x 3
FHQ50CBVEB	*2 RZQSG100L8Y1B				14.7	—	16	—	11.4	0.2	0.6	0.060 x 2	0.6 x 2
FHQ100CBVEB	RZQSG100L8Y1B				14.8	—	16	—	11.4	0.2	0.6	0.150	1.3
FUQ100CVEB	RZQSG100L8Y1B				14.8	—	16	—	11.4	0.2	0.6	0.106	1.3

Symbols

- MCA: Minimum Circuit Ampere [A]
- TOCA: Total overcurrent amps [A]
- MFA: Maximum Fuse Ampere [A]
- MSC: Maximum current of the starting compressor [A]
- RLA: Rated load amps [A]
- OFM: Outdoor fan motor
- IFM: Indoor fan motor
- FLA: Full Load Ampere [A]
- KW: Fan motor rated output [kW]

Notes

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

3D077811 C

3 Electrical data

3 - 1 Electrical Data

RZQSG125-140L(8)Y1

Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor		OFM		IFM			
							MSC	RLA	KW	FLA	KW	FLA		
FCQG125EVEB	RZQSG125L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	14,6	—	16	—	11,4	0,2	0,6	0,106	1,1		
FCQH125FVEB	RZQSG125L8Y1B			15,0	—	16	—	11,4	0,2	0,6	0,244	1,4		
FCQG35FVEB	x4 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,044x4	0,3x4		
FCQG50FVEB	x3 RZQSG125L8Y1B			14,3	—	16	—	11,4	0,2	0,6	0,039x3	0,3x3		
FCQG60FVEB	x2 RZQSG125L8Y1B			14,0	—	16	—	11,4	0,2	0,6	0,044x2	0,3x2		
FCQG125FVEB	RZQSG125L8Y1B			14,5	—	16	—	11,4	0,2	0,6	0,168	1		
FFQ35C2VEB	x4 RZQSG125L8Y1B			15,2	—	16	—	11,4	0,2	0,6	0,05x4	0,4x4		
FFQ50C2VEB	x3 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,05x3	0,4x3		
FFQ60C2VEB	x2 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,05x2	0,6x2		
FDXS35F2VEB	x4 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,034x4	0,3x4		
FDXS50F2VEB9	x3 RZQSG125L8Y1B			15,1	—	16	—	11,4	0,2	0,6	0,060x3	0,5x3		
FDXS60F2VEB	x2 RZQSG125L8Y1B			14,5	—	16	—	11,4	0,2	0,6	0,060x2	0,5x2		
FBQ35C8VEB	x4 RZQSG125L8Y1B			19,2	—	20	—	11,4	0,2	0,6	0,140x4	1,2x4		
FBQ50C8VEB	x3 RZQSG125L8Y1B			17,7	—	20	—	11,4	0,2	0,6	0,140x3	1,2x3		
FBQ60C8VEB	x2 RZQSG125L8Y1B			16,0	—	20	—	11,4	0,2	0,6	0,350x2	1,1x2		
FBQ125C8VEB	RZQSG125L8Y1B			15,8	—	16	—	11,4	0,2	0,6	0,350	2,1		
FDQ125C7VEB	RZQSG125L8Y1B			15,8	—	16	—	11,4	0,2	0,6	0,350	2,1		
FVQ125CVBE	RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,238	1,2		
FHQ35CBVEB	x4 RZQSG125L8Y1B			16,2	—	20	—	11,4	0,2	0,6	0,060x4	0,6 x 4		
FHQ50CBVEB	x3 RZQSG125L8Y1B			15,5	—	16	—	11,4	0,2	0,6	0,060x3	0,6 x 3		
FHQ60CBVEB	x2 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,091x2	0,8 x 2		
FHQ125CBVEB	RZQSG125L8Y1B			15,1	—	16	—	11,4	0,2	0,6	0,15	1,5		
FUQ125CVBE	RZQSG125L8Y1B			15,0	—	16	—	11,4	0,2	0,6	0,106	1,4		
FCQG71EVEB	x2 RZQSG140L7Y1B			3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	17,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,048x2	0,4x2
FCQG140EVEB	RZQSG140L7Y1B					17,875	—	20	—	14,2	0,094+0,094	0,4+0,4	0,106	1,1
FCQH71FVEB	x2 RZQSG140L7Y1B					17,75	—	20	—	14,2	0,094+0,094	0,4+0,4	0,091x2	0,5x2
FCQH140FVEB	RZQSG140L7Y1B					18,25	—	20	—	14,2	0,094+0,094	0,4+0,4	0,244	1,4
FCQG35FVEB	x4 RZQSG140L7Y1B					18	—	20	—	14,2	0,094+0,094	0,4+0,4	0,044x4	0,3x4
FCQG50FVEB	x3 RZQSG140L7Y1B					17,625	—	20	—	14,2	0,094+0,094	0,4+0,4	0,039x3	0,3x3
FCQG71FVEB	x2 RZQSG140L7Y1B					17,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,054x2	0,4x2
FCQG140FVEB	RZQSG140L7Y1B					17,75	—	20	—	14,2	0,094+0,094	0,4+0,4	0,168	1
FFQ35C2VEB	x4 RZQSG140L7Y1B					18,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05x4	0,4x4
FFQ50C2VEB	x3 RZQSG140L7Y1B	18	—			20	—	14,2	0,094+0,094	0,4+0,4	0,05x3	0,4x3		
FDXS35F2VEB	x4 RZQSG140L7Y1B	18	—			20	—	14,2	0,094+0,094	0,4+0,4	0,034x4	0,3x4		
FDXS50F2VEB9	x3 RZQSG140L7Y1B	18,375	—			20	—	14,2	0,094+0,094	0,4+0,4	0,06x3	0,5x3		
FBQ35C8VEB	x4 RZQSG140L7Y1B	22,5	—			25	—	14,2	0,094+0,094	0,4+0,4	0,140x4	1,2x4		
FBQ50C8VEB	x3 RZQSG140L7Y1B	21	—			25	—	14,2	0,094+0,094	0,4+0,4	0,140x3	1,2x3		
FBQ71C8VEB	x2 RZQSG140L7Y1B	19,25	—			20	—	14,2	0,094+0,094	0,4+0,4	0,350x2	1,1x2		
FBQ140C8VEB	RZQSG140L7Y1B	19,125	—			20	—	14,2	0,094+0,094	0,4+0,4	0,35	2,1		
FAQ71CVBE9	x2 RZQSG140L7Y1B	17,5	—			20	—	14,2	0,094+0,094	0,4+0,4	0,048x2	0,4x2		
FVQ140CVBE	RZQSG140L7Y1B	18,25	—			20	—	14,2	0,094+0,094	0,4+0,4	0,276	1,4		
FHQ35CBVEB	x4 RZQSG140L7Y1B	19,5	—			20	—	14,2	0,094+0,094	0,4+0,4	0,060 x 4	0,6 x 4		
FHQ50CBVEB	x3 RZQSG140L7Y1B	18,8	—			20	—	14,2	0,094+0,094	0,4+0,4	0,060 x 3	0,6 x 3		
FHQ71CBVEB	x2 RZQSG140L7Y1B	18,5	—			20	—	14,2	0,094+0,094	0,4+0,4	0,091 x 2	0,8 x 2		
FHQ140CBVEB	RZQSG140L7Y1B	18,8	—			20	—	14,2	0,094+0,094	0,4+0,4	0,15	1,8		
FUQ71CVBE	x2 RZQSG140L7Y1B	18,8	—			20	—	14,2	0,094+0,094	0,4+0,4	0,046 x 2	0,9 x 2		

Symbols

- MCA: Minimum Circuit Ampere [A]
- TOCA: Total overcurrent amps [A]
- MFA: Maximum Fuse Ampere [A]
- MSC: Maximum current of the starting compressor [A]
- RLA: Rated load amps [A]
- OFM: Outdoor fan motor
- IFM: Indoor fan motor
- FLA: Full Load Ampere [A]
- KW: Fan motor rated output [kW]

Notes

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

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3 Electrical data

3 - 1 Electrical Data

RZQSG-L(8)Y1

Unit combination		Minimum Ssc value (kVA)
FFQ35B9V1B	x3	936
FFQ50B9V1B	x2	951
FHQ35BWW1B	x3	977
FHQ50BWW1B	x2	936
FBQ35C8VEB	x3	1092
FBQ50C8VEB	x2	1014
FCQG35FVEB	x3	915
FCQG50FVEB	x2	899
FBQ100C8VEB	x1	962
FCQG100FVEB	x1	905
FCQHG100FVEB	x1	941
FAQ100CVEB	x1	884
FVQ100CVEB	x1	936
FHQG100CVEB	x1	936
FUQ100BWW1B	x1	925
FFQ35B9V1B	x4	962
FFQ50B9V1B	x3	993
FFQ60B9V1B	x2	951
FHQ35BWW1B	x4	1014
FHQ50BWW1B	x3	977
FHQ60BWW1B	x2	936
FBQ35C8VEB	x4	1170
FBQ50C8VEB	x3	1092
FBQ60C8VEB	x2	1003
FCQG35FVEB	x4	936
FCQG50FVEB	x3	915
FCQG60FVEB	x2	899
FBQ125C8VEB	x1	993
FCQG125FVEB	x1	925
FCQHG125FVEB	x1	951
FVQ125CVEB	x1	936
FHQG125CVEB	x1	962
FUQ125BWW1B	x1	925
FDQ125C7VEB	x1	993

Unit combination		Minimum Ssc value (kVA)
FFQ35B9V1B	x4	962
FFQ50B9V1B	x3	993
FHQ35BWW1B	x4	1014
FHQ50BWW1B	x3	977
FBQ35C8VEB	x4	1170
FBQ50C8VEB	x3	1092
FCQG35FVEB	x4	936
FCQG50FVEB	x3	915
FCQG71FVEB	x2	910
FCQHG71FVEB	x2	925
FAQ71CVEB	x2	910
FHQG71CVEB	x2	962
FBQ71C8VEB	x2	1003
FUQ71BWW1B	x2	936
FBQ140C8VEB	x1	993
FCQG140FVEB	x1	925
FCQHG140FVEB	x1	951
FVQ140CVEB	x1	951
FHQG140CVEB	x1	977
FFQ35B9V1B	x4	962
FFQ50B9V1B	x3	993
FHQ35BWW1B	x4	1014
FHQ50BWW1B	x3	977
FBQ35C8VEB	x4	1170
FBQ50C8VEB	x3	1092
FCQG35FVEB	x4	936
FCQG50FVEB	x3	915
FCQG71FVEB	x2	910
FCQHG71FVEB	x2	925
FAQ71CVEB	x2	910
FHQG71CVEB	x2	962
FBQ71C8VEB	x2	1003
FBQ140C8VEB	x1	993
FCQG140FVEB	x1	925
FCQHG140FVEB	x1	951
FVQ140CVEB	x1	951
FHQG140CVEB	x1	977

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NOTES

- In accordance with EN/IEC 61000-3-12⁽¹⁾, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with $S_{sc}^{(2)} \geq$ minimum Ssc value.

- ⁽¹⁾ European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and \leq 75A per phase.

- ⁽²⁾ Short-circuit power

3 Electrical data

3 - 1 Electrical Data

3

RZQSG100-125L8Y1

Unit combination restrictions		Power supply			COMP		OFM		IFM			
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ50A2VEB	RZQSG100L8Y1B	3N~ 50Hz	380- 415V	MAX. 50Hz 456V MIN. 50Hz 342V	14,6	16	-	11,4	0,2	0,6	2x0.06	2x0.5
3xFNQ35A2VEB	RZQSG100L8Y1B				14,5	16	-	11,4	0,2	0,6	3x0.034	3x0.3
2xFNQ60A2VEB	RZQSG125L8Y1B				14,7	16	-	11,4	0,2	0,6	2x0.06	2x0.5
3xFNQ50A2VEB	RZQSG125L8Y1B				15,2	16	-	11,4	0,2	0,6	3x0.06	3x0.5
4xFNQ35A2VEB	RZQSG125L8Y1B				14,9	16	-	11,4	0,2	0,6	4x0.034	4x0.3

Notes

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

Symbols

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

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RZQSG100-140L(8)Y1

Unit combination restrictions		Power supply			COMP		OFM		IFM			
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFBQ35D2VEB	RZQSG100L8Y1B	3N~ 50Hz	380- 415V	MAX. 50Hz 456V MIN. 50Hz 342V	15,4	16	-	11,4	0,2	0,6	3x0.089	3x0.6
FBQ125D2VEB	RZQSG125L8Y1B				15,2	16	-	11,4	0,2	0,6	0,187	1,5
2xFBQ60D2VEB	RZQSG125L8Y1B				14,7	16	-	11,4	0,2	0,6	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG125L8Y1B				15,5	16	-	11,4	0,2	0,6	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG125L8Y1B				16,1	20	-	11,4	0,2	0,6	4x0.089	4x0.6
FBQ140D2VEB	RZQSG140L7Y1B				18,5	20	-	14,2	0,094 + 0,094	0,4 + 0,4	0,187	1,5
2xFBQ71D2VEB	RZQSG140L7Y1B				18	20	-	14,2	0,094 + 0,094	0,4 + 0,4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG140L7Y1B				18,8	20	-	14,2	0,094 + 0,094	0,4 + 0,4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG140L7Y1B				19,4	25	-	14,2	0,094 + 0,094	0,4 + 0,4	4x0.089	4x0.6

Notes

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

Symbols

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

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3 Electrical data

3 - 1 Electrical Data

RZQSG100L8Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ100D2VEB	RZQSG100L8Y1B	3N~ 50Hz	380~ 415V	MAX. 50Hz 456V MIN. 50Hz 342V	14.6	16	-	11.4	0.2	0.6	0.127	1.0
2xFBQ50D2VEB	RZQSG100L8Y1B				14.8	16	-	11.4	0.2	0.6	2x0.089	2x0.6

Notes

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

Symbols

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

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RZQSG140LY1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFNQ50A2VEB	RZQSG140L7Y1B	3N~ 50Hz	380~ 415V	MAX. 50Hz 456V MIN. 50Hz 342V	18.5	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQSG140L7Y1B				18.2	20	-	14.2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3

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

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4 Options

4 - 1 Options

4

RZQSG-L(8)Y1

Available options for RZQSG models:

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

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NOTES

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

5 Combination table

5 - 1 Combination Table

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

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

*) 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	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	FCQ107FVEB	
RZQSG71L3V1B	P			2																								
RZQSG100L9V1B	RZQSG100L6Y1B	P			3	2																						
RZQSG125L9V1B	RZQSG125L6Y1B		P		4	3	2																					
RZQSG140L9V1B	RZQSG140L7Y1B	2		P	4	3	2																					

Sky Air	Duct (medium ESP)				Concealed floor standing type	
Model	FBQ30D2VEB	FBQ30D2VEB	FBQ30D2VEB	FBQ30D2VEB	FBQ30D2VEB	FBQ30D2VEB
RZQSG71L3V1B	2					2
RZQSG100L9V1B	RZQSG100L6Y1B	3	2			3
RZQSG125L9V1B	RZQSG125L6Y1B	4	3	2		4
RZQSG140L9V1B	RZQSG140L7Y1B	4	3	2		4

Notes

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

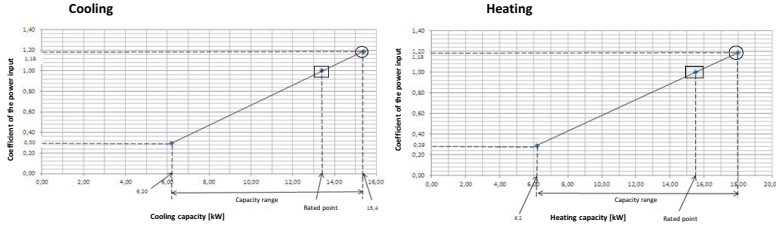
Twin : KHRQ22M20TA or KHRQ58T
 Triple : KHRQ127H or KHRQ58H
 Double twin : KHRQ22M20TA or KHRQ58T

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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZQSG140L9V1
RZQSG140LY1



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		Outdoor temperature (°C DB)											
		25			30			35			40		
Indoor		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	15.5	10.47	0.98	14.9	10.25	1.08	14.4	10.03	1.18	13.9	9.69	1.28
18.0	25	16.2	10.55	0.98	15.6	10.21	1.09	15.1	10.01	1.19	14.5	9.71	1.30
19.0	27	16.6	10.43	0.99	16.0	10.18	1.09	15.4	9.99	1.19	14.8	9.76	1.30
19.5	27	16.7	10.48	0.99	16.1	10.16	1.10	15.6	10.00	1.19	15.0	9.66	1.30
22.0	30	17.6	10.37	0.99	17.0	10.16	1.10	16.4	9.83	1.21	15.8	9.60	1.31
24.0	32	18.4	10.20	1.00	17.7	10.00	1.11	17.0	9.67	1.22	16.4	9.47	1.32

Heating		Outdoor temperature (°C WB)																							
		-15.0			-10.0			-5.0			0.0			6.0			10.0								
Indoor		TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI								
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	18.0	1.09	19.4	1.16	18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	18.0	1.14	19.4	1.21
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	18.0	1.19	19.4	1.25	21	11.5	1.00	12.7	1.06	13.5	1.11	13.9	1.13	18.0	1.21	19.4	1.28
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.24	19.4	1.30	24	11.5	1.07	12.6	1.12	13.5	1.17	13.9	1.20	18.0	1.29	19.4	1.35

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions
□ = Rated capacity and rated coefficient of the power input
The maximum capacity is not guaranteed except at standard conditions.
 - SHC is based on indoor units EWB & EDB.
SHC for other dry-bulb temperatures = SHC + SHC*
SHC* = SHC correction for other dry-bulb temperatures
= 0.02 × AFR (m³/min) × (1-BF) × (DB* - EDB)
 - The capacities are based on the following conditions:
Outdoor air: 85% RH
However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
 - CPI is a percentage value compared to the rated value which is 1.00.
 - The error rate for this value is less than 5% and depends on the indoor unit type.
 - The heating performance takes into account the drop that occurs during defrost operation.
 - The air flow rate and bypass factor are mentioned in the table.

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

Pair	FCQHG140F	FCQSG140F	FRJ140C	FRQJ140C	FVQ140C	FRHJ140C	FRJ140D
AFR	33.5	33.0	39.0	34.0	30.0	34.0	34.0
(BF)	(0.15)	(0.23)	(0.34)	(0.17)	(0.18)	(0.17)	(0.08)

Pair	FCQHG140F	FCQSG140F	FRJ140C	FRQJ140C	FVQ140C	FRHJ140C	FRJ140D
Cooling	4.17	4.45	4.44	4.45	4.45	4.45	4.38
Heating	4.29	4.54	4.54	4.54	4.54	4.54	4.56

Twin	FCQHG71F x 2	FCQSG71F x 2	FRJ210C x 2	FRQJ210C x 2	FAQ210C x 2	FRHJ210C x 2	FRJ210D x 2	FUQ210C x 2
AFR	31.2 x 2	21.5 x 2	38.0 x 2	28.5 x 2	28.0 x 2	28.0 x 2	28.0 x 2	23.0 x 2
(BF)	(0.21 x 2)	(0.14 x 2)	(0.08 x 2)	(0.13 x 2)	(0.16 x 2)	(0.13 x 2)	(0.13 x 2)	(0.24 x 2)

Twin	FCQHG71F x 2	FCQSG71F x 2	FRJ210C x 2	FRQJ210C x 2	FAQ210C x 2	FRHJ210C x 2	FRJ210D x 2	FUQ210C x 2
Cooling	4.11	4.29	4.17	4.01	4.23	4.01	4.17	4.99
Heating	4.23	4.48	4.54	4.71	4.52	4.71	4.56	4.94

Triple	FCQHG91F x 3	FRQJ91C x 3	FRHJ91C x 3	FRQJ91C x 3	FRHJ91C x 3	FRQJ91C x 3	FRHJ91C x 3
AFR	12.6 x 3	15 x 3	15 x 3	12 x 3	15 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)

Triple	FCQHG91F x 3	FRQJ91C x 3	FRHJ91C x 3	FRQJ91C x 3	FRHJ91C x 3	FRQJ91C x 3	FRHJ91C x 3
Cooling	4.40	4.17	4.57	4.43	4.58	4.17	4.56
Heating	4.48	4.94	5.67	4.39	4.61	4.94	4.61

Double twin	FCQSG91F x 4	FRQJ91C x 4	FRHJ91C x 4	FRQJ91C x 4	FRHJ91C x 4	FRQJ91C x 4	FRHJ91C x 4
AFR	12.5 x 4	16.4	14 x 4	10 x 4	8.7 x 4	15 x 4	8.7 x 4
(BF)	(0.4 x 4)	(0.15 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

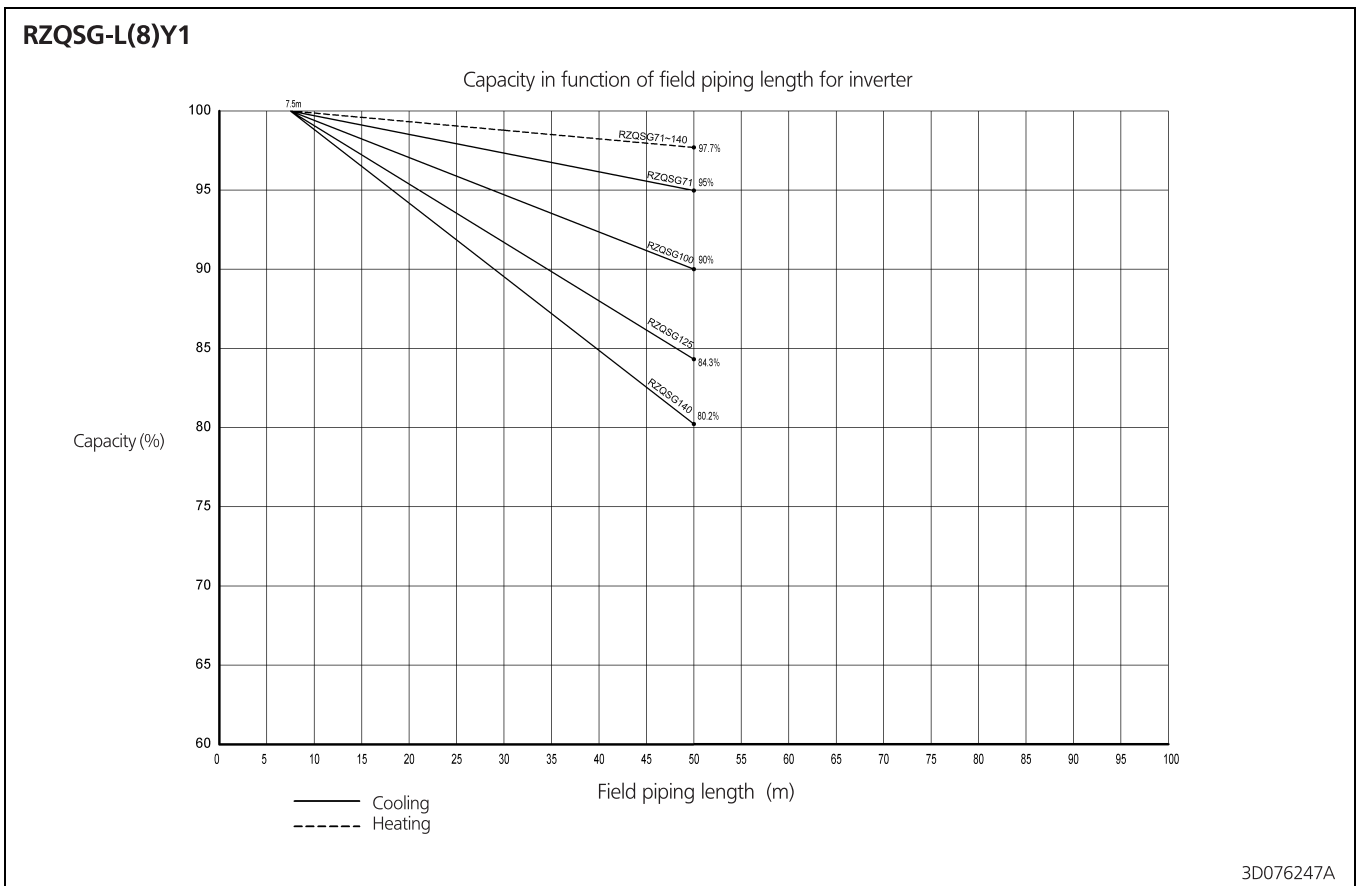
Double twin	FCQSG91F x 4	FRQJ91C x 4	FRHJ91C x 4	FRQJ91C x 4	FRHJ91C x 4	FRQJ91C x 4	FRHJ91C x 4
Cooling	4.56	4.17	4.65	4.11	5.80	4.17	5.80
Heating	4.54	4.94	5.57	4.05	6.09	4.94	6.09

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6 Capacity tables

6 - 2 Capacity Correction Factor

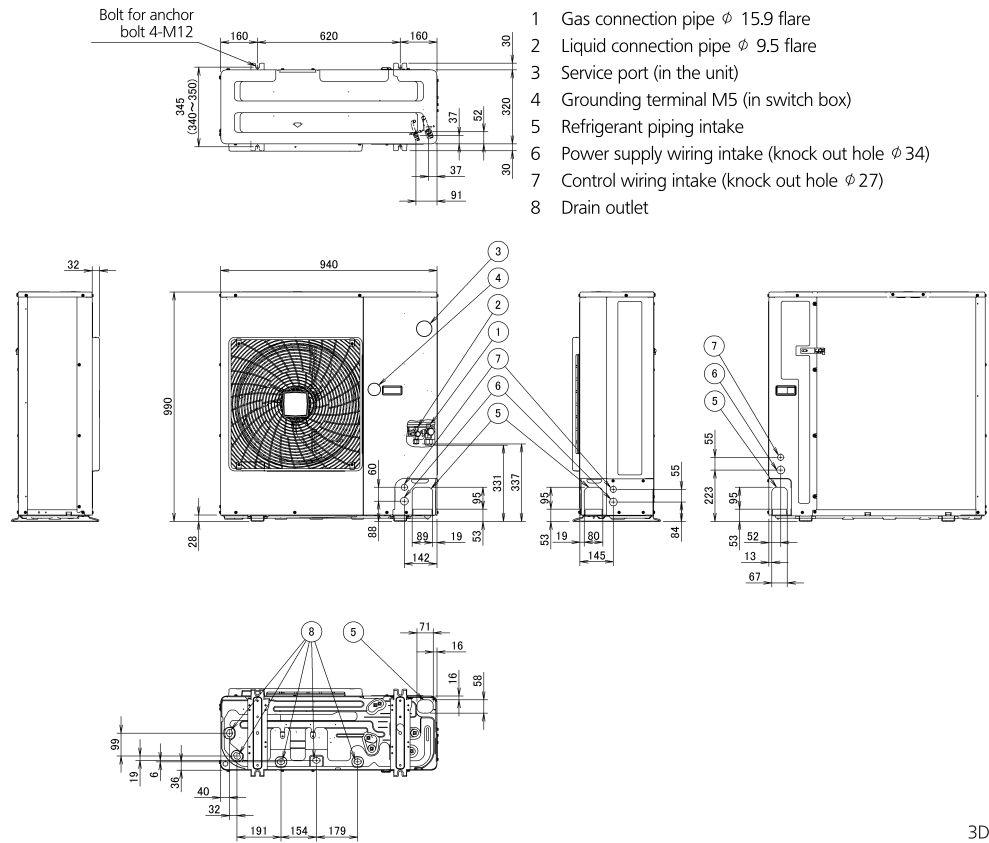
6



7 Dimensional drawings

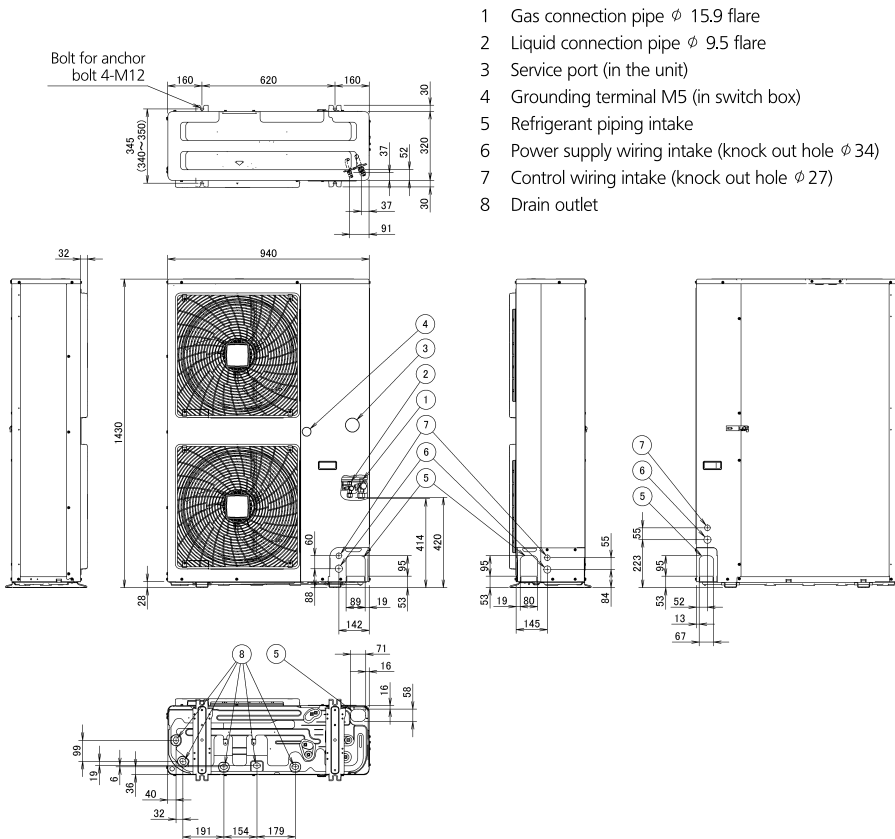
7 - 1 Dimensional Drawings

RZQSG100-125L8Y1



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RZQSG140LY1



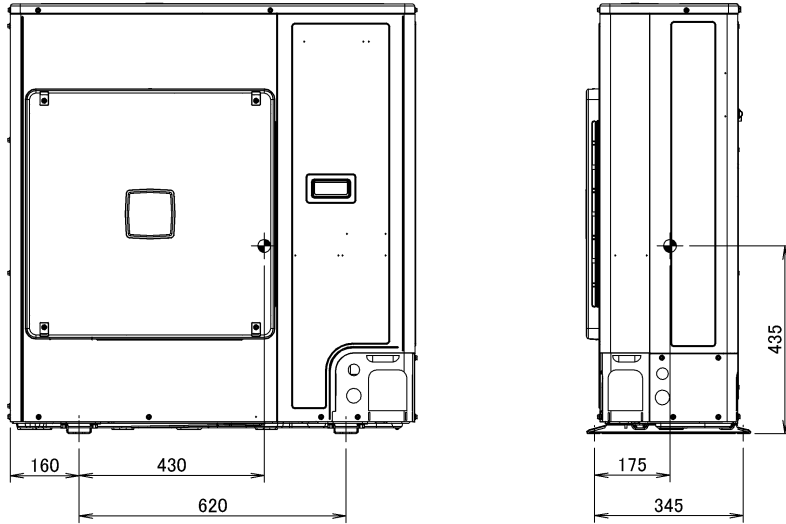
3D076346

8 Centre of gravity

8 - 1 Centre of Gravity

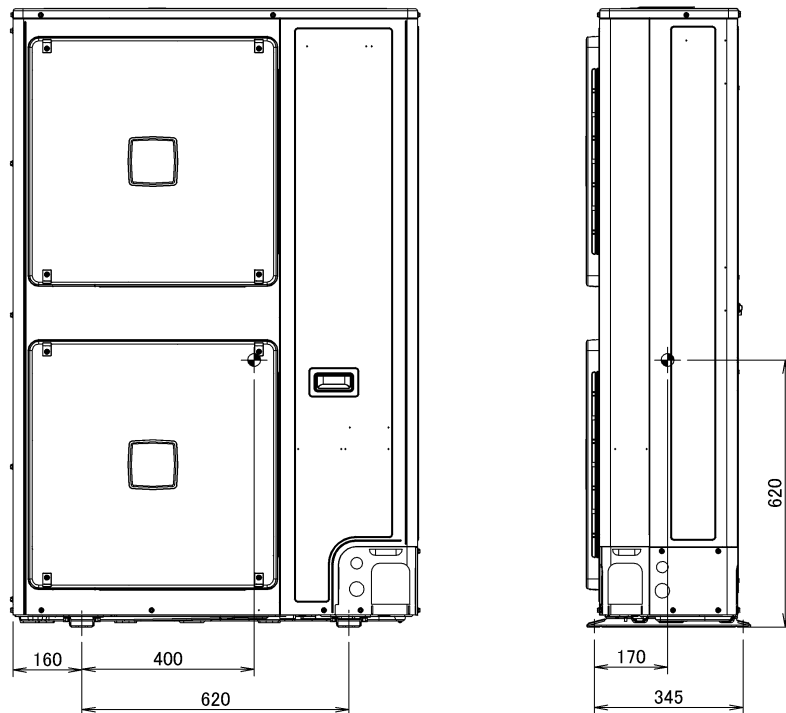
8

RZQSG100-125L8Y1



4D077809

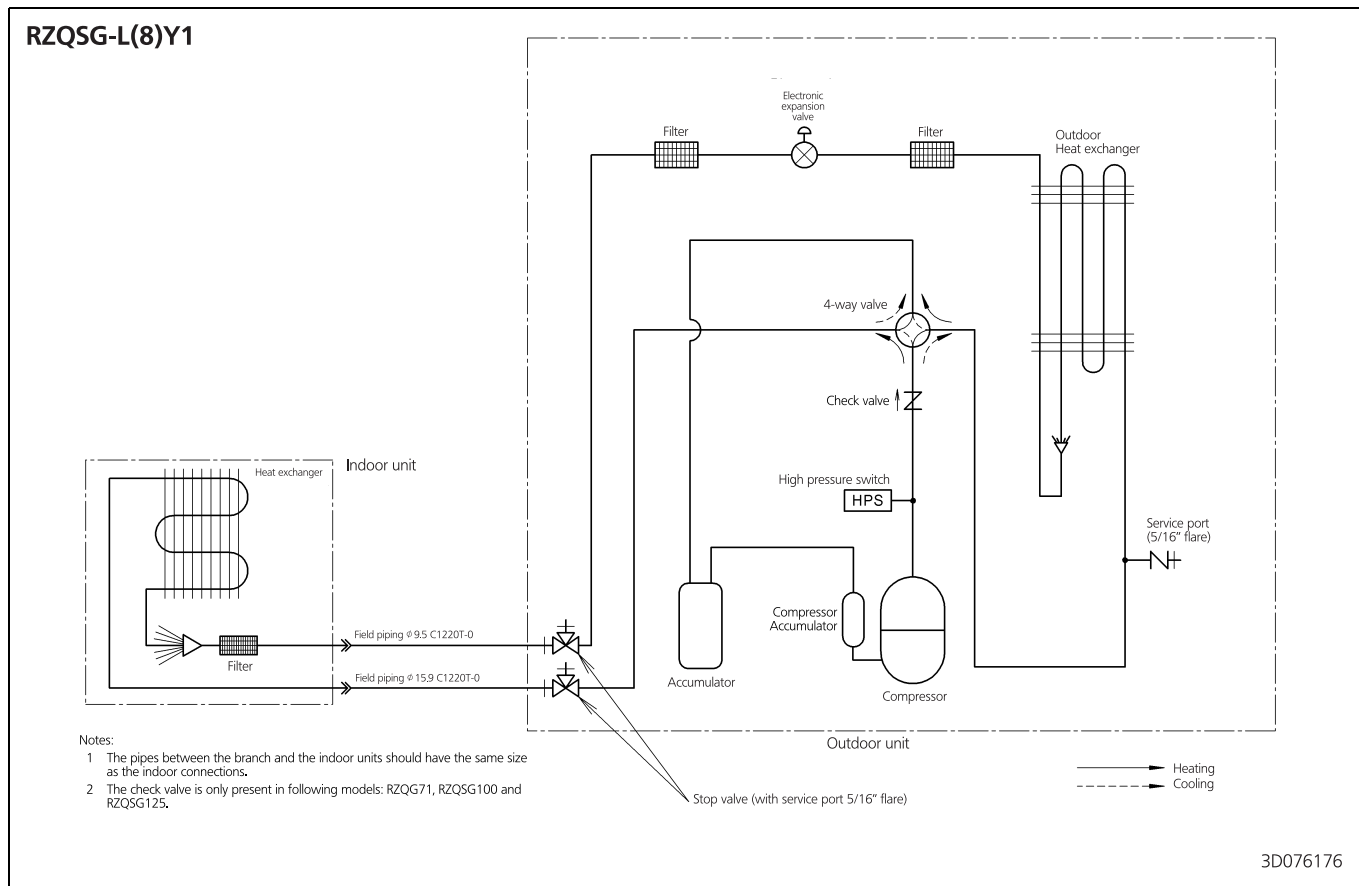
RZQSG140LY1



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9 Piping diagrams

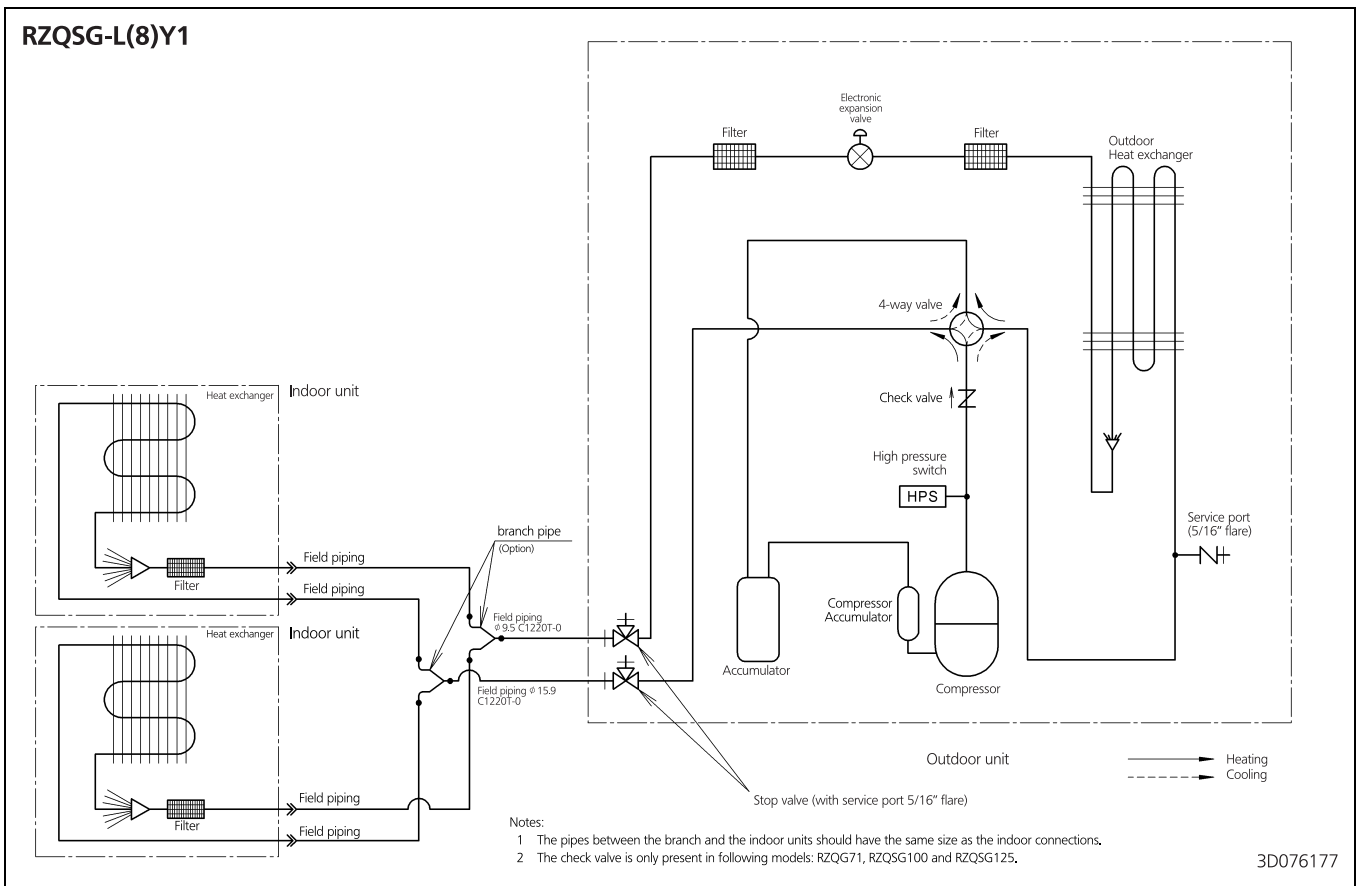
9 - 1 Piping Diagrams



9 Piping diagrams

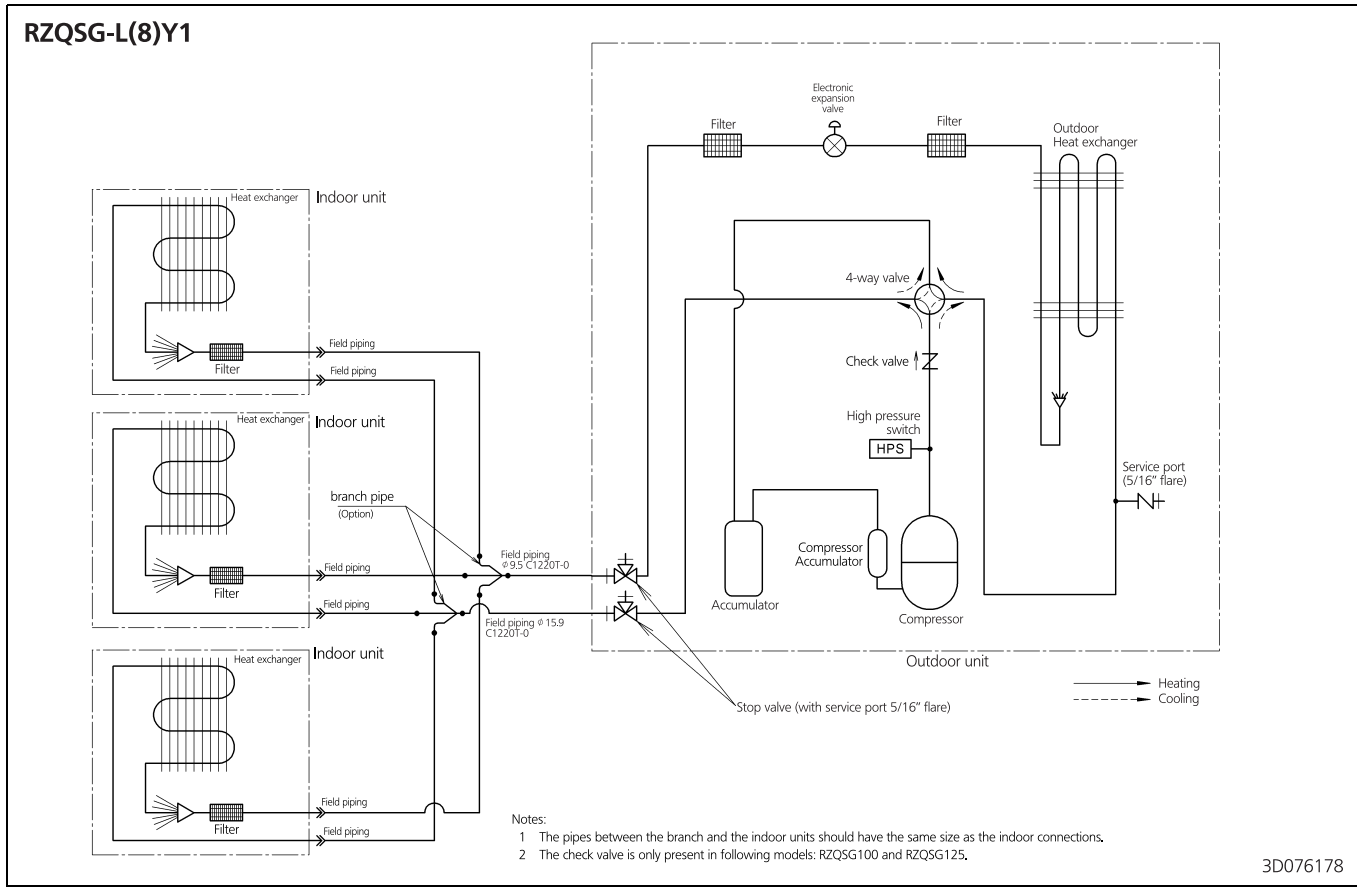
9 - 2 Piping Diagram Twin Application

9



9 Piping diagrams

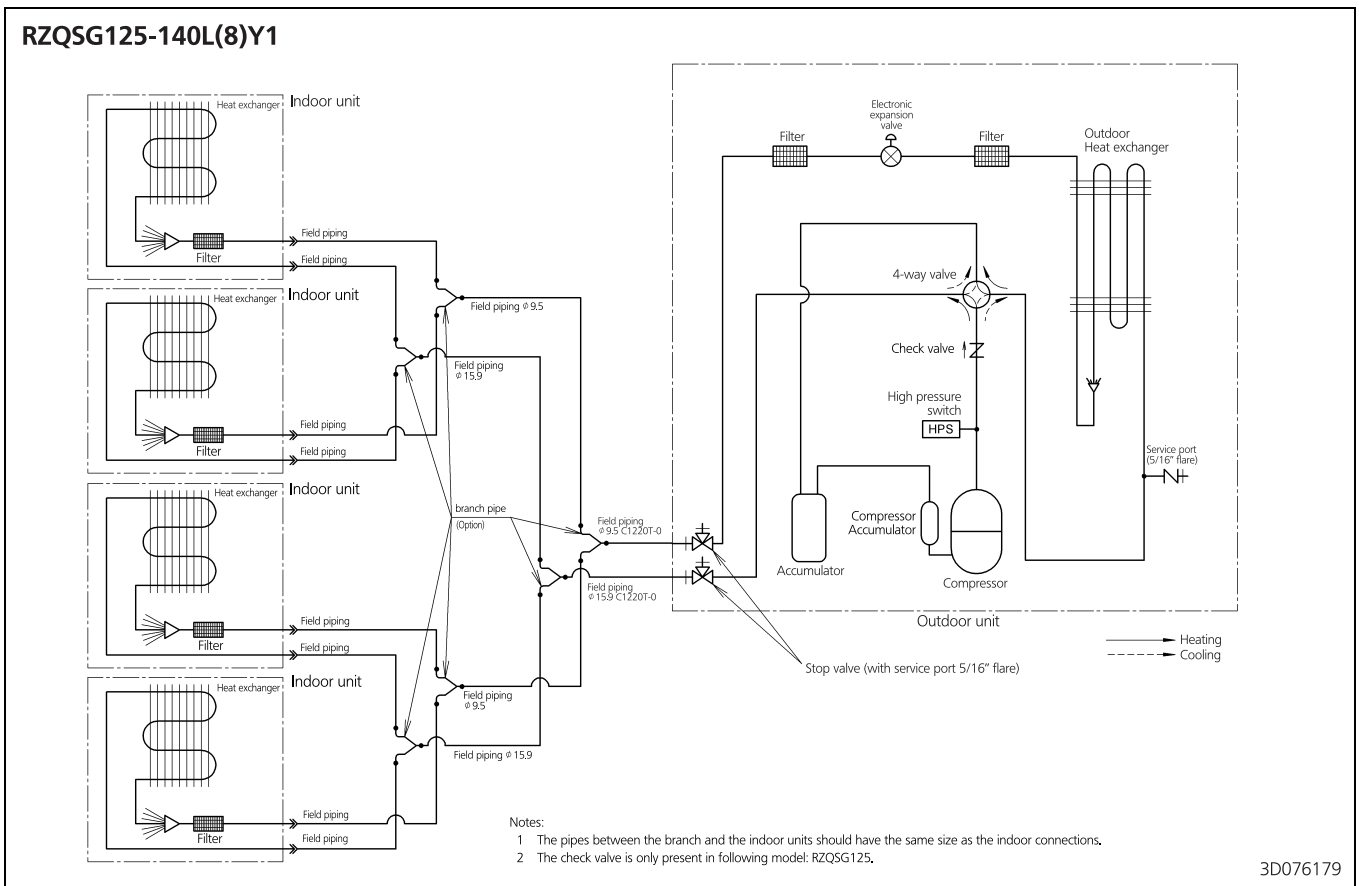
9 - 3 Piping Diagram Triple Application



9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

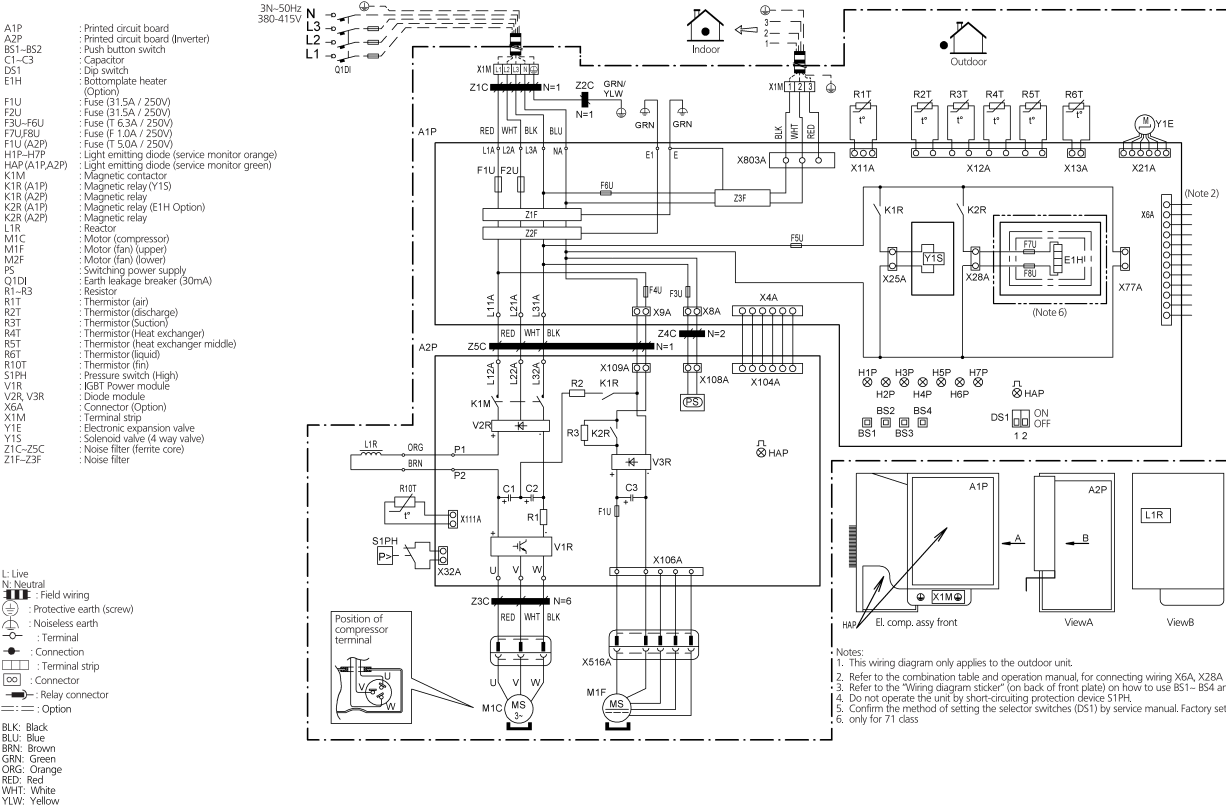
9



10 Wiring diagrams

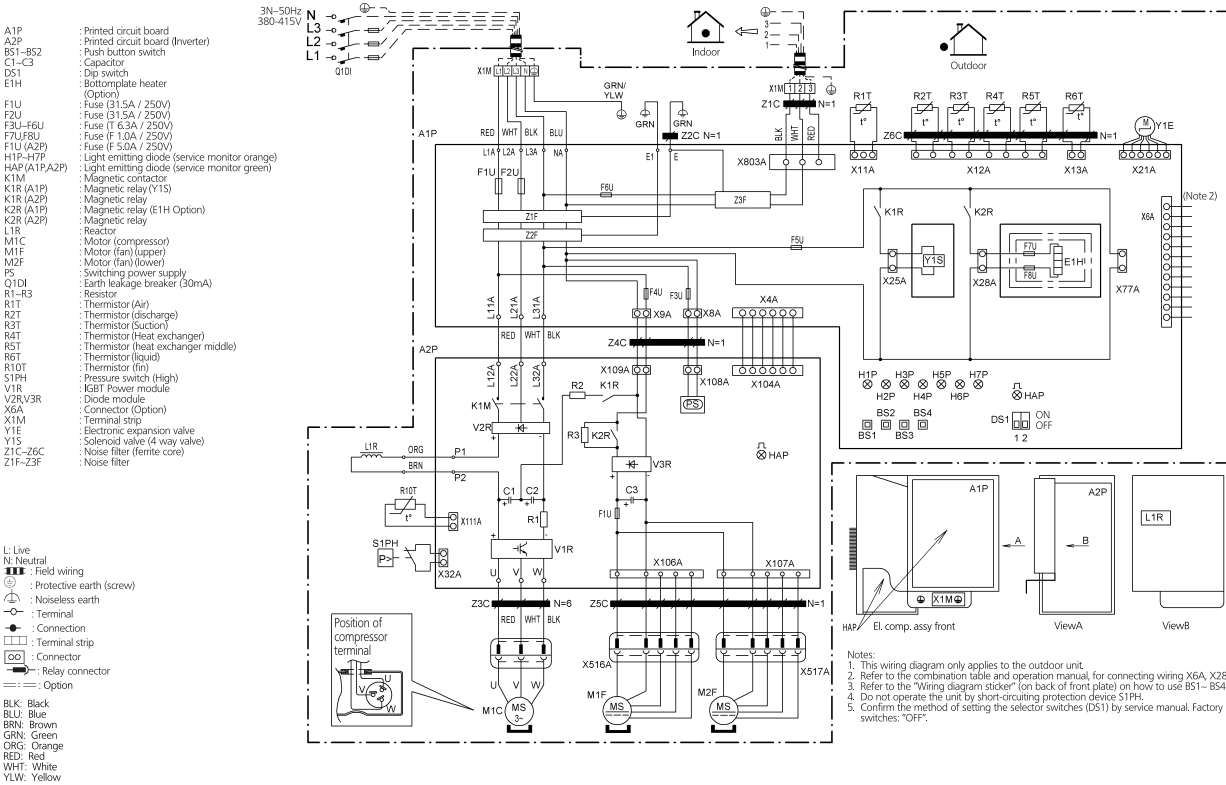
10 - 1 Wiring Diagrams - Three Phase

RZQSG100-125L8Y1



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RZQSG140LY1

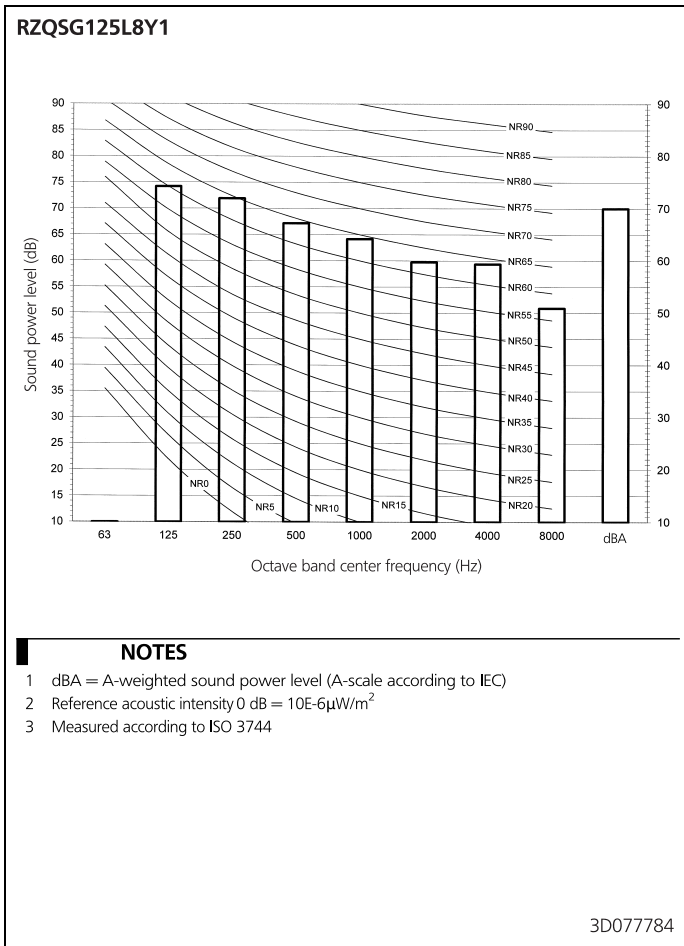
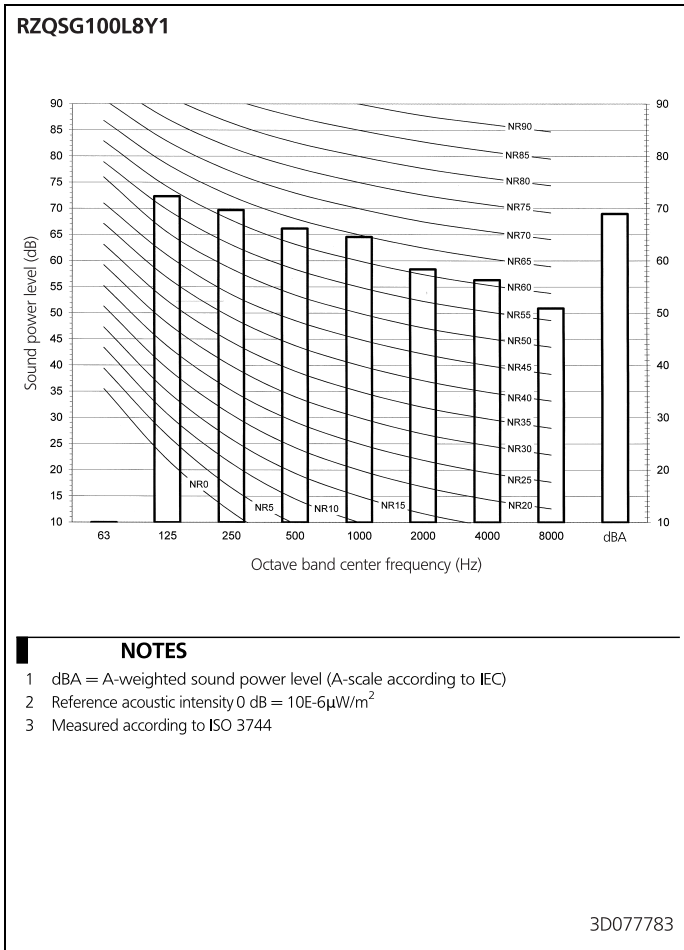


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11 Sound data

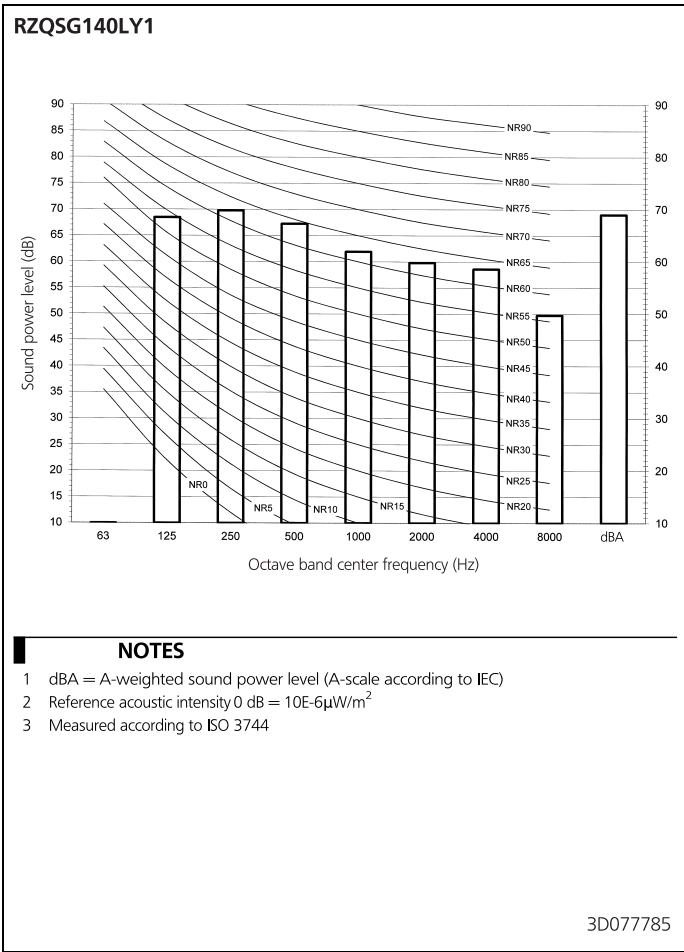
11 - 1 Sound Power Spectrum

11



11 Sound data

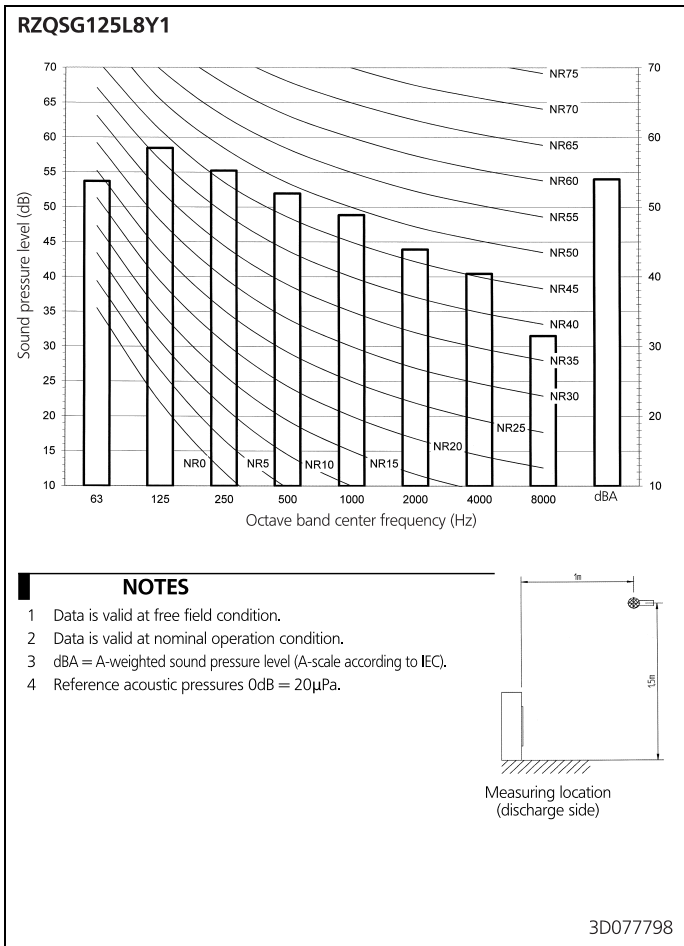
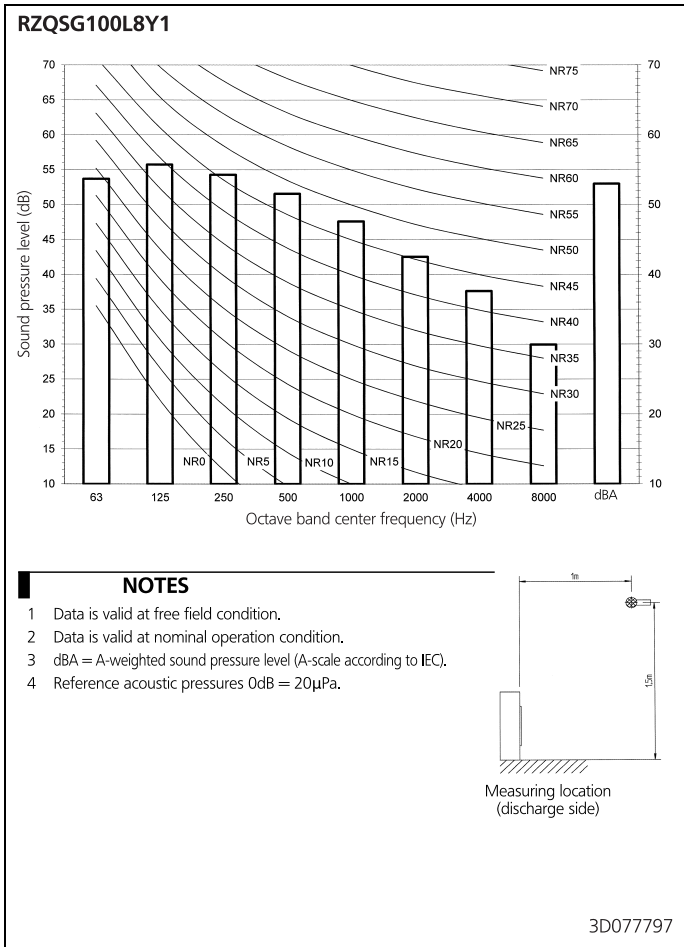
11 - 1 Sound Power Spectrum



11 Sound data

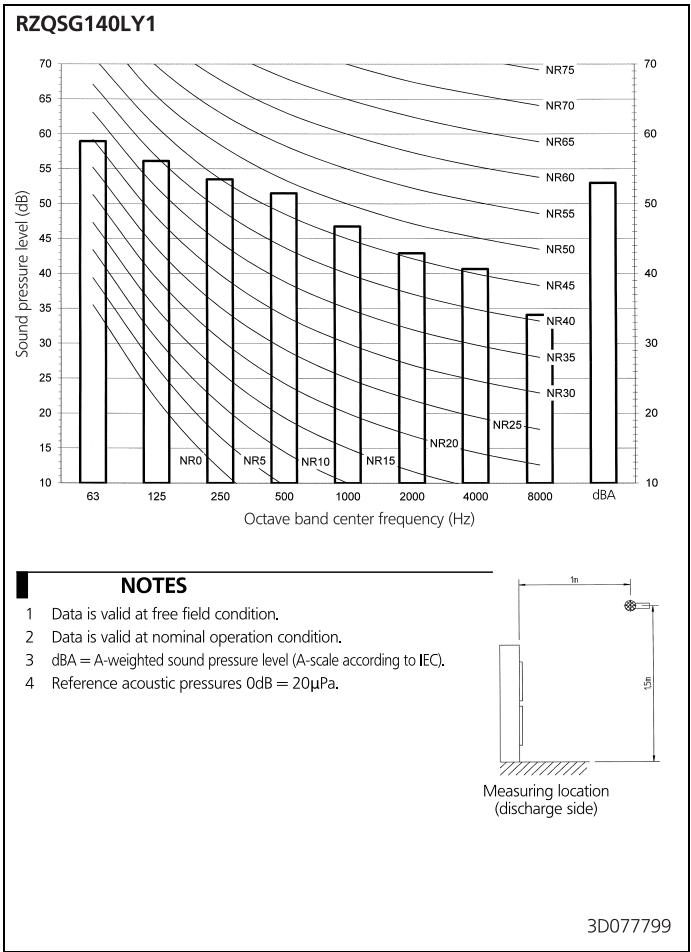
11 - 2 Sound Pressure Spectrum - Cooling

11



11 Sound data

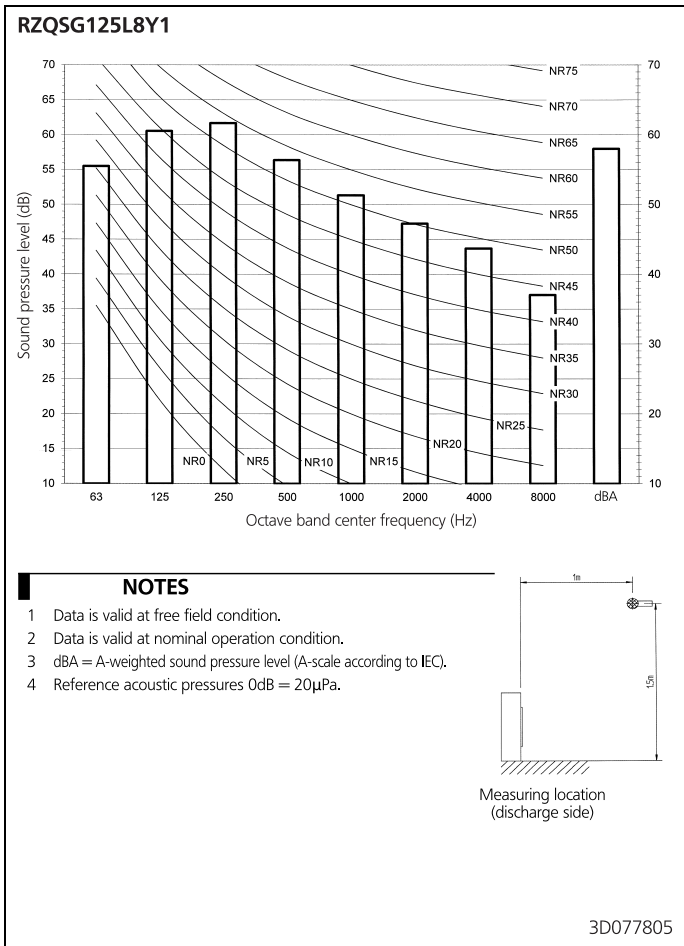
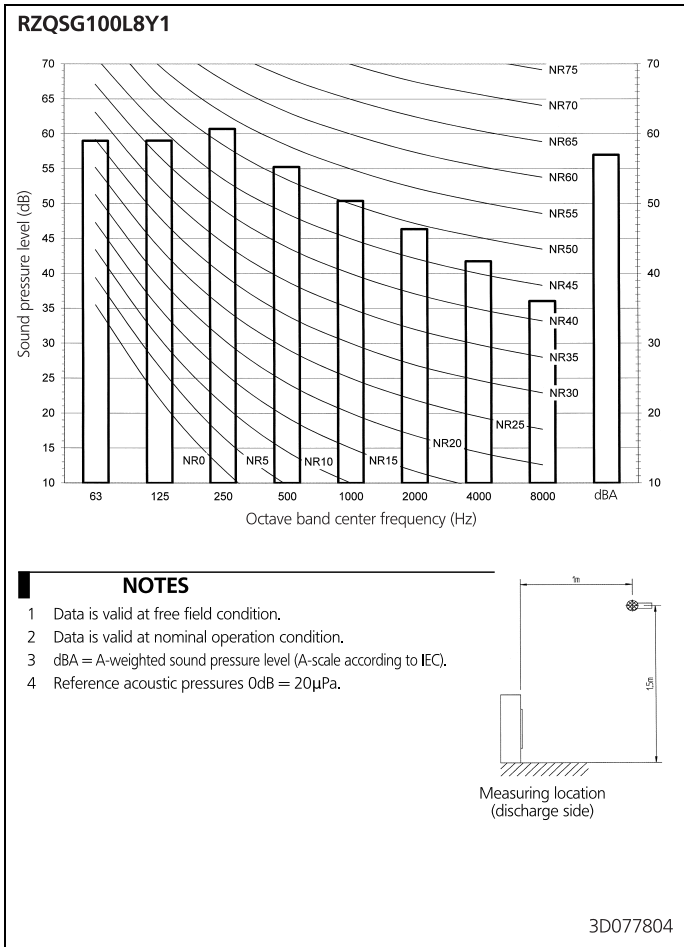
11 - 2 Sound Pressure Spectrum - Cooling



11 Sound data

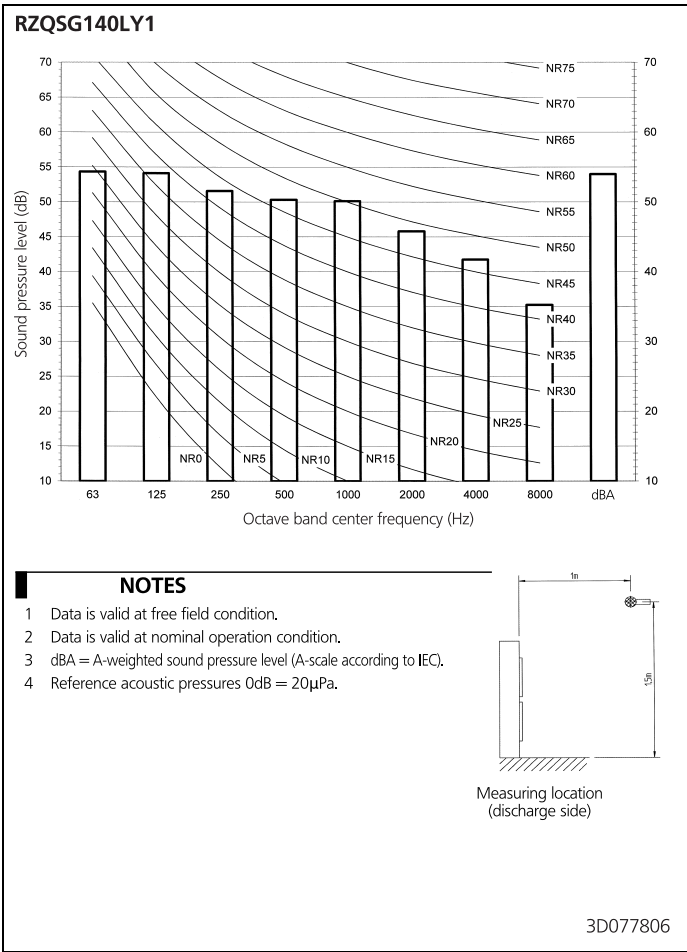
11 - 3 Sound Pressure Spectrum - Heating

11



11 Sound data

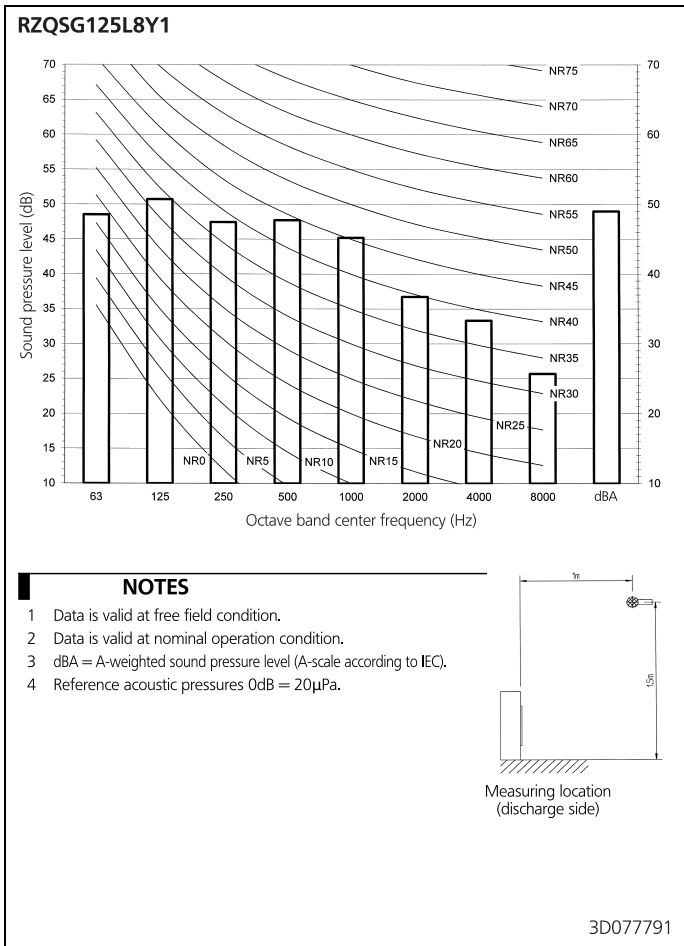
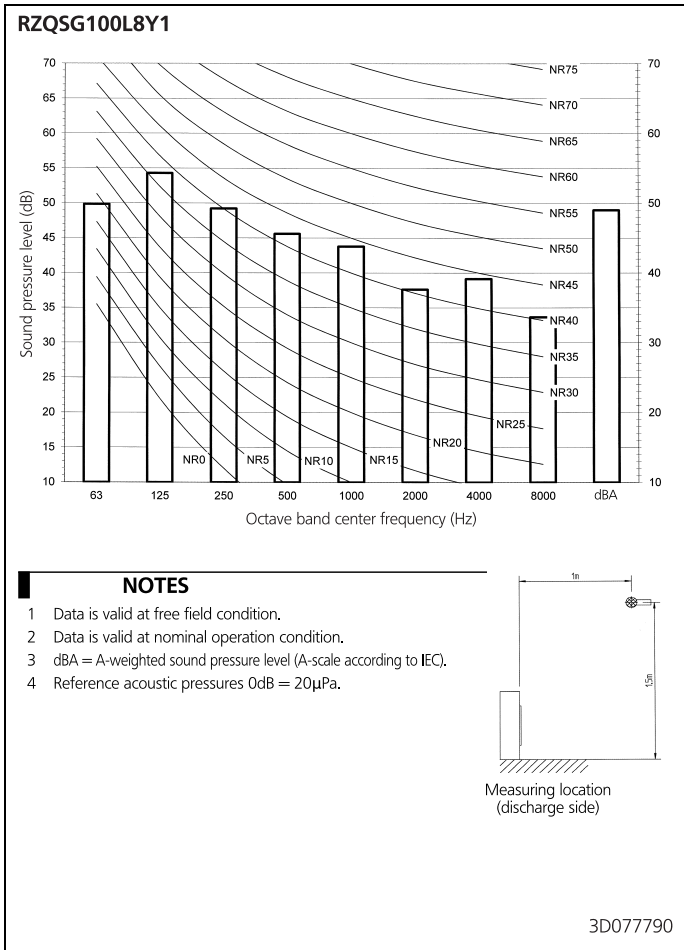
11 - 3 Sound Pressure Spectrum - Heating



11 Sound data

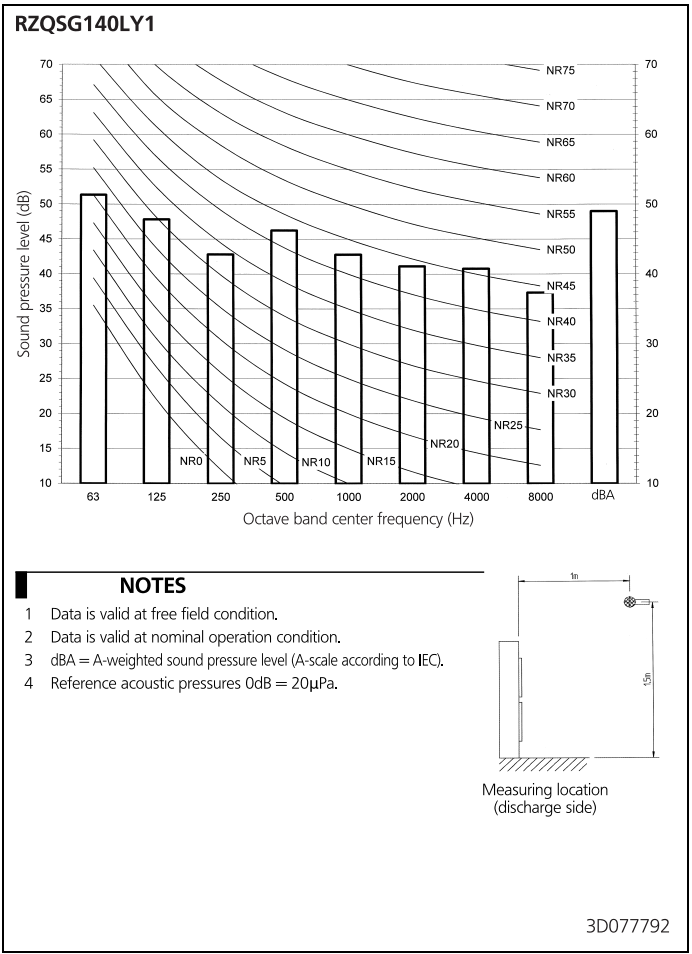
11 - 4 Sound Pressure Spectrum Quiet Mode

11



11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode



12 Installation

12 - 1 Installation Method

12

RZQSG-L(8)Y1

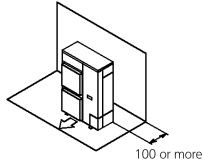
Installation service space

The measure of these values is "mm".

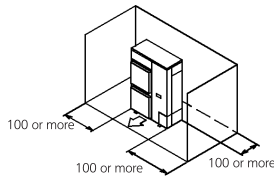
(A) When there are obstacles on suction sides.

• No obstacle above

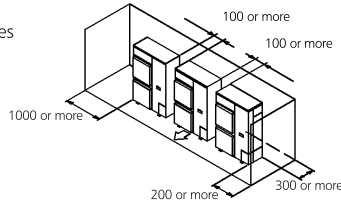
- ① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

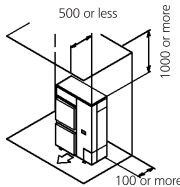


- ② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

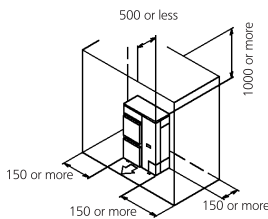


• Obstacle above, too.

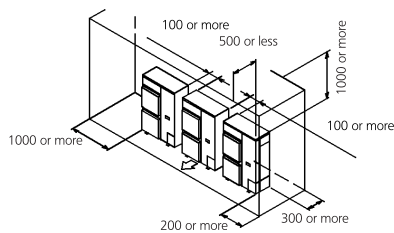
- ① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



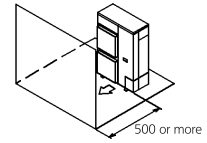
- ② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



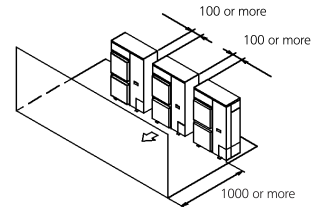
(B) When there are obstacles on discharge sides.

• No obstacle above

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

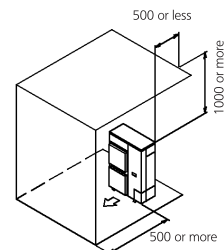


- ② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

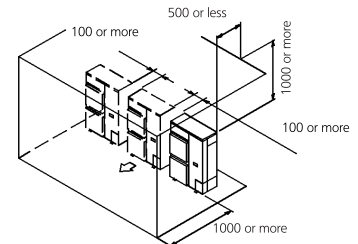


• Obstacle above, too

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



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



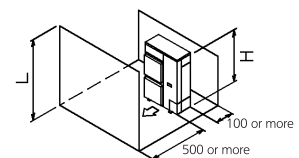
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

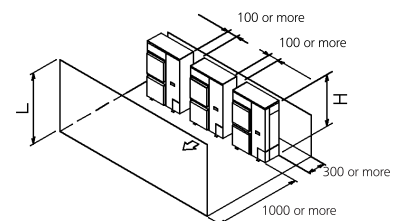
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
- No obstacle above



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



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12 Installation

12 - 1 Installation Method

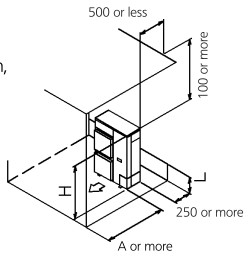
RZQSG-L(8)Y1

● Obstacle above, too

- ① Stand-alone installation (Note 2)
- When there are obstacles on suction, discharge and top sides.

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

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

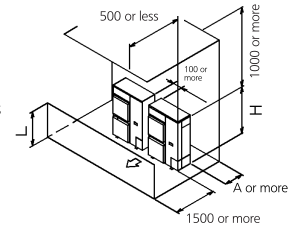


- ② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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

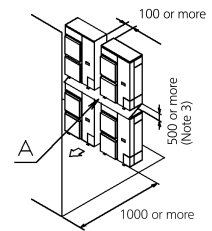
	L	A
$L \leq H$	$L \leq 1/2 H$	250 or more
	$1/2 H < L \leq H$	300 or more
$L > H$	Set the stand as: $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.

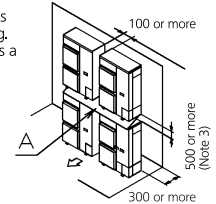


(D) Double-decker installation

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



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

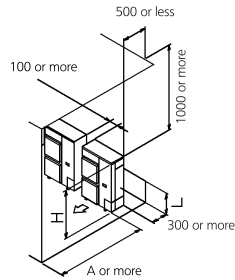


- ② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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

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

Limit of series installation is 2 units.

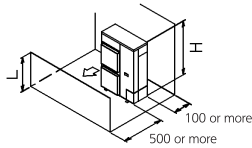


Pattern 2

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

● No obstacle above

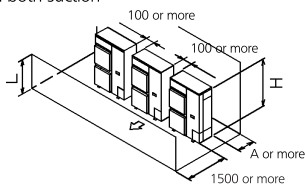
- ① Stand-alone installation
- No obstacle above



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

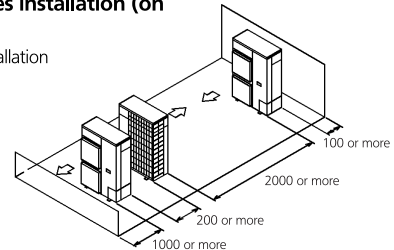
The relations between H, A and L are as follows.

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



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

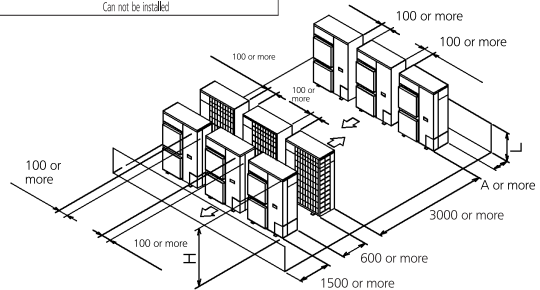
- ① One row of stand-alone installation



- ② Rows of series installation (2 or more)

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

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



NOTES

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

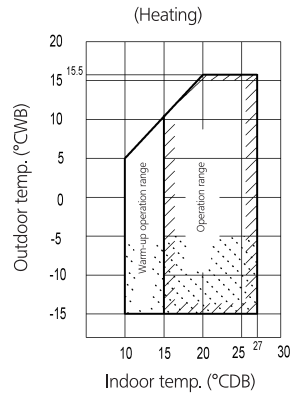
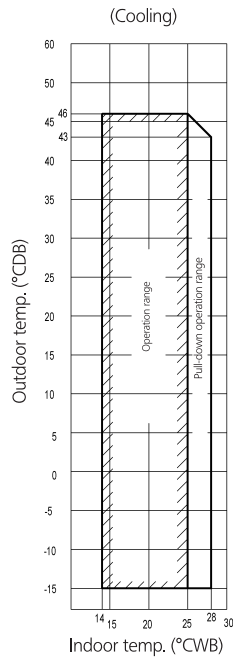
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13 Operation range


13 - 1 Operation Range

13

RZQSG-L(8)Y1



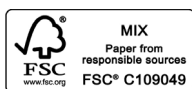
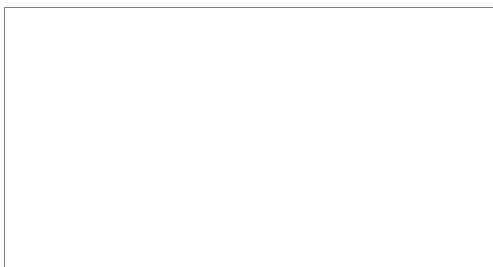
Notes:

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

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