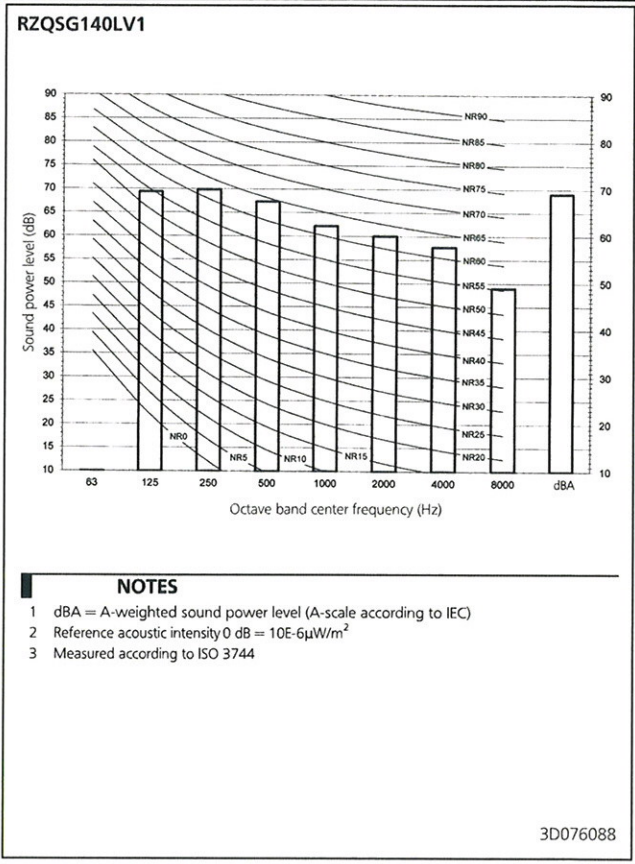
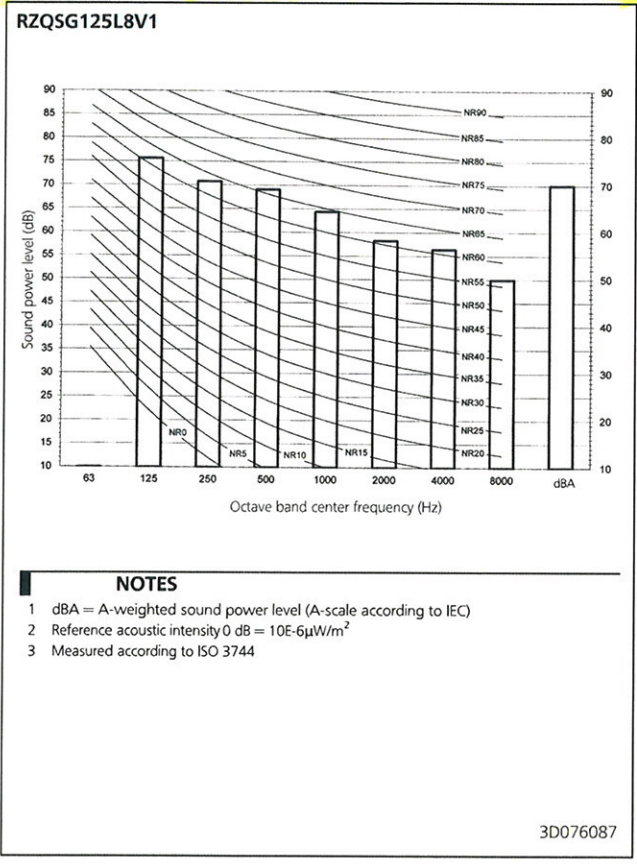
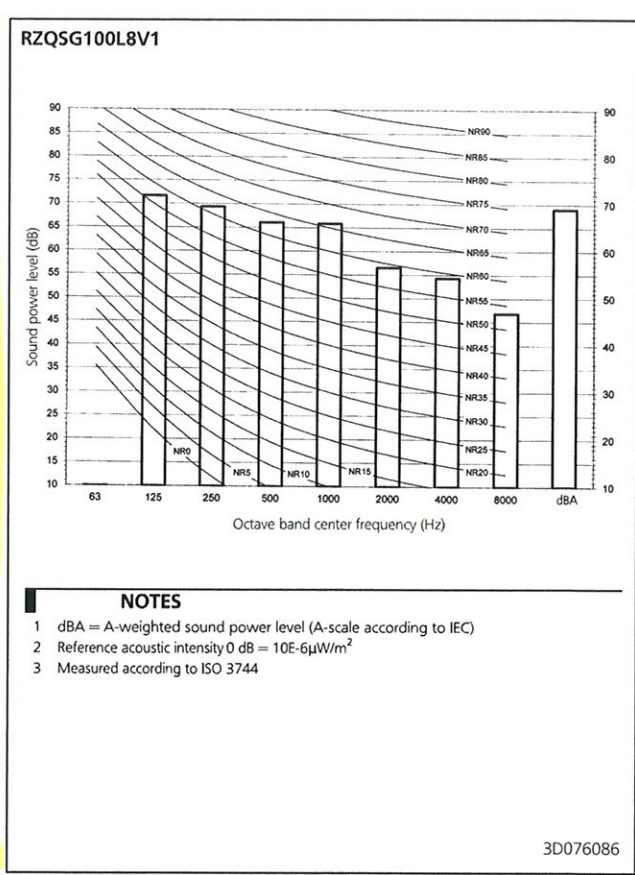
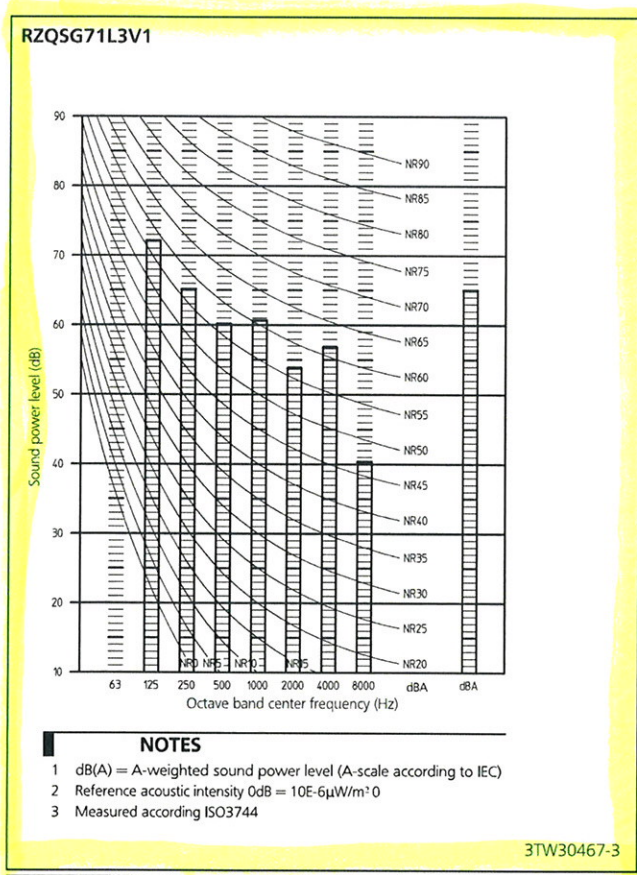


11 Sound data

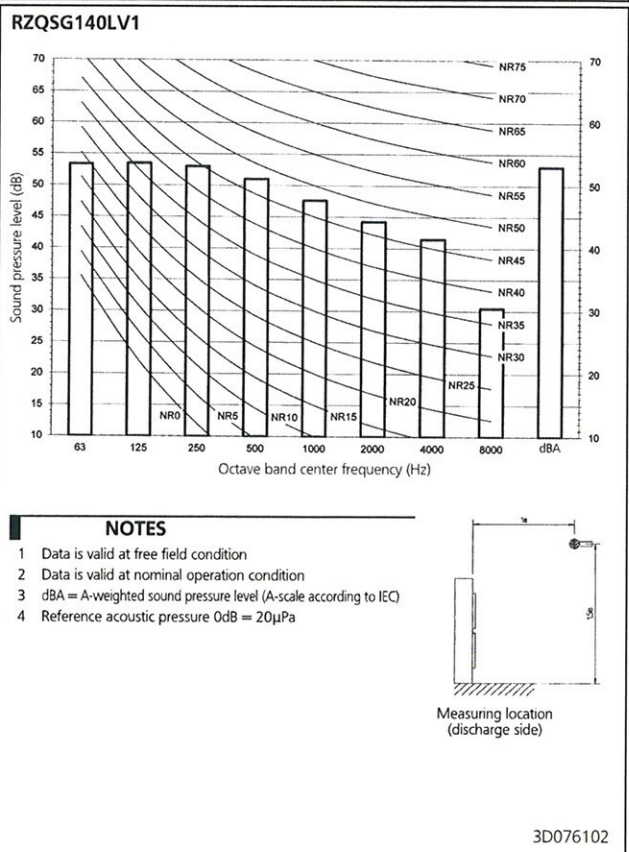
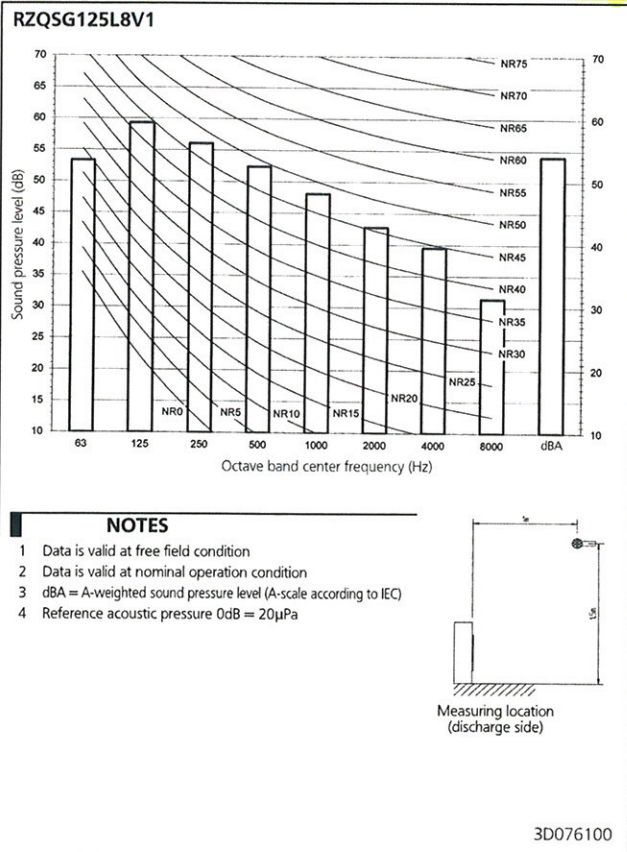
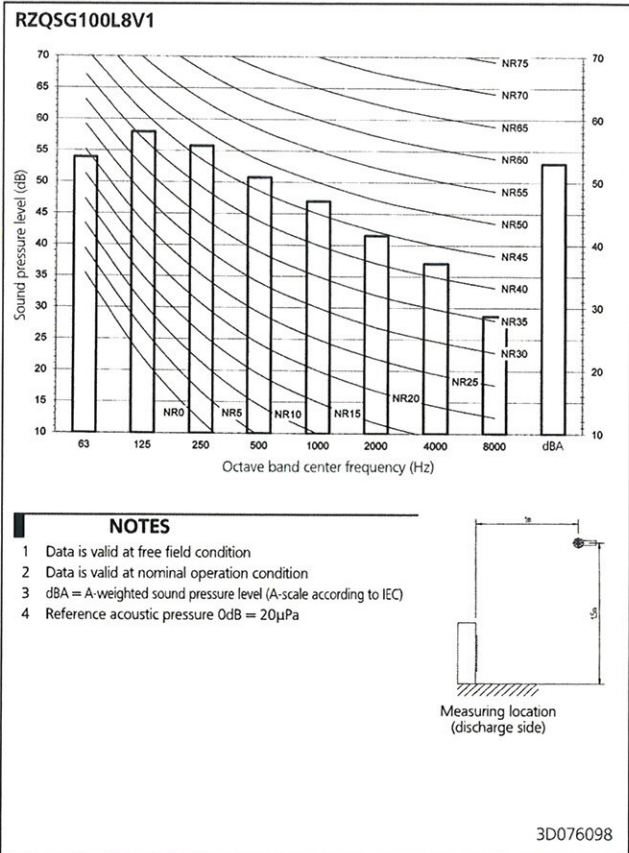
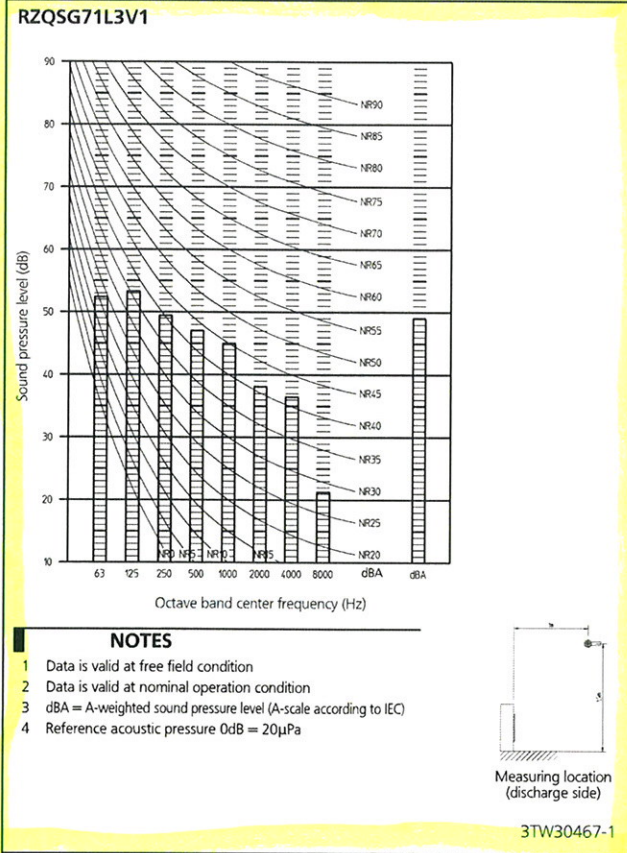
11 - 1 Sound Power Spectrum

11



11 Sound data

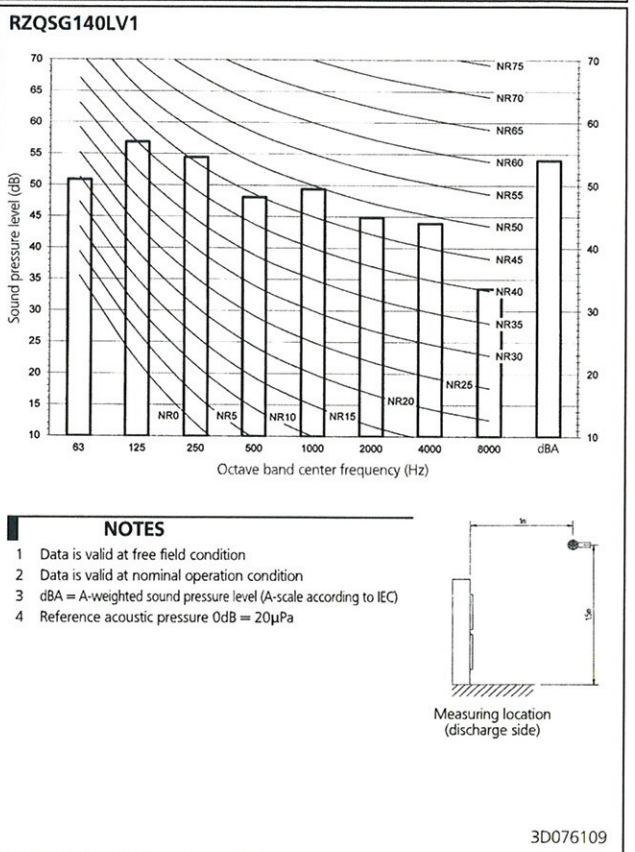
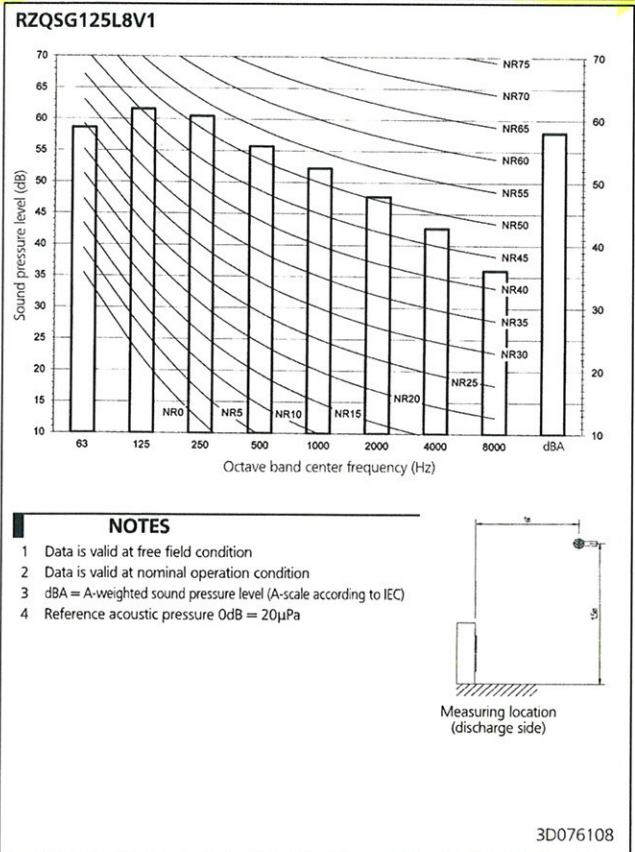
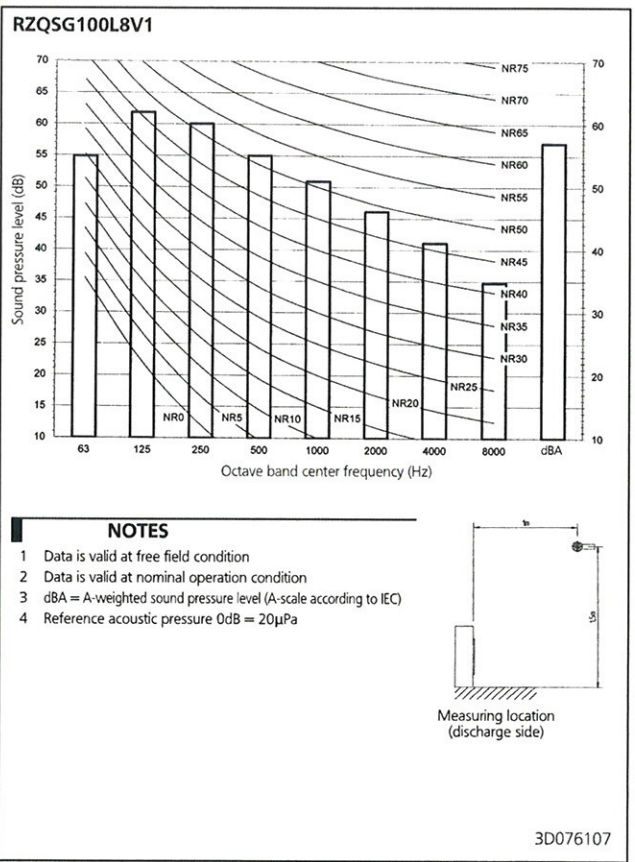
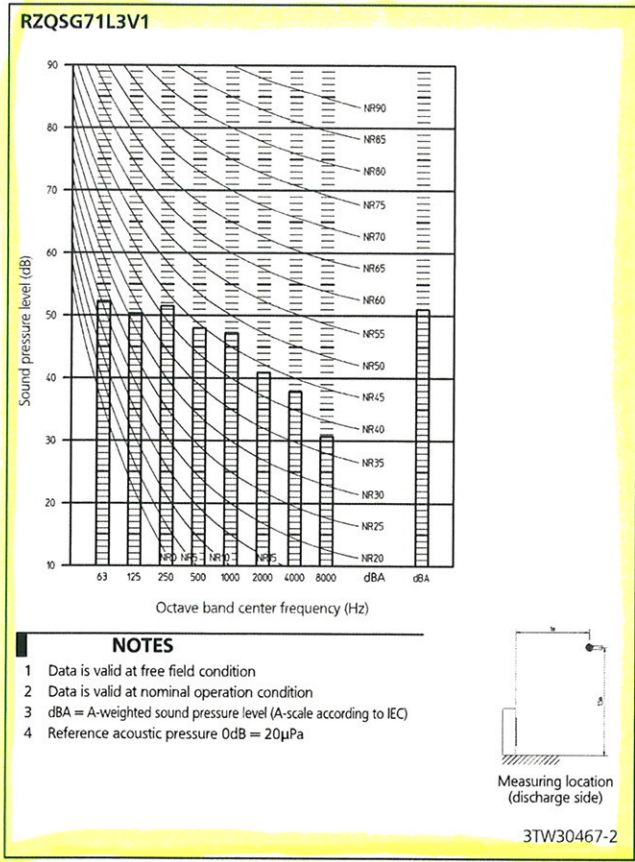
11 - 2 Sound Pressure Spectrum - Cooling



11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

11



2 Specifications

2-1 Nominal Capacity And Nominal Input				FCQHG71F/ RZQSG71L3V1	FCQHG100F/ RZQSG100L8V1	FCQHG125F/ RZQSG125L8V1	FCQHG140F/ RZQSG140L1V1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.	kW	1.94	2.57	3.71	4.17
	Heating	Nom.	kW	1.83	2.51	3.60	4.29
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		6.50	6.70	5.40	-
		Annual energy consumption	kWh	366	496	778	-
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	7.60	8.03		-
		SCOP		4.15	4.30	4.10	-
		Annual energy consumption	kWh	2,563	2,614	2,741	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.50	3.70	3.23	3.21
	COP			4.10	4.30	3.75	3.61
	Annual energy consumption		kWh	970	1,285	1,855	2,085
	Energy label	Cooling			A		-
		Heating			A		-

Notes

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

2-2 Nominal Capacity And Nominal Input				FCQG71F/RZQSG71L3V1	FCQG100F/ RZQSG100L8V1	FCQG125F/ RZQSG125L8V1	FCQG140F/ RZQSG140L1V1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.	kW	2.12	2.88	3.74	4.45
	Heating	Nom.	kW	2.08	3.05	3.96	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		6.10	6.50	5.30	-
		Annual energy consumption	kWh	390	512	792	-
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	6.33	7.60	8.03	-
		SCOP		4.10		4.01	-
		Annual energy consumption	kWh	2,162	2,595	2,803	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.21	3.30	3.21	3.01
	COP			3.61	3.54	3.41	
	Annual energy consumption		kWh	1,060	1,440	1,870	2,225
	Energy label	Cooling			A		-
		Heating		A		B	-

Notes

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

2-3 Nominal Capacity And Nominal Input				FAQ71C/RZQSG71L3V1	FAQ100C/RZQSG100L8V1
Cooling capacity	Nom.		kW	6.8	9.5
Heating capacity	Nom.		kW	7.5	10.8
Power input	Cooling	Nom.	kW	2.12	3.16
	Heating	Nom.	kW	2.08	3.17

2 Specifications

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2-3 Nominal Capacity And Nominal Input			FAQ71C/RZQSG71L3V1	FAQ100C/RZQSG100L8V1	
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A+		
		Pdesign	kW	6.80	9.50
		SEER		6.05	5.61
		Annual energy consumption	kWh	393	593
	Heating (Average climate)	Energy label	A		A+
		Pdesign	kW	6.00	6.81
		SCOP		3.90	4.01
		Annual energy consumption	kWh	2,155	2,378
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.21	3.01	
	COP		3.61	3.41	
	Annual energy consumption	kWh	1,060	1,580	
	Energy label	Cooling	A	B	
		Heating	A	B	

Notes

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

2-4 Nominal Capacity And Nominal Input			FVQ71C/RZQSG71L3V1	FVQ100C/RZQSG100L8V1	FVQ125C/RZQSG125L8V1	FVQ140C/RZQSG140L1V1	
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4	
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	2.12	2.96	4.27	4.45
	Heating	Nom.	kW	2.08	2.99	3.96	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A			-	
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		5.50			-
		Annual energy consumption	kWh	433	605	764	-
	Heating (Average climate)	Energy label	A		A+	A	-
		Pdesign	kW	6.33	7.60		-
		SCOP		3.86	4.01	3.85	-
		Annual energy consumption	kWh	2,296	2,653	2,764	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.21		2.81	3.01	
	COP		3.61		3.41		
	Annual energy consumption	kWh	1,060	1,480	2,135	2,225	
	Energy label	Cooling	A		C	-	
		Heating	A		B	-	

Notes

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

2-5 Nominal Capacity And Nominal Input			FBQ71C8/RZQSG71L3V1	FBQ100C8/RZQSG100L8V1	FBQ125C8/RZQSG125L8V1	FBQ140C8/RZQSG140L1V1	
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4	
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	2.07	2.87	3.74	4.44
	Heating	Nom.	kW	2.08	2.96	3.85	4.54

2 Specifications

2-5 Nominal Capacity And Nominal Input			FBQ71C8/RZQSG71L3V1	FBQ100C8/ RZQSG100L8V1	FBQ125C8/ RZQSG125L8V1	FBQ140C8/ RZQSG140L1V1	
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A+	A		-	
		Pdesign	kW	6.80	9.50	12.00	
		SEER		5.81	5.50	5.20	
		Annual energy consumption	kWh	410	605	808	
	Heating (Average climate)	Energy label		A	A+	A	-
		Pdesign	kW	6.00	7.60		-
		SCOP		3.88	4.01	3.90	-
Annual energy consumption		kWh	2,166	2,653	2,728	-	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.28	3.31	3.21	3.02	
	COP		3.61	3.65	3.51	3.41	
	Annual energy consumption		kWh	1,035	1,435	1,870	2,220
	Energy label	Cooling		A			-
		Heating		A		B	-

Notes

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

2-6 Nominal Capacity And Nominal Input			FDQ125C/RZQSG125L8V1			
Cooling capacity	Nom.	kW	12.0			
Heating capacity	Nom.	kW	13.5			
Power input	Cooling	Nom.	kW	3.74		
	Heating	Nom.	kW	3.85		
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A			
		Pdesign	kW	12.00		
		SEER		5.20		
		Annual energy consumption	kWh	808		
	Heating (Average climate)	Energy label	A			
		Pdesign	kW	7.60		
		SCOP		3.90		
	Annual energy consumption	kWh	2,728			
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.21			
	COP		3.51			
	Annual energy consumption		kWh	1,870		
	Energy label	Cooling	A			
		Heating	B			

Notes

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

2-7 Nominal Capacity And Nominal Input			FHQ71C/RZQSG71L3V1	FHQ100C/ RZQSG100L8V1	FHQ125C/ RZQSG125L8V1	FHQ140C/RZQSG140L1V1	
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4	
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	1.97	2.96	4.15	4.45
	Heating	Nom.	kW	1.88	2.99	3.73	4.54

2 Specifications

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2-7 Nominal Capacity And Nominal Input				FHQ71C/RZQSG71L3V1	FHQ100C/ RZQSG100L8V1	FHQ125C/ RZQSG125L8V1	FHQ140C/RZQSG140L1V1	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+			-	
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		5.61			-	
	Heating (Average climate)	Annual energy consumption		kWh	424	593	749	-
		Energy label		A			A+	-
		Pdesign	kW	7.60			-	
		SCOP		3.90			3.91	4.01
Annual energy consumption		kWh	2,727	2,721	2,653	-		
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.46			3.21	2.89	3.01
	COP		4.00			3.61	3.62	3.41
	Annual energy consumption		kWh	985	1,480	2,075	2,225	
	Energy label	Cooling		A			C	-
		Heating		A			-	-

Notes

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

2-8 Technical Specifications				RZQSG71L3V1	RZQSG100L8V1	RZQSG125L8V1	RZQSG140L1V1	
Capacity control	Method			Inverter controlled				
Casing	Colour			Ivory white				
	Material			Painted galvanized steel plate				
Dimensions	Unit	Height	mm	770	990	940	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	81	102		
	Packed unit		kg	71	92	115		
Heat exchanger	Length		mm	857	-			
	Rows	Quantity		2	-			
	Fin pitch		mm	1.4	-			
	Passes	Quantity		8	-			
	Face area		m ²	0.641	-			
	Stages	Quantity		34	-			
	Empty tubeplate hole	Quantity		0	-			
	Tube type				ø8 Hi-XSS	-		
	Fin	Type		WF fin				
		Treatment		Anti-corrosion treatment (PE)				
Compressor	Quantity			1				
	Model			2YC63DXD	-			
	Type			Hermetically sealed swing compressor				
	Output		W	1,700	-			
	Starting method			Inverter driven				
Fan	Type			Propeller fan				
	Discharge direction			Horizontal				
	Quantity			1		2		
	Air flow rate	Cooling	Nom.	m ³ /min	52	76	77	83
			Super low	m ³ /min cfm	-			
		Heating	Nom.	m ³ /min	48	83		62
Super low			m ³ /min cfm	-				

2 Specifications

2-8 Technical Specifications				RZQSG71L3V1	RZQSG100L8V1	RZQSG125L8V1	RZQSG140LV1	
Fan motor	Quantity			1		2		
	Model			KFD-325-70-8A				
	Output			W	70	200	94	
	Drive			Direct drive				
	Speed	Steps			8			
		Cooling	Nom.	rpm	800			
Super low			rpm	-				
Heating		Nom.	rpm	745				
	Super low	rpm	-					
Sound power level	Cooling			dBA	65	69	70	69
	Heating			dBA	-			
Sound pressure level	Cooling	Nom.	dBA	49	53	54	53	
		Silent operation		dBA	47			
	Heating	Nom.	dBA	51	57	58	54	
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	2.75	2.9	4.0	
	Control			Expansion valve (electronic type)				
	GWP			1,975				
	Circuits	Quantity			1			
Refrigerant oil	Type			FVC50K				
	Charged volume			l	0.75	0.9	1.35	
Piping connections	Liquid	Quantity			1			
		Type			Flare connection			
		OD	mm	9.52				
	Gas	Quantity			1			
		Type			Flare connection			
		OD	mm	15.9				
	Drain	Quantity			3	5		
		Type			Hole			
		ID	mm	-				
	Piping length	OU - IU	Min.	m	5			
			Max.	m	50			
		System	Equivalent	m	40	70		
			Chargeless	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					
Defrost method				Pressure equalising	Reversed cycle			
Defrost control				Sensor for outdoor heat exchanger temperature				
Safety devices	Item	01			High pressure switch			
		02			Fan motor thermal protection	Fan driver overload protector		
		03			Fuse			

2 Specifications

2

2-9 Electrical Specifications			RZQSG71L3V1	RZQSG100L8V1	RZQSG125L8V1	RZQSG140LV1
Power supply	Name		V1			
	Phase		1~			
	Frequency	Hz	50			
	Voltage		V			
	Voltage range		220-240			
	Min.	%	10			
	Max.	%	10			
Current	Zmax	List	-	Complies to EN61000-3-11		
	Recommended fuses		A	25	40	
Current - 50Hz	Maximum fuse amps (MFA)		A	20	32	
Current - 60Hz	Maximum fuse amps (MFA)		A	-		
Wiring connections	For power supply	Remark	-	See installation manual outdoor unit		
	For connection with indoor	Remark	-	See installation manual outdoor unit		
Power supply intake			Outdoor unit only			

Notes

- (1) See separate drawing for electrical data
- (2) 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 $\leq 75A$ per phase.
- (3) Short-circuit power
- (4) Related to 3D076918
- (5) PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC
- (6) Equipment complying with EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current $\gt 16A$ and $\leq 75A$ per phase
- (7) See separate drawings for electrical data