



Air Conditioners

Technical Data

Outdoor unit - Optimized for seasonal efficiency



EEDEN12-100

RZQSG-LV1

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RZQSG-LV1

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1 Features

- Seasonal efficiency, optimized for all seasons.
- Seasonal efficiency gives an indication on how efficient an air conditioner operates over an entire heating or cooling season.
- Re-use of existing R-22 or R-407C technology
- The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- Maximum piping length up to 50m, minimum piping length has no limitation
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall



2 Specifications

2-1 Nominal Capacity And Nominal Input				FCQHG71FVEB / RZQSG71L2V1B	FCQHG100FVEB / RZQSG100L7V1B	FCQHG125FVEB / RZQSG125L7V1B	FCQHG140FVEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	2.12	2.57	3.71	4.17
	Heating	Nom.	kW	2.08	2.51	3.60	4.29
EER				3.21	3.70	3.23	3.21
COP				3.61	4.30	3.75	3.61
SEER				-	5.70 (6)	5.21 (6)	-
SCOP				-	3.91 (6)	3.81 (6)	-
Annual energy consumption			kWh	1,059	1,285	1,855	2,085
Energy label	Cooling	A					
	Heating	A					

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2-1 Nominal Capacity And Nominal Input				FCQG71FVEB / RZQSG71L2V1B	FCQG100FVEB / RZQSG100L7V1B	FCQG125FVEB / RZQSG125L7V1B	FCQG140FVEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	1.94	2.88	3.74	3.45
	Heating	Nom.	kW	1.83	3.05	3.96	4.54
EER				3.5	3.30	3.21	3.01
COP				4.1	3.54	3.41	
SEER				-	5.11 (6)		-
SCOP				-	3.80 (6)	3.81 (6)	-
Annual energy consumption			kWh	971	1,440	1,870	1,725
Energy label	Cooling	A					
	Heating	A					

Notes

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- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2 Specifications

2-1 Nominal Capacity And Nominal Input				FAQ71CVEB / RZQSG71L2V1B	FAQ100CVEB / RZQSG100L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)
Power input	Cooling	Nom.	kW	2.12	3.16
	Heating	Nom.	kW	2.08	3.17
EER				3.21	3.01
COP				3.61	3.41
SEER				-	4.61 (6)
SCOP				-	3.81 (6)
Annual energy consumption			kWh	1,059	1,580
Energy label	Cooling			A	B
	Heating			A	B

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2-1 Nominal Capacity And Nominal Input				FVQ71CVEB / RZQSG71L2V1B	FVQ100CVEB / RZQSG100L7V1B	FVQ125CVEB / RZQSG125L7V1B	FVQ140CVEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	2.12	2.96	4.27	4.45
	Heating	Nom.	kW	2.08	2.99	3.96	4.54
EER				3.21		2.81	3.01
COP				3.61		3.41	
SEER				-	5.11 (6)	4.31 (6)	-
SCOP				-	3.80 (6)	3.81 (6)	-
Annual energy consumption			kWh	1,059	1,480	2,135	2,225
Energy label	Cooling			A			B
	Heating			A			B

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2 Specifications

2-1 Nominal Capacity And Nominal Input				FBQ71C8VEB / RZQSG71L2V1B	FBQ100C8VEB / RZQSG100L7V1B	FBQ125C8VEB / RZQSG125L7V1B	FBQ140C8VEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	2.07	2.87	3.74	4.44
	Heating	Nom.	kW	2.08	2.96	3.85	4.54
EER				3.28	3.31	3.21	3.02
COP				3.61	3.65	3.51	3.41
SEER				-	5.11 (6)	4.35 (6)	-
SCOP				-	3.81 (6)		-
Annual energy consumption			kWh	1,037	1,435	1,870	2,220
Energy label	Cooling	A					B
	Heating	A					B

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2-1 Nominal Capacity And Nominal Input				FHQG71C8VEB / RZQSG71L2V1B	FHQG100C8VEB / RZQSG100L7V1B	FHQG125C8VEB / RZQSG125L7V1B	FHQG140C8VEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	1.97	2.96	4.15	4.45
	Heating	Nom.	kW	1.88	2.99	3.73	4.54
EER				3.46	3.21	2.89	3.01
COP				4.00	3.61	3.62	3.41
SEER				-	5.11 (6)	4.61 (6)	-
SCOP				-	3.80 (6)	3.81 (6)	-
Annual energy consumption			kWh	983	1,480	2,075	2,225
Energy label	Cooling	A					B
	Heating	A					B

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2 Specifications

2-1 Nominal Capacity And Nominal Input				FDQ125C7VEB / RZQSG125LV1B	
Cooling capacity	Nom.		kW	12.0 (3)	
Heating capacity	Nom.		kW	13.5 (4)	
Power input	Cooling	Nom.	kW	3.74	
	Heating	Nom.	kW	3.85	
EER				3.21	
COP				3.51	
SEER				4.35 (6)	
SCOP				3.81 (6)	
Annual energy consumption			kWh	1,870	
Energy label	Cooling			A	
	Heating			B	

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2-2 Technical Specifications					RZQSG71LV1		RZQSG100LV1		RZQSG125LV1		RZQSG140LV1		
Capacity control		Method				Inverter controlled							
Casing		Colour				Ivory white							
		Material				Painted galvanized steel plate							
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	81					102	
		Packed unit			kg	71	92					115	
Heat exchanger		Length			mm	857	904						
		Rows		Quantity			2						
		Fin pitch			mm	1.4							
		Passes		Quantity			8	12					16
		Face area			m²	0.641	0.87					1.273	
		Stages		Quantity			34	44					64
		Empty tubeplate hole		Quantity			0						
		Tube type				ø8 Hi-XSS		ø7 Hi-XSL					
		Fin		Type			WF fin						
				Treatment			Anti-corrosion treatment (PE)						
Fan		Type				Propeller fan							
		Discharge direction				Horizontal							
		Quantity				1					2		
		Air flow rate		Cooling		Nom.	m³/min	52	76	77	83		
						Super low	m³/min	-					
				Heating		cfm	-						
						Nom.	m³/min	48	83				
		Super low		cfm	-								
-													

2 Specifications

2-2 Technical Specifications					RZQSG71LV1	RZQSG100LV1	RZQSG125LV1	RZQSG140LV1
Fan motor	Quantity				1			2
	Model				KFD-325-70-8A	Brushless DC motor		
	Output		W	70	200		94	
	Drive				Direct drive			
	Speed	Steps			8			
		Cooling	Nom.	rpm	800	850	855	700
			Super low	rpm	-			
		Heating	Nom.	rpm	745	920		540
Super low			rpm	-				
Sound power level	Cooling	Nom.	dBA	65	69	70	69	
Sound pressure level	Cooling	Nom.	dBA	49	53	54	53	
		Silent operation	dBA	47	49			
	Heating	Nom.	dBA	51	57	58	54	
Compressor	Quantity				1			
	Model				2YC63DXD	2YC63SXD	2YC90AXD	
	Type				Hermetically sealed swing compressor			
	Output		W	1,700	2,080	2,620	3,620	
	Starting method				Inverter driven			
Operation range	Cooling	Ambient	Min.	°CDB	-5.0			
			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)			
	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		-			
		OD	mm		26			
	Piping length	OU - IU	Min.	m	5			
			Max.	m	30	50		
		System	Equivalent	m	40	70		
			Chargeless	m	30			
	Additional refrigerant charge			kg/m	see installation manual 4PW72942-1	see installation manual 4P302555-1		
	Level difference	IU - OU	Max.	m	15	30.0		
		IU - IU	Max.	m	0.5			
Heat insulation				Both liquid and gas pipes				
Defrost method				Pressure equalising				
Defrost control				Sensor for outdoor heat exchanger temperature				
Safety devices	Item	01			High pressure switch			
		02			Fan motor thermal protection			
		03			Fuse			