



Condensing unit for commercial refrigeration with scroll technology

JEHSCU-CM1/JEHSCU-CM3



Scroll compressor

Refrigeration solution for small food retailers

- › Designed specifically for small capacity refrigeration applications in small food stores (eg. in bakeries and butchers), cold rooms, bottle coolers and display cabinets
- › Compact and lightweight for even the smallest of city centre locations
- › All components can be accessed, making maintenance quick and easy
- › Ideal for urban applications: sound proofing and low operating sound levels mean the unit is quiet
- › The optimised compressor range and increased condenser surface deliver high levels of energy efficiency and reliability is ensured by using high quality components and production processes
- › Micro channel heat exchanger technology reduces the amount of refrigerant used in the system, lowering environmental impact

JEHSCU-CM1/JEHSCU-CM3

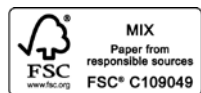
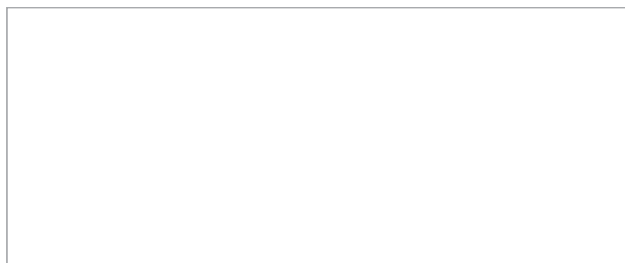


JEHSCU-CM1/CM3

Medium Temperature Refrigeration				JEHSCU-CM1/JEHSCU-CM3		0200 CM1	0250 CM1	0300 CM1	0200 CM3	0250 CM3	0300 CM3	0350 CM3	0400 CM3	0500 CM3	0600 CM3	0680 CM3	0800 CM3	1000 CM3
Refrigerating capacity	Medium temperature	R-134a	Nom	kW	2.05 (1)	2.59 (1)	3.09 (1)	2.17 (1)	2.48 (1)	3.06 (1)	3.48 (1)	4.24 (1)	5.24 (1)	6.16 (1)	6.89 (1)	7.95 (1)	10.40 (1)	
		R-404A	Nom	kW	3.54 (1)	3.99 (1)	4.92 (1)	3.49 (1)	4.21 (1)	4.89 (1)	5.50 (1)	6.70 (1)	8.03 (1)	9.45 (1)	10.15 (1)	12.95 (1)	16.45 (1)	
		R-407A	Nom	kW	3.39 (1)	3.98 (1)	4.65 (1)	3.36 (1)	3.94 (1)	4.54 (1)	-	6.57 (1)	8.03 (1)	9.24 (1)	10.35 (1)	12.55 (1)	14.75 (1)	
		R-407F	Nom	kW	3.26 (1)	3.73 (1)	4.50 (1)	3.22 (1)	3.85 (1)	4.45 (1)	-	6.62 (1)	7.99 (1)	9.36 (1)	10.40 (1)	12.65 (1)	15.95 (1)	
Power input	Medium temperature	R-134a	Nom	kW	1.110 (1)	1.210 (1)	1.450 (1)	1.030 (1)	1.170 (1)	1.460 (1)	1.680 (1)	1.850 (1)	2.300 (1)	2.700 (1)	3.150 (1)	3.740 (1)	4.860 (1)	
		R-404A	Nom	kW	1.570 (1)	2.000 (1)	2.620 (1)	1.700 (1)	2.040 (1)	2.520 (1)	3.040 (1)	3.330 (1)	4.390 (1)	4.920 (1)	5.530 (1)	5.960 (1)	8.620 (1)	
		R-407A	Nom	kW	1.600 (1)	1.990 (1)	2.470 (1)	1.630 (1)	2.030 (1)	2.450 (1)	-	2.970 (1)	3.930 (1)	4.620 (1)	5.540 (1)	6.240 (1)	8.410 (1)	
		R-407F	Nom	kW	1.740 (1)	2.090 (1)	2.660 (1)	1.780 (1)	2.160 (1)	2.710 (1)	-	3.210 (1)	4.360 (1)	5.030 (1)	5.980 (1)	6.130 (1)	8.840 (1)	
Seasonal energy performance ratio SEPR	R-134a	Te -10°C											2.69	2.63	2.57	2.92	2.88	
	R-404A	Te -10°C								2.61	2.77	2.64	2.72	2.65	2.90	2.57		
	R-407A	Te -10°C									3.09	2.81	2.75	2.65	2.88	2.35		
	R-407F	Te -10°C									2.83	2.60	2.69	2.59	2.83	2.53		
Annual electricity consumption Q	R-134a	Te -10°C											11,969.00	14,381.00	16,491.00	16,741	22,226	
	R-404A	Te -10°C								12,939	14,881.00	18,673.00	21,344.00	23,536.00	27,407	39,372		
	R-407A	Te -10°C									13,054.00	17,546.00	20,622.00	24,031.00	26,747	38,515		
	R-407F	Te -10°C									14,365.00	18,883.00	21,395.00	24,655.00	27,475	38,831		
Parameters at full load and ambient temp. 32°C (Point A)	R-134a	Te -10°C	Rated COP (COPA)	1.85	2.14	2.13	2.12	2.13	2.10	2.08	2.29	2.28	2.19	2.13	2.14			
	R-404A	Te -10°C	Rated COP (COPA)	2.25	2.00	1.88	2.06	2.07	1.94	1.81	2.01	1.83	1.92	1.84	2.17	1.91		
	R-407A	Te -10°C	Rated COP (COPA)	2.13	2.01	1.89	2.07	1.95	1.86	-	2.21	2.04	2.00	1.87	2.01	1.75		
	R-407F	Te -10°C	Rated COP (COPA)	1.88	1.79	1.69	1.81	1.79	1.65	-	2.06	1.83	1.86	1.74	2.06	1.80		
Parameters at full load and ambient temp. 25°C	R-134a	Te -10°C	Declared COP (COP2)	2.15	2.54	2.50	2.55	2.52	2.46	2.83					-			
	R-404A	Te -10°C	Declared COP (COP2)	2.65	2.54	2.24	2.44	2.41	2.26						-			
	R-407A	Te -10°C	Declared COP (COP2)	2.55	2.38	2.21	2.50	2.32	2.20						-			
	R-407F	Te -10°C	Declared COP (COP2)	2.43	2.31	2.16	2.35	2.25	2.10						-			
Parameters at full load and ambient temp. 43°C	R-134a	Te -10°C	Declared COP (COP3)	1.35	1.53			1.57		1.52	1.55	1.56	1.59	1.53	1.52			
	R-404A	Te -10°C	Declared COP (COP3)	1.53	1.33	1.25	1.36	1.28	1.11	1.28	1.15	1.27	1.22	1.47	1.18			
	R-407A	Te -10°C	Declared COP (COP3)			1.48	1.45	1.38	-	1.43	1.39	1.43	-	1.38	-			
	R-407F	Te -10°C	Declared COP (COP3)											1.52	-			
Dimensions	Unit	Height	mm				662						872		1,727			
		Width	mm				1,101						1,353		1,348			
		Depth	mm				444						575		641			
Weight	Unit	kg	70	72	74	70	72	74	119	123	125	126		218				
Compressor	Type			Scroll compressor														
	Model			ZB15KQE-PFJ	ZB19KQE-PFJ	ZB21KQE-PFJ	ZB15KQE-TFD	ZB19KQE-TFD	ZB21KQE-TFD	ZB26KQE-TFD	ZB29KQE-TFD	ZB38KQE-TFD	ZB45KQE-TFD	ZB48KQE-TFD	ZB58KQE-TFD	ZB76KQE-TFD		
	Oil	Charged volume	l				-				1.360	2.070	1.890	1.800	2.5	3.2		
	Oil Type			Polyester oil (Copeland Ultra 22 CC, 32 CC and 32-3MAF, Mobil EAL™ Arctic 22 CC, Uniqem Emkarate RL32CF														
Fan	Piston displacement	m³/h	5.90	6.80	8.60	5.90	6.80	8.60	9.90	11.400	14.400	17.100	18.800	22.10	29.10			
	Type			Axial														
Air flow rate	Cooling	Nom	m³/h	2,700												8,500		
Sound pressure level	Nom.	dBA	33 (2)	34 (2)	36 (2)	33 (2)	34 (2)	36 (2)	39 (2)	37 (2)	38 (2)	40 (2)		43 (2)				
Refrigerant	Type/GWP			R-134a / 1,430.0														
	Type 2 / GWP Type 2			R-404A / 3,921.6														
	Type 3 / GWP Type 3			R-407A / 2,107.0						- / -		R-407A / 2,107.0						
	Type 4 / GWP Type 4			R-407F / 1,825.0						-		R-407F / 1,825.0						
Piping connections	Liquid line connection	inch		3/8"								1/2"		3/4"				
	Suction line connection	inch		3/4"								7/8"		1 1/8"				
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230						3~/50/400									

(1) Refer to condition: Outside ambient temperature = 32°C, Evaporation temperature = -10°C and 10K superheat (medium temperature application) (2) Sound pressure level is measured at 10m in anechoic room (3) Its functioning relies on fluorinated greenhouse gases

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