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/CM3	0200 CM1	0200 CM3	0250 CM1	0250 CM3	0300 CM1	0300 CM3	0350 CM3	0360 CM3	0400 CM3	050 CM3	0600 CM3	0680 CM3	0800 CM3	1000 CM3
Seasonal energy performance ratio SEPR	R-134a	Te -10°C							-					2.69	-		3.10	3.37
	R-404A	Te -10°C					---		2.69	3.10	2.61	3.62	3.50	2.64	3.23	3.19	3.49	3.30
	R-407A	Te -10°C					-					3.48	3.79	2.81	3.19	2.96	3.12	-
	R-407F	Te -10°C					-					3.22	3.49	2.60	3.12	-	2.95	-
	R-407H	Te -10°C					-					3.15	3.03	-	2.90	2.68	-	
	R-448A	Te -10°C					-					3.02	3.13	-	3.22	2.96	2.88	2.83
	R-449A	Te -10°C					-					3.02	3.13	-	3.22	2.96	2.88	2.83
Annual electricity consumption Q	R-134a	Te -10°C		kWh/a					-					11,969	-		16,257	19,586
	R-404A	Te -10°C		kWh/a		-			12,093	10,396	12,939	10,719	12,578	18,673	19,387	21,075	24,409	33,116
	R-407A	Te -10°C		kWh/a			-					10,187	10,973	17,546	18,408	22,240	25,491	-
	R-407F	Te -10°C		kWh/a			-					10,933	11,873	18,883	18,903	-	26,882	-
	R-407H	Te -10°C		kWh/a			-					10,664	12,082	-	19,576	23,664	-	
	R-448A	Te -10°C		kWh/a			-					11,736	12,512	-	18,395	22,298	27,302	34,432
	R-449A	Te -10°C		kWh/a			-					11,736	12,512	-	18,395	22,298	27,302	34,432
Parameters at full load and ambient temp. 25°C	R-134a	Te -10°C	Declared COP (COP2)		2.21	2.62	-				2.46	2.86	2.90	-				
	R-404A	Te -10°C	Declared COP (COP2)		2.80	2.58	2.69	2.55	-									
	R-407A	Te -10°C	Declared COP (COP2)		2.61	2.55	2.44	2.36	-	2.26	-							
	R-407F	Te -10°C	Declared COP (COP2)		2.46	2.39	2.33	2.29	2.21	2.14	-							
	R-407H	Te -10°C	Declared COP (COP2)		-	1.50	-	2.48	-	2.21	-							
	R-448A	Te -10°C	Declared COP (COP2)		2.53		2.32		2.23		-							
	R-449A	Te -10°C	Declared COP (COP2)		2.53		2.32		2.23		-							
Parameters at full load and ambient temp. 32°C (Point A)	R-134a	Te -10°C	Rated COP (COPA)		1.92	2.19	-				2.08	2.36		2.28	-		2.20	2.21
	R-404A	Te -10°C	Rated COP (COPA)		2.40	2.19	2.14	2.21	2.02	2.08	1.81	2.19	2.15	1.83	2.07	1.98	2.32	2.06
	R-407A	Te -10°C	Rated COP (COPA)		2.18	2.12	2.06	1.99	-	1.92	-	2.24	2.28	2.04	2.05	1.93	2.08	-
	R-407F	Te -10°C	Rated COP (COPA)		1.92	1.88	1.83		1.74	1.69	-	1.97	2.10	1.83	1.91	-	2.10	-
	R-407H	Te -10°C	Rated COP (COPA)		-	1.93	-	2.02	-	1.80	-		1.89	-	1.92	1.78	2.20	-
	R-448A	Te -10°C	Rated COP (COPA)		2.02		1.93		1.85		-	2.04	1.98	-	1.96	1.79	2.05	1.83
	R-449A	Te -10°C	Rated COP (COPA)		2.02		1.93		1.85		-	2.04	1.98	-	1.96	1.79	2.05	1.83
	R-134a	Te -10°C	Rated cooling capacity (PA)	kW	2.13	2.24	-				3.48	3.80	4.37	5.24	-		8.21	10.75
	R-404A	Te -10°C	Rated cooling capacity (PA)	kW	3.77	3.71	4.27	4.50	5.29	5.24	5.50	6.32	7.17	8.03	10.20	10.95	13.85	17.75
	R-407A	Te -10°C	Rated cooling capacity (PA)	kW	3.48	3.45	4.09	4.05	-	4.69	-	5.77	6.76	8.03	9.54	10.70	12.95	-
	R-407F	Te -10°C	Rated cooling capacity (PA)	kW	3.33		3.82	3.94	4.63	4.58	-	5.73	6.75	7.99	9.59	-	12.90	-
	R-407H	Te -10°C	Rated cooling capacity (PA)	kW	-	3.30	-	3.76	-	4.51	-		5.96	-	9.24	10.30	12.300	-
	R-448A	Te -10°C	Rated cooling capacity (PA)	kW	3.33		3.82		4.73		-	5.76	6.37	-	9.45	10.50	12.80	15.85
	R-449A	Te -10°C	Rated cooling capacity (PA)	kW	3.33		3.82		4.73		-	5.76	6.37	-	9.45	10.50	12.80	15.85
	R-134a	Te -10°C	Rated power input (DA)	kW	1.11	1.03	-				1.68	1.61	1.85	2.30	-		3.74	4.86
	R-404A	Te -10°C	Rated power input (DA)	kW	1.57	1.70	2.00	2.04	2.62	2.52	3.04	2.88	3.33	4.39	4.92	5.53	5.96	8.62
	R-407A	Te -10°C	Rated power input (DA)	kW	1.60	1.63	1.99	2.04	-	2.45	-	2.58	2.97	3.93	4.65	5.54	6.24	-
	R-407F	Te -10°C	Rated power input (DA)	kW	1.74	1.78	2.09	2.16	2.66	2.71	-	2.91	3.21	4.36	5.03	-	6.13	-
	R-407H	Te -10°C	Rated power input (DA)	kW	-	1.71	-	1.86	-	2.50	-		3.15	-	4.82	5.79	5.580	-
	R-448A	Te -10°C	Rated power input (DA)	kW	1.65		1.98		2.56		-	2.83	3.22	-	4.83	5.85	6.23	8.68
	R-449A	Te -10°C	Rated power input (DA)	kW	1.65		1.98		2.56		-	2.83	3.22	-	4.83	5.85	6.23	8.68
Parameters at full load and ambient temp. 43°C	R-134a	Te -10°C	Declared COP (COP3)		1.42		-				1.52	-		1.56	-		1.59	1.60
	R-404A	Te -10°C	Declared COP (COP3)		1.68	1.37	1.46	1.50	1.38	1.41	1.11	1.45	1.42	1.15	1.42	1.36	1.61	1.32
	R-407A	Te -10°C	Declared COP (COP3)						-					1.39		-		
	R-448A	Te -10°C	Declared COP (COP3)		1.31		1.36		1.31		-	1.41	1.37	-	1.42	1.32	-	
	R-449A	Te -10°C	Declared COP (COP3)		1.31		1.36		1.31		-	1.41	1.37	-	1.42	1.32	-	
Dimensions	Unit	HeightxWidthxDepth		mm	662x1,101x444							872x1,353x575					1,727x1,348x641	
Weight	Unit			kg	70		72		74			112	119	123	125	126	222	226
Compressor	Type				Scroll compressor													
	Piston displacement			m^3/h	5.90		6.80		8.60		9.90		11.400	14.400	17.100	18.800	22.10	29.10
Fan	Type				Axial													
Sound pressure level	Nom.			dBA	33		34		36		39	37		38	40		43	
Piping connections	Liquid line connection			inch	3/8"							1/2"					3/4"	
	Suction line connection			inch	3/4"								7/8"		1 1/8"			1 3/8"
Refrigerant	Type 1 - GWP Type 1				R-134a/1,430													
	Type 2 - GWP Type 2				R-404A - 3,922													
	Type 3 - GWP Type 3				R-407A - 2,107													
	Type 4 - GWP Type 4				R-407F - 1,825													
	Type 5 - GWP Type 5				R-407H - 1,495													
	Type 6 - GWP Type 6				R-448A - 1,387													
	Type 7 - GWP Type 7				R-449A - 1,397													
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230	3~/50/400	1~/50/230	3~/50/400	1~/50/230	3~/50/400								

Its functioning relies on fluorinated greenhouse gases | Sound pressure level is measured at 10m in anechoic room | SRG 20°C, Ta=32°C, Te=-35°C
Published data based on condition - Return Gas Temperature 20°C, except for R-407H | Published data based on condition - SH10K for R-407H

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