



Minimum evaporating temp. with:  
 ——— 25°C Suction Gas Return + Liquid Injection

Suction Return Temperature 20.0°C **Evaporating Temperature °C** Liquid subcooling 0.0K

Cond °C	Capacity kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	3.77	4.75	5.95	7.39	9.10	11.10					
20	3.43	4.34	5.43	6.74	8.27	10.05	12.15	14.50			
30	3.07	3.89	4.87	6.03	7.38	8.96	10.80	12.85	15.25	17.95	19.10
35	2.89	3.66	4.58	5.65	6.92	8.39	10.10	12.05	14.25	16.75	17.85
40	2.70	3.42	4.27	5.27	6.43	7.79	9.36	11.15	13.25	15.55	16.60
45	2.51	3.18	3.96	4.87	5.93	7.18	8.61	10.25	12.15	14.35	15.30
50	2.31	2.92	3.63	4.46	5.42	6.55	7.85	9.36	11.10	13.05	13.95
55	2.11	2.67	3.30	4.04	4.90	5.90	7.07	8.42	9.99	11.80	12.60
60						5.23	6.26	7.46	8.86	10.45	11.20
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	1.55	1.64	1.74	1.88	2.05	2.27					
20	1.85	1.94	2.04	2.17	2.31	2.50	2.73	3.00			
30	2.23	2.34	2.44	2.56	2.70	2.86	3.06	3.30	3.59	3.93	4.08
35	2.45	2.57	2.69	2.81	2.95	3.10	3.29	3.51	3.78	4.10	4.24
40	2.69	2.83	2.96	3.09	3.23	3.38	3.56	3.77	4.03	4.32	4.46
45	2.95	3.11	3.25	3.40	3.54	3.70	3.88	4.08	4.32	4.60	4.73
50	3.24	3.42	3.59	3.74	3.90	4.06	4.24	4.44	4.67	4.93	5.05
55	3.55	3.76	3.95	4.12	4.29	4.46	4.65	4.84	5.07	5.32	5.43
60						4.91	5.10	5.30	5.52	5.77	5.88
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	5.49	5.55	5.63	5.73	5.85	6.01					
20	5.65	5.73	5.82	5.93	6.07	6.23	6.43	6.67			
30	5.90	6.01	6.13	6.26	6.41	6.59	6.79	7.03	7.30	7.63	7.77
35	6.08	6.21	6.34	6.49	6.65	6.83	7.03	7.27	7.55	7.87	8.02
40	6.30	6.45	6.60	6.75	6.93	7.11	7.33	7.57	7.85	8.17	8.32
45	6.57	6.73	6.90	7.07	7.26	7.46	7.68	7.93	8.21	8.54	8.68
50	6.89	7.07	7.26	7.45	7.65	7.86	8.09	8.35	8.64	8.96	9.10
55	7.26	7.47	7.68	7.89	8.10	8.33	8.57	8.84	9.13	9.46	9.60
60						8.86	9.12	9.40	9.70	10.04	10.18
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	21.10	26.60	33.50	41.80	51.60	63.30					
20	20.90	26.50	33.30	41.50	51.20	62.70	76.00	92.00			
30	20.60	26.20	32.90	40.90	50.50	61.70	74.90	90.00	108.00	129.00	138.50
35	20.50	26.00	32.70	40.60	50.00	61.00	74.00	89.50	107.00	128.00	137.00
40	20.30	25.80	32.40	40.20	49.40	60.30	73.10	88.00	106.00	126.50	136.00
45	20.10	25.60	32.10	39.70	48.70	59.40	72.10	87.00	104.50	125.50	134.50
50	20.00	25.40	31.70	39.20	48.00	58.50	71.00	85.50	103.00	124.00	133.00
55	19.90	25.20	31.40	38.70	47.30	57.60	69.80	84.50	102.00	122.50	132.00
60						56.70	68.80	83.50	100.50	122.00	131.50

**Copeland Scroll - Compressor - Refrigeration - Standard**
**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, cu.m/h	14.5
Length/Width, mm	241/244
Height, mm	458
Net Weight, kg	39
Gross Weight, kg	42
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m, dBA	65
Sound Power, dBA	76
Sound Power with Sound Shell, dBA	66
PED Category	1
High Side PS, bar(g)	28.8
Low Side PS, bar(g)	21
Low Side TS Max., °C	50
Internal Free Volume, l	5.9

**COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)**

Maximum Operating Current, A	10
Locked Rotor Current, A	64
Winding Resistance, ohm	2.8
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	External Thermostat
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	70W External
Current Sensing Relay	External
Liquid Injection	DTC Valve
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

**MOTOR OPTIONS**

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	TFD		Y	1.00
200-220 V/3~/50H	200	TF5		Y	2.09
200-230 V/3~/60H	230	TF5		Y	2.09
380 V/3~/60Hz	380	TF7		Y	1.26
460 V/3~/60Hz	460	TFD		Y	1.04