



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	4.44	5.64	7.12	8.89	11.00	13.40					
20	4.10	5.19	6.51	8.09	9.95	12.10	14.65	17.50			
30	3.74	4.71	5.88	7.27	8.90	10.80	13.00	15.50	18.35	21.60	23.00
35	3.54	4.46	5.55	6.84	8.35	10.10	12.15	14.50	17.15	20.20	21.50
40	3.33	4.18	5.19	6.39	7.78	9.41	11.30	13.45	15.95	18.75	19.95
45	3.09	3.89	4.82	5.91	7.19	8.68	10.40	12.40	14.65	17.25	18.40
50	2.83	3.56	4.42	5.41	6.57	7.92	9.49	11.30	13.40	15.75	16.80
55	2.53	3.21	3.98	4.88	5.92	7.14	8.55	10.20	12.05	14.20	15.15
60						6.31	7.56	9.02	10.70	12.65	13.50
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	2.06	2.16	2.27	2.40	2.54	2.71					
20	2.38	2.48	2.60	2.73	2.88	3.05	3.23	3.43			
30	2.79	2.89	3.01	3.15	3.30	3.46	3.65	3.84	4.06	4.30	4.39
35	3.04	3.14	3.27	3.40	3.55	3.71	3.89	4.09	4.31	4.54	4.63
40	3.32	3.43	3.55	3.69	3.84	4.00	4.18	4.37	4.58	4.81	4.91
45	3.65	3.76	3.88	4.01	4.16	4.32	4.50	4.69	4.89	5.12	5.21
50	4.02	4.12	4.25	4.38	4.52	4.68	4.86	5.04	5.25	5.47	5.56
55	4.43	4.54	4.66	4.79	4.94	5.09	5.26	5.45	5.64	5.86	5.95
60						5.55	5.72	5.90	6.09	6.30	6.39
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	5.82	5.89	5.98	6.10	6.25	6.42					
20	5.81	5.92	6.05	6.22	6.41	6.64	6.89	7.17			
30	5.97	6.10	6.27	6.47	6.70	6.96	7.26	7.58	7.92	8.30	8.45
35	6.16	6.30	6.48	6.69	6.93	7.21	7.52	7.85	8.22	8.61	8.78
40	6.44	6.59	6.77	6.99	7.25	7.54	7.86	8.21	8.59	8.99	9.16
45	6.83	6.98	7.17	7.40	7.66	7.96	8.29	8.65	9.04	9.46	9.63
50	7.35	7.50	7.70	7.92	8.19	8.49	8.83	9.19	9.59	10.02	10.20
55	8.02	8.17	8.36	8.58	8.85	9.15	9.49	9.86	10.27	10.71	10.89
60						9.96	10.30	10.68	11.08	11.52	11.71
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	24.80	31.60	40.00	50.20	62.30	76.50					
20	25.00	31.70	39.90	49.80	61.60	75.50	92.00	110.50			
30	25.10	31.70	39.80	49.40	60.80	74.30	90.00	108.50	130.50	155.00	166.00
35	25.10	31.70	39.60	49.10	60.30	73.60	89.50	107.50	129.00	154.00	165.00
40	25.00	31.60	39.40	48.70	59.80	72.80	88.00	106.50	127.50	152.00	163.00
45	24.80	31.30	39.00	48.20	59.10	71.90	87.00	105.00	126.00	151.00	162.00
50	24.40	30.90	38.60	47.60	58.20	70.80	86.00	103.50	124.50	149.50	160.00
55	23.80	30.40	37.90	46.70	57.20	69.60	84.50	102.00	123.00	148.00	159.00
60						68.40	83.00	100.50	121.50	147.00	159.00

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

Displacement @ 50 Hz, cu.m/h	17.1
Length/Width, mm	241/244
Height, mm	458
Net Weight, kg	41
Gross Weight, kg	44
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	67
Sound Power, dBA	78
Sound Power with Sound Shell, dBA	68
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	5.7

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

Maximum Operating Current, A	12.5
Locked Rotor Current, A	74
Winding Resistance, ohm	2.3
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