



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	9.36	11.95	15.00	18.60	22.80	27.80					
20	8.56	10.95	13.75	17.05	20.80	25.30	30.40	36.30			
30	7.74	9.93	12.45	15.35	18.70	22.60	27.20	32.40	38.30	45.10	48.10
35	7.30	9.37	11.75	14.45	17.60	21.20	25.40	30.30	35.90	42.30	45.10
40	6.82	8.78	10.95	13.50	16.40	19.75	23.70	28.20	33.40	39.30	41.90
45	6.31	8.13	10.15	12.45	15.15	18.20	21.80	26.00	30.80	36.30	38.70
50	5.74	7.43	9.29	11.40	13.80	16.60	19.85	23.70	28.10	33.10	35.40
55	5.11	6.67	8.35	10.25	12.40	14.90	17.80	21.20	25.20	29.90	31.90
60						13.10	15.70	18.70	22.30	26.50	28.30
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	4.14	4.39	4.66	4.98	5.33	5.71					
20	4.94	5.22	5.52	5.84	6.19	6.56	6.96	7.39			
30	5.90	6.23	6.57	6.92	7.29	7.67	8.06	8.47	8.89	9.33	9.51
35	6.44	6.80	7.16	7.54	7.92	8.31	8.71	9.11	9.53	9.95	10.15
40	7.02	7.41	7.81	8.20	8.60	9.01	9.41	9.82	10.25	10.65	10.80
45	7.62	8.06	8.49	8.92	9.34	9.76	10.20	10.60	11.00	11.40	11.60
50	8.26	8.74	9.22	9.68	10.15	10.55	11.00	11.45	11.85	12.25	12.45
55	8.94	9.47	9.98	10.50	10.95	11.45	11.90	12.35	12.75	13.20	13.35
60						12.35	12.85	13.30	13.75	14.15	14.30
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	11.11	11.33	11.59	11.88	12.23	12.62					
20	11.84	12.12	12.43	12.77	13.14	13.55	13.99	14.48			
30	12.79	13.16	13.55	13.95	14.37	14.81	15.28	15.77	16.30	16.86	17.10
35	13.35	13.78	14.21	14.65	15.11	15.57	16.06	16.57	17.10	17.66	17.89
40	13.98	14.47	14.95	15.44	15.93	16.43	16.94	17.46	18.01	18.57	18.81
45	14.68	15.23	15.77	16.31	16.84	17.38	17.92	18.47	19.03	19.60	19.84
50	15.45	16.07	16.68	17.27	17.85	18.43	19.00	19.58	20.16	20.75	20.99
55	16.30	16.99	17.66	18.32	18.95	19.58	20.19	20.80	21.41	22.02	22.26
60						20.83	21.49	22.14	22.78	23.42	23.67
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	52.30	66.90	84.50	105.00	129.50	158.00					
20	52.10	66.90	84.50	105.00	129.00	157.00	191.00	230.00			
30	51.90	66.80	84.00	104.00	128.00	156.00	188.00	227.00	272.00	325.00	348.00
35	51.70	66.60	84.00	103.50	127.00	155.00	187.00	225.00	270.00	323.00	346.00
40	51.30	66.20	83.00	103.00	126.00	153.00	185.00	223.00	267.00	320.00	344.00
45	50.60	65.60	82.50	101.50	124.50	151.00	182.00	220.00	264.00	317.00	341.00
50	49.60	64.50	81.00	100.00	122.50	148.50	180.00	217.00	261.00	314.00	338.00
55	48.10	63.10	79.50	98.00	119.50	145.50	176.00	213.00	257.00	311.00	335.00
60						142.00	172.00	209.00	253.00	308.00	333.00

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

Displacement @ 50 Hz, cu.m/h	35.6
Length/Width, mm	368/324
Height, mm	532
Net Weight, kg	103
Gross Weight, kg	110
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	4.1
Base mounting (hole dia), mm	220 x 220 (8.5)
Sound Pressure @ 1m, dBA	72
Sound Power, dBA	83
Sound Power with Sound Shell, dBA	73
PED Category	2
High Side PS, bar(g)	32
Low Side PS, bar(g)	22.6
Internal Free Volume, l	20.2

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

Maximum Operating Current, A	25.1
Locked Rotor Current, A	167
Winding Resistance, ohm	0.8
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	70W External
Liquid Injection	Capillary Tube
Mounting Grommets	Hard Mounts for Paralleling
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	TWD		Y	1.00
200 V/3~/50Hz	200	TWC		Y	2.09
500 V/3~/50Hz	500	TWE		Y	0.80
220-240 V/3~/50H	220	TWR		Y	1.80
380 V/3~/60Hz	380	TW7		Y	1.26
460 V/3~/60Hz	460	TWD		Y	1.00
575 V/3~/60Hz	575	TWE		Y	0.80
208-230 V/3~/60H	230	TWC		Y	2.09