



Minimum evaporating temp. with:  
 ——— 25°C Suction Gas Return  
 - - - 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling included

Cond °C	Capacity kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	6.50	8.02	9.76	11.75	14.05	16.65	19.60	23.00	26.80		
25	6.19	7.72	9.43	11.40	13.60	16.15	19.00	22.30	25.90		
30	5.98	7.51	9.20	11.10	13.25	15.70	18.45	21.60	25.10	29.10	30.80
35	5.84	7.36	9.03	10.90	12.95	15.30	17.95	21.00	24.40	28.20	29.80
40	5.74	7.25	8.89	10.70	12.70	14.95	17.50	20.40	23.60	27.20	28.80
45		7.14	8.74	10.50	12.45	14.60	17.00	19.75	22.80	26.20	27.70
50			8.58	10.25	12.15	14.20	16.50	19.10	22.00	25.20	26.60
55			8.35	9.98	11.75	13.70	15.90	18.35	21.10	24.10	25.50
60						13.15	15.20	17.50	20.10	22.90	24.20
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	3.29	3.49	3.69	3.89	4.10	4.31	4.54	4.79	5.05		
25	3.75	3.95	4.15	4.34	4.53	4.74	4.95	5.17	5.42		
30	4.16	4.37	4.56	4.76	4.95	5.15	5.35	5.57	5.80	6.04	6.15
35	4.54	4.76	4.97	5.17	5.37	5.57	5.78	5.99	6.21	6.45	6.55
40	4.92	5.17	5.39	5.61	5.83	6.04	6.25	6.47	6.70	6.94	7.04
45		5.61	5.86	6.11	6.35	6.58	6.81	7.04	7.28	7.53	7.63
50			6.41	6.69	6.96	7.22	7.47	7.73	7.99	8.25	8.36
55			7.05	7.37	7.68	7.98	8.27	8.55	8.84	9.13	9.25
60						8.89	9.22	9.55	9.87	10.20	10.35
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	7.36	7.50	7.67	7.87	8.07	8.28	8.48	8.66	8.83		
25	7.83	7.97	8.15	8.35	8.56	8.79	9.01	9.22	9.41		
30	8.23	8.37	8.55	8.76	8.99	9.23	9.47	9.71	9.92	10.12	10.19
35	8.61	8.75	8.94	9.16	9.40	9.66	9.92	10.18	10.43	10.66	10.74
40	9.03	9.18	9.38	9.61	9.86	10.14	10.42	10.71	10.98	11.24	11.34
45		9.71	9.91	10.15	10.42	10.71	11.02	11.33	11.64	11.93	12.04
50			10.60	10.85	11.14	11.45	11.78	12.12	12.45	12.78	12.90
55			11.51	11.77	12.08	12.41	12.76	13.12	13.49	13.85	13.99
60						13.63	14.01	14.40	14.79	15.19	15.34
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	30.30	38.40	48.00	59.70	74.00	91.50	113.00	139.50	172.00		
25	28.90	36.90	46.50	57.90	71.60	88.50	108.50	133.00	163.00		
30	28.00	36.10	45.60	56.90	70.20	86.00	105.50	128.50	157.00	191.00	206.00
35	27.60	35.80	45.30	56.40	69.50	85.00	103.50	125.50	152.00	183.00	197.00
40	27.50	35.80	45.30	56.30	69.20	84.50	102.00	123.00	147.50	177.00	189.00
45		35.80	45.40	56.40	69.00	84.00	101.00	121.00	144.00	171.00	183.00
50			45.40	56.30	68.80	83.00	100.00	119.00	140.50	166.00	176.00
55			45.00	55.80	68.10	82.00	98.00	116.00	136.50	160.00	170.00
60						80.00	95.50	112.50	131.50	153.00	162.00

**Copeland Scroll - Compressor - Refrigeration - Vapour injection**
**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, cu.m/h	20.9
Length/Width, mm	316/368
Height, mm	542
Net Weight, kg	100.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Stub Injection, inch	5/8
Oil Quantity, l	4.1
Base mounting (hole dia), mm	220 x 220 (8.5)
Sound Pressure @ 1m, dBA	70
Sound Power, dBA	81
Sound Power with Sound Shell, dBA	71
PED Category	2
High Side PS, bar(g)	32
Low Side PS, bar(g)	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Internal Free Volume, l	19.8

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

Maximum Operating Current, A	16
Locked Rotor Current, A	99
Winding Resistance, ohm	1.4
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	Demand Cooling
Mounting Grommets	Hard Mounts for Paralleling
Sound Attenuation	Sound Shell (10dBA)

**MOTOR OPTIONS**

<b>Power Supply</b>	<b>Nominal Voltage</b>	<b>Motor Code</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
380-420 V/3~/50H	400	TWD		Y	1.00
200 V/3~/50Hz	200	TWC		Y	2.09
208-230 V/3~/60H	230	TWC		Y	2.09
575 V/3~/60Hz	575	TWE		Y	0.80
380 V/3~/60Hz	380	TW7		Y	1.26
460 V/3~/60Hz	460	TWD		Y	1.00