



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	11.75	14.60	18.20	22.50	27.50	33.50					
20	10.70	13.45	16.75	20.70	25.40	30.70	36.90	44.00			
30	9.59	12.10	15.10	18.65	22.80	27.60	33.20	39.40	46.50	54.50	57.90
35	8.99	11.35	14.15	17.50	21.40	25.90	31.10	37.00	43.70	51.10	54.40
40	8.38	10.60	13.20	16.30	19.95	24.10	28.90	34.40	40.60	47.60	50.60
45	7.75	9.80	12.20	15.05	18.40	22.20	26.70	31.70	37.50	43.90	46.70
50	7.12	8.99	11.20	13.75	16.80	20.30	24.30	28.90	34.20	40.10	42.70
55	6.49	8.16	10.10	12.45	15.10	18.25	21.90	26.00	30.80	36.20	38.60
60						16.15	19.35	23.10	27.30	32.10	34.30
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	5.55	5.80	6.10	6.47	6.91	7.42					
20	6.61	6.89	7.22	7.58	7.99	8.46	9.00	9.59			
30	7.83	8.19	8.56	8.96	9.39	9.85	10.35	10.90	11.50	12.15	12.45
35	8.51	8.92	9.33	9.75	10.20	10.65	11.15	11.70	12.30	12.95	13.20
40	9.24	9.70	10.15	10.60	11.10	11.60	12.10	12.65	13.20	13.80	14.05
45	10.00	10.55	11.05	11.55	12.05	12.60	13.10	13.65	14.20	14.80	15.05
50	10.85	11.45	12.00	12.60	13.15	13.70	14.25	14.80	15.35	15.95	16.20
55	11.70	12.40	13.05	13.70	14.30	14.90	15.45	16.05	16.65	17.25	17.45
60						16.15	16.80	17.40	18.00	18.65	18.85
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	14.51	14.69	14.95	15.30	15.73	16.26					
20	15.43	15.68	16.00	16.39	16.85	17.38	17.99	18.69			
30	16.62	16.99	17.40	17.86	18.37	18.94	19.56	20.25	21.01	21.84	22.19
35	17.35	17.78	18.25	18.75	19.30	19.90	20.55	21.25	22.00	22.82	23.17
40	18.17	18.68	19.21	19.77	20.36	21.00	21.67	22.39	23.16	23.97	24.31
45	19.10	19.69	20.29	20.91	21.56	22.24	22.95	23.69	24.47	25.30	25.64
50	20.14	20.82	21.50	22.19	22.90	23.63	24.38	25.16	25.97	26.80	27.15
55	21.31	22.08	22.85	23.62	24.40	25.19	25.99	26.80	27.64	28.50	28.85
60						26.91	27.77	28.63	29.51	30.40	30.76
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	65.60	82.00	102.00	127.00	156.00	191.00					
20	65.20	82.00	102.50	127.50	157.00	192.00	232.00	278.00			
30	64.30	81.50	102.00	126.50	156.00	190.00	230.00	276.00	330.00	392.00	419.00
35	63.70	80.50	101.00	125.50	155.00	189.00	228.00	275.00	328.00	390.00	418.00
40	63.00	80.00	100.00	124.50	153.00	187.00	226.00	272.00	325.00	387.00	415.00
45	62.30	79.00	99.00	123.00	151.00	184.00	223.00	269.00	322.00	384.00	412.00
50	61.60	78.00	97.50	121.00	148.50	181.00	220.00	265.00	318.00	380.00	408.00
55	61.10	77.00	96.50	119.00	146.00	178.00	216.00	261.00	314.00	376.00	405.00
60						175.00	213.00	257.00	310.00	374.00	403.00

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

Number of cylinders	1
Displacement @ 50 Hz, cu.m/h	42.8
Length/Width, mm	324/294
Height, mm	579
Net Weight, kg	112
Gross Weight, kg	119
Rotalock Suction, inch	2 1/4
Rotalock Discharge, inch	1 3/4
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
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Internal Free Volume, l	21.2

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

Maximum Operating Current, A	28.7
Locked Rotor Current, A	198
Winding Resistance, ohm	0.7
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