



Minimum evaporating temp. with:  
 ——— 25°C Suction Gas Return  
 - - - 10K Suction Superheat

Suction Superheat 10.0K

**Evaporating Temperature °C**

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-20	-15	-10	-5	0	5	7	10	12.5	15
27	2.25	4.54	7.26	10.45	14.15	18.40	20.30	23.20	25.90	28.70
30	2.05	4.30	6.97	10.10	13.75	17.90	19.75	22.70	25.30	28.00
35	1.69	3.89	6.48	9.52	13.05	17.10	18.85	21.70	24.20	26.90
40	1.33	3.45	5.97	8.90	12.30	16.20	17.90	20.60	23.10	25.60
45		2.99	5.42	8.24	11.50	15.25	16.90	19.55	21.90	24.40
50			4.83	7.54	10.65	14.25	15.85	18.35	20.60	23.00
55				6.78	9.77	13.20	14.70	17.10	19.25	21.60
60					8.81	12.10	13.50	15.80	17.85	20.00
65					7.78	10.85	12.20	14.40	16.35	18.40
	Power Input kW									
	-20	-15	-10	-5	0	5	7	10	12.5	15
27	2.36	2.49	2.62	2.74	2.88	3.02	3.08	3.18	3.27	3.37
30	2.57	2.70	2.83	2.95	3.08	3.23	3.29	3.40	3.49	3.59
35	2.94	3.06	3.18	3.31	3.44	3.59	3.65	3.76	3.85	3.95
40	3.33	3.45	3.57	3.69	3.82	3.97	4.03	4.14	4.23	4.34
45		3.88	3.99	4.11	4.24	4.38	4.45	4.55	4.65	4.75
50			4.47	4.58	4.71	4.85	4.92	5.02	5.12	5.22
55				5.12	5.25	5.39	5.45	5.56	5.65	5.76
60					5.87	6.01	6.07	6.18	6.27	6.38
65					6.60	6.74	6.80	6.90	6.99	7.10
	Current 400V, A									
	-20	-15	-10	-5	0	5	7	10	12.5	15
27	5.34	5.47	5.61	5.77	5.97	6.23	6.35	6.55	6.75	6.96
30	5.60	5.73	5.86	6.02	6.21	6.45	6.56	6.75	6.93	7.14
35	6.04	6.17	6.31	6.46	6.63	6.85	6.96	7.13	7.30	7.48
40	6.51	6.66	6.80	6.95	7.12	7.32	7.42	7.58	7.73	7.90
45		7.20	7.36	7.51	7.68	7.88	7.97	8.12	8.26	8.42
50			7.99	8.16	8.33	8.53	8.61	8.76	8.90	9.05
55				8.90	9.09	9.29	9.38	9.52	9.66	9.80
60					9.98	10.19	10.28	10.43	10.56	10.70
65					11.01	11.24	11.34	11.49	11.62	11.77
	Mass Flow g/s									
	-20	-15	-10	-5	0	5	7	10	12.5	15
27	12.80	25.40	40.00	56.70	75.50	97.00	106.50	121.00	134.00	147.50
30	12.00	24.70	39.50	56.30	75.50	97.00	106.50	121.00	134.00	148.00
35	10.40	23.40	38.40	55.50	74.80	96.50	106.00	121.00	134.00	148.00
40	8.60	21.90	37.10	54.50	74.00	96.00	105.50	120.50	133.50	147.50
45		20.00	35.60	53.20	73.00	95.00	104.50	120.00	133.50	147.50
50			33.60	51.50	71.60	94.00	103.50	119.00	132.50	147.00
55				49.40	69.70	92.50	102.50	118.00	131.50	146.00
60					67.40	90.50	100.50	116.00	130.00	144.50
65					64.30	88.00	98.00	114.00	128.00	143.00

Preliminary Data

**Copeland Scroll - Compressor - Air Conditioning - Digital**
**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, cu.m/h	17.1
Length/Width, mm	241/246
Height, mm	481
Net Weight, kg	39.9
Gross Weight, kg	44
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Oil Quantity, l	1.9
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m, dBA	63
Sound Power, dBA	74
High Side PS, bar(g)	29.5
Low Side PS, bar(g)	20

**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 thermistor
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	70W External
Digital Control	24V AC
Valve Coil	220V
Valve Coil	24V AC

**MOTOR OPTIONS**

<i>Power Supply</i>	<i>Nominal Voltage</i>	<i>Motor Code</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
380-420 V/3~/50H	400	TFD		Y	1.00
460 V/3~/60Hz	460	TFD		Y	1.04