



Minimum evaporating temp. with:
 ——— 20°C Suction Gas Return
 - - - 0°C Suction Gas Return

— Voltage limit -5% above -7°C

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
4											
10	9.24	11.30	13.75	16.60	19.90	23.70	28.10	33.00			
20	9.08	11.10	13.50	16.25	19.40	23.00	27.10	31.80	37.10	43.00	
30	8.81	10.80	13.05	15.65	18.65	22.00	25.90	30.30	35.20	40.80	43.20
35	8.65	10.60	12.80	15.30	18.20	21.50	25.20	29.40	34.20	39.50	41.80
40	8.46	10.35	12.50	14.90	17.70	20.80	24.40	28.40	33.00	38.20	40.40
45		10.10	12.15	14.50	17.15	20.10	23.50	27.40	31.80	36.70	
50		9.81	11.80	14.00	16.55	19.40	22.60	26.30	30.50		
54			11.45	13.55	15.95	18.70	21.80	25.30			
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	3.56	3.83	4.07	4.28	4.47	4.65	4.82	5.00			
20	4.21	4.53	4.82	5.08	5.33	5.56	5.79	6.03	6.27	6.52	
30	5.01	5.38	5.73	6.05	6.35	6.64	6.94	7.23	7.54	7.86	8.00
35	5.49	5.89	6.26	6.60	6.94	7.26	7.58	7.91	8.25	8.61	8.76
40	6.02	6.44	6.84	7.22	7.58	7.93	8.29	8.65	9.02	9.41	9.58
45		7.06	7.49	7.89	8.29	8.67	9.06	9.45	9.86	10.30	
50		7.75	8.20	8.64	9.06	9.47	9.89	10.30	10.75		
54			8.89	9.35	9.80	10.25	10.70	11.15			
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	9.09	9.45	9.76	10.05	10.30	10.55	10.79	11.03			
20	9.90	10.36	10.78	11.17	11.54	11.89	12.24	12.60	12.98	13.39	
30	11.06	11.62	12.14	12.64	13.11	13.57	14.04	14.51	15.00	15.53	15.75
35	11.78	12.39	12.97	13.51	14.04	14.56	15.08	15.61	16.16	16.74	16.98
40	12.60	13.27	13.89	14.49	15.07	15.64	16.22	16.80	17.41	18.05	18.32
45		14.25	14.93	15.58	16.21	16.84	17.47	18.11	18.77	19.47	
50		15.35	16.08	16.78	17.46	18.14	18.83	19.53	20.25		
54			17.19	17.94	18.67	19.40	20.13	20.87			
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	42.20	53.40	66.60	82.50	101.50	124.50	152.00	184.00			
20	42.10	53.40	66.70	82.50	101.50	124.00	151.00	183.00	220.00	263.00	
30	41.70	52.90	66.00	81.50	100.00	122.50	149.00	180.00	217.00	259.00	278.00
35	41.30	52.40	65.40	80.50	99.00	121.00	147.00	178.00	214.00	256.00	275.00
40	40.80	51.80	64.50	79.50	97.50	119.50	145.00	175.00	211.00	253.00	271.00
45		51.00	63.50	78.50	96.00	117.50	142.50	173.00	208.00	249.00	
50		50.10	62.30	76.50	94.00	115.00	139.50	169.00	204.00		
54			61.00	75.00	92.00	112.50	137.00	166.00			

Preliminary Data

Copeland Scroll - Compressor - Refrigeration - LT Vapour injection

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, cu.m/h	29.1
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	63.1
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
Base mounting (hole dia), mm	190 x 190 (0.0)
Sound Pressure @ 1m (LT), dBA	68
Sound Power (LT), dBA	79
Sound Power with Sound Shell (LT), dBA	69
High Side PS, bar(g)	32
Low Side PS, bar(g)	22.6

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

Maximum Operating Current, A	25
Locked Rotor Current, A	100
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	External Thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
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 V/3~/50Hz	200	TWC		Y	2.09
380-420 V/3~/50H	400	TWD		Y	1.00
460 V/3~/60Hz	460	TWD		Y	1.00
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