



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	7.00	8.53	10.35	12.50	14.85	17.40	20.10	23.00			
20	6.81	8.34	10.15	12.20	14.45	16.85	19.45	22.10	24.80	27.60	
30	6.56	8.05	9.79	11.75	13.90	16.15	18.55	21.00	23.50	26.00	27.00
35	6.41	7.88	9.58	11.50	13.55	15.75	18.05	20.40	22.80	25.10	26.00
40	6.25	7.68	9.34	11.20	13.20	15.30	17.50	19.70	21.90	24.10	25.00
45		7.47	9.08	10.85	12.75	14.80	16.85	18.95	21.10	23.10	
50		7.24	8.79	10.50	12.35	14.25	16.20	18.20	20.10		
54			8.53	10.15	11.90	13.75	15.60	17.45			
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	2.50	2.70	2.90	3.11	3.31	3.51	3.71	3.91			
20	3.07	3.27	3.47	3.67	3.88	4.08	4.28	4.48	4.68	4.88	
30	3.71	3.95	4.18	4.42	4.66	4.90	5.13	5.37	5.61	5.85	5.94
35	4.06	4.33	4.60	4.87	5.14	5.41	5.68	5.95	6.22	6.49	6.59
40	4.44	4.75	5.06	5.37	5.68	5.99	6.30	6.61	6.92	7.23	7.36
45		5.21	5.57	5.93	6.29	6.65	7.01	7.37	7.73	8.09	
50		5.70	6.12	6.54	6.96	7.38	7.80	8.22	8.64		
54			6.65	7.13	7.61	8.09	8.57	9.05			
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	5.95	6.14	6.34	6.55	6.76	6.98	7.21	7.45			
20	6.50	6.72	6.95	7.18	7.41	7.65	7.90	8.15	8.41	8.67	
30	7.21	7.50	7.80	8.09	8.40	8.70	9.01	9.32	9.64	9.96	10.09
35	7.64	7.98	8.32	8.67	9.02	9.37	9.73	10.09	10.45	10.82	10.97
40	8.11	8.51	8.91	9.32	9.73	10.15	10.56	10.98	11.40	11.82	11.99
45		9.10	9.58	10.06	10.54	11.03	11.51	12.00	12.49	12.98	
50		9.76	10.32	10.88	11.45	12.01	12.58	13.15	13.71		
54			11.04	11.68	12.33	12.97	13.62	14.27			
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
4											
10	31.50	39.80	49.70	61.40	75.50	92.00	112.00	135.00			
20	31.20	39.60	49.50	61.20	75.00	92.00	111.50	135.00	162.00	194.00	
30	30.70	39.10	48.90	60.60	74.50	91.00	110.50	134.00	161.00	192.00	206.00
35	30.40	38.80	48.50	60.10	74.00	90.50	110.00	133.00	160.00	192.00	205.00
40	30.10	38.40	48.10	59.60	73.40	90.00	109.50	132.50	159.00	190.00	204.00
45		37.90	47.50	59.00	72.70	89.00	108.50	131.00	158.00	189.00	
50		37.40	46.90	58.30	71.80	88.00	107.50	130.00	157.00		
54			46.30	57.50	71.00	87.00	106.00	129.00			

Preliminary Data

Copeland Scroll - Compressor - Refrigeration - LT Vapour injection

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, cu.m/h	21.4
Length/Width, mm	246/257
Height, mm	452
Net Weight, kg	39.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Oil Quantity, l	1.89
Base mounting (hole dia), mm	190 x 190 (19.0)
Sound Pressure @ 1m (LT), dBA	70
Sound Power (LT), dBA	81
Sound Power with Sound Shell (LT), dBA	71
High Side PS, bar(g)	28.8
Low Side PS, bar(g)	21

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

Maximum Operating Current, A	16
Locked Rotor Current, A	102
Winding Resistance, ohm	1.74
Default Enclosure Class	IP 21 (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
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