



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	9.23	11.60	14.45	17.80						
15.0	8.80	11.10	13.90	17.15						
20.0	8.36	10.60	13.30	16.45	20.10					
25.0	7.91	10.05	12.65	15.75	19.30	23.40	25.20			
30.0	7.47	9.51	12.00	15.00	18.45	22.40	24.10	26.90	29.30	
35.0	7.03	8.96	11.35	14.20	17.55	21.40	23.00	25.70	28.10	30.60
40.0	6.61	8.42	10.65	13.40	16.60	20.30	21.90	24.50	26.80	29.20
45.0		7.87	9.99	12.55	15.60	19.15	20.70	23.20	25.40	27.70
50.0			9.30	11.70	14.60	17.95	19.45	21.80	23.90	26.20
55.0			8.62	10.85	13.55	16.75	18.15	20.40	22.50	24.60
60.0				10.00	12.55	15.50	16.85	19.00	20.90	23.00
65.0					11.45	14.25	15.50	17.55	19.35	21.30
70.0					10.40	13.00	14.15	16.05	17.75	19.60
75.0						11.70	12.80	14.55	16.15	17.85

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	2.36	2.35	2.44	2.60						
15.0	2.70	2.67	2.74	2.87						
20.0	3.07	3.03	3.07	3.18	3.31					
25.0	3.46	3.41	3.45	3.54	3.64	3.74	3.77			
30.0	3.89	3.84	3.86	3.94	4.03	4.11	4.13	4.14	4.13	
35.0	4.34	4.29	4.32	4.39	4.46	4.53	4.54	4.54	4.52	4.47
40.0	4.82	4.78	4.81	4.88	4.95	5.00	5.01	5.00	4.97	4.91
45.0		5.31	5.35	5.42	5.49	5.53	5.54	5.52	5.48	5.42
50.0			5.92	6.00	6.08	6.12	6.12	6.10	6.06	5.99
55.0			6.53	6.62	6.71	6.76	6.77	6.75	6.70	6.63
60.0				7.30	7.40	7.46	7.47	7.45	7.41	7.34
65.0					8.14	8.21	8.22	8.21	8.18	8.11
70.0					8.92	9.02	9.04	9.04	9.01	8.95
75.0						9.88	9.91	9.93	9.90	9.85

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	10.39	10.53	10.68	10.85						
15.0	10.54	10.64	10.75	10.88						
20.0	10.73	10.81	10.90	10.98	11.07					
25.0	10.97	11.04	11.10	11.17	11.22	11.25	11.26			
30.0	11.27	11.32	11.38	11.43	11.46	11.46	11.46	11.43	11.40	
35.0	11.61	11.67	11.72	11.76	11.78	11.77	11.75	11.72	11.67	11.62
40.0	12.00	12.07	12.13	12.17	12.18	12.16	12.14	12.10	12.05	11.98
45.0		12.52	12.60	12.65	12.67	12.65	12.63	12.58	12.53	12.46
50.0			13.14	13.21	13.24	13.23	13.21	13.17	13.11	13.04
55.0			13.74	13.84	13.90	13.90	13.89	13.85	13.80	13.73
60.0				14.54	14.63	14.66	14.66	14.63	14.59	14.53
65.0					15.44	15.51	15.52	15.51	15.49	15.44
70.0					16.33	16.45	16.47	16.49	16.48	16.45
75.0						17.47	17.52	17.57	17.58	17.57

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	51.10	63.10	77.20	93.40						
15.0	50.60	62.70	77.00	93.40						
20.0	50.10	62.30	76.70	93.30	112.00					
25.0	49.60	61.80	76.20	93.00	112.00	133.00	142.50			
30.0	49.10	61.20	75.60	92.50	111.50	133.00	142.00	156.50	169.50	
35.0	48.60	60.50	74.90	91.80	111.00	132.50	142.00	156.50	169.50	183.00
40.0	48.10	59.80	74.10	90.90	110.00	132.00	141.50	156.00	169.00	182.50
45.0		59.20	73.20	89.90	109.00	131.00	140.50	155.50	168.50	182.00
50.0			72.30	88.80	108.00	130.00	139.50	154.50	167.50	181.50
55.0			71.40	87.60	106.50	128.50	138.00	153.00	166.50	180.50
60.0				86.30	105.00	127.00	136.50	151.50	165.00	179.00
65.0					103.50	125.00	134.50	149.50	163.00	177.50
70.0					102.00	123.00	132.50	148.00	161.50	175.50
75.0						121.50	130.50	146.00	159.50	173.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	28.8
Length/Width, mm	358/296
Height, mm	534
Net Weight, kg	61.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (MT), dBA	66
Sound Power (MT), dBA	77
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	24
Locked Rotor Current, A	118
Winding Resistance, ohm	1.24/1.24/1.24 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Solenoid valve	Standard
----------------	----------

ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Valve Coil	24V AC
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

MOTOR OPTIONS

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