



Minimum Evaporating Temp. With:

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

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	10.75	13.35	16.40	20.00				
15.0	10.25	12.90	15.90	19.45				
20.0	9.76	12.35	15.35	18.80	22.80			
25.0	9.20	11.75	14.70	18.10	21.90	26.30		
30.0	8.58	11.10	14.00	17.30	21.00	25.30	30.00	32.10
35.0		10.35	13.20	16.40	20.00	24.10	28.70	30.70
40.0			12.30	15.40	18.90	22.80	27.30	29.20
45.0				14.30	17.65	21.40	25.70	27.50
50.0				13.15	16.35	19.95	24.00	25.80
55.0					14.90	18.35	22.20	23.80
60.0						16.60	20.20	21.80

Cond °C	Power, kW							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	2.59	2.58	2.61	2.72				
15.0	3.04	3.01	3.01	3.08				
20.0	3.52	3.49	3.47	3.51	3.61			
25.0	4.05	4.02	3.99	4.00	4.07	4.22		
30.0	4.61	4.59	4.56	4.55	4.59	4.71	4.92	5.04
35.0		5.20	5.18	5.17	5.19	5.27	5.44	5.54
40.0			5.85	5.84	5.86	5.92	6.05	6.13
45.0				6.58	6.59	6.64	6.74	6.81
50.0				7.36	7.39	7.43	7.52	7.57
55.0					8.24	8.29	8.37	8.42
60.0						9.23	9.31	9.36

Cond °C	Current at 400 V, A							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	7.61	7.62	7.71	7.89				
15.0	8.57	8.55	8.58	8.69				
20.0	9.40	9.36	9.35	9.40	9.54			
25.0	10.12	10.08	10.05	10.06	10.14	10.33		
30.0	10.75	10.74	10.71	10.69	10.73	10.86	11.11	11.25
35.0		11.37	11.35	11.34	11.35	11.44	11.62	11.73
40.0			12.02	12.02	12.03	12.09	12.23	12.31
45.0				12.77	12.80	12.85	12.96	13.03
50.0				13.62	13.68	13.74	13.85	13.91
55.0					14.71	14.81	14.92	14.98
60.0						16.06	16.21	16.27

Cond °C	Suction Mass Flow, g/s							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	49.50	61.80	76.40	93.50				
15.0	49.10	61.80	76.70	94.20				
20.0	48.40	61.40	76.80	94.60	115.50			
25.0	47.40	60.80	76.50	94.60	115.50	140.00		
30.0	46.00	59.80	75.80	94.20	115.50	140.00	168.50	181.00
35.0		58.40	74.70	93.40	115.00	140.00	168.50	181.00
40.0			73.10	92.10	114.00	139.00	168.00	181.00
45.0				90.20	112.50	138.00	167.00	180.00
50.0				87.70	110.00	136.00	165.50	178.50
55.0					107.00	133.00	163.50	176.50
60.0						129.50	160.00	174.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	24.9
Length/Width, mm	264/284
Height, mm	533
Net Weight, kg	59.9
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.25
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 (8.5)
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
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	17.5
Locked Rotor Current, A	111
Winding Resistance, ohm	1.37
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	66 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFE	500 V / 3~ / 50 Hz	500		Y	0.80
TW5	200-220 V / 3~ / 50 Hz	200		Y	2.30
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TFE	575 V / 3~ / 60 Hz	575		Y	0.80