



Minimum Evaporating Temp. With:

- █ 25 °C Suction Gas Return Liquid injection
- █ Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	2.59	3.27	4.09	5.06	6.21	7.55					
15.0	2.49	3.15	3.93	4.86	5.95	7.22	8.71				
20.0	2.40	3.03	3.77	4.65	5.68	6.89	8.30	9.92			
25.0	2.29	2.90	3.60	4.43	5.41	6.55	7.88	9.41	11.15		
30.0	2.19	2.76	3.43	4.21	5.12	6.19	7.44	8.88	10.55	12.45	13.25
35.0	2.07	2.62	3.24	3.97	4.82	5.82	6.99	8.34	9.90	11.70	12.45
40.0	1.95	2.46	3.04	3.72	4.51	5.43	6.51	7.77	9.22	10.90	11.65
45.0	1.81	2.29	2.83	3.45	4.17	5.02	6.02	7.18	8.53	10.10	10.75
50.0	1.66	2.10	2.59	3.15	3.81	4.59	5.49	6.56	7.80	9.24	9.87
55.0	1.48	1.88	2.33	2.84	3.43	4.12	4.94	5.91	7.04	8.36	8.95
60.0						3.63	4.36	5.23	6.25	7.45	7.98

50 Hz

ZF11K4E-TFD

R404A Dew Point

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	1.30	1.34	1.42	1.52	1.64	1.78					
15.0	1.40	1.44	1.51	1.60	1.71	1.84	2.00				
20.0	1.52	1.56	1.62	1.70	1.80	1.92	2.07	2.23			
25.0	1.66	1.68	1.74	1.81	1.91	2.03	2.16	2.32	2.49		
30.0	1.80	1.82	1.88	1.94	2.04	2.15	2.28	2.42	2.59	2.76	2.84
35.0	1.96	1.98	2.03	2.10	2.18	2.29	2.41	2.56	2.71	2.88	2.96
40.0	2.14	2.16	2.20	2.27	2.35	2.46	2.58	2.71	2.87	3.03	3.10
45.0	2.33	2.35	2.40	2.46	2.55	2.65	2.76	2.90	3.05	3.21	3.27
50.0	2.54	2.56	2.61	2.68	2.76	2.86	2.98	3.11	3.25	3.41	3.48
55.0	2.77	2.79	2.84	2.91	3.00	3.10	3.22	3.35	3.49	3.65	3.72
60.0						3.36	3.48	3.62	3.76	3.92	3.98

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	4.95	4.98	5.03	5.08	5.15	5.22					
15.0	4.96	4.99	5.03	5.09	5.16	5.24	5.33				
20.0	4.97	5.00	5.05	5.11	5.18	5.27	5.37	5.48			
25.0	5.00	5.03	5.08	5.14	5.22	5.31	5.42	5.54	5.67		
30.0	5.06	5.09	5.13	5.20	5.28	5.38	5.49	5.61	5.75	5.90	5.97
35.0	5.14	5.17	5.21	5.28	5.36	5.47	5.58	5.72	5.86	6.02	6.09
40.0	5.26	5.28	5.33	5.40	5.48	5.59	5.71	5.85	6.00	6.17	6.25
45.0	5.41	5.44	5.48	5.55	5.64	5.75	5.87	6.02	6.18	6.36	6.44
50.0	5.62	5.64	5.68	5.75	5.84	5.95	6.08	6.23	6.40	6.59	6.67
55.0	5.87	5.89	5.93	6.00	6.09	6.20	6.33	6.49	6.67	6.86	6.95
60.0						6.51	6.65	6.81	6.99	7.19	7.28

Cond °C	Suction Mass Flow, g/s										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	14.45	18.30	22.90	28.50	35.10	42.90					
15.0	14.45	18.35	23.00	28.50	35.10	42.80	52.00				
20.0	14.50	18.40	23.00	28.50	35.00	42.70	51.90	62.60			
25.0	14.55	18.45	23.00	28.50	35.00	42.60	51.70	62.30	74.80		
30.0	14.60	18.50	23.10	28.50	34.90	42.40	51.40	62.00	74.50	89.10	95.70
35.0	14.65	18.55	23.10	28.40	34.70	42.20	51.10	61.60	74.00	88.70	95.30
40.0	14.60	18.50	23.00	28.20	34.50	41.90	50.70	61.10	73.50	88.20	94.80
45.0	14.50	18.35	22.80	28.00	34.10	41.40	50.10	60.50	72.90	87.70	94.40
50.0	14.25	18.15	22.50	27.60	33.60	40.80	49.40	59.70	72.20	87.10	93.80
55.0	13.90	17.75	22.10	27.10	33.00	40.00	48.60	58.90	71.40	86.50	93.40
60.0						39.20	47.60	58.00	70.70	86.20	93.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	9.95
Length/Width, mm	243/244
Height, mm	405
Net Weight, kg	28
Gross Weight, kg	31
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.5
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 (LT), dBA	63
Sound Power (LT), dBA	74
Sound Power with Sound Shell (LT), dBA	66
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	4.10
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	7.1
Locked Rotor Current, A	46
Winding Resistance, ohm	4.03
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Current Sensing Relay	External
Liquid Injection	DTC Valve
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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09