



Minimum Evaporating Temp. With:

█ 20 °C Suction Gas Return Liquid injection

█ Maximum Evaporating Temperature | Voltage limit -5% above -4°C

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
4.0	5.99	7.46	9.27	11.45	14.05	17.15	20.70				
5.0	5.96	7.43	9.23	11.40	14.00	17.05	20.60				
10.0	5.71	7.13	8.87	10.95	13.45	16.35	19.75	23.60			
15.0	5.45	6.82	8.49	10.50	12.85	15.65	18.85	22.60	26.80		
20.0	5.18	6.51	8.10	10.00	12.25	14.90	17.95	21.50	25.50	30.20	
25.0	4.91	6.18	7.69	9.50	11.60	14.10	17.00	20.40	24.20	28.60	30.50
30.0	4.64	5.84	7.28	8.97	11.00	13.30	16.05	19.20	22.80	27.00	28.80
35.0	4.35	5.50	6.84	8.43	10.30	12.50	15.05	18.05	21.40	25.30	27.00
40.0	4.07	5.14	6.40	7.87	9.61	11.65	14.05	16.80	20.00	23.60	25.20
45.0	3.77	4.77	5.93	7.29	8.89	10.80	13.00	15.55	18.50	21.90	23.40
50.0	3.46	4.39	5.45	6.69	8.15	9.87	11.90	14.25	17.00	20.10	21.50
54.4	3.19	4.04	5.02	6.15	7.48	9.05	10.90	13.05			

50 Hz

ZF25K5E-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
4.0	2.03	2.25	2.46	2.68	2.90	3.12	3.33				
5.0	2.05	2.27	2.49	2.71	2.92	3.14	3.36				
10.0	2.25	2.47	2.70	2.92	3.14	3.36	3.59	3.81			
15.0	2.44	2.67	2.90	3.13	3.36	3.59	3.82	4.05	4.28		
20.0	2.62	2.86	3.10	3.34	3.58	3.82	4.05	4.29	4.53	4.77	
25.0	2.82	3.06	3.31	3.56	3.81	4.06	4.30	4.55	4.80	5.05	5.15
30.0	3.02	3.28	3.54	3.80	4.06	4.32	4.58	4.83	5.09	5.35	5.46
35.0	3.25	3.52	3.79	4.06	4.33	4.60	4.87	5.15	5.42	5.69	5.80
40.0	3.50	3.78	4.07	4.35	4.64	4.92	5.21	5.49	5.78	6.06	6.18
45.0	3.78	4.08	4.38	4.68	4.98	5.28	5.58	5.88	6.18	6.48	6.60
50.0	4.10	4.42	4.74	5.06	5.37	5.69	6.01	6.32	6.64	6.96	7.09
54.4	4.43	4.76	5.09	5.43	5.76	6.09	6.43	6.76			

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
4.0	5.62	5.78	5.95	6.14	6.35	6.58	6.81				
5.0	5.64	5.79	5.97	6.17	6.38	6.60	6.84				
10.0	5.77	5.96	6.16	6.37	6.60	6.85	7.10	7.36			
15.0	5.92	6.13	6.35	6.59	6.84	7.10	7.37	7.64	7.93		
20.0	6.08	6.31	6.56	6.82	7.09	7.37	7.65	7.94	8.24	8.54	
25.0	6.26	6.52	6.79	7.07	7.36	7.66	7.96	8.27	8.57	8.88	9.01
30.0	6.47	6.75	7.05	7.35	7.66	7.98	8.30	8.62	8.94	9.26	9.39
35.0	6.71	7.02	7.34	7.67	8.00	8.33	8.67	9.01	9.34	9.68	9.81
40.0	7.00	7.33	7.67	8.02	8.37	8.73	9.08	9.44	9.79	10.13	10.27
45.0	7.33	7.69	8.06	8.43	8.80	9.18	9.55	9.92	10.28	10.64	10.79
50.0	7.72	8.10	8.50	8.89	9.28	9.68	10.07	10.46	10.84	11.21	11.36
54.4	8.11	8.52	8.93	9.35	9.76	10.17	10.58	10.98			

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
4.0	31.90	39.90	49.70	61.70	76.10	93.20	113.50				
5.0	31.90	39.90	49.70	61.70	76.10	93.20	113.50				
10.0	31.80	39.80	49.70	61.60	76.00	93.00	113.00	136.50			
15.0	31.60	39.70	49.60	61.50	75.80	92.70	112.50	136.00	163.50		
20.0	31.40	39.60	49.40	61.30	75.50	92.40	112.00	135.50	163.00	194.50	
25.0	31.20	39.40	49.20	61.00	75.10	91.90	111.50	135.00	162.00	194.00	208.00
30.0	31.00	39.20	49.00	60.70	74.70	91.30	111.00	134.00	161.50	193.00	207.00
35.0	30.70	38.90	48.70	60.30	74.10	90.60	110.00	133.00	160.50	192.50	207.00
40.0	30.40	38.60	48.30	59.80	73.50	89.80	109.00	132.00	159.50	191.50	206.00
45.0	30.10	38.30	47.90	59.20	72.70	88.80	108.00	131.00	158.00	190.50	205.00
50.0	29.80	37.90	47.40	58.60	71.90	87.80	107.00	130.00	157.00	189.50	205.00
54.4	29.50	37.70	47.00	58.00	71.10	86.90	106.00	129.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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
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 (0.0)
Sound Pressure @ 1m (LT), dBA	70
Sound Power (LT), dBA	81
Sound Power with Sound Shell (LT), dBA	71
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	1
Internal Free Volume, l	5.7
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	16
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line 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

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