



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified Liquid injection
- 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	3.77	4.75	5.95	7.39	9.10	11.10					
15.0	3.61	4.55	5.70	7.07	8.69	10.60	12.75				
20.0	3.43	4.34	5.43	6.74	8.27	10.05	12.15	14.50			
25.0	3.26	4.12	5.16	6.39	7.84	9.52	11.45	13.70	16.20		
30.0	3.07	3.89	4.87	6.03	7.38	8.96	10.80	12.90	15.25	17.95	19.10
35.0	2.89	3.66	4.58	5.65	6.92	8.39	10.10	12.05	14.25	16.75	17.85
40.0	2.70	3.42	4.27	5.27	6.43	7.79	9.36	11.15	13.25	15.55	16.60
45.0	2.51	3.18	3.96	4.87	5.93	7.18	8.61	10.25	12.15	14.35	15.30
50.0	2.31	2.92	3.63	4.46	5.42	6.55	7.85	9.36	11.10	13.05	13.95
55.0	2.11	2.67	3.30	4.04	4.90	5.90	7.07	8.42	9.99	11.80	12.60
60.0						5.23	6.26	7.46	8.86	10.45	11.20

50 Hz

ZF15K4E-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	1.68	1.78	1.89	2.04	2.22	2.44					
15.0	1.83	1.93	2.05	2.18	2.35	2.56	2.81				
20.0	2.00	2.11	2.22	2.35	2.51	2.71	2.94	3.23			
25.0	2.18	2.30	2.42	2.55	2.70	2.88	3.10	3.37	3.70		
30.0	2.39	2.51	2.64	2.77	2.92	3.10	3.31	3.56	3.86	4.22	4.38
35.0	2.61	2.75	2.89	3.03	3.18	3.35	3.55	3.79	4.07	4.41	4.56
40.0	2.86	3.02	3.17	3.32	3.48	3.65	3.84	4.07	4.33	4.65	4.79
45.0	3.15	3.33	3.49	3.65	3.82	3.99	4.18	4.40	4.65	4.95	5.09
50.0	3.46	3.67	3.85	4.03	4.20	4.38	4.57	4.78	5.03	5.32	5.45
55.0	3.81	4.04	4.25	4.45	4.63	4.82	5.02	5.23	5.47	5.75	5.87
60.0						5.32	5.52	5.74	5.98	6.25	6.37

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	4.90	5.25	5.54	5.80	6.05	6.29					
15.0	5.45	5.72	5.93	6.12	6.29	6.47	6.68				
20.0	5.85	6.05	6.20	6.33	6.45	6.59	6.76	6.98			
25.0	6.13	6.28	6.39	6.48	6.58	6.69	6.84	7.05	7.33		
30.0	6.34	6.46	6.54	6.61	6.69	6.80	6.95	7.16	7.45	7.84	8.03
35.0	6.51	6.61	6.69	6.76	6.84	6.96	7.12	7.36	7.68	8.10	8.31
40.0	6.67	6.78	6.86	6.95	7.06	7.20	7.40	7.68	8.05	8.52	8.75
45.0	6.87	7.00	7.11	7.24	7.39	7.58	7.83	8.16	8.59	9.14	9.40
50.0	7.13	7.31	7.47	7.65	7.86	8.11	8.44	8.85	9.36	10.00	10.29
55.0	7.51	7.74	7.97	8.22	8.51	8.85	9.26	9.77	10.38	11.13	11.46
60.0						9.82	10.34	10.96	11.69	12.56	12.95

50 Hz

ZF15K4E-TFD

R404A Dew Point

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	21.00	26.50	33.30	41.60	51.40	63.00					
15.0	20.90	26.50	33.30	41.50	51.20	62.80	76.30				
20.0	20.80	26.40	33.20	41.30	51.00	62.40	75.80	91.40			
25.0	20.70	26.30	33.00	41.10	50.70	62.00	75.20	90.70	108.50		
30.0	20.50	26.10	32.80	40.80	50.20	61.40	74.50	89.80	107.50	128.50	137.50
35.0	20.40	25.90	32.50	40.40	49.70	60.80	73.70	88.90	106.50	127.50	136.50
40.0	20.20	25.70	32.20	40.00	49.20	60.00	72.80	87.80	105.50	126.00	135.00
45.0	20.00	25.50	31.90	39.50	48.50	59.20	71.70	86.60	104.00	124.50	134.00
50.0	19.90	25.30	31.60	39.00	47.80	58.20	70.60	85.30	102.50	123.00	132.50
55.0	19.80	25.10	31.30	38.50	47.10	57.30	69.40	84.00	101.50	122.00	131.50
60.0						56.40	68.40	82.90	100.00	121.00	130.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	246/251
Height, mm	442
Net Weight, kg	39
Gross Weight, kg	42
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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	65
Sound Power (LT), dBA	76
Sound Power with Sound Shell (LT), dBA	70
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	5.90
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	10
Locked Rotor Current, A	64
Winding Resistance, ohm	2.75
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