



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	7.85	9.80	12.20	15.05	18.40	22.40	27.00				
5.0	7.81	9.76	12.15	14.95	18.35	22.30	26.80				
10.0	7.48	9.39	11.70	14.45	17.65	21.50	25.80	30.90			
15.0	7.14	9.00	11.20	13.85	16.95	20.60	24.80	29.60	35.10		
20.0	6.79	8.58	10.70	13.25	16.20	19.65	23.70	28.30	33.50	39.40	
25.0	6.42	8.15	10.20	12.60	15.40	18.70	22.50	26.80	31.80	37.50	39.90
30.0	6.04	7.70	9.64	11.90	14.55	17.65	21.20	25.40	30.10	35.40	37.70
35.0	5.65	7.23	9.06	11.20	13.70	16.60	19.95	23.80	28.30	33.30	35.50
40.0	5.26	6.75	8.46	10.45	12.80	15.50	18.60	22.20	26.40	31.10	33.20
45.0	4.86	6.25	7.84	9.68	11.80	14.30	17.20	20.60	24.40	28.80	30.80
50.0	4.45	5.74	7.20	8.88	10.85	13.10	15.75	18.85	22.40	26.50	28.30
54.4	4.09	5.29	6.62	8.16	9.94	12.00	14.45	17.30			

50 Hz

ZF34K5E-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	2.86	3.03	3.22	3.45	3.69	3.96	4.23				
5.0	2.88	3.05	3.25	3.47	3.72	3.98	4.26				
10.0	3.10	3.28	3.48	3.71	3.95	4.22	4.50	4.78			
15.0	3.34	3.52	3.73	3.97	4.22	4.49	4.78	5.07	5.37		
20.0	3.60	3.79	4.01	4.25	4.52	4.80	5.10	5.40	5.71	6.02	
25.0	3.88	4.08	4.32	4.58	4.86	5.15	5.46	5.78	6.10	6.43	6.55
30.0	4.18	4.40	4.66	4.93	5.23	5.55	5.87	6.21	6.55	6.89	7.03
35.0	4.51	4.75	5.03	5.33	5.65	5.98	6.33	6.69	7.05	7.42	7.56
40.0	4.87	5.14	5.43	5.76	6.10	6.47	6.84	7.23	7.61	8.00	8.16
45.0	5.25	5.55	5.88	6.24	6.61	7.00	7.41	7.82	8.24	8.66	8.82
50.0	5.68	6.01	6.37	6.76	7.16	7.59	8.03	8.47	8.93	9.38	9.56
54.4	6.08	6.44	6.84	7.25	7.70	8.15	8.62	9.10			

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	8.76	8.93	9.15	9.41	9.71	10.04	10.39				
5.0	8.79	8.96	9.18	9.44	9.74	10.07	10.42				
10.0	9.03	9.22	9.45	9.72	10.03	10.37	10.73	11.12			
15.0	9.30	9.50	9.75	10.04	10.37	10.73	11.11	11.51	11.92		
20.0	9.60	9.83	10.10	10.41	10.76	11.14	11.55	11.97	12.41	12.85	
25.0	9.94	10.19	10.49	10.83	11.21	11.62	12.06	12.51	12.98	13.45	13.64
30.0	10.32	10.61	10.94	11.32	11.73	12.18	12.65	13.14	13.64	14.15	14.35
35.0	10.74	11.07	11.45	11.87	12.32	12.81	13.32	13.85	14.39	14.94	15.16
40.0	11.22	11.60	12.02	12.48	12.99	13.52	14.08	14.66	15.25	15.84	16.08
45.0	11.76	12.18	12.66	13.18	13.73	14.32	14.93	15.56	16.21	16.86	17.12
50.0	12.35	12.84	13.37	13.95	14.56	15.21	15.88	16.57	17.27	17.99	18.27
54.4	12.94	13.48	14.07	14.70	15.37	16.08	16.80	17.55			

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	41.80	52.40	65.30	80.90	99.60	121.50	147.50				
5.0	41.80	52.40	65.30	81.00	99.60	121.50	147.50				
10.0	41.70	52.40	65.50	81.20	99.90	122.00	148.00	178.00			
15.0	41.40	52.30	65.50	81.30	100.00	122.00	148.00	178.50	214.00		
20.0	41.10	52.20	65.40	81.20	99.90	122.00	148.00	178.00	213.00	254.00	
25.0	40.80	51.90	65.20	81.00	99.60	121.50	147.50	177.50	213.00	254.00	272.00
30.0	40.30	51.60	64.90	80.60	99.10	121.00	147.00	177.00	212.00	254.00	272.00
35.0	39.90	51.20	64.40	80.00	98.50	120.00	146.00	176.00	211.00	253.00	271.00
40.0	39.40	50.70	63.90	79.40	97.70	119.00	144.50	175.00	210.00	252.00	270.00
45.0	38.80	50.20	63.30	78.60	96.70	118.00	143.50	173.50	209.00	251.00	270.00
50.0	38.30	49.60	62.60	77.70	95.50	116.50	142.00	171.50	207.00	250.00	269.00
54.4	37.90	49.20	62.00	76.90	94.50	115.50	140.50	170.50			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	29.1
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	63.1
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 (LT), dBA	68
Sound Power (LT), dBA	79
Sound Power with Sound Shell (LT), dBA	67
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
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	3922
Refrigerant's classification	A1

50 Hz

ZF34K5E-TFD

R404A Dew Point

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

Maximum Operating Current, A	25
Locked Rotor Current, A	100
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	66 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
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
TFC	200-240 V / 3~ / 50 Hz	200		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TFC	208-230 V / 3~ / 60 Hz	220		Y	2.18