



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
10.0	15.25	18.60	22.70	27.50					
15.0	14.50	17.75	21.70	26.20	31.60				
20.0	13.80	16.90	20.60	25.00	30.10	35.90			
25.0	13.00	16.05	19.60	23.70	28.50	34.00	40.30		
30.0	12.20	15.15	18.50	22.40	27.00	32.10	38.00	40.50	44.60
35.0	11.35	14.15	17.40	21.10	25.30	30.10	35.60	38.00	41.80
40.0	10.45	13.10	16.15	19.65	23.60	28.10	33.20	35.40	38.90
45.0	9.45	12.00	14.85	18.10	21.80	25.90	30.60	32.60	35.90
50.0		10.75	13.45	16.45	19.85	23.60	27.90	29.80	32.80
55.0			11.90	14.70	17.80	21.20	25.10	26.80	29.50
60.0				12.80	15.60	18.70	22.20	23.70	26.10

50 Hz

ZB76K5E-TFD

R404A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	3.81	3.92	4.02	4.11					
15.0	4.20	4.31	4.42	4.52	4.60				
20.0	4.63	4.74	4.86	4.97	5.06	5.12			
25.0	5.13	5.24	5.35	5.46	5.56	5.64	5.68		
30.0	5.71	5.81	5.92	6.02	6.12	6.21	6.26	6.28	6.28
35.0	6.38	6.46	6.56	6.66	6.75	6.84	6.90	6.92	6.93
40.0	7.16	7.22	7.30	7.38	7.47	7.55	7.61	7.62	7.64
45.0	8.06	8.09	8.14	8.21	8.28	8.34	8.40	8.41	8.43
50.0		9.09	9.11	9.15	9.20	9.24	9.29	9.30	9.31
55.0			10.20	10.20	10.25	10.25	10.30	10.30	10.30
60.0				11.45	11.40	11.40	11.40	11.40	11.40

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
10.0	10.55	10.69	10.81	10.89					
15.0	10.86	11.00	11.14	11.24	11.31				
20.0	11.24	11.39	11.53	11.65	11.74	11.78			
25.0	11.72	11.87	12.01	12.13	12.24	12.30	12.32		
30.0	12.33	12.46	12.59	12.72	12.83	12.91	12.96	12.96	12.95
35.0	13.08	13.19	13.31	13.43	13.54	13.63	13.69	13.70	13.71
40.0	14.00	14.08	14.18	14.29	14.39	14.49	14.55	14.57	14.58
45.0	15.11	15.16	15.23	15.32	15.41	15.50	15.56	15.58	15.60
50.0		16.44	16.48	16.54	16.61	16.68	16.75	16.76	16.78
55.0			17.96	17.98	18.02	18.07	18.12	18.14	18.16
60.0				19.66	19.67	19.69	19.72	19.73	19.74

50 Hz

ZB76K5E-TFD

R404A Dew Point

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
10.0	85.80	105.00	129.00	157.50					
15.0	85.20	104.50	128.50	157.00	190.50				
20.0	84.50	104.00	128.00	156.50	189.50	229.00			
25.0	83.70	103.50	127.50	156.00	189.00	228.00	273.00		
30.0	82.60	103.00	127.00	155.00	188.00	227.00	272.00	292.00	325.00
35.0	81.30	102.00	126.00	154.00	187.00	226.00	270.00	290.00	323.00
40.0	79.30	100.50	124.50	152.50	185.50	224.00	268.00	288.00	321.00
45.0	76.70	98.00	122.50	150.50	183.50	222.00	266.00	286.00	319.00
50.0		94.90	119.50	148.00	181.00	219.00	263.00	283.00	316.00
55.0			116.00	144.50	177.50	215.00	260.00	280.00	313.00
60.0				139.50	173.00	212.00	257.00	277.00	311.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	28.8
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	61.2
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 (MT), dBA	67
Sound Power (MT), dBA	78
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
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	20.4
Locked Rotor Current, A	118
Winding Resistance, ohm	1.23
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	90 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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04