



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- 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	14.55	18.00	22.20	27.10					
15.0	14.05	17.35	21.30	25.90	31.40				
20.0	13.45	16.60	20.40	24.70	29.90	35.70			
25.0	12.85	15.85	19.35	23.50	28.30	33.80	40.10		
30.0	12.10	15.00	18.35	22.20	26.70	31.80	37.70	40.30	44.40
35.0	11.30	14.05	17.20	20.80	25.00	29.80	35.30	37.70	41.50
40.0	10.40	13.00	16.00	19.40	23.30	27.70	32.80	35.00	38.50
45.0		11.90	14.70	17.85	21.40	25.50	30.20	32.20	35.50
50.0			13.25	16.20	19.55	23.30	27.50	29.40	32.30
55.0			11.75	14.45	17.50	20.90	24.80	26.50	29.20
60.0				12.60	15.35	18.45	21.90	23.50	25.90

50 Hz

ZB76KCE-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	3.76	3.87	3.97	4.07					
15.0	4.17	4.27	4.37	4.47	4.58				
20.0	4.62	4.72	4.82	4.92	5.02	5.12			
25.0	5.12	5.23	5.32	5.42	5.51	5.60	5.70		
30.0	5.69	5.79	5.89	5.97	6.06	6.14	6.23	6.27	6.33
35.0	6.34	6.44	6.53	6.61	6.68	6.76	6.84	6.87	6.92
40.0	7.09	7.18	7.26	7.33	7.39	7.46	7.52	7.55	7.59
45.0		8.02	8.09	8.15	8.20	8.25	8.30	8.32	8.36
50.0			9.03	9.08	9.12	9.16	9.19	9.21	9.23
55.0			10.10	10.15	10.15	10.20	10.20	10.20	10.20
60.0				11.35	11.35	11.35	11.35	11.35	11.35

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	10.44	10.52	10.59	10.67					
15.0	10.77	10.86	10.95	11.04	11.13				
20.0	11.17	11.27	11.36	11.45	11.55	11.65			
25.0	11.64	11.75	11.85	11.94	12.03	12.13	12.24		
30.0	12.22	12.33	12.43	12.53	12.62	12.71	12.81	12.85	12.92
35.0	12.93	13.04	13.14	13.23	13.32	13.40	13.49	13.53	13.59
40.0	13.79	13.90	13.99	14.08	14.16	14.23	14.31	14.34	14.39
45.0		14.93	15.02	15.09	15.16	15.23	15.29	15.31	15.35
50.0			16.24	16.30	16.35	16.40	16.45	16.46	16.49
55.0			17.67	17.72	17.76	17.79	17.81	17.82	17.83
60.0				19.38	19.39	19.40	19.40	19.40	19.40

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	81.80	101.50	126.00	155.00					
15.0	82.30	102.00	126.00	155.00	189.00				
20.0	82.50	102.50	126.50	154.50	188.00	228.00			
25.0	82.50	102.50	126.00	154.00	187.50	226.00	272.00		
30.0	81.90	102.00	125.50	153.50	186.50	225.00	270.00	290.00	323.00
35.0	80.80	101.00	124.50	152.50	185.00	223.00	268.00	288.00	321.00
40.0	78.90	99.50	123.00	151.00	183.00	221.00	265.00	285.00	318.00
45.0		97.10	121.00	148.50	181.00	218.00	263.00	282.00	315.00
50.0			118.00	146.00	178.00	215.00	259.00	279.00	312.00
55.0			114.00	142.00	174.50	212.00	256.00	276.00	309.00
60.0				137.50	170.50	209.00	254.00	274.00	308.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	29.1
Length/Width, mm	264/284
Height, mm	533
Net Weight, kg	61.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.25
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 (MT), dBA	66
Sound Power (MT), dBA	77
Sound Power with Sound Shell (MT), dBA	68
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
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
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	1.24
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Crankcase Heater	66 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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFE	500 V / 3~ / 50 Hz	500		Y	0.80
TW5	200-220 V / 3~ / 50 Hz	200		Y	2.30
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TFE	575 V / 3~ / 60 Hz	575		Y	0.80