



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 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	12.5
15.0	4.60	5.90	7.55	9.49	11.70	14.20				
20.0	4.65	5.92	7.53	9.45	11.65	14.10				
25.0		5.81	7.37	9.24	11.40	13.80	16.45	17.60		
30.0			7.10	8.91	11.00	13.40	16.00	17.10	18.80	20.30
35.0			6.74	8.49	10.55	12.85	15.35	16.45	18.15	19.60
40.0				8.01	9.97	12.20	14.65	15.70	17.35	18.75
45.0					9.38	11.50	13.90	14.90	16.50	17.85
50.0					8.78	10.80	13.10	14.10	15.60	16.95
55.0						10.15	12.30	13.25	14.70	16.00
60.0							11.55	12.45	13.85	15.05

50 Hz

ZB38KCE-TFD

R22

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
15.0	1.56	1.63	1.65	1.66	1.65	1.66				
20.0	1.82	1.90	1.93	1.95	1.96	2.00				
25.0		2.15	2.20	2.23	2.26	2.30	2.38	2.42		
30.0			2.47	2.51	2.54	2.59	2.68	2.73	2.82	2.91
35.0			2.76	2.80	2.83	2.89	2.98	3.03	3.12	3.22
40.0				3.12	3.15	3.20	3.29	3.34	3.43	3.53
45.0					3.50	3.55	3.63	3.67	3.76	3.86
50.0					3.90	3.94	4.01	4.05	4.13	4.22
55.0						4.39	4.44	4.48	4.55	4.63
60.0							4.95	4.98	5.04	5.11

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	12.5
15.0	5.52	5.58	5.58	5.55	5.51	5.47				
20.0	5.65	5.73	5.75	5.75	5.75	5.75				
25.0		5.90	5.94	5.96	5.97	6.01	6.08	6.12		
30.0			6.15	6.18	6.21	6.27	6.36	6.41	6.52	6.62
35.0			6.41	6.44	6.48	6.54	6.65	6.71	6.82	6.94
40.0				6.76	6.79	6.85	6.96	7.03	7.15	7.27
45.0					7.17	7.22	7.32	7.39	7.51	7.63
50.0					7.63	7.66	7.75	7.81	7.92	8.04
55.0						8.20	8.26	8.31	8.41	8.52
60.0							8.88	8.91	9.00	9.09

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	12.5
15.0	22.20	28.60	36.70	46.40	57.60	70.30				
20.0	23.20	29.60	37.80	47.60	59.00	72.00				
25.0		30.00	38.20	48.10	59.70	72.80	87.50	93.80		
30.0			38.00	48.00	59.60	72.90	87.90	94.30	104.50	113.50
35.0			37.40	47.30	59.10	72.50	87.60	94.10	104.50	113.50
40.0				46.30	58.10	71.60	86.80	93.40	104.00	113.00
45.0					56.80	70.30	85.70	92.30	103.00	112.00
50.0					55.50	69.00	84.30	91.00	101.50	111.00
55.0						67.70	83.00	89.70	100.50	110.00
60.0							82.00	88.70	99.30	109.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	14.4
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	37.5
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 (MT), dBA	61
Sound Power (MT), dBA	72
Sound Power with Sound Shell (MT), dBA	67
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.20
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.8
Locked Rotor Current, A	65.5
Winding Resistance, ohm	2.74
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
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