



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

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	10.30	13.10	16.35	20.10				
15.0	9.71	12.45	15.65	19.40				
20.0	9.06	11.75	14.90	18.55	22.70			
25.0	8.37	11.00	14.05	17.60	21.70	26.30		
30.0	7.65	10.20	13.15	16.55	20.50	25.00	30.00	32.20
35.0	6.92	9.33	12.15	15.45	19.25	23.60	28.50	30.60
40.0		8.45	11.15	14.30	17.95	22.10	26.90	28.90
45.0			10.10	13.05	16.55	20.50	25.10	27.10
50.0				11.80	15.05	18.85	23.20	25.10
55.0				10.45	13.50	17.10	21.20	23.00

50 Hz

ZB66KCE-TFD

R407A Dew Point

Cond °C	Power, kW							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	2.75	2.76	2.80	2.90				
15.0	3.16	3.17	3.18	3.24				
20.0	3.60	3.62	3.63	3.66	3.75			
25.0	4.07	4.11	4.12	4.14	4.20	4.31		
30.0	4.54	4.62	4.66	4.69	4.72	4.80	4.94	5.02
35.0	5.03	5.16	5.24	5.28	5.31	5.36	5.47	5.53
40.0		5.71	5.84	5.91	5.96	6.00	6.08	6.13
45.0			6.46	6.58	6.65	6.71	6.77	6.81
50.0				7.27	7.39	7.47	7.54	7.57
55.0				7.99	8.16	8.27	8.36	8.40

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	7.68	7.75	7.87	8.06				
15.0	8.65	8.69	8.75	8.87				
20.0	9.48	9.51	9.54	9.61	9.74			
25.0	10.19	10.23	10.25	10.29	10.36	10.51		
30.0	10.80	10.87	10.91	10.93	10.98	11.07	11.23	11.32
35.0	11.34	11.46	11.53	11.56	11.60	11.65	11.76	11.83
40.0		12.01	12.13	12.20	12.24	12.29	12.37	12.41
45.0			12.74	12.86	12.93	12.99	13.06	13.10
50.0				13.56	13.69	13.78	13.86	13.89
55.0				14.34	14.54	14.68	14.79	14.83

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	56.00	70.00	86.10	104.50				
15.0	54.90	69.20	85.70	104.50				
20.0	53.40	68.10	85.00	104.00	125.50			
25.0	51.70	66.60	83.70	103.00	125.00	149.00		
30.0	49.60	64.70	82.10	101.50	124.00	148.50	176.00	187.50
35.0	47.30	62.50	79.90	99.80	122.00	147.00	175.00	186.50
40.0		59.80	77.30	97.30	120.00	145.00	173.50	185.50
45.0			74.30	94.20	117.00	142.50	171.00	183.50
50.0				90.60	113.50	139.00	168.00	180.50
55.0				86.40	109.00	135.00	164.50	177.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	24.9
Length/Width, mm	264/284
Height, mm	533
Net Weight, kg	59.9
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	67
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	2107
Refrigerant's classification	A1

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

Maximum Operating Current, A	17.5
Locked Rotor Current, A	111
Winding Resistance, ohm	1.37
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Crankcase Heater	66 W External
Enclosure Class	IP66 With Molded Plug
Rotalock valves	suction and discharge
Mounting Grommets	Hard Mounts for Paralleling

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