



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	32.40	40.10	49.20	60.10	73.00	78.80			
25.0	30.70	38.10	46.90	57.40	69.80	75.40	84.30		
30.0	28.90	36.10	44.60	54.80	66.70	72.00	80.60	88.30	96.70
35.0	27.20	34.20	42.40	52.10	63.50	68.60	76.80	84.30	92.30
40.0	25.60	32.20	40.10	49.40	60.30	65.10	73.00	80.10	87.80
45.0	23.90	30.30	37.80	46.70	57.00	61.70	69.20	75.90	83.20
50.0		28.30	35.50	43.90	53.80	58.10	65.30	71.70	78.60
55.0		26.40	33.20	41.10	50.40	54.60	61.30	67.40	73.90
60.0			30.70	38.20	47.00	50.90	57.20	62.90	69.10
65.0			28.30	35.30	43.40	47.10	53.00	58.40	64.20
70.0				32.20	39.80	43.20	48.70	53.70	59.10
75.0				29.00	36.00	39.10	44.20	48.90	53.90

50 Hz

ZR380KCE-TWD

R134a

Cond °C	Power, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	7.95	8.17	8.48	8.91	9.50	9.78			
25.0	9.03	9.23	9.49	9.84	10.30	10.55	10.95		
30.0	10.15	10.35	10.60	10.90	11.30	11.45	11.80	12.10	12.50
35.0	11.35	11.60	11.80	12.05	12.40	12.55	12.80	13.05	13.35
40.0	12.60	12.90	13.10	13.35	13.65	13.80	14.00	14.20	14.45
45.0	13.95	14.30	14.55	14.80	15.05	15.20	15.40	15.55	15.75
50.0		15.80	16.15	16.40	16.65	16.80	16.95	17.10	17.25
55.0		17.40	17.85	18.15	18.45	18.55	18.70	18.85	19.00
60.0			19.65	20.10	20.40	20.50	20.70	20.80	20.90
65.0			21.60	22.10	22.50	22.70	22.90	23.00	23.10
70.0				24.40	24.90	25.00	25.20	25.40	25.60
75.0				26.80	27.40	27.60	27.90	28.10	28.20

Cond °C	Current at 400 V, A								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	18.85	18.57	18.32	18.17	18.19	18.26			
25.0	20.63	20.46	20.29	20.16	20.15	20.20	20.33		
30.0	22.31	22.29	22.21	22.14	22.13	22.16	22.26	22.39	22.58
35.0	23.93	24.08	24.12	24.13	24.15	24.18	24.26	24.36	24.51
40.0	25.49	25.84	26.04	26.15	26.23	26.27	26.35	26.44	26.56
45.0	27.03	27.61	27.99	28.23	28.39	28.45	28.55	28.64	28.75
50.0		29.41	29.99	30.39	30.67	30.76	30.88	30.99	31.10
55.0		31.25	32.07	32.66	33.07	33.20	33.38	33.51	33.64
60.0			34.25	35.05	35.63	35.82	36.06	36.23	36.39
65.0			36.56	37.60	38.37	38.62	38.94	39.17	39.38
70.0				40.32	41.31	41.64	42.06	42.36	42.62
75.0				43.23	44.48	44.89	45.42	45.80	46.14

50 Hz

ZR380KCE-TWD

R134a

Cond °C	Suction Mass Flow, g/s								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	190.50	231.00	279.00	335.00	399.00	428.00			
25.0	188.50	229.00	277.00	333.00	397.00	426.00	471.00		
30.0	186.00	227.00	276.00	331.00	396.00	424.00	470.00	510.00	554.00
35.0	184.00	226.00	274.00	330.00	394.00	422.00	468.00	508.00	552.00
40.0	181.50	224.00	273.00	328.00	392.00	421.00	466.00	506.00	549.00
45.0	179.50	222.00	271.00	327.00	391.00	419.00	464.00	504.00	547.00
50.0		220.00	269.00	325.00	389.00	417.00	462.00	502.00	544.00
55.0		218.00	267.00	323.00	387.00	414.00	459.00	499.00	541.00
60.0			265.00	321.00	384.00	412.00	456.00	496.00	538.00
65.0			263.00	318.00	381.00	409.00	453.00	492.00	534.00
70.0				315.00	377.00	405.00	449.00	488.00	530.00
75.0				311.00	373.00	400.00	444.00	483.00	524.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	87.5
Length/Width, mm	447/427
Height, mm	724
Net Weight, kg	176
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 3/8
Oil Quantity, l	6.3
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	266.7 x 266.7 (22.6)
Sound Pressure @ 1m (HT), dBA	76
Sound Power (HT), dBA	87
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	31.6
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	62.5
Locked Rotor Current, A	310
Winding Resistance, ohm	0.36
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermistor
Discharge Temperature Protection	PTC in Scroll Discharge Port
Enclosure Class	IP 54
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve
Mounting Grommets	Standard
Oil Charge	

### **ACCESSORIES OPTIONAL**

Mounting Grommets	Rubber Grommet For Single
Mounting Grommets	Rubber Grommet For Parallel
Oil Control System	Operation
Crankcase Heater	ALCO Trax-Oil OM3
Adapter Kit	102 W External
	R1"3/4 - B1"3/8 For TPTL for
	Parallel Operation

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWC	200 V / 3~ / 50 Hz	200		Y	2.09
TWE	500 V / 3~ / 50 Hz	500		Y	0.80
TWD	460 V / 3~ / 60 Hz	460		Y	1.04
TWC	208-230 V / 3~ / 60 Hz	230		Y	2.09
TWE	575 V / 3~ / 60 Hz	575		Y	0.80
TW7	380 V / 3~ / 60 Hz	380		Y	1.26