



Minimum Evaporating Temp. With:

- 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	25.0	30.0	35.0	40.0
20.0	25.50	31.70	39.20	48.10	58.60	63.40								
25.0	24.20	30.20	37.40	46.00	56.10	60.70	68.00							
30.0	22.80	28.70	35.70	43.90	53.60	58.00	65.00	71.40	78.30					
35.0	21.40	27.20	33.90	41.80	51.10	55.30	62.10	68.20	74.70					
40.0	20.00	25.60	32.10	39.70	48.60	52.60	59.00	64.90	71.10	85.20				
45.0	18.55	24.00	30.20	37.50	46.00	49.80	55.90	61.50	67.50	80.80	96.20			
50.0		22.30	28.30	35.20	43.30	46.90	52.80	58.00	63.70	76.40	91.00	107.50		
55.0		20.50	26.20	32.80	40.50	44.00	49.50	54.50	59.90	71.90	85.80	101.50	119.50	
60.0			24.00	30.30	37.60	40.90	46.10	50.80	55.90	67.30	80.40	95.40	112.50	132.00
65.0			21.70	27.70	34.50	37.60	42.50	46.90	51.70	62.40	74.80	89.00	105.00	123.50
70.0				24.80	31.30	34.10	38.70	42.90	47.40	57.40	69.00	82.30	97.60	115.00
75.0				21.80	27.80	30.50	34.80	38.70	42.80	52.20	63.00	75.50	89.80	106.00
80.0							30.60	34.10	38.00	46.60	56.70	68.20	81.60	96.90
85.0										40.80	50.00	60.60	73.00	87.10

Cond °C	Power, kW													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	6.77	6.88	7.04	7.26	7.56	7.70								
25.0	7.68	7.80	7.94	8.15	8.41	8.54	8.76							
30.0	8.61	8.73	8.87	9.06	9.29	9.40	9.60	9.78	9.98					
35.0	9.59	9.71	9.85	10.00	10.25	10.35	10.50	10.65	10.80					
40.0	10.65	10.80	10.90	11.10	11.25	11.35	11.50	11.60	11.75	12.10				
45.0	11.80	11.95	12.10	12.25	12.40	12.50	12.60	12.70	12.85	13.10	13.50			
50.0		13.30	13.45	13.60	13.70	13.80	13.85	13.95	14.05	14.30	14.60	14.95		
55.0		14.80	14.95	15.10	15.20	15.25	15.35	15.40	15.50	15.65	15.90	16.15	16.55	
60.0			16.70	16.85	16.95	16.95	17.05	17.10	17.15	17.25	17.40	17.60	17.90	18.25
65.0			18.70	18.80	18.90	18.95	18.95	19.00	19.05	19.10	19.20	19.35	19.50	19.75
70.0				21.10	21.20	21.20	21.20	21.20	21.20	21.30	21.30	21.40	21.50	21.60
75.0				23.70	23.70	23.80	23.80	23.80	23.80	23.70	23.70	23.70	23.70	23.80
80.0							26.70	26.70	26.60	26.60	26.50	26.40	26.30	26.30
85.0										29.80	29.70	29.50	29.40	29.20

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	25.0	30.0	35.0	40.0
20.0	18.55	18.14	17.81	17.60	17.56	17.60								
25.0	20.13	19.80	19.51	19.30	19.21	19.23	19.31							
30.0	21.57	21.36	21.13	20.94	20.84	20.83	20.86	20.94	21.07					
35.0	22.93	22.85	22.71	22.57	22.46	22.44	22.45	22.49	22.57					
40.0	24.22	24.30	24.27	24.20	24.12	24.10	24.09	24.10	24.15	24.34				
45.0	25.48	25.74	25.86	25.88	25.85	25.83	25.82	25.82	25.84	25.96	26.21			
50.0		27.21	27.49	27.62	27.67	27.67	27.67	27.67	27.68	27.74	27.89	28.20		
55.0		28.73	29.20	29.48	29.62	29.65	29.68	29.69	29.70	29.72	29.80	29.98	30.31	
60.0			31.02	31.47	31.73	31.80	31.87	31.90	31.92	31.93	31.96	32.04	32.23	32.58
65.0			32.98	33.62	34.04	34.15	34.27	34.34	34.38	34.41	34.41	34.42	34.49	34.68
70.0				35.98	36.56	36.73	36.93	37.04	37.12	37.19	37.18	37.14	37.12	37.16
75.0				38.57	39.35	39.58	39.86	40.03	40.16	40.29	40.30	40.23	40.14	40.08
80.0							43.10	43.35	43.53	43.75	43.80	43.73	43.60	43.44
85.0										47.60	47.72	47.68	47.52	47.30

50 Hz

ZH125KCE-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	25.0	30.0	35.0	40.0
20.0	150.00	183.00	222.00	268.00	321.00	344.00								
25.0	148.50	182.00	221.00	267.00	319.00	343.00	380.00							
30.0	146.50	180.50	220.00	266.00	318.00	342.00	379.00	413.00	448.00					
35.0	144.50	179.50	219.00	265.00	318.00	341.00	378.00	411.00	447.00					
40.0	142.50	178.00	218.00	264.00	316.00	340.00	377.00	410.00	445.00	523.00				
45.0	139.50	176.00	216.00	263.00	315.00	338.00	375.00	408.00	443.00	521.00	608.00			
50.0		173.00	214.00	261.00	313.00	336.00	373.00	406.00	441.00	518.00	605.00	703.00		
55.0		169.50	211.00	258.00	311.00	334.00	371.00	403.00	438.00	515.00	602.00	699.00	808.00	
60.0			207.00	255.00	308.00	331.00	367.00	400.00	435.00	511.00	598.00	695.00	803.00	925.00
65.0			202.00	250.00	303.00	326.00	363.00	396.00	430.00	507.00	593.00	689.00	798.00	919.00
70.0				243.00	297.00	320.00	357.00	390.00	424.00	501.00	587.00	683.00	792.00	913.00
75.0				234.00	288.00	312.00	349.00	382.00	417.00	493.00	579.00	676.00	785.00	907.00
80.0							339.00	372.00	407.00	484.00	571.00	668.00	777.00	900.00
85.0										473.00	560.00	658.00	769.00	893.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	71.4
Length/Width, mm	390/447
Height, mm	715
Net Weight, kg	160
Gross Weight, kg	188
Rotalock Suction, inch	2 1/4 x 12 UN
Rotalock Discharge, inch	1 3/4 x 12 UN
Stub Suction, inch	1 5/8 ID
Stub Discharge, inch	1 3/8 ID
Oil Quantity, l	6.8
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	74
Sound Power (HT), dBA	85
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	34.8
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	52.8
Locked Rotor Current, A	272
Winding Resistance, ohm	0.51
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

<p>Adapter Kit Oil Control System Crankcase Heater Mounting Grommets</p>	<p>R1"3/4 - B1"3/8 For TPTL for Parallel Operation ALCO Trax-Oil OM3 95 W External Rubber Grommet For Parallel Operation</p>
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MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
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