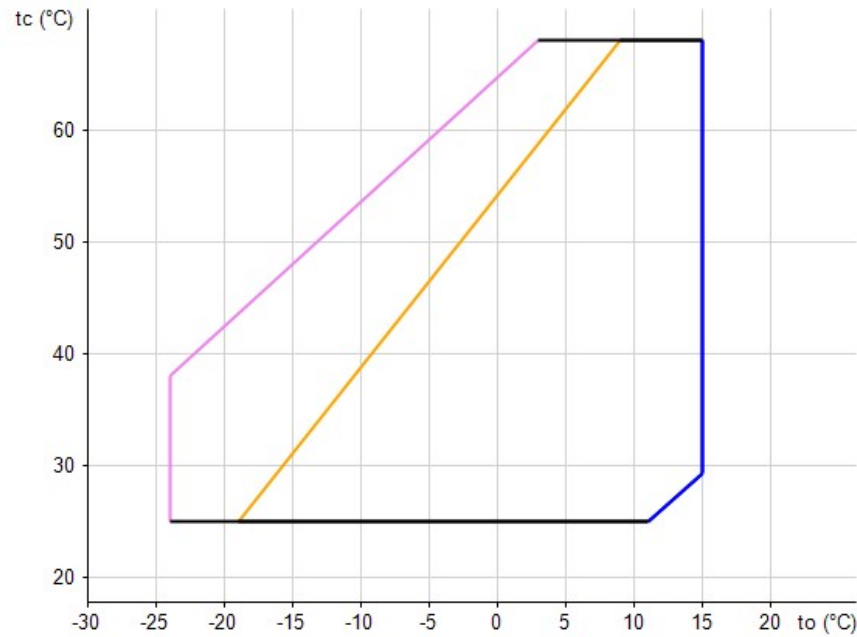


50 Hz

ZR310KCE-TWD

R407C Dew Point



Minimum Evaporating Temp. With:

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

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
25.0	30.80	39.00	48.80	60.30	73.70	89.20	96.10	107.00		
30.0	28.50	36.50	45.80	56.80	69.70	84.60	91.20	101.50	111.00	121.50
35.0	26.30	33.90	42.80	53.30	65.60	79.80	86.10	96.30	105.50	115.00
40.0	24.00	31.20	39.70	49.70	61.40	75.00	81.00	90.70	99.30	108.50
45.0		28.60	36.60	46.10	57.20	70.10	75.80	85.00	93.20	102.00
50.0			33.50	42.40	52.80	65.00	70.40	79.10	87.00	95.40
55.0				38.60	48.40	59.90	65.00	73.20	80.60	88.60
60.0					43.90	54.60	59.40	67.20	74.20	81.70
65.0						49.30	53.80	61.00	67.60	74.60
68.0						46.10	50.40	57.30	63.60	70.30

50 Hz

ZR310KCE-TWD

R407C Dew Point

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
25.0	11.05	11.25	11.50	11.80	12.10	12.45	12.60	12.85		
30.0	12.30	12.45	12.65	12.90	13.20	13.55	13.65	13.90	14.10	14.30
35.0	13.80	13.90	14.05	14.25	14.50	14.80	14.95	15.15	15.35	15.55
40.0	15.55	15.60	15.70	15.85	16.05	16.30	16.40	16.60	16.80	16.95
45.0		17.60	17.65	17.75	17.85	18.05	18.15	18.35	18.50	18.65
50.0			19.95	19.95	20.00	20.20	20.20	20.40	20.50	20.60
55.0				22.50	22.50	22.60	22.60	22.70	22.80	22.90
60.0					25.50	25.40	25.40	25.50	25.60	25.60
65.0						28.70	28.70	28.70	28.70	28.70
68.0						30.90	30.80	30.80	30.80	30.80

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
25.0	24.37	24.64	24.86	25.10	25.38	25.77	25.96	26.30		
30.0	25.73	26.00	26.22	26.42	26.67	27.00	27.16	27.45	27.74	28.08
35.0	27.32	27.59	27.80	27.98	28.19	28.46	28.60	28.84	29.09	29.38
40.0	29.21	29.49	29.69	29.85	30.01	30.23	30.34	30.55	30.75	31.00
45.0		31.78	31.97	32.11	32.23	32.40	32.48	32.64	32.81	33.02
50.0			34.72	34.84	34.93	35.04	35.10	35.22	35.35	35.51
55.0				38.12	38.18	38.24	38.27	38.35	38.44	38.56
60.0					42.06	42.07	42.08	42.12	42.17	42.24
65.0						46.62	46.61	46.60	46.61	46.65
68.0						49.73	49.70	49.67	49.66	49.67

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
25.0	172.00	215.00	264.00	322.00	388.00	463.00	496.00	549.00		
30.0	167.00	210.00	259.00	317.00	383.00	458.00	491.00	543.00	590.00	640.00
35.0	161.50	204.00	254.00	311.00	377.00	452.00	484.00	537.00	583.00	633.00
40.0	155.00	198.00	247.00	304.00	370.00	445.00	477.00	530.00	576.00	626.00
45.0		191.00	241.00	297.00	362.00	437.00	470.00	522.00	568.00	618.00
50.0			233.00	289.00	354.00	429.00	461.00	513.00	560.00	609.00
55.0				281.00	345.00	419.00	452.00	504.00	550.00	600.00
60.0					336.00	410.00	442.00	494.00	540.00	590.00
65.0						399.00	431.00	484.00	530.00	580.00
68.0						392.00	425.00	477.00	524.00	574.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	71.4
Length/Width, mm	447/390
Height, mm	724
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
Stub Discharge, inch	1 3/8
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	34.0
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	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	52
Locked Rotor Current, A	272
Winding Resistance, ohm	0.51
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
Mounting Grommets	Standard
Oil Charge	
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve

50 Hz

ZR310KCE-TWD

R407C Dew Point

ACCESSORIES OPTIONAL

Crankcase Heater	150 W External
Crankcase Heater	102 W External
Mounting Grommets	Rubber Grommet For Single
Mounting Grommets	Rubber Grommet For Parallel
Adapter Kit	Operation
Oil Control System	R1"3/4 - B1"3/8 For TPTL for
ALCO Trax-Oil OM3	Parallel Operation

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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
TWR	220-240 V / 3~ / 50 Hz	230		Y	1.73
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