



Minimum Evaporating Temp. With:	
■ 10 K Suction Superheat	■ 5 K Suction Superheat OEM envelope
■ 10 K Suction Superheat OEM envelope	
■ 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	20.0
10.0	49.40	60.40	73.30	88.50							
15.0	47.10	57.90	70.50	85.20	102.00						
20.0	44.80	55.20	67.50	81.70	98.20	117.00					
25.0	42.40	52.50	64.30	78.00	93.90	112.00	120.00	132.50			
30.0	39.90	49.60	61.00	74.10	89.30	106.50	114.50	126.50	137.50	149.00	
35.0	37.40	46.70	57.50	70.00	84.50	101.00	108.50	120.00	130.00	141.00	165.00
40.0	34.90	43.70	53.90	65.80	79.40	95.10	102.00	113.00	123.00	133.00	156.00
45.0		40.60	50.20	61.30	74.10	88.90	95.30	105.50	115.00	125.00	146.50
50.0			46.30	56.60	68.60	82.30	88.40	98.10	107.00	116.00	136.50
55.0				51.70	62.70	75.40	81.00	90.00	98.10	106.50	125.50
60.0					56.50	68.00	73.10	81.40	88.80	96.70	114.00
65.0					49.60	59.90	64.50	71.80	78.40	85.60	

Cond °C	Power, kW										
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
10.0	10.00	10.50	11.00	11.50							
15.0	11.40	11.80	12.25	12.65	13.10						
20.0	12.85	13.20	13.50	13.90	14.30	14.70					
25.0	14.45	14.65	14.95	15.25	15.60	16.00	16.15	16.40			
30.0	16.20	16.35	16.50	16.75	17.05	17.40	17.55	17.80	18.00	18.20	
35.0	18.20	18.20	18.30	18.50	18.75	19.05	19.20	19.40	19.60	19.80	20.30
40.0	20.40	20.30	20.30	20.40	20.60	20.90	21.00	21.30	21.50	21.70	22.10
45.0		22.70	22.70	22.70	22.80	23.10	23.20	23.40	23.60	23.80	24.30
50.0			25.30	25.30	25.40	25.60	25.70	25.90	26.10	26.30	26.70
55.0				28.30	28.30	28.40	28.50	28.70	28.90	29.10	29.60
60.0					31.60	31.70	31.80	32.00	32.10	32.30	32.80
65.0					35.40	35.50	35.50	35.70	35.80	36.00	

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	20.0
10.0	24.34	24.90	25.43	25.94							
15.0	25.95	26.41	26.87	27.33	27.80						
20.0	27.64	28.01	28.39	28.79	29.23	29.70					
25.0	29.50	29.77	30.07	30.41	30.80	31.26	31.45	31.77			
30.0	31.61	31.77	31.98	32.26	32.61	33.03	33.23	33.55	33.84	34.16	
35.0	34.06	34.10	34.22	34.42	34.72	35.11	35.30	35.61	35.91	36.23	36.98
40.0	36.91	36.83	36.85	36.97	37.21	37.57	37.75	38.06	38.35	38.68	39.45
45.0		40.04	39.96	40.00	40.17	40.49	40.66	40.95	41.24	41.58	42.36
50.0			43.62	43.57	43.68	43.95	44.10	44.38	44.67	45.00	45.80
55.0				47.78	47.81	48.02	48.16	48.43	48.71	49.03	49.84
60.0					52.65	52.80	52.92	53.17	53.44	53.76	54.57
65.0					58.28	58.37	58.47	58.69	58.94	59.25	

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	20.0
10.0	238.00	288.00	346.00	413.00							
15.0	236.00	286.00	345.00	413.00	491.00						
20.0	234.00	285.00	344.00	412.00	490.00	579.00					
25.0	231.00	283.00	342.00	411.00	489.00	578.00	617.00	678.00			
30.0	228.00	280.00	340.00	408.00	487.00	575.00	614.00	676.00	731.00	789.00	
35.0	225.00	277.00	337.00	405.00	483.00	572.00	611.00	672.00	727.00	785.00	912.00
40.0	222.00	274.00	333.00	401.00	479.00	567.00	606.00	667.00	722.00	780.00	906.00
45.0		270.00	329.00	397.00	474.00	562.00	600.00	661.00	716.00	773.00	900.00
50.0			325.00	392.00	468.00	555.00	593.00	654.00	708.00	766.00	892.00
55.0				386.00	461.00	548.00	585.00	646.00	700.00	757.00	883.00
60.0					455.00	540.00	577.00	637.00	691.00	748.00	873.00
65.0					448.00	532.00	569.00	629.00	682.00	739.00	

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	60.8
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
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:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	II
Max. Low Side Internal Free Volume, l	28.7
Max. High Side Internal Free Volume, l	4.4
Max. Internal Free Volume, l	33.1
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High Side TS Min., °C	-35
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	65.4
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
Mounting Grommets	Standard
Mounting Grommets	Rubber Grommet For Single
Oil Charge	
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve

**ACCESSORIES OPTIONAL**

Crankcase Heater	102 W External
Mounting Grommets	Rubber Grommet For Parallel
Adapter Kit	Operation
Oil Control System	R1"3/4 - B1"3/8 For TPTL for
ALCO Trax-Oil OM4	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
TWD	460 V / 3~ / 60 Hz	460		Y	1.04