



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 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	25.0
10.0	30.20	38.00	47.60									
15.0	28.60	36.10	45.40	56.60								
20.0	26.90	34.20	43.20	54.00	66.80							
25.0	25.20	32.20	40.90	51.20	63.50	78.00	84.40					
30.0	23.40	30.20	38.50	48.40	60.10	74.00	80.10	90.10	99.10			
35.0	21.60	28.10	36.00	45.40	56.70	69.90	75.80	85.30	93.80	103.00		
40.0	19.80	26.00	33.50	42.50	53.10	65.70	71.30	80.30	88.50	97.30	116.50	139.00
45.0	17.95	23.80	30.90	39.40	49.50	61.40	66.70	75.30	83.10	91.40	110.00	131.00
50.0	16.10	21.70	28.30	36.30	45.80	57.00	62.00	70.20	77.50	85.40	103.00	123.00
55.0	14.30	19.50	25.70	33.20	42.10	52.60	57.30	65.00	71.90	79.40	96.00	115.00
60.0		17.35	23.10	30.10	38.30	48.10	52.50	59.70	66.20	73.20	88.90	107.00
65.0			20.50	26.90	34.50	43.60	47.70	54.40	60.40	67.00	81.70	98.60
70.0			17.90	23.70	30.70	39.10	42.80	49.00	54.60	60.70	74.40	90.30
75.0				20.60	26.90	34.50	38.00	43.60	48.80	54.40	67.10	81.80
80.0				17.45	23.10	29.90	33.00	38.20	42.90	48.00	59.70	73.30

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	25.0
10.0	9.14	9.57	9.76									
15.0	9.42	10.05	10.45	10.55								
20.0	9.68	10.45	11.05	11.40	11.45							
25.0	9.90	10.85	11.60	12.20	12.45	12.45	12.30					
30.0	10.10	11.20	12.15	12.90	13.45	13.70	13.70	13.55	13.35			
35.0	10.25	11.50	12.65	13.60	14.35	14.85	14.95	15.05	15.00	14.85		
40.0	10.40	11.80	13.10	14.25	15.25	16.00	16.20	16.45	16.55	16.55	16.25	15.55
45.0	10.50	12.05	13.50	14.85	16.05	17.05	17.35	17.75	18.00	18.15	18.20	17.85
50.0	10.60	12.25	13.90	15.40	16.80	18.05	18.45	19.00	19.40	19.70	20.10	20.00
55.0	10.70	12.45	14.20	15.95	17.55	19.00	19.50	20.20	20.70	21.20	21.90	22.20
60.0		12.60	14.55	16.40	18.20	19.85	20.50	21.30	22.00	22.60	23.60	24.20
65.0			14.80	16.85	18.80	20.70	21.40	22.40	23.20	23.90	25.20	26.20
70.0			15.05	17.20	19.40	21.50	22.30	23.40	24.30	25.20	26.80	28.00
75.0				17.55	19.90	22.20	23.10	24.40	25.40	26.40	28.20	29.80
80.0				17.85	20.40	22.90	23.80	25.30	26.40	27.50	29.60	31.50

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	25.0
10.0	28.87	29.20	29.35									
15.0	29.04	29.51	29.83	29.93								
20.0	29.22	29.82	30.32	30.63	30.65							
25.0	29.39	30.13	30.80	31.32	31.61	31.56	31.42					
30.0	29.55	30.43	31.28	32.01	32.55	32.79	32.79	32.66	32.42			
35.0	29.70	30.71	31.74	32.69	33.49	34.02	34.15	34.22	34.16	33.98		
40.0	29.82	30.97	32.18	33.35	34.40	35.24	35.49	35.76	35.89	35.90	35.54	34.62
45.0	29.92	31.21	32.60	33.99	35.30	36.43	36.81	37.29	37.59	37.80	37.86	37.38
50.0	29.98	31.42	32.99	34.60	36.16	37.59	38.10	38.79	39.28	39.67	40.15	40.12
55.0	30.01	31.59	33.34	35.18	37.00	38.72	39.37	40.26	40.93	41.52	42.41	42.84
60.0		31.72	33.65	35.71	37.79	39.82	40.59	41.69	42.55	43.33	44.63	45.52
65.0			33.92	36.20	38.54	40.87	41.77	43.08	44.12	45.10	46.82	48.16
70.0			34.13	36.64	39.25	41.87	42.91	44.43	45.65	46.82	48.96	50.76
75.0				37.02	39.89	42.82	43.99	45.72	47.13	48.49	51.05	53.31
80.0				37.34	40.48	43.71	45.01	46.95	48.54	50.10	53.08	55.80

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	25.0
10.0	167.00	206.00	254.00									
15.0	164.50	204.00	252.00	308.00								
20.0	161.50	201.00	249.00	306.00	372.00							
25.0	158.00	198.00	246.00	302.00	368.00	444.00	477.00					
30.0	154.00	194.00	242.00	298.00	364.00	439.00	472.00	525.00	572.00			
35.0	149.00	190.00	238.00	294.00	359.00	434.00	467.00	519.00	566.00	616.00		
40.0	144.00	185.00	233.00	288.00	353.00	428.00	460.00	513.00	559.00	609.00	717.00	838.00
45.0	138.50	179.00	227.00	282.00	347.00	421.00	453.00	505.00	551.00	601.00	708.00	829.00
50.0	132.00	173.00	220.00	275.00	339.00	413.00	445.00	496.00	542.00	591.00	698.00	818.00
55.0	125.00	166.00	213.00	268.00	331.00	404.00	435.00	487.00	532.00	581.00	688.00	807.00
60.0		158.50	205.00	259.00	322.00	394.00	425.00	476.00	521.00	570.00	676.00	795.00
65.0			196.50	250.00	311.00	383.00	414.00	464.00	509.00	557.00	663.00	782.00
70.0			187.00	239.00	300.00	371.00	402.00	451.00	496.00	544.00	649.00	767.00
75.0				228.00	288.00	357.00	388.00	437.00	482.00	529.00	634.00	753.00
80.0				216.00	275.00	343.00	374.00	423.00	467.00	514.00	619.00	738.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /h	106
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	760/580
Height, mm	490
Net Weight, kg	246
Gross Weight, kg	262
Rotalock Discharge, inch	1 3/8
Suction, inch	2 1/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.3
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	381 x 305 (18)
Sound Pressure @ 1m, dBA	73
Sound Power, dBA	84
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	63.5
Locked Rotor Current, A	304
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

**ACCESSORIES OPTIONAL**

Capacity Control	Capacity Steps 66/33%
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Unloaded start	Available
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Deep Oil Sump	Mounted

**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>
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
AWR	220-240 V / 3~ / 50 Hz	230	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	Y	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00