



Minimum Evaporating Temp. With:

- 20 °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
10.0	53.30	67.00	83.80					
15.0	50.50	63.80	80.00	99.20				
20.0	47.70	60.50	76.10	94.60	116.50			
25.0	44.90	57.20	72.10	89.80	110.50	135.00	145.50	
30.0	42.00	53.80	68.10	85.00	105.00	128.00	138.50	155.00
35.0	39.10	50.40	64.00	80.10	99.10	121.50	131.00	147.00
40.0	36.10	46.90	59.80	75.10	93.20	114.50	123.50	139.00
45.0	33.20	43.40	55.60	70.10	87.20	107.50	116.00	130.50
50.0	30.10	39.80	51.30	65.00	81.20	100.00	108.50	122.50
55.0	27.10	36.20	47.00	59.80	75.00	92.90	101.00	114.00
60.0		32.50	42.60	54.50	68.80	85.60	93.10	105.50
65.0			38.10	49.20	62.40	78.20	85.20	96.70
70.0			33.70	43.90	56.10	70.60	77.20	88.00
75.0				38.50	49.60	63.00	69.10	79.10
80.0				33.00	43.10	55.40	61.00	70.20

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	12.55	13.10	13.35					
15.0	13.75	14.60	15.15	15.35				
20.0	14.80	15.95	16.85	17.45	17.60			
25.0	15.80	17.20	18.45	19.35	19.95	20.00	19.95	
30.0	16.70	18.40	19.90	21.20	22.10	22.70	22.80	22.70
35.0	17.60	19.45	21.20	22.90	24.20	25.20	25.40	25.70
40.0	18.40	20.50	22.50	24.40	26.10	27.50	27.90	28.50
45.0	19.15	21.40	23.70	25.90	27.90	29.70	30.30	31.10
50.0	19.90	22.30	24.80	27.30	29.60	31.70	32.50	33.60
55.0	20.60	23.20	25.90	28.60	31.20	33.70	34.60	35.90
60.0		24.00	26.90	29.80	32.70	35.50	36.60	38.10
65.0			27.90	31.00	34.20	37.30	38.50	40.20
70.0			28.80	32.20	35.60	39.00	40.30	42.30
75.0				33.30	36.90	40.60	42.00	44.20
80.0				34.40	38.20	42.10	43.70	46.00

Cond °C	Current at 400 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	38.92	39.20	39.18					
15.0	39.76	40.42	40.86	40.90				
20.0	40.60	41.62	42.49	43.03	43.10			
25.0	41.44	42.80	44.07	45.10	45.71	45.75	45.57	
30.0	42.28	43.96	45.62	47.10	48.23	48.87	48.95	48.84
35.0	43.12	45.09	47.12	49.03	50.68	51.89	52.21	52.50
40.0	43.95	46.20	48.58	50.91	53.04	54.80	55.37	56.04
45.0	44.79	47.30	50.00	52.72	55.31	57.61	58.41	59.46
50.0	45.63	48.37	51.37	54.47	57.51	60.32	61.35	62.75
55.0	46.47	49.43	52.71	56.17	59.63	62.93	64.17	65.92
60.0		50.47	54.02	57.80	61.66	65.43	66.88	68.96
65.0			55.28	59.37	63.62	67.84	69.49	71.89
70.0			56.51	60.89	65.49	70.15	71.99	74.69
75.0				62.35	67.29	72.35	74.38	77.38
80.0				63.75	69.01	74.46	76.66	79.94

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	295.00	364.00	447.00					
15.0	291.00	360.00	443.00	541.00				
20.0	286.00	356.00	439.00	536.00	647.00			
25.0	282.00	351.00	434.00	531.00	641.00	768.00	823.00	
30.0	276.00	346.00	429.00	525.00	635.00	761.00	816.00	903.00
35.0	270.00	340.00	422.00	518.00	628.00	753.00	808.00	895.00
40.0	263.00	333.00	415.00	510.00	620.00	745.00	799.00	886.00
45.0	255.00	326.00	408.00	502.00	611.00	735.00	789.00	876.00
50.0	247.00	317.00	399.00	493.00	601.00	724.00	779.00	865.00
55.0	237.00	308.00	389.00	482.00	590.00	713.00	767.00	853.00
60.0		297.00	378.00	470.00	577.00	700.00	754.00	840.00
65.0			365.00	457.00	563.00	685.00	739.00	826.00
70.0			351.00	443.00	548.00	670.00	724.00	810.00
75.0				427.00	531.00	653.00	707.00	794.00
80.0				409.00	513.00	635.00	690.00	777.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	181
Bore/Stroke, mm	74.7/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	335
Gross Weight, kg	356
Suction, inch	3 1/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	7.6
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	457 x 305 (18)
Sound Pressure @ 1m, dBA	78.2
Sound Power, dBA	89.2
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	90.7
Locked Rotor Current, A	441
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4
Deep Oil Sump	Mounted

ACCESSORIES OPTIONAL

Capacity Control	Capacity Steps 75%
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Oil Pressure Switch	OPS2 Electronic Switch
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Unloaded start	Available
Crankcase Heater	200 W Internal
Check Valve	For unloaded start 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>
AWM	380-420 V / 3~ / 50 Hz	400	YYY	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	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	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	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00