



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 20 K suction Superheat
- 20 K suction Superheat + fan
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Evaporating Temperature, °C

Liquid Subcooling 0.0K

Cond °C	Cooling Capacity, kW										
	25.0-	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5	15.0
10.0	22.10	28.70	36.70	46.30	57.70	70.90					
15.0	20.90	27.30	35.10	44.40	55.30	68.10	82.90				
20.0	19.70	25.90	33.30	42.30	52.80	65.10	79.30	85.60	95.60		
25.0	18.35	24.30	31.40	40.00	50.10	61.90	75.60	81.60	91.20	99.90	109.00
30.0	16.95	22.60	29.40	37.60	47.20	58.50	71.60	77.30	86.60	94.80	103.50
35.0	15.50	20.90	27.30	35.10	44.20	54.90	67.40	72.90	81.70	89.60	98.10
40.0	14.05	19.10	25.20	32.50	41.10	51.20	63.00	68.20	76.60	84.20	92.20
45.0	12.65	17.35	23.00	29.80	37.90	47.40	58.50	63.50	71.40	78.50	86.20
50.0	11.25	15.60	20.80	27.10	34.60	43.50	53.90	58.50	66.00	72.70	80.00
55.0		13.85	18.65	24.40	31.30	39.50	49.20	53.50	60.50	66.80	73.60
60.0			16.45	21.70	28.00	35.50	44.40	48.40	54.90	60.80	67.10
65.0				19.00	24.60	31.40	39.60	43.30	49.20	54.70	60.50

Cond °C	Power, kW										
	25.0-	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5	15.0
10.0	6.75	7.32	7.72	7.93	7.88	7.54					
15.0	7.13	7.84	8.42	8.81	8.99	8.89	8.48				
20.0	7.47	8.32	9.05	9.63	10.00	10.15	10.00	9.86	9.53		
25.0	7.77	8.74	9.63	10.40	10.95	11.35	11.45	11.40	11.25	11.05	10.70
30.0	8.03	9.12	10.15	11.10	11.85	12.45	12.80	12.90	12.90	12.80	12.65
35.0	8.27	9.47	10.65	11.75	12.70	13.50	14.10	14.25	14.45	14.50	14.45
40.0	8.48	9.79	11.10	12.35	13.50	14.50	15.30	15.60	15.90	16.10	16.25
45.0	8.67	10.05	11.50	12.90	14.20	15.40	16.45	16.85	17.30	17.65	17.90
50.0	8.85	10.35	11.90	13.40	14.90	16.30	17.55	18.00	18.65	19.10	19.50
55.0		10.60	12.25	13.90	15.55	17.15	18.60	19.15	19.90	20.50	21.00
60.0			12.60	14.35	16.15	17.95	19.60	20.20	21.10	21.90	22.50
65.0				14.80	16.75	18.70	20.60	21.30	22.30	23.10	23.90

Cond °C	Current at 400 V, A										
	25.0-	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5	15.0
10.0	17.96	18.18	18.24	18.16	17.92	17.53					
15.0	18.23	18.73	19.07	19.26	19.31	19.20	18.94				
20.0	18.46	19.23	19.86	20.33	20.65	20.82	20.84	20.81	20.71		
25.0	18.64	19.70	20.60	21.36	21.96	22.41	22.71	22.78	22.85	22.87	22.85
30.0	18.79	20.12	21.31	22.34	23.22	23.95	24.53	24.72	24.96	25.12	25.23
35.0	18.89	20.51	21.97	23.29	24.45	25.46	26.32	26.62	27.02	27.32	27.58
40.0	18.96	20.86	22.60	24.19	25.63	26.92	28.06	28.48	29.05	29.49	29.88
45.0	18.99	21.16	23.19	25.06	26.78	28.35	29.77	30.29	31.03	31.61	32.15
50.0	18.97	21.43	23.73	25.88	27.89	29.73	31.43	32.07	32.98	33.69	34.37
55.0		21.65	24.24	26.67	28.95	31.08	33.06	33.81	34.88	35.74	36.56
60.0			24.70	27.42	29.98	32.38	34.64	35.50	36.75	37.74	38.70
65.0				28.12	30.96	33.65	36.19	37.16	38.57	39.71	40.81

Cond °C	Mass Flow, g/s										
	25.0-	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5	15.0
10.0	111.50	142.50	180.00	224.00	275.00	334.00					
15.0	109.50	141.00	178.50	222.00	273.00	332.00	399.00				
20.0	107.50	138.50	176.00	220.00	271.00	330.00	396.00	425.00	472.00		
25.0	104.50	136.00	173.00	217.00	268.00	326.00	392.00	421.00	468.00	509.00	552.00
30.0	101.00	132.00	169.50	213.00	263.00	321.00	387.00	416.00	462.00	503.00	546.00
35.0	96.80	128.00	165.00	208.00	258.00	315.00	381.00	410.00	455.00	496.00	539.00
40.0	92.60	123.50	159.50	202.00	252.00	308.00	374.00	402.00	448.00	488.00	531.00
45.0	88.10	118.50	154.00	196.00	244.00	301.00	365.00	393.00	438.00	479.00	521.00
50.0	83.40	113.00	148.00	188.50	236.00	292.00	355.00	383.00	428.00	468.00	510.00
55.0		107.50	141.50	181.00	228.00	282.00	345.00	372.00	417.00	456.00	498.00
60.0			134.50	173.00	218.00	271.00	333.00	360.00	404.00	443.00	485.00
65.0				164.50	208.00	260.00	320.00	347.00	390.00	429.00	471.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	70.8
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	670/490
Height, mm	495
Net Weight, kg	194
Gross Weight, kg	210
Suction, inch	2 1/8
Discharge, inch	1 1/8
Oil Quantity, l	3.3
Frequency Range, Hz	25 - 60
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 (18.0)
Sound Pressure @ 1m, dBA	71
Sound Power, dBA	82
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	41
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 50%
Crankcase Heater	100 W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Emerson Industrial Automation, Unidrive M200 06 400 470

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
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
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	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