



Minimum Evaporating Temp. With:

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

Suction Return Temperature 20.0°C

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
10.0	47.00	59.00	73.10	89.70	109.00	131.50				
15.0	44.10	55.60	69.30	85.30	104.00	125.50				
20.0	41.10	52.30	65.50	80.90	98.90	119.50	143.50	154.00		
25.0	38.20	49.00	61.70	76.50	93.70	113.50	136.50	146.50	162.50	177.00
30.0	35.30	45.70	57.80	72.10	88.60	107.50	129.50	139.00	154.50	168.50
35.0		42.40	54.00	67.60	83.40	101.50	122.50	132.00	146.50	160.00
40.0			50.20	63.20	78.30	95.60	115.50	124.50	138.50	151.00
45.0			46.50	58.80	73.10	89.60	108.50	117.00	130.00	142.00
50.0				54.40	67.90	83.50	101.50	109.50	122.00	133.50
55.0					62.80	77.50	94.40	102.00	114.00	124.50
60.0					57.70	71.50	87.40	94.40	105.50	115.50
62.0					55.70	69.10	84.60	91.40	102.50	112.00

Cond °C	Power, kW									
	25.0-	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5
10.0	13.95	14.70	15.15	15.20	14.85	14.00				
15.0	14.70	15.70	16.45	16.90	16.90	16.50				
20.0	15.40	16.70	17.75	18.55	18.95	18.95	18.50	18.15		
25.0	16.05	17.65	19.00	20.10	20.90	21.30	21.30	21.20	20.80	20.40
30.0	16.70	18.55	20.20	21.70	22.80	23.70	24.10	24.10	24.10	23.90
35.0		19.40	21.40	23.10	24.70	25.90	26.80	27.00	27.20	27.20
40.0			22.40	24.50	26.40	28.00	29.30	29.70	30.20	30.50
45.0			23.40	25.80	28.00	30.10	31.80	32.40	33.10	33.70
50.0				27.00	29.60	32.00	34.10	34.90	35.90	36.70
55.0					31.00	33.80	36.30	37.30	38.60	39.60
60.0					32.30	35.40	38.40	39.50	41.10	42.30
62.0					32.80	36.10	39.20	40.30	42.00	43.40

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
10.0	32.44	33.24	33.69	33.70	33.16	31.98				
15.0	33.35	34.51	35.38	35.85	35.84	35.23				
20.0	34.23	35.75	37.02	37.96	38.47	38.44	37.77	37.30		
25.0	35.07	36.94	38.62	40.02	41.04	41.58	41.53	41.33	40.81	40.16
30.0	35.86	38.07	40.15	42.01	43.54	44.64	45.22	45.28	45.17	44.88
35.0		39.13	41.61	43.92	45.95	47.62	48.81	49.13	49.43	49.50
40.0			42.98	45.74	48.28	50.50	52.30	52.88	53.59	54.01
45.0			44.25	47.45	50.49	53.27	55.68	56.52	57.63	58.40
50.0				49.06	52.59	55.91	58.93	60.02	61.53	62.65
55.0					54.56	58.42	62.04	63.39	65.30	66.76
60.0					56.38	60.79	65.00	66.60	68.91	70.72
62.0					57.07	61.69	66.14	67.84	70.30	72.25

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
10.0	221.00	278.00	346.00	426.00	520.00	631.00				
15.0	213.00	270.00	337.00	417.00	511.00	621.00				
20.0	205.00	261.00	329.00	408.00	501.00	610.00	738.00	794.00		
25.0	196.00	252.00	319.00	398.00	491.00	599.00	725.00	782.00	873.00	955.00
30.0	187.50	243.00	310.00	388.00	480.00	587.00	712.00	768.00	859.00	941.00
35.0		234.00	300.00	377.00	468.00	574.00	699.00	754.00	844.00	925.00
40.0			289.00	366.00	456.00	561.00	684.00	739.00	828.00	909.00
45.0			278.00	354.00	443.00	547.00	669.00	723.00	811.00	892.00
50.0				341.00	429.00	532.00	653.00	707.00	794.00	873.00
55.0					415.00	517.00	636.00	690.00	776.00	855.00
60.0					401.00	501.00	619.00	672.00	757.00	835.00
62.0					395.00	495.00	612.00	665.00	750.00	827.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	127
Bore/Stroke, mm	74.7/55.6
Length/Width, mm	760/565
Height, mm	545
Net Weight, kg	252
Gross Weight, kg	268
Rotalock Discharge, inch	1 3/8
Suction, inch	2 1/8
Oil Quantity, l	6.8
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 (MT), dBA	73
Sound Pressure @ 1m (HT), dBA	72
Sound Power (MT), dBA	84
Sound Power (HT), dBA	83
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	71.8
Locked Rotor Current, A	304
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 66/33%
Crankcase Heater	200 W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Emerson Industrial Automation, Unidrive M400 07 400 770

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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