



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- 0 °C Suction Gas Return

— Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	19.95	27.60	37.30	49.20	63.50	80.40				
10.0	18.30	25.60	34.80	46.20	59.80	76.00	94.90			
15.0		23.60	32.30	43.10	56.10	71.50	89.60	110.50	134.00	
20.0		21.60	29.90	40.10	52.40	67.10	84.20	104.00	127.00	153.00
25.0			27.40	37.00	48.70	62.60	78.90	97.80	119.50	144.50
30.0				34.10	45.00	58.10	73.50	91.50	112.00	136.00
35.0				31.10	41.30	53.60	68.20	85.20	105.00	127.50
40.0					37.70	49.20	62.90	78.90	97.40	118.50
45.0					34.20	44.80	57.60	72.60	90.00	110.00
50.0						40.50	52.30	66.30	82.60	
55.0						36.30	47.20	60.10		
60.0							42.10	53.90		
62.0							40.00			

Cond °C	Power, kW									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	9.71	10.90	12.00	12.90	13.65	14.05				
10.0	10.00	11.40	12.75	13.95	14.95	15.70	16.15			
15.0		11.90	13.45	14.95	16.25	17.35	18.15	18.60	18.70	
20.0		12.40	14.20	15.90	17.50	18.90	20.10	20.90	21.40	21.40
25.0			14.90	16.85	18.75	20.50	22.00	23.20	24.00	24.50
30.0				17.75	19.90	21.90	23.70	25.30	26.60	27.50
35.0				18.55	21.00	23.30	25.40	27.40	29.00	30.40
40.0					22.00	24.60	27.00	29.30	31.40	33.10
45.0					22.80	25.70	28.50	31.10	33.50	35.70
50.0						26.70	29.80	32.80	35.50	
55.0						27.60	31.00	34.30		
60.0							31.90	35.60		
62.0								32.30		

Cond °C	Current at 400 V, A									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	30.31	31.32	32.34	33.26	33.98	34.39				
10.0	30.51	31.70	32.96	34.18	35.25	36.07	36.53			
15.0		32.15	33.66	35.18	36.60	37.83	38.76	39.28	39.30	
20.0		32.64	34.40	36.22	38.00	39.64	41.04	42.08	42.68	42.71
25.0			35.14	37.27	39.42	41.47	43.34	44.91	46.08	46.74
30.0				38.30	40.81	43.28	45.62	47.72	49.47	50.77
35.0				39.26	42.14	45.04	47.85	50.48	52.82	54.76
40.0					43.38	46.71	50.00	53.16	56.09	58.67
45.0					44.49	48.25	52.03	55.73	59.24	62.47
50.0						49.63	53.90	58.14	62.25	
55.0						50.81	55.57	60.36		
60.0							57.02	62.36		
62.0								57.53		

Cond °C	Suction Mass Flow, g/s									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	88.80	123.00	167.00	221.00	285.00	363.00				
10.0	84.10	118.00	161.00	214.00	278.00	354.00	444.00			
15.0		112.50	154.50	207.00	270.00	345.00	435.00	539.00	660.00	
20.0		107.00	148.00	199.50	261.00	336.00	424.00	528.00	648.00	787.00
25.0			141.50	191.50	253.00	326.00	413.00	516.00	635.00	774.00
30.0				183.50	243.00	316.00	402.00	503.00	622.00	760.00
35.0				175.00	234.00	305.00	389.00	490.00	608.00	745.00
40.0					224.00	293.00	377.00	476.00	593.00	730.00
45.0					213.00	281.00	363.00	462.00	578.00	715.00
50.0						269.00	350.00	447.00	562.00	
55.0						257.00	336.00	431.00		
60.0							321.00	416.00		
62.0								316.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	151
Bore/Stroke, mm	68.3/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	323
Gross Weight, kg	344
Suction, inch	2 5/8
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	76.7
Sound Power, dBA	87.7
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	74.3
Locked Rotor Current, A	349
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 75%
Crankcase Heater	200 W Internal
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

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