



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	44.30	56.00	70.30					
15.0	41.60	52.90	66.70	83.30				
20.0	38.90	49.80	63.20	79.10	97.90			
25.0	36.20	46.80	59.60	74.90	92.90	114.00	123.50	
30.0	33.50	43.70	56.00	70.60	87.90	108.00	117.00	131.50
35.0	30.90	40.60	52.40	66.30	82.80	102.00	110.50	124.50
40.0	28.30	37.60	48.80	62.00	77.70	96.10	104.50	117.50
45.0	25.70	34.60	45.20	57.70	72.60	90.00	97.80	110.50
50.0	23.20	31.60	41.60	53.40	67.40	83.90	91.30	103.00
55.0	20.70	28.60	38.00	49.10	62.20	77.80	84.70	96.00
60.0		25.70	34.40	44.70	57.00	71.60	78.10	88.70
65.0			30.80	40.40	51.80	65.30	71.40	81.40
70.0			27.30	36.00	46.50	59.00	64.70	74.00
75.0				31.70	41.20	52.70	58.00	66.60
80.0				27.40	36.00	46.40	51.20	59.00

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	10.60	10.95	11.00					
15.0	11.45	12.10	12.45	12.50				
20.0	12.30	13.15	13.80	14.15	14.15			
25.0	13.05	14.15	15.05	15.70	16.05	16.00	15.85	
30.0	13.75	15.10	16.25	17.20	17.85	18.15	18.15	18.05
35.0	14.45	15.95	17.35	18.60	19.55	20.20	20.30	20.50
40.0	15.05	16.75	18.40	19.90	21.20	22.10	22.40	22.80
45.0	15.65	17.55	19.40	21.10	22.70	24.00	24.40	24.90
50.0	16.20	18.30	20.30	22.30	24.10	25.70	26.30	27.00
55.0	16.75	18.95	21.20	23.40	25.50	27.40	28.10	29.00
60.0		19.65	22.10	24.50	26.80	29.00	29.80	30.90
65.0			22.90	25.50	28.00	30.50	31.40	32.70
70.0			23.70	26.50	29.20	31.90	33.00	34.50
75.0				27.40	30.40	33.30	34.50	36.10
80.0				28.30	31.50	34.60	35.90	37.70

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	31.33	31.58	31.53					
15.0	32.04	32.57	32.86	32.79				
20.0	32.74	33.54	34.16	34.47	34.36			
25.0	33.42	34.50	35.44	36.13	36.44	36.27	36.03	
30.0	34.10	35.43	36.69	37.74	38.48	38.78	38.75	38.52
35.0	34.76	36.35	37.91	39.32	40.47	41.24	41.41	41.50
40.0	35.41	37.24	39.10	40.86	42.42	43.64	44.01	44.42
45.0	36.04	38.11	40.26	42.37	44.32	46.00	46.56	47.27
50.0	36.66	38.95	41.39	43.83	46.18	48.29	49.05	50.07
55.0	37.26	39.78	42.48	45.26	47.98	50.54	51.49	52.80
60.0		40.58	43.55	46.64	49.74	52.73	53.86	55.47
65.0			44.58	47.99	51.45	54.86	56.17	58.08
70.0			45.58	49.29	53.11	56.93	58.43	60.62
75.0				50.55	54.72	58.94	60.62	63.09
80.0				51.77	56.28	60.90	62.75	65.49

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	245.00	304.00	375.00					
15.0	239.00	299.00	370.00	454.00				
20.0	233.00	293.00	364.00	448.00	545.00			
25.0	227.00	287.00	359.00	442.00	538.00	649.00	697.00	
30.0	220.00	281.00	352.00	436.00	532.00	642.00	690.00	766.00
35.0	213.00	274.00	346.00	429.00	525.00	634.00	682.00	758.00
40.0	206.00	267.00	339.00	421.00	517.00	626.00	673.00	749.00
45.0	198.00	260.00	331.00	413.00	508.00	617.00	664.00	740.00
50.0	190.00	252.00	323.00	405.00	499.00	607.00	654.00	730.00
55.0	181.50	244.00	314.00	396.00	489.00	597.00	644.00	719.00
60.0		235.00	305.00	386.00	478.00	585.00	632.00	707.00
65.0			295.00	375.00	467.00	573.00	620.00	695.00
70.0			285.00	364.00	455.00	560.00	606.00	682.00
75.0				352.00	442.00	546.00	593.00	668.00
80.0				339.00	428.00	532.00	579.00	654.00

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	75
Sound Power, dBA	86
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	74.3
Locked Rotor Current, A	349
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Unloaded start	Available
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Capacity Control	Capacity Steps 75%
Adapter Kit	For Parallel 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