



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			36.10	46.80	59.80	75.10	92.90			
10.0			34.00	44.40	56.80	71.50	88.50	108.00	130.00	155.00
15.0			31.90	41.80	53.70	67.70	84.00	102.50	123.50	147.50
20.0			29.70	39.20	50.50	63.80	79.30	96.90	117.00	139.50
25.0			27.40	36.50	47.20	59.80	74.50	91.20	110.00	131.50
30.0			25.20	33.70	43.80	55.70	69.50	85.30	103.00	123.50
35.0			22.80	30.90	40.40	51.60	64.50	79.30	96.10	115.00
40.0				28.00	36.90	47.30	59.30	73.10	88.80	106.50
45.0					33.30	42.90	54.10	66.90	81.40	97.80
50.0					29.70	38.60	48.80	60.50	73.90	89.10
55.0						34.10	43.40	54.10	66.30	80.20
60.0						29.70	38.00	47.60	58.60	
62.0							35.80	45.00	55.50	

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			13.40	14.55	15.50	16.30	16.90			
10.0			13.95	15.35	16.60	17.65	18.50	19.05	19.40	19.45
15.0			14.50	16.15	17.65	19.00	20.10	21.00	21.60	22.00
20.0			15.05	16.95	18.75	20.30	21.80	22.90	23.90	24.50
25.0			15.50	17.70	19.75	21.70	23.40	24.90	26.10	27.10
30.0			15.90	18.40	20.70	22.90	25.00	26.80	28.40	29.70
35.0			16.20	19.00	21.60	24.10	26.50	28.60	30.60	32.20
40.0				19.45	22.40	25.20	27.90	30.40	32.70	34.70
45.0					23.00	26.20	29.20	32.10	34.70	37.10
50.0					23.50	27.00	30.40	33.60	36.60	39.40
55.0						27.70	31.40	34.90	38.30	41.50
60.0						28.10	32.20	36.10	39.90	
62.0							32.40	36.50	40.50	

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			33.65	34.82	35.88	36.76	37.37			
10.0			34.16	35.60	36.96	38.17	39.15	39.83	40.13	39.98
15.0			34.71	36.44	38.13	39.69	41.06	42.16	42.92	43.26
20.0			35.28	37.33	39.35	41.30	43.07	44.62	45.84	46.69
25.0			35.82	38.19	40.59	42.93	45.14	47.14	48.86	50.23
30.0			36.28	39.01	41.79	44.55	47.21	49.69	51.93	53.85
35.0			36.62	39.73	42.91	46.11	49.24	52.23	55.01	57.49
40.0				40.30	43.92	47.58	51.20	54.72	58.05	61.12
45.0					44.76	48.90	53.04	57.10	61.01	64.70
50.0					45.39	50.03	54.71	59.34	63.85	68.17
55.0						50.94	56.17	61.39	66.52	71.50
60.0						51.58	57.38	63.21	68.99	
62.0							57.79	63.87	69.91	

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			193.00	251.00	322.00	406.00	505.00			
10.0			189.50	248.00	318.00	402.00	500.00	614.00	745.00	894.00
15.0			185.00	243.00	314.00	397.00	495.00	608.00	738.00	887.00
20.0			180.00	238.00	308.00	391.00	489.00	601.00	731.00	879.00
25.0			174.50	232.00	302.00	385.00	481.00	593.00	722.00	870.00
30.0			168.00	226.00	295.00	377.00	473.00	584.00	713.00	860.00
35.0			161.00	218.00	287.00	368.00	464.00	574.00	702.00	849.00
40.0				210.00	278.00	359.00	453.00	563.00	690.00	837.00
45.0					269.00	349.00	442.00	551.00	678.00	824.00
50.0					259.00	337.00	430.00	538.00	665.00	811.00
55.0						326.00	417.00	525.00	652.00	799.00
60.0						314.00	405.00	513.00	641.00	
62.0							401.00	510.00	638.00	

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
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 (LT), dBA	76
Sound Power (LT), dBA	87
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	78
Sound Power (MT), dBA	89
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	3922
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

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

ACCESSORIES OPTIONAL

Unloaded start	Available
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Capacity Control	Capacity Steps 75%
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
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