



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 20 °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										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	33.60	43.90	56.30	71.20	88.70	109.00	132.50	160.00			
15.0	31.20	41.20	53.10	67.30	84.00	103.50	126.00	151.50	181.00		
20.0	28.70	38.40	49.80	63.30	79.20	97.60	119.00	143.00	171.00	202.00	216.00
25.0	26.20	35.50	46.40	59.30	74.20	91.60	111.50	134.50	160.50	190.00	203.00
30.0	23.50	32.50	42.90	55.10	69.20	85.50	104.50	126.00	150.50	178.00	190.50
35.0	20.80	29.40	39.40	50.80	64.00	79.30	96.90	117.00	140.00	166.00	177.50
40.0		26.30	35.70	46.40	58.80	73.00	89.30	108.00	129.50	153.50	164.50
45.0		23.10	31.90	42.00	53.40	66.60	81.70	99.00	119.00	141.50	151.00
50.0		19.80	28.10	37.40	48.00	60.10	73.90	89.80	108.00	128.50	138.00
55.0			24.20	32.80	42.50	53.50	66.10	80.50	97.10	116.00	
60.0			20.20	28.10	36.90	46.80	58.10	71.10	86.10		
62.0			18.65	26.20	34.60	44.10	54.90	67.30			

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	14.45	15.90	17.15	18.20	18.95	19.35	19.30	18.80			
15.0	15.05	16.75	18.30	19.65	20.70	21.50	21.80	21.70	21.00		
20.0	15.50	17.45	19.30	21.00	22.40	23.50	24.20	24.50	24.20	23.40	22.90
25.0	15.80	18.05	20.20	22.20	23.90	25.40	26.50	27.20	27.40	27.00	26.70
30.0	16.00	18.50	20.90	23.20	25.30	27.20	28.70	29.80	30.40	30.50	30.40
35.0	16.05	18.85	21.60	24.20	26.70	28.90	30.80	32.30	33.30	33.90	34.00
40.0		19.05	22.10	25.10	27.90	30.50	32.80	34.70	36.20	37.30	37.50
45.0		19.15	22.50	25.80	29.00	32.00	34.70	37.00	39.00	40.60	41.00
50.0		19.15	22.80	26.50	30.00	33.40	36.50	39.30	41.80	43.80	44.50
55.0			23.10	27.10	31.00	34.70	38.30	41.50	44.40	47.00	
60.0			23.20	27.60	31.80	36.00	40.00	43.70	47.10		
62.0			23.20	27.70	32.20	36.50	40.60	44.50			

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	48.61	49.53	50.51	51.41	52.12	52.51	52.45	51.83			
15.0	49.05	50.18	51.41	52.61	53.65	54.41	54.77	54.60	53.78		
20.0	49.40	50.77	52.28	53.79	55.20	56.36	57.16	57.47	57.17	56.13	55.48
25.0	49.64	51.28	53.09	54.95	56.74	58.34	59.61	60.43	60.68	60.23	59.83
30.0	49.75	51.68	53.83	56.07	58.28	60.33	62.09	63.45	64.28	64.45	64.31
35.0	49.71	51.97	54.48	57.12	59.77	62.31	64.60	66.52	67.96	68.78	68.90
40.0		52.12	55.02	58.10	61.22	64.27	67.11	69.63	71.70	73.19	73.60
45.0		52.12	55.44	58.97	62.60	66.18	69.61	72.75	75.48	77.67	78.37
50.0		51.94	55.71	59.74	63.89	68.04	72.08	75.87	79.29	82.21	83.21
55.0			55.83	60.37	65.07	69.82	74.49	78.96	83.10	86.78	
60.0			55.77	60.85	66.14	71.51	76.85	82.02	86.90		
62.0			55.69	60.99	66.52	72.16	77.77	83.23			

Cond °C	Suction Mass Flow, g/s											
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	
10.0	187.00	245.00	316.00	400.00	501.00	620.00	760.00	923.00				
15.0	181.00	240.00	310.00	395.00	495.00	613.00	752.00	913.00	1100.00			
20.0	174.00	233.00	304.00	388.00	488.00	605.00	742.00	902.00	1088.00	1304.00	1400.00	
25.0	166.00	226.00	297.00	381.00	480.00	596.00	732.00	891.00	1076.00	1291.00	1386.00	
30.0	157.00	218.00	289.00	373.00	471.00	586.00	721.00	878.00	1062.00	1276.00	1371.00	
35.0	146.50	208.00	280.00	363.00	461.00	575.00	708.00	864.00	1047.00	1261.00	1356.00	
40.0		197.50	269.00	353.00	449.00	562.00	695.00	850.00	1031.00	1245.00	1340.00	
45.0		185.50	258.00	341.00	437.00	549.00	680.00	834.00	1015.00	1229.00	1324.00	
50.0		171.00	244.00	327.00	423.00	534.00	665.00	818.00	999.00	1213.00	1310.00	
55.0			229.00	313.00	408.00	519.00	649.00	803.00	984.00	1200.00		
60.0			212.00	297.00	393.00	504.00	635.00	789.00	973.00			
62.0			205.00	290.00	387.00	499.00	630.00	786.00				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m³/h	151
Bore/Stroke, mm	68.3/59.3
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	330
Gross Weight, kg	351
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 (MT), dBA	79
Sound Power (MT), dBA	90
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	79
Sound Power (HT), dBA	90
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 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	88.2
Locked Rotor Current, A	458
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
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Oil Pressure Switch	OPS2 Electronic Switch

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