



Minimum Evaporating Temp. With:

20 K Suction Superheat

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	12.5	15.0	20.0	25.0
10.0	37.00	46.50	58.10									
15.0	34.90	44.00	55.20	68.60								
20.0	32.80	41.50	52.20	65.00	80.30							
25.0	30.70	39.10	49.30	61.50	76.00	93.00	100.50					
30.0	28.60	36.60	46.30	58.00	71.80	87.90	95.10	107.00	117.00			
35.0	26.60	34.20	43.40	54.40	67.50	82.90	89.70	101.00	110.50	121.50		
40.0	24.60	31.80	40.50	50.90	63.30	77.80	84.30	94.70	104.00	114.50	137.00	162.50
45.0	22.60	29.50	37.60	47.40	59.10	72.70	78.90	88.70	97.70	107.00	128.50	153.00
50.0	20.70	27.10	34.80	44.00	54.80	67.70	73.40	82.70	91.10	100.00	120.50	143.50
55.0	18.75	24.80	31.90	40.50	50.60	62.60	68.00	76.70	84.60	93.10	112.00	133.50
60.0		22.50	29.10	37.00	46.50	57.60	62.60	70.70	78.10	86.00	104.00	124.00
65.0			26.30	33.60	42.30	52.60	57.20	64.70	71.60	79.00	95.50	114.50
70.0			23.60	30.20	38.10	47.60	51.80	58.70	65.10	71.90	87.30	105.00
75.0				26.80	34.00	42.60	46.40	52.80	58.60	64.80	79.00	95.50
80.0				23.50	29.90	37.60	41.10	46.80	52.10	57.80	70.80	86.00

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	8.63	9.25	9.60									
15.0	9.32	10.15	10.80	11.10								
20.0	9.96	11.00	11.85	12.50	12.80							
25.0	10.55	11.75	12.80	13.75	14.35	14.65	14.65					
30.0	11.10	12.40	13.70	14.85	15.80	16.45	16.60	16.70	16.65			
35.0	11.65	13.05	14.50	15.90	17.10	18.10	18.40	18.70	18.90	18.95		
40.0	12.15	13.70	15.25	16.85	18.30	19.55	20.00	20.60	20.90	21.20	21.40	21.00
45.0	12.70	14.30	16.00	17.70	19.40	20.90	21.50	22.30	22.80	23.30	23.90	24.10
50.0	13.30	14.90	16.65	18.55	20.40	22.20	22.90	23.80	24.60	25.20	26.30	26.90
55.0	13.90	15.50	17.35	19.30	21.40	23.40	24.20	25.30	26.20	27.00	28.40	29.50
60.0		16.15	18.00	20.10	22.30	24.50	25.30	26.60	27.70	28.60	30.40	31.90
65.0			18.70	20.80	23.10	25.50	26.50	27.90	29.00	30.20	32.30	34.10
70.0			19.45	21.60	24.00	26.50	27.50	29.00	30.30	31.60	34.00	36.20
75.0				22.40	24.80	27.40	28.50	30.20	31.50	32.90	35.60	38.20
80.0				23.20	25.60	28.30	29.50	31.20	32.70	34.20	37.10	40.00

Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	30.64	31.19	31.46									
15.0	30.90	31.64	32.16	32.39								
20.0	31.23	32.14	32.89	33.42	33.64							
25.0	31.61	32.68	33.66	34.47	35.03	35.28	35.27					
30.0	32.02	33.26	34.45	35.53	36.43	37.07	37.23	37.37	37.37			
35.0	32.47	33.85	35.26	36.60	37.82	38.84	39.18	39.58	39.83	39.97		
40.0	32.94	34.46	36.06	37.67	39.21	40.60	41.10	41.77	42.25	42.65	43.17	43.25
45.0	33.42	35.08	36.87	38.72	40.57	42.32	42.98	43.92	44.64	45.28	46.34	47.01
50.0	33.91	35.69	37.66	39.76	41.90	44.01	44.83	46.02	46.97	47.86	49.44	50.71
55.0	34.40	36.29	38.44	40.76	43.19	45.65	46.63	48.07	49.24	50.37	52.48	54.32
60.0		36.87	39.18	41.73	44.44	47.23	48.36	50.05	51.44	52.80	55.43	57.84
65.0			39.88	42.64	45.62	48.75	50.03	51.96	53.56	55.16	58.29	61.26
70.0			40.54	43.50	46.75	50.20	51.62	53.78	55.60	57.42	61.04	64.58
75.0				44.30	47.80	51.56	53.12	55.51	57.54	59.58	63.69	67.77
80.0				45.02	48.77	52.83	54.53	57.15	59.38	61.64	66.23	70.84

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	204.00	252.00	310.00									
15.0	201.00	248.00	306.00	374.00								
20.0	196.50	244.00	301.00	369.00	447.00							
25.0	192.50	240.00	297.00	363.00	441.00	529.00	568.00					
30.0	188.00	236.00	292.00	358.00	434.00	522.00	561.00	622.00	677.00			
35.0	183.50	231.00	287.00	352.00	428.00	515.00	553.00	614.00	668.00	726.00		
40.0	179.00	226.00	282.00	346.00	421.00	507.00	544.00	605.00	658.00	715.00	840.00	979.00
45.0	174.50	221.00	276.00	340.00	414.00	498.00	536.00	595.00	648.00	705.00	828.00	966.00
50.0	169.50	216.00	270.00	333.00	406.00	490.00	526.00	585.00	638.00	693.00	816.00	952.00
55.0	164.50	211.00	265.00	327.00	398.00	480.00	517.00	575.00	626.00	682.00	802.00	938.00
60.0		205.00	258.00	319.00	390.00	471.00	507.00	564.00	615.00	669.00	789.00	923.00
65.0			252.00	312.00	381.00	461.00	496.00	552.00	603.00	657.00	775.00	908.00
70.0			246.00	305.00	373.00	451.00	485.00	541.00	591.00	644.00	761.00	893.00
75.0				298.00	364.00	441.00	475.00	529.00	579.00	631.00	747.00	879.00
80.0				291.00	356.00	431.00	465.00	519.00	567.00	619.00	734.00	866.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /h	127
Bore/Stroke, mm	74.6/55.6
Length/Width, mm	760/580
Height, mm	545
Net Weight, kg	261
Gross Weight, kg	277
Rotalock Discharge, inch	1 3/8
Suction, inch	2 1/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	6.8
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)
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	83
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**

Capacity Control	Capacity Steps 66/33%
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Crankcase Heater	200 W Internal
Check Valve	For unloaded start operation
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available

**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	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00