



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												
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	26.70	36.10	47.30	60.80	76.80	95.60	117.50						
15.0	24.60	33.60	44.40	57.30	72.50	90.40	111.00	135.50					
20.0	22.50	31.10	41.40	53.70	68.20	85.20	105.00	128.00	154.50	184.50			
25.0		28.60	38.40	50.10	63.80	80.00	98.80	120.50	145.50	174.50	187.00	207.00	225.00
30.0		26.00	35.40	46.50	59.50	74.80	92.70	113.50	137.00	164.50	176.50	195.50	213.00
35.0			32.30	42.80	55.20	69.70	86.50	106.00	128.50	154.50	166.00	184.00	200.00
40.0				39.20	50.90	64.50	80.50	99.00	120.50	145.00	155.50	173.00	188.50
45.0				35.70	46.60	59.50	74.50	91.90	112.00	135.00	145.50	162.00	176.50
50.0					42.40	54.50	68.50	84.90	104.00	125.50	135.50	150.50	164.50
55.0					38.20	49.50	62.60	78.00	95.70	116.50	125.50		
60.0						44.60	56.80	71.10	87.70				
62.0						42.70	54.60	68.40	84.60				

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	12.5
10.0	12.30	13.60	14.80	15.75	16.40	16.75	16.60						
15.0	12.70	14.30	15.75	17.00	18.00	18.70	19.00	18.80					
20.0	13.00	14.80	16.55	18.15	19.50	20.60	21.20	21.50	21.20	20.40			
25.0		15.25	17.25	19.20	20.90	22.30	23.40	24.10	24.30	23.90	23.60	23.00	22.20
30.0		15.55	17.90	20.10	22.10	24.00	25.50	26.60	27.20	27.40	27.30	26.90	26.50
35.0			18.35	20.90	23.30	25.50	27.40	29.00	30.10	30.80	30.90	30.80	30.60
40.0				21.60	24.40	26.90	29.30	31.30	32.90	34.00	34.30	34.60	34.70
45.0				22.20	25.30	28.30	31.00	33.40	35.50	37.20	37.70	38.30	38.70
50.0					26.10	29.50	32.60	35.50	38.10	40.20	41.00	41.90	42.50
55.0					26.90	30.60	34.20	37.50	40.50	43.20	44.10		
60.0						31.60	35.60	39.40	42.90				
62.0						32.00	36.20	40.10	43.80				

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	12.5
10.0	47.07	47.83	48.67	49.46	50.07	50.37	50.25						
15.0	47.40	48.30	49.33	50.36	51.27	51.92	52.19	51.95					
20.0	47.66	48.73	49.97	51.27	52.50	53.53	54.22	54.46	54.12	53.06			
25.0		49.08	50.57	52.17	53.74	55.17	56.32	57.07	57.28	56.84	56.44	55.60	54.65
30.0		49.35	51.11	53.02	54.98	56.83	58.46	59.74	60.54	60.73	60.61	60.19	59.60
35.0			51.55	53.82	56.18	58.49	60.63	62.47	63.88	64.74	64.89	64.91	64.70
40.0				54.54	57.32	60.12	62.79	65.22	67.27	68.82	69.26	69.73	69.91
45.0				55.15	58.39	61.69	64.93	67.97	70.69	72.95	73.70	74.64	75.23
50.0					59.36	63.19	67.02	70.70	74.11	77.12	78.19	79.61	80.61
55.0					60.20	64.60	69.04	73.39	77.52	81.31	82.70		
60.0						65.89	70.97	76.02	80.90				
62.0						66.37	71.71	77.04	82.23				

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	12.5
10.0	123.00	166.50	219.00	282.00	358.00	448.00	553.00						
15.0	117.50	160.50	213.00	275.00	350.00	439.00	543.00	665.00					
20.0	111.00	154.00	206.00	268.00	342.00	429.00	532.00	653.00	794.00	959.00			
25.0		147.00	198.50	260.00	333.00	419.00	521.00	641.00	781.00	944.00	1017.00	1135.00	1242.00
30.0		139.50	190.50	251.00	323.00	409.00	509.00	628.00	767.00	930.00	1003.00	1120.00	1227.00
35.0			182.00	242.00	313.00	398.00	498.00	615.00	754.00	916.00	989.00	1106.00	1213.00
40.0				233.00	303.00	387.00	486.00	603.00	740.00	902.00	975.00	1093.00	1200.00
45.0				223.00	293.00	375.00	474.00	590.00	727.00	889.00	962.00	1080.00	1188.00
50.0					282.00	364.00	462.00	577.00	715.00	877.00	950.00	1069.00	1178.00
55.0					270.00	352.00	450.00	566.00	703.00	866.00	940.00		
60.0						341.00	439.00	555.00	693.00				
62.0						337.00	434.00	551.00	690.00				

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
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	79
Sound Power, dBA	90
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	88.2
Locked Rotor Current, A	458
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 75/50%
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

<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