



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 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	12.5
10.0	2.33	3.22	4.37	5.82	7.60	9.76	12.35						
15.0	2.10	2.94	4.02	5.39	7.08	9.12	11.55	14.45					
20.0	1.88	2.66	3.68	4.96	6.55	8.49	10.80	13.55	16.70				
25.0	1.66	2.39	3.34	4.54	6.03	7.85	10.05	12.60	15.65	19.15	20.70	23.10	
30.0	1.46	2.14	3.01	4.13	5.52	7.23	9.28	11.75	14.60	17.90	19.35	21.70	23.80
35.0		1.88	2.70	3.73	5.02	6.62	8.54	10.85	13.55	16.70	18.05	20.30	22.30
40.0		1.65	2.39	3.34	4.53	6.01	7.81	9.96	12.50	15.45	16.80	18.90	20.80
45.0			2.10	2.96	4.06	5.42	7.08	9.09	11.45	14.25	15.50	17.50	19.30
50.0				2.60	3.59	4.84	6.37	8.23	10.45	13.05	14.25	16.10	17.80
55.0				2.25	3.14	4.27	5.67	7.39	9.44	11.90	12.95	14.75	16.35
60.0					2.71	3.72	4.99	6.56	8.45	10.70	11.75		
62.0					2.54	3.51	4.73	6.23	8.06	10.25	11.25		

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	1.20	1.36	1.48	1.60	1.66	1.68	1.62						
15.0	1.20	1.38	1.54	1.70	1.82	1.90	1.92	1.86					
20.0	1.20	1.40	1.60	1.78	1.96	2.09	2.17	2.19	2.12				
25.0	1.19	1.40	1.63	1.86	2.07	2.25	2.39	2.48	2.50	2.43	2.38	2.27	
30.0	1.18	1.40	1.65	1.90	2.16	2.39	2.59	2.74	2.83	2.84	2.83	2.77	2.70
35.0		1.40	1.66	1.94	2.23	2.50	2.75	2.96	3.12	3.22	3.23	3.23	3.20
40.0		1.38	1.66	1.96	2.28	2.59	2.89	3.16	3.38	3.55	3.60	3.64	3.66
45.0			1.65	1.97	2.31	2.66	3.00	3.32	3.60	3.84	3.92	4.01	4.07
50.0				1.96	2.32	2.70	3.08	3.45	3.79	4.09	4.19	4.33	4.43
55.0				1.94	2.32	2.72	3.14	3.55	3.94	4.30	4.43	4.61	4.75
60.0					2.30	2.72	3.17	3.61	4.05	4.47	4.62		
62.0					2.29	2.72	3.17	3.63	4.09	4.53	4.69		

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	4.76	4.87	4.99	5.09	5.15	5.17	5.11						
15.0	4.75	4.88	5.02	5.16	5.27	5.35	5.36	5.30					
20.0	4.75	4.89	5.05	5.22	5.38	5.51	5.60	5.62	5.55				
25.0	4.76	4.90	5.08	5.28	5.48	5.66	5.81	5.91	5.94	5.87	5.81	5.70	
30.0	4.76	4.90	5.10	5.33	5.57	5.80	6.01	6.18	6.29	6.33	6.31	6.26	6.19
35.0		4.91	5.11	5.36	5.64	5.92	6.19	6.43	6.63	6.75	6.78	6.80	6.78
40.0		4.90	5.12	5.39	5.70	6.02	6.35	6.66	6.93	7.15	7.22	7.29	7.33
45.0			5.11	5.40	5.73	6.10	6.48	6.85	7.20	7.51	7.61	7.75	7.85
50.0				5.39	5.75	6.16	6.59	7.02	7.44	7.83	7.97	8.17	8.32
55.0				5.37	5.75	6.19	6.66	7.15	7.64	8.12	8.30	8.55	8.75
60.0					5.73	6.19	6.71	7.26	7.81	8.36	8.58		
62.0					5.71	6.19	6.72	7.29	7.87	8.45	8.68		

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	10.85	15.00	20.40	27.30	35.80	46.20	58.60						
15.0	10.15	14.20	19.45	26.20	34.50	44.70	57.00	71.60					
20.0	9.40	13.35	18.45	25.00	33.20	43.10	55.20	69.60	86.70				
25.0	8.65	12.45	17.45	23.80	31.70	41.50	53.40	67.60	84.50	104.50	113.50	128.00	
30.0	7.90	11.60	16.40	22.60	30.30	39.90	51.50	65.50	82.20	102.00	111.00	125.00	138.50
35.0		10.70	15.35	21.30	28.80	38.10	49.50	63.30	79.80	99.50	108.50	122.50	136.00
40.0		9.81	14.25	20.00	27.20	36.30	47.50	61.10	77.40	96.90	105.50	120.00	133.00
45.0			13.15	18.65	25.70	34.50	45.40	58.70	74.90	94.20	103.00	117.50	130.50
50.0				17.30	24.00	32.60	43.20	56.30	72.30	91.50	100.50	114.50	128.00
55.0				15.95	22.40	30.60	41.00	53.80	69.60	88.80	97.60	112.00	125.50
60.0					20.70	28.60	38.70	51.30	67.00	86.10	94.90		
62.0					20.00	27.80	37.70	50.30	65.90	85.10	93.90		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m³/h	16.8
Bore/Stroke, mm	63.6/30.5
Length/Width, mm	590/330
Height, mm	470
Net Weight, kg	132
Gross Weight, kg	141
Rotalock Discharge, inch	7/8
Suction, inch	1 3/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	2.3
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	295 x 279 (14)
Sound Pressure @ 1m, dBA	65
Sound Power, dBA	76
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	2107
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	9
Locked Rotor Current, A	55
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Unloaded start	Available
Deep Oil Sump	Mounted
Crankcase Heater	70 W Internal
Check Valve	For unloaded start operation
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Oil Pressure Switch	OPS2 Electronic Switch
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	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
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
AWR	220-240 V / 3~ / 50 Hz	230	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	Y	0.76
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	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
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00