



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			12.10	15.75	20.20	25.50	31.60			
10.0			11.45	14.90	19.10	24.10	29.90	36.70	44.40	53.10
15.0			10.75	14.05	18.00	22.70	28.20	34.60	41.90	50.20
20.0			10.05	13.15	16.90	21.30	26.50	32.50	39.40	47.20
25.0			9.36	12.30	15.80	19.95	24.80	30.50	36.90	44.30
30.0			8.64	11.40	14.70	18.60	23.10	28.40	34.50	41.40
35.0			7.91	10.50	13.60	17.20	21.40	26.40	32.00	38.50
40.0				9.59	12.45	15.80	19.75	24.30	29.50	35.50
45.0					11.30	14.40	18.05	22.20	27.10	32.60
50.0					10.15	13.00	16.30	20.20	24.60	29.70
55.0						11.55	14.60	18.10	22.10	26.80
60.0						10.15	12.85	16.00	19.65	
62.0							12.15	15.15	18.65	

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			4.43	4.84	5.19	5.45	5.59			
10.0			4.64	5.13	5.58	5.94	6.20	6.31	6.25	5.98
15.0			4.85	5.42	5.96	6.43	6.80	7.04	7.11	6.99
20.0			5.04	5.69	6.32	6.89	7.38	7.74	7.96	7.99
25.0			5.22	5.95	6.66	7.34	7.94	8.43	8.78	8.96
30.0			5.36	6.17	6.98	7.76	8.47	9.09	9.58	9.91
35.0			5.48	6.37	7.26	8.14	8.97	9.71	10.35	10.80
40.0				6.53	7.51	8.49	9.43	10.30	11.05	11.70
45.0					7.72	8.79	9.84	10.85	11.70	12.50
50.0					7.87	9.05	10.20	11.30	12.35	13.25
55.0						9.25	10.50	11.75	12.90	13.95
60.0						9.39	10.75	12.10	13.40	
62.0							10.85	12.25	13.60	

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			9.71	10.23	10.67	10.99	11.15			
10.0			9.96	10.58	11.14	11.61	11.93	12.06	11.95	11.55
15.0			10.21	10.93	11.61	12.22	12.70	13.02	13.11	12.94
20.0			10.45	11.27	12.08	12.83	13.48	13.97	14.27	14.33
25.0			10.67	11.59	12.52	13.42	14.23	14.92	15.42	15.70
30.0			10.85	11.88	12.94	13.98	14.96	15.83	16.55	17.06
35.0			11.00	12.14	13.32	14.51	15.66	16.72	17.64	18.39
40.0				12.35	13.66	15.00	16.32	17.57	18.70	19.67
45.0					13.95	15.44	16.92	18.36	19.71	20.91
50.0					14.17	15.81	17.47	19.10	20.66	22.10
55.0						16.11	17.94	19.77	21.54	23.22
60.0						16.34	18.34	20.36	22.35	
62.0							18.48	20.58	22.65	

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			64.90	84.60	109.00	137.50	172.00			
10.0			63.60	83.20	107.00	135.50	169.00	208.00	254.00	307.00
15.0			62.40	81.70	105.00	133.00	166.50	205.00	250.00	302.00
20.0			61.00	80.00	103.00	131.00	163.50	202.00	246.00	298.00
25.0			59.40	78.30	101.00	128.50	160.50	198.00	242.00	293.00
30.0			57.70	76.40	98.90	125.50	157.50	194.50	238.00	289.00
35.0			55.80	74.30	96.50	123.00	154.00	191.00	234.00	284.00
40.0				72.00	94.00	120.00	151.00	187.00	230.00	279.00
45.0					91.20	117.00	147.50	183.50	225.00	275.00
50.0					88.20	113.50	144.00	179.50	221.00	271.00
55.0						110.50	140.00	175.50	218.00	267.00
60.0						107.00	137.00	172.50	215.00	
62.0							136.00	171.50	214.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, m ³ /h	49.9
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	162
Gross Weight, kg	173
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
Oil Quantity, l	3.7
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 (LT), dBA	72
Sound Power (LT), dBA	83
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
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	24.4
Locked Rotor Current, A	121
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Capacity Control	Moduload
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Crankcase Heater	70 W Internal
Check Valve	For unloaded start operation
Oil Pressure Switch	OPS2 Electronic Switch
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Unloaded start	Available
Deep Oil Sump	Mounted

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
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
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
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	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00