



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	11.65	15.10	19.25	24.20	30.00	36.70	44.60	53.50			
15.0	10.85	14.20	18.20	22.90	28.50	34.90	42.40	50.90	60.60		
20.0	10.00	13.25	17.05	21.60	26.90	33.00	40.10	48.20	57.40	67.90	72.40
25.0	9.12	12.25	15.90	20.20	25.20	31.00	37.70	45.40	54.10	64.00	68.30
30.0	8.21	11.20	14.70	18.75	23.50	29.00	35.30	42.50	50.70	60.10	64.10
35.0	7.27	10.15	13.45	17.30	21.70	26.80	32.70	39.50	47.20	56.00	59.80
40.0		9.06	12.20	15.75	19.90	24.70	30.20	36.50	43.70	51.90	55.50
45.0		7.95	10.85	14.20	18.05	22.40	27.50	33.40	40.00	47.70	51.00
50.0		6.84	9.55	12.60	16.15	20.20	24.80	30.20	36.30	43.40	46.40
55.0			8.22	11.00	14.20	17.85	22.10	27.00	32.60	39.00	41.80
60.0			6.88	9.40	12.25	15.55	19.30	23.70	28.70		
62.0			6.34	8.75	11.45	14.60	18.20	22.40	27.20		

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	4.66	5.15	5.58	5.92	6.13	6.17	6.00	5.61			
15.0	4.85	5.43	5.96	6.41	6.73	6.90	6.88	6.63	6.11		
20.0	5.01	5.69	6.32	6.88	7.33	7.64	7.75	7.65	7.30	6.65	6.30
25.0	5.13	5.91	6.66	7.34	7.92	8.35	8.62	8.67	8.48	8.01	7.73
30.0	5.21	6.09	6.95	7.76	8.47	9.04	9.46	9.67	9.65	9.35	9.15
35.0	5.23	6.22	7.20	8.13	8.97	9.70	10.25	10.65	10.80	10.65	10.55
40.0		6.28	7.38	8.44	9.43	10.30	11.05	11.55	11.90	11.95	11.90
45.0		6.27	7.50	8.69	9.82	10.85	11.75	12.45	12.95	13.20	13.25
50.0		6.17	7.52	8.86	10.15	11.30	12.35	13.25	13.95	14.40	14.50
55.0			7.46	8.93	10.35	11.70	12.90	14.00	14.85	15.50	15.70
60.0			7.28	8.91	10.50	12.00	13.40	14.65	15.70		
62.0			7.18	8.86	10.50	12.10	13.55	14.85	16.00		

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	11.88	12.31	12.74	13.11	13.36	13.42	13.25	12.77			
15.0	12.05	12.58	13.13	13.62	14.01	14.23	14.22	13.92	13.28		
20.0	12.20	12.85	13.53	14.16	14.70	15.09	15.26	15.15	14.70	13.86	13.40
25.0	12.33	13.10	13.92	14.71	15.41	15.97	16.33	16.42	16.18	15.57	15.20
30.0	12.40	13.31	14.28	15.23	16.11	16.86	17.41	17.71	17.71	17.33	17.06
35.0	12.39	13.46	14.58	15.71	16.78	17.72	18.49	19.01	19.24	19.11	18.94
40.0		13.52	14.82	16.13	17.39	18.55	19.53	20.29	20.77	20.89	20.83
45.0		13.46	14.95	16.46	17.93	19.30	20.53	21.53	22.26	22.66	22.71
50.0		13.28	14.96	16.68	18.37	19.98	21.44	22.70	23.70	24.38	24.55
55.0			14.83	16.76	18.69	20.54	22.26	23.79	25.07	26.04	26.33
60.0			14.53	16.70	18.86	20.97	22.96	24.77	26.34		
62.0			14.36	16.62	18.89	21.10	23.20	25.12	26.81		

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	65.00	84.30	108.00	136.00	169.50	209.00	255.00	309.00			
15.0	63.00	82.60	106.00	134.50	167.50	207.00	253.00	307.00	369.00		
20.0	60.70	80.50	104.00	132.50	165.50	205.00	250.00	304.00	366.00	438.00	470.00
25.0	57.90	78.00	102.00	130.00	163.00	202.00	247.00	300.00	362.00	434.00	466.00
30.0	54.80	75.10	98.90	127.00	160.00	198.50	244.00	296.00	358.00	430.00	462.00
35.0	51.30	71.80	95.70	123.50	156.00	194.50	239.00	292.00	353.00	425.00	457.00
40.0		68.10	91.90	119.50	152.00	190.00	235.00	287.00	348.00	420.00	452.00
45.0		63.80	87.70	115.50	147.50	185.00	229.00	281.00	342.00	414.00	447.00
50.0		59.10	83.00	110.50	142.00	179.50	223.00	275.00	336.00	409.00	441.00
55.0			77.80	105.00	136.50	173.50	217.00	269.00	330.00	403.00	437.00
60.0			72.10	99.40	130.50	167.50	211.00	263.00	325.00		
62.0			69.80	97.00	128.50	165.00	209.00	261.00	324.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, m³/h	49.9
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	710/370
Height, mm	490
Net Weight, kg	166
Gross Weight, kg	178
Rotalock Discharge, inch	1 1/8
Suction, inch	1 5/8
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 (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
Sound Pressure @ 1m (HT), dBA	71
Sound Power (HT), dBA	82
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	29
Locked Rotor Current, A	123
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

ACCESSORIES OPTIONAL

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

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
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