



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
20.0	13.10	16.40	20.50	25.40								
25.0	12.30	15.60	19.55	24.30	30.00							
30.0	11.50	14.70	18.55	23.10	28.60	35.00	37.80	42.40				
35.0	10.65	13.75	17.45	21.90	27.10	33.30	36.00	40.40	44.30	48.60		
40.0	9.72	12.75	16.30	20.60	25.60	31.50	34.10	38.30	42.10	46.10	55.10	65.30
45.0	8.77	11.70	15.15	19.20	24.00	29.60	32.10	36.10	39.70	43.60	52.20	61.90
50.0	7.81	10.60	13.90	17.75	22.30	27.60	30.00	33.80	37.30	41.00	49.10	58.40
55.0	6.83	9.51	12.65	16.30	20.60	25.60	27.90	31.50	34.70	38.20	46.00	54.90
60.0		8.39	11.35	14.80	18.85	23.60	25.70	29.10	32.10	35.40	42.80	51.20
65.0			10.05	13.25	17.05	21.40	23.40	26.60	29.50	32.60	39.50	47.40
70.0			8.71	11.70	15.20	19.30	21.10	24.10	26.80	29.70	36.10	43.50
75.0				10.15	13.35	17.10	18.80	21.50	24.00	26.70	32.70	39.60
80.0				8.56	11.50	14.90	16.45	18.95	21.20	23.70	29.20	35.60

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
20.0	4.68	5.01	5.23	5.33								
25.0	4.74	5.13	5.44	5.63	5.69							
30.0	4.82	5.28	5.67	5.96	6.12	6.14	6.10	5.98				
35.0	4.91	5.44	5.91	6.29	6.57	6.71	6.72	6.69	6.61	6.48		
40.0	4.99	5.60	6.15	6.63	7.02	7.28	7.34	7.39	7.39	7.34	7.08	6.61
45.0	5.08	5.75	6.39	6.96	7.46	7.84	7.96	8.10	8.16	8.19	8.10	7.80
50.0	5.14	5.88	6.61	7.28	7.89	8.39	8.56	8.78	8.92	9.02	9.10	8.97
55.0	5.18	6.00	6.80	7.57	8.29	8.92	9.14	9.44	9.66	9.84	10.05	10.10
60.0		6.07	6.96	7.83	8.66	9.41	9.69	10.05	10.35	10.60	11.00	11.25
65.0			7.08	8.05	8.98	9.86	10.20	10.65	11.00	11.35	11.90	12.30
70.0			7.14	8.21	9.26	10.25	10.65	11.20	11.65	12.05	12.75	13.35
75.0				8.31	9.47	10.60	11.05	11.65	12.20	12.65	13.55	14.30
80.0				8.34	9.61	10.85	11.35	12.10	12.65	13.25	14.30	15.20

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
20.0	11.94	12.25	12.46	12.52								
25.0	11.98	12.39	12.72	12.93	12.96							
30.0	12.05	12.55	13.01	13.36	13.56	13.55	13.48	13.29				
35.0	12.12	12.73	13.30	13.80	14.16	14.35	14.36	14.30	14.17	13.96		
40.0	12.20	12.90	13.60	14.24	14.77	15.14	15.23	15.30	15.28	15.20	14.79	14.02
45.0	12.27	13.07	13.89	14.67	15.36	15.92	16.09	16.29	16.39	16.42	16.27	15.77
50.0	12.31	13.22	14.15	15.08	15.94	16.68	16.93	17.26	17.47	17.62	17.72	17.50
55.0	12.33	13.33	14.39	15.45	16.48	17.41	17.74	18.20	18.52	18.79	19.14	19.20
60.0		13.40	14.58	15.79	16.98	18.09	18.51	19.09	19.53	19.92	20.52	20.86
65.0			14.72	16.07	17.42	18.73	19.22	19.93	20.48	20.99	21.85	22.46
70.0			14.80	16.29	17.81	19.30	19.87	20.71	21.37	22.00	23.11	23.99
75.0				16.44	18.12	19.79	20.45	21.41	22.19	22.93	24.30	25.45
80.0				16.50	18.34	20.20	20.94	22.03	22.92	23.78	25.40	26.83

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
20.0	78.50	96.60	118.00	144.00								
25.0	77.20	95.70	117.50	143.50	173.50							
30.0	75.50	94.40	116.50	143.00	173.00	208.00	223.00	247.00				
35.0	73.40	92.70	115.50	141.50	172.00	207.00	222.00	246.00	268.00	290.00		
40.0	70.70	90.50	113.50	140.00	170.00	205.00	220.00	244.00	266.00	289.00	339.00	394.00
45.0	67.60	87.80	111.00	137.50	168.00	203.00	218.00	242.00	264.00	286.00	336.00	392.00
50.0	64.00	84.60	108.00	135.00	165.00	200.00	215.00	239.00	261.00	284.00	333.00	389.00
55.0	59.80	80.90	104.50	131.50	162.00	196.50	212.00	236.00	257.00	280.00	330.00	385.00
60.0		76.70	100.50	127.50	158.00	192.50	208.00	232.00	253.00	276.00	325.00	380.00
65.0			96.00	123.00	153.50	188.00	203.00	227.00	248.00	271.00	320.00	376.00
70.0			90.80	118.00	148.50	183.00	198.00	222.00	243.00	266.00	315.00	370.00
75.0				112.50	143.00	177.50	192.00	216.00	237.00	260.00	309.00	364.00
80.0				106.00	136.50	171.00	186.00	210.00	231.00	254.00	303.00	359.00

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	710/370
Height, mm	490
Net Weight, kg	166
Gross Weight, kg	178
Rotalock Discharge, inch	1 1/8
Suction, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
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, dBA	72
Sound Power, dBA	83
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	29
Locked Rotor Current, A	128
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
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 Pressure Switch	OPS2 Electronic Switch
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	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