



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	7.69	10.20	13.25	16.80								
25.0	7.05	9.45	12.30	15.70	19.65							
30.0	6.41	8.68	11.40	14.60	18.40	22.80	24.80	27.90				
35.0	5.76	7.92	10.50	13.55	17.15	21.30	23.20	26.20	28.90	31.80		
40.0	5.12	7.17	9.60	12.50	15.90	19.90	21.70	24.50	27.10	29.90	36.00	42.90
45.0	4.47	6.43	8.74	11.45	14.70	18.45	20.10	22.90	25.30	28.00	33.80	40.40
50.0	3.82	5.71	7.89	10.45	13.50	17.05	18.65	21.20	23.60	26.10	31.60	38.00
55.0	3.19	5.00	7.07	9.49	12.35	15.70	17.20	19.60	21.80	24.20	29.50	35.50
60.0		4.31	6.27	8.54	11.20	14.35	15.75	18.00	20.10	22.30	27.30	33.00
65.0			5.51	7.63	10.10	13.00	14.30	16.45	18.35	20.40	25.10	30.50
70.0			4.77	6.76	9.05	11.75	12.95	14.90	16.65	18.60	22.90	28.00
75.0				5.92	8.03	10.50	11.60	13.35	15.00	16.75	20.70	25.40
80.0				5.12	7.05	9.27	10.25	11.85	13.35	14.95	18.55	22.80

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	3.17	3.28	3.33	3.31								
25.0	3.14	3.32	3.45	3.52	3.51							
30.0	3.11	3.36	3.57	3.72	3.79	3.78	3.74	3.66				
35.0	3.10	3.41	3.68	3.91	4.06	4.14	4.15	4.12	4.08	4.00		
40.0	3.08	3.45	3.79	4.09	4.32	4.49	4.53	4.57	4.57	4.54	4.41	4.15
45.0	3.08	3.49	3.89	4.25	4.57	4.82	4.90	4.99	5.04	5.07	5.03	4.89
50.0	3.08	3.53	3.98	4.41	4.80	5.14	5.25	5.39	5.49	5.57	5.64	5.60
55.0	3.08	3.57	4.07	4.56	5.02	5.43	5.58	5.78	5.92	6.05	6.22	6.29
60.0		3.61	4.15	4.70	5.22	5.71	5.89	6.14	6.33	6.50	6.78	6.96
65.0			4.22	4.82	5.40	5.96	6.18	6.48	6.71	6.93	7.31	7.59
70.0			4.29	4.92	5.57	6.20	6.44	6.79	7.07	7.33	7.81	8.20
75.0				5.02	5.71	6.40	6.68	7.07	7.39	7.70	8.28	8.78
80.0				5.09	5.83	6.59	6.89	7.33	7.69	8.04	8.71	9.32

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	8.02	8.09	8.12	8.08								
25.0	7.99	8.15	8.27	8.33	8.30							
30.0	7.97	8.20	8.41	8.57	8.65	8.62	8.58	8.47				
35.0	7.95	8.25	8.55	8.80	8.99	9.08	9.09	9.05	8.99	8.88		
40.0	7.93	8.30	8.68	9.02	9.32	9.52	9.58	9.62	9.62	9.59	9.39	9.01
45.0	7.92	8.35	8.80	9.23	9.63	9.95	10.05	10.17	10.24	10.27	10.22	10.00
50.0	7.92	8.39	8.91	9.43	9.92	10.36	10.51	10.71	10.84	10.95	11.05	10.98
55.0	7.92	8.44	9.02	9.62	10.20	10.75	10.95	11.22	11.42	11.60	11.85	11.95
60.0		8.48	9.11	9.78	10.46	11.12	11.37	11.72	11.99	12.23	12.64	12.90
65.0			9.20	9.94	10.71	11.47	11.76	12.19	12.53	12.84	13.40	13.84
70.0			9.27	10.08	10.93	11.79	12.14	12.64	13.04	13.43	14.15	14.76
75.0				10.20	11.13	12.10	12.48	13.06	13.53	14.00	14.87	15.66
80.0				10.30	11.31	12.37	12.81	13.46	14.00	14.53	15.57	16.55

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	46.10	60.10	76.30	95.10								
25.0	44.20	58.00	74.10	92.60	114.00							
30.0	42.10	55.80	71.70	90.10	111.00	135.50	146.00	162.50				
35.0	39.80	53.50	69.20	87.50	108.50	132.50	143.00	159.50	174.50	190.50		
40.0	37.20	51.00	66.70	84.80	105.50	129.50	140.00	156.50	171.50	187.00	221.00	259.00
45.0	34.40	48.30	64.10	82.10	103.00	126.50	137.00	153.50	168.00	184.00	218.00	256.00
50.0	31.30	45.50	61.30	79.30	99.90	123.50	133.50	150.00	165.00	180.50	215.00	252.00
55.0	27.90	42.50	58.50	76.50	96.90	120.50	130.50	147.00	161.50	177.00	211.00	249.00
60.0		39.40	55.70	73.70	94.00	117.00	127.50	143.50	158.00	173.50	207.00	245.00
65.0			52.70	70.90	91.20	114.00	124.00	140.50	154.50	170.00	204.00	242.00
70.0			49.80	68.20	88.50	111.00	121.00	137.00	151.50	166.50	200.00	238.00
75.0				65.70	86.00	108.50	118.50	134.00	148.00	163.00	196.00	234.00
80.0				63.50	83.90	106.50	116.00	131.50	145.50	160.00	192.50	230.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, m ³ /h	32.2
Bore/Stroke, mm	55.6/50.8
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	152
Gross Weight, kg	163
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
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	70
Sound Power, dBA	81
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	17.5
Locked Rotor Current, A	106
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Oil Control System	ALCO Trax-Oil OM3
Capacity Control	Moduload
Crankcase Heater	70 W Internal
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
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

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