



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	4.72	6.15	7.92	10.05								
25.0	4.32	5.70	7.40	9.44	11.85							
30.0	3.91	5.25	6.88	8.83	11.15	13.85	15.05	16.95				
35.0	3.49	4.79	6.34	8.21	10.40	13.00	14.10	15.95	17.60	19.35		
40.0	3.08	4.32	5.81	7.58	9.66	12.10	13.20	14.95	16.50	18.20	21.90	26.00
45.0	2.67	3.86	5.27	6.95	8.92	11.25	12.25	13.90	15.40	17.00	20.50	24.50
50.0	2.27	3.40	4.74	6.31	8.17	10.35	11.30	12.85	14.30	15.80	19.15	22.90
55.0	1.88	2.95	4.21	5.68	7.42	9.46	10.35	11.85	13.15	14.60	17.75	21.30
60.0		2.51	3.68	5.06	6.68	8.58	9.43	10.80	12.05	13.40	16.35	19.75
65.0			3.18	4.45	5.94	7.70	8.49	9.76	10.90	12.15	14.95	18.20
70.0			2.69	3.85	5.21	6.83	7.55	8.73	9.81	10.95	13.60	16.60
75.0				3.26	4.50	5.97	6.63	7.71	8.70	9.77	12.20	15.05
80.0				2.70	3.80	5.12	5.72	6.70	7.60	8.58	10.80	13.45

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	1.65	1.74	1.80	1.78								
25.0	1.73	1.86	1.95	2.00	1.97							
30.0	1.79	1.96	2.09	2.18	2.21	2.17	2.14	2.06				
35.0	1.84	2.03	2.20	2.34	2.42	2.45	2.44	2.40	2.34	2.27		
40.0	1.87	2.09	2.30	2.48	2.61	2.69	2.70	2.70	2.68	2.64	2.49	2.24
45.0	1.89	2.14	2.38	2.59	2.77	2.91	2.94	2.98	2.99	2.98	2.91	2.74
50.0	1.90	2.18	2.44	2.69	2.92	3.10	3.16	3.23	3.27	3.29	3.29	3.20
55.0	1.90	2.20	2.49	2.78	3.04	3.27	3.35	3.45	3.52	3.58	3.64	3.62
60.0		2.21	2.53	2.85	3.14	3.42	3.51	3.65	3.75	3.83	3.96	4.01
65.0			2.56	2.90	3.23	3.55	3.66	3.83	3.95	4.07	4.25	4.37
70.0			2.58	2.94	3.31	3.66	3.79	3.98	4.13	4.27	4.52	4.70
75.0				2.98	3.37	3.75	3.90	4.12	4.30	4.46	4.76	5.00
80.0				3.00	3.42	3.84	4.00	4.24	4.44	4.63	4.98	5.28

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	5.14	5.20	5.22	5.18								
25.0	5.17	5.27	5.37	5.40	5.35							
30.0	5.21	5.35	5.51	5.63	5.67	5.60	5.53	5.36				
35.0	5.24	5.43	5.65	5.85	5.99	6.03	6.01	5.93	5.82	5.65		
40.0	5.28	5.51	5.78	6.06	6.30	6.46	6.49	6.49	6.45	6.36	6.01	5.42
45.0	5.30	5.57	5.91	6.26	6.60	6.87	6.95	7.03	7.06	7.05	6.87	6.47
50.0	5.32	5.63	6.02	6.45	6.88	7.26	7.39	7.55	7.65	7.71	7.71	7.48
55.0	5.32	5.67	6.11	6.61	7.13	7.62	7.80	8.05	8.22	8.36	8.51	8.47
60.0		5.68	6.18	6.76	7.37	7.97	8.19	8.51	8.76	8.97	9.29	9.43
65.0			6.23	6.87	7.57	8.28	8.55	8.95	9.26	9.55	10.03	10.35
70.0			6.25	6.96	7.74	8.55	8.88	9.35	9.73	10.09	10.73	11.23
75.0				7.01	7.88	8.79	9.16	9.71	10.16	10.59	11.39	12.07
80.0				7.02	7.97	8.99	9.41	10.03	10.54	11.05	12.00	12.85

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	28.30	36.20	45.70	56.90								
25.0	27.10	35.00	44.60	55.80	68.80							
30.0	25.70	33.70	43.30	54.50	67.40	82.20	88.60	98.90				
35.0	24.10	32.30	41.90	53.10	65.90	80.60	87.00	97.20	106.00	116.00		
40.0	22.40	30.70	40.30	51.50	64.30	78.80	85.20	95.30	104.50	114.00	134.50	157.00
45.0	20.60	29.00	38.70	49.80	62.40	76.90	83.20	93.30	102.00	111.50	132.00	155.00
50.0	18.60	27.10	36.80	47.90	60.50	74.80	81.10	91.00	99.90	109.50	129.50	152.50
55.0	16.50	25.10	34.80	45.80	58.40	72.60	78.80	88.70	97.50	107.00	127.00	150.00
60.0		23.00	32.70	43.70	56.10	70.10	76.30	86.10	94.80	104.00	124.50	147.00
65.0			30.40	41.30	53.60	67.50	73.60	83.30	92.00	101.50	121.50	144.00
70.0			28.00	38.80	51.00	64.80	70.80	80.40	89.10	98.20	118.50	141.00
75.0				36.20	48.20	61.80	67.80	77.40	85.90	95.10	115.50	138.50
80.0				33.40	45.30	58.80	64.70	74.20	82.70	91.90	112.00	135.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	19.3
Bore/Stroke, mm	63.6/35.0
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	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	10.3
Locked Rotor Current, A	55
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
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