



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	3.91	5.16	6.71	8.58								
25.0	3.53	4.74	6.22	8.01	10.10							
30.0	3.15	4.31	5.73	7.43	9.45	11.80	12.85	14.55				
35.0	2.76	3.88	5.24	6.86	8.77	11.00	12.00	13.60	15.05	16.60		
40.0	2.38	3.45	4.74	6.28	8.09	10.20	11.15	12.70	14.05	15.50	18.70	22.30
45.0	2.02	3.03	4.25	5.70	7.42	9.42	10.30	11.75	13.05	14.45	17.50	20.90
50.0	1.66	2.62	3.77	5.13	6.74	8.63	9.46	10.80	12.05	13.35	16.25	19.55
55.0	1.32	2.22	3.29	4.57	6.07	7.84	8.62	9.89	11.05	12.30	15.00	18.15
60.0		1.84	2.83	4.02	5.41	7.05	7.79	8.98	10.05	11.20	13.80	16.75
65.0			2.39	3.48	4.76	6.28	6.96	8.06	9.07	10.15	12.55	15.35
70.0			1.98	2.96	4.13	5.52	6.15	7.16	8.09	9.10	11.35	13.95
75.0				2.46	3.52	4.78	5.35	6.28	7.13	8.06	10.15	12.60
80.0				1.99	2.93	4.05	4.57	5.41	6.18	7.03	8.95	11.25

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	1.40	1.48	1.53	1.54								
25.0	1.46	1.58	1.66	1.71	1.70							
30.0	1.52	1.66	1.78	1.86	1.90	1.89	1.87	1.82				
35.0	1.54	1.72	1.88	2.00	2.07	2.11	2.11	2.09	2.06	2.02		
40.0	1.56	1.76	1.95	2.11	2.23	2.30	2.32	2.34	2.33	2.31	2.23	2.09
45.0	1.55	1.79	2.01	2.20	2.36	2.48	2.51	2.55	2.58	2.58	2.56	2.47
50.0	1.54	1.80	2.05	2.27	2.47	2.63	2.68	2.75	2.80	2.83	2.85	2.82
55.0	1.50	1.80	2.07	2.33	2.56	2.77	2.84	2.93	3.00	3.05	3.13	3.15
60.0		1.78	2.08	2.37	2.64	2.88	2.97	3.09	3.18	3.26	3.38	3.46
65.0			2.08	2.40	2.70	2.98	3.08	3.23	3.34	3.44	3.61	3.74
70.0			2.07	2.42	2.75	3.07	3.18	3.35	3.49	3.61	3.83	4.00
75.0				2.42	2.79	3.13	3.27	3.46	3.61	3.76	4.02	4.25
80.0				2.41	2.81	3.19	3.34	3.56	3.73	3.89	4.20	4.48

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	5.34	5.10	4.94	4.83								
25.0	5.20	5.06	5.01	5.00	4.99							
30.0	5.09	5.06	5.10	5.19	5.28	5.34	5.35	5.33				
35.0	5.02	5.08	5.22	5.40	5.58	5.73	5.77	5.80	5.79	5.76		
40.0	4.97	5.12	5.34	5.61	5.88	6.10	6.17	6.25	6.29	6.29	6.17	5.86
45.0	4.92	5.16	5.47	5.82	6.16	6.46	6.56	6.69	6.76	6.79	6.75	6.51
50.0	4.88	5.20	5.58	6.01	6.42	6.80	6.93	7.09	7.19	7.26	7.28	7.10
55.0	4.83	5.22	5.68	6.17	6.65	7.09	7.25	7.45	7.58	7.68	7.76	7.64
60.0		5.22	5.74	6.30	6.85	7.35	7.52	7.76	7.92	8.05	8.18	8.10
65.0			5.77	6.38	6.99	7.54	7.74	8.01	8.19	8.35	8.52	8.49
70.0			5.74	6.41	7.07	7.67	7.89	8.18	8.39	8.57	8.78	8.80
75.0				6.38	7.08	7.72	7.96	8.28	8.51	8.70	8.95	9.00
80.0				6.26	7.01	7.69	7.94	8.28	8.53	8.74	9.02	9.10

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	23.50	30.40	38.70	48.60								
25.0	22.10	29.10	37.50	47.30	58.70							
30.0	20.70	27.70	36.10	45.90	57.20	70.10	75.70	84.70				
35.0	19.05	26.20	34.60	44.30	55.60	68.40	74.00	82.90	90.80	99.10		
40.0	17.35	24.50	32.90	42.70	53.80	66.50	72.10	80.90	88.70	97.00	115.00	134.50
45.0	15.55	22.80	31.20	40.90	51.90	64.50	70.00	78.80	86.60	94.80	112.50	132.50
50.0	13.60	20.90	29.30	38.90	49.90	62.40	67.80	76.50	84.20	92.40	110.00	130.00
55.0	11.60	18.90	27.30	36.80	47.70	60.10	65.50	74.10	81.80	89.90	107.50	127.50
60.0		16.85	25.20	34.60	45.40	57.70	63.00	71.50	79.20	87.20	105.00	124.50
65.0			22.90	32.30	43.00	55.10	60.40	68.80	76.40	84.40	102.00	121.50
70.0			20.60	29.90	40.40	52.40	57.60	66.00	73.50	81.50	99.00	119.00
75.0				27.30	37.70	49.50	54.70	63.00	70.40	78.40	96.00	116.00
80.0				24.60	34.80	46.50	51.60	59.90	67.30	75.30	92.90	113.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	16.8
Bore/Stroke, mm	63.6/30.5
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	9
Locked Rotor Current, A	55
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Unloaded start	Available
Deep Oil Sump	Mounted
Crankcase Heater	70 W Internal
Check Valve	For unloaded start operation
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