



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
10.0	21.30	26.70	33.30									
15.0	20.00	25.30	31.60	39.20								
20.0	18.75	23.80	29.90	37.20	45.80							
25.0	17.45	22.30	28.20	35.20	43.40	53.10	57.40					
30.0	16.15	20.80	26.40	33.10	41.00	50.30	54.40	61.10	67.00			
35.0	14.85	19.30	24.70	31.10	38.60	47.40	51.40	57.70	63.40	69.60		
40.0	13.55	17.80	22.90	29.00	36.10	44.60	48.30	54.40	59.80	65.70	78.60	93.40
45.0	12.25	16.30	21.10	26.90	33.70	41.60	45.20	51.00	56.10	61.70	74.10	88.20
50.0	10.90	14.75	19.30	24.70	31.10	38.70	42.10	47.50	52.40	57.70	69.50	82.90
55.0	9.61	13.20	17.50	22.60	28.60	35.70	38.90	44.10	48.70	53.70	64.90	77.60
60.0		11.70	15.70	20.50	26.10	32.80	35.70	40.60	45.00	49.70	60.20	72.30
65.0			13.90	18.30	23.60	29.80	32.60	37.10	41.20	45.60	55.50	67.00
70.0			12.10	16.15	21.00	26.80	29.30	33.60	37.40	41.50	50.80	61.60
75.0				14.05	18.45	23.80	26.10	30.00	33.60	37.40	46.10	56.20
80.0				11.90	15.90	20.70	22.90	26.50	29.80	33.30	41.40	50.70

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
10.0	5.05	5.22	5.24									
15.0	5.47	5.76	5.90	5.87								
20.0	5.86	6.26	6.54	6.65	6.57							
25.0	6.22	6.73	7.14	7.40	7.48	7.35	7.23					
30.0	6.54	7.16	7.70	8.11	8.36	8.41	8.36	8.22	8.03			
35.0	6.81	7.55	8.22	8.77	9.18	9.41	9.45	9.43	9.34	9.19		
40.0	7.03	7.88	8.68	9.38	9.96	10.35	10.50	10.60	10.60	10.55	10.25	9.66
45.0	7.19	8.16	9.09	9.94	10.70	11.25	11.45	11.65	11.80	11.85	11.80	11.45
50.0	7.28	8.37	9.43	10.45	11.35	12.10	12.35	12.70	12.95	13.10	13.30	13.15
55.0	7.31	8.51	9.71	10.85	11.90	12.85	13.20	13.70	14.00	14.30	14.70	14.85
60.0		8.58	9.91	11.20	12.45	13.55	14.00	14.55	15.00	15.40	16.05	16.40
65.0			10.05	11.45	12.85	14.20	14.70	15.40	15.95	16.45	17.30	17.90
70.0			10.05	11.65	13.20	14.70	15.30	16.10	16.75	17.35	18.45	19.35
75.0				11.75	13.45	15.15	15.80	16.75	17.50	18.25	19.55	20.70
80.0				11.75	13.65	15.50	16.25	17.30	18.15	19.00	20.50	21.90

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
10.0	17.44	17.37	17.19									
15.0	17.78	17.85	17.83	17.66								
20.0	18.12	18.33	18.47	18.48	18.30							
25.0	18.44	18.80	19.10	19.29	19.32	19.13	18.98					
30.0	18.74	19.24	19.71	20.09	20.33	20.36	20.31	20.14	19.92			
35.0	19.01	19.65	20.29	20.86	21.30	21.57	21.61	21.60	21.51	21.34		
40.0	19.22	20.02	20.82	21.58	22.24	22.74	22.88	23.02	23.07	23.04	22.72	22.03
45.0	19.38	20.32	21.30	22.26	23.13	23.86	24.10	24.40	24.58	24.69	24.67	24.29
50.0	19.46	20.56	21.72	22.87	23.95	24.93	25.27	25.72	26.04	26.29	26.57	26.51
55.0	19.45	20.72	22.05	23.40	24.71	25.92	26.36	26.97	27.43	27.82	28.41	28.67
60.0		20.78	22.29	23.84	25.37	26.82	27.37	28.15	28.74	29.28	30.16	30.75
65.0			22.43	24.18	25.94	27.64	28.29	29.22	29.96	30.64	31.83	32.75
70.0			22.45	24.41	26.39	28.34	29.10	30.19	31.07	31.90	33.40	34.65
75.0				24.52	26.73	28.92	29.79	31.05	32.07	33.05	34.86	36.44
80.0				24.48	26.93	29.38	30.35	31.78	32.94	34.07	36.20	38.10

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
10.0	117.50	145.00	177.50									
15.0	115.50	142.50	175.00	213.00								
20.0	112.50	140.00	172.50	211.00	255.00							
25.0	109.50	137.00	169.50	208.00	252.00	302.00	324.00					
30.0	106.00	134.00	166.50	204.00	248.00	299.00	321.00	356.00	387.00			
35.0	102.50	130.50	163.00	201.00	244.00	295.00	316.00	352.00	383.00	416.00		
40.0	98.60	126.50	159.00	196.50	240.00	290.00	312.00	347.00	378.00	411.00	483.00	563.00
45.0	94.20	122.50	155.00	192.50	236.00	285.00	307.00	342.00	373.00	406.00	477.00	557.00
50.0	89.50	117.50	150.00	187.50	231.00	280.00	302.00	336.00	367.00	400.00	471.00	551.00
55.0	84.20	112.50	145.00	182.00	225.00	274.00	296.00	330.00	361.00	393.00	465.00	545.00
60.0		107.00	139.50	176.50	219.00	268.00	289.00	323.00	354.00	387.00	458.00	538.00
65.0			133.00	170.00	212.00	261.00	282.00	316.00	347.00	380.00	451.00	531.00
70.0			126.50	163.00	205.00	254.00	275.00	309.00	340.00	372.00	443.00	524.00
75.0				155.50	197.50	246.00	267.00	301.00	332.00	364.00	436.00	517.00
80.0				147.50	189.50	238.00	259.00	293.00	324.00	357.00	429.00	511.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	70.8
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	670/535
Height, mm	495
Net Weight, kg	209
Gross Weight, kg	225
Suction, inch	2 1/8
Discharge, inch	1 1/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.3
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	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	41.5
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

ACCESSORIES OPTIONAL

Capacity Control	Capacity Steps 50%
Check Valve	For unloaded start operation
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Unloaded start	Available
Deep Oil Sump	Mounted
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
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
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
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
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