



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 20 K Suction Superheat
- 20 K Suction Superheat with add cooling
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	19.05	24.40	30.80	38.40	47.40	57.90					
15.0	17.95	23.10	29.20	36.60	45.30	55.40	67.00				
20.0	16.75	21.70	27.60	34.70	43.00	52.70	63.90	68.80	76.70		
25.0	15.50	20.20	25.90	32.70	40.60	49.90	60.70	65.40	73.00	79.80	87.00
30.0	14.25	18.75	24.10	30.60	38.20	47.10	57.40	61.90	69.20	75.70	82.60
35.0	13.00	17.25	22.30	28.40	35.70	44.10	53.90	58.30	65.20	71.50	78.10
40.0	11.75	15.70	20.50	26.30	33.10	41.10	50.40	54.50	61.20	67.10	73.50
45.0	10.55	14.20	18.65	24.00	30.40	38.00	46.80	50.70	57.00	62.70	68.70
50.0	9.34	12.70	16.85	21.80	27.80	34.90	43.20	46.80	52.80	58.20	63.90
55.0		11.25	15.00	19.60	25.10	31.70	39.40	42.90	48.50	53.50	59.00
60.0			13.20	17.35	22.40	28.50	35.70	38.90	44.10	48.90	54.00
65.0				15.15	19.75	25.30	31.90	34.90	39.70	44.20	48.90

Cond °C	Power, kW										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	5.07	5.39	5.60	5.64	5.48	5.09					
15.0	5.48	5.93	6.27	6.47	6.50	6.31	5.87				
20.0	5.86	6.42	6.90	7.25	7.45	7.46	7.24	7.08	6.75		
25.0	6.20	6.87	7.47	7.98	8.34	8.54	8.52	8.45	8.27	8.04	7.73
30.0	6.50	7.27	8.00	8.64	9.17	9.55	9.74	9.75	9.70	9.59	9.41
35.0	6.75	7.62	8.46	9.24	9.93	10.50	10.85	10.95	11.05	11.05	11.00
40.0	6.96	7.92	8.88	9.79	10.65	11.35	11.95	12.10	12.35	12.45	12.50
45.0	7.13	8.17	9.23	10.25	11.25	12.15	12.90	13.20	13.50	13.75	13.95
50.0	7.25	8.37	9.53	10.70	11.80	12.85	13.80	14.15	14.65	14.95	15.25
55.0		8.52	9.78	11.05	12.30	13.50	14.65	15.05	15.65	16.10	16.50
60.0			9.97	11.35	12.75	14.10	15.40	15.90	16.60	17.15	17.65
65.0				11.60	13.10	14.60	16.05	16.60	17.45	18.10	18.70

Cond °C	Current at 400 V, A										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	14.34	14.37	14.29	14.09	13.77	13.34					
15.0	14.70	14.96	15.09	15.11	15.01	14.79	14.45				
20.0	15.01	15.48	15.84	16.07	16.18	16.18	16.06	15.98	15.82		
25.0	15.27	15.95	16.52	16.97	17.30	17.52	17.62	17.62	17.59	17.54	17.45
30.0	15.46	16.37	17.15	17.82	18.37	18.80	19.11	19.20	19.31	19.36	19.38
35.0	15.60	16.72	17.72	18.61	19.37	20.02	20.55	20.73	20.96	21.13	21.26
40.0	15.68	17.02	18.24	19.34	20.32	21.19	21.93	22.20	22.56	22.83	23.07
45.0	15.70	17.26	18.69	20.01	21.21	22.29	23.26	23.61	24.10	24.48	24.83
50.0	15.67	17.44	19.09	20.63	22.05	23.35	24.53	24.97	25.59	26.08	26.53
55.0		17.57	19.44	21.19	22.82	24.34	25.74	26.26	27.02	27.61	28.18
60.0			19.72	21.69	23.54	25.27	26.89	27.50	28.39	29.09	29.77
65.0				22.14	24.20	26.15	27.99	28.69	29.70	30.51	31.30

Cond °C	Suction Mass Flow, g/s										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	96.10	121.00	151.00	185.50	226.00	272.00					
15.0	93.90	119.00	148.50	183.50	224.00	270.00	322.00				
20.0	91.20	116.50	146.00	180.50	221.00	267.00	319.00	342.00	378.00		
25.0	88.20	113.00	142.50	177.00	217.00	263.00	315.00	338.00	374.00	406.00	440.00
30.0	84.90	109.50	139.00	173.00	213.00	258.00	311.00	333.00	369.00	401.00	435.00
35.0	81.30	105.50	134.50	168.50	208.00	253.00	305.00	328.00	364.00	396.00	430.00
40.0	77.40	101.50	130.00	163.50	202.00	247.00	299.00	321.00	357.00	389.00	423.00
45.0	73.40	97.00	125.00	158.00	196.50	241.00	292.00	314.00	350.00	382.00	416.00
50.0	69.20	92.20	119.50	152.00	190.00	234.00	284.00	307.00	342.00	374.00	408.00
55.0		87.20	113.50	145.50	182.50	226.00	276.00	298.00	334.00	365.00	399.00
60.0			107.50	138.50	175.00	218.00	267.00	289.00	325.00	356.00	390.00
65.0				131.00	166.50	209.00	258.00	280.00	315.00	347.00	380.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	56.0
Bore/Stroke, mm	63.5/50.8
Length/Width, mm	650/485
Height, mm	495
Net Weight, kg	183
Gross Weight, kg	199
Suction, inch	1 5/8
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	70
Sound Power, dBA	81
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	32.7
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

ACCESSORIES OPTIONAL

Crankcase Heater	100 W Internal
Discharge Temperature Protection	Head PTC sensor
Unloaded start	Available
Capacity Control	Capacity Steps 50%
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Adapter Kit	For Parallel Operation
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Deep Oil Sump	Mounted
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
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