



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 5.0K

Liquid Subcooling 4.0K

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	41.90	52.50	66.00									
15.0	39.90	50.20	63.30	79.30								
20.0	37.70	47.80	60.40	75.80	94.40							
25.0	35.50	45.20	57.40	72.20	90.00	111.00	120.50					
30.0	33.20	42.60	54.20	68.40	85.50	105.50	115.00	129.50	142.50			
35.0	30.80	39.80	51.00	64.60	80.80	100.00	109.00	123.00	135.50	149.00		
40.0	28.40	37.00	47.70	60.60	76.10	94.40	102.50	116.00	128.00	141.00	169.50	202.00
45.0	26.00	34.20	44.30	56.50	71.20	88.60	96.40	109.00	120.50	132.50	160.00	191.50
50.0	23.50	31.30	40.80	52.30	66.20	82.60	90.00	102.00	112.50	124.50	150.50	180.00
55.0	21.00	28.30	37.30	48.10	61.10	76.50	83.50	94.70	105.00	116.00	140.50	168.50
60.0		25.40	33.80	43.80	56.00	70.40	76.90	87.40	97.00	107.50	130.50	157.00
65.0			30.20	39.50	50.80	64.20	70.20	80.10	89.00	98.70	120.50	145.50
70.0			26.60	35.20	45.60	57.90	63.50	72.60	81.00	90.00	110.00	133.50
75.0				30.90	40.30	51.70	56.80	65.20	72.90	81.20	100.00	
80.0				26.60	35.10	45.40	50.10	57.70	64.80	72.40	89.80	

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
10.0	11.15	11.60	11.80									
15.0	12.10	12.80	13.20	13.35								
20.0	13.00	13.90	14.55	14.90	14.95							
25.0	13.85	14.95	15.80	16.40	16.75	16.70	16.60					
30.0	14.55	15.85	17.00	17.85	18.45	18.70	18.75	18.65	18.45			
35.0	15.20	16.75	18.10	19.20	20.10	20.70	20.80	20.90	20.90	20.70		
40.0	15.75	17.50	19.10	20.50	21.70	22.50	22.80	23.10	23.20	23.30	23.10	22.40
45.0	16.20	18.20	20.00	21.70	23.10	24.30	24.70	25.20	25.50	25.80	25.90	25.70
50.0	16.55	18.75	20.90	22.80	24.50	26.00	26.60	27.30	27.80	28.20	28.70	28.80
55.0	16.80	19.25	21.60	23.80	25.90	27.70	28.30	29.20	29.90	30.50	31.40	31.90
60.0		19.65	22.20	24.70	27.10	29.20	30.00	31.10	32.00	32.70	34.00	35.00
65.0			22.80	25.60	28.20	30.70	31.60	32.90	33.90	34.90	36.60	37.90
70.0			23.20	26.30	29.20	32.00	33.10	34.60	35.80	37.00	39.10	40.80
75.0				26.90	30.10	33.30	34.50	36.20	37.60	38.90	41.40	
80.0				27.40	30.90	34.40	35.70	37.70	39.30	40.80	43.70	

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	46.93	47.33	47.52									
15.0	47.53	48.04	48.38	48.47								
20.0	48.12	48.76	49.27	49.56	49.55							
25.0	48.71	49.49	50.18	50.69	50.94	50.84	50.69					
30.0	49.26	50.21	51.10	51.85	52.37	52.58	52.56	52.40	52.14			
35.0	49.76	50.90	52.01	53.01	53.82	54.36	54.48	54.54	54.47	54.29		
40.0	50.20	51.54	52.89	54.16	55.28	56.16	56.43	56.73	56.86	56.89	56.57	55.68
45.0	50.57	52.13	53.73	55.30	56.74	57.98	58.40	58.94	59.29	59.54	59.68	59.30
50.0	50.85	52.64	54.52	56.39	58.18	59.80	60.38	61.17	61.74	62.22	62.85	62.99
55.0	51.02	53.07	55.23	57.43	59.58	61.60	62.35	63.41	64.20	64.92	66.05	66.73
60.0		53.39	55.86	58.40	60.93	63.37	64.29	65.62	66.66	67.62	69.28	70.51
65.0			56.39	59.29	62.22	65.08	66.20	67.81	69.09	70.31	72.51	74.32
70.0			56.79	60.08	63.42	66.74	68.04	69.95	71.49	72.97	75.73	78.13
75.0				60.75	64.53	68.31	69.81	72.03	73.83	75.59	78.92	
80.0				61.29	65.52	69.79	71.50	74.03	76.11	78.15	82.07	

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	230.00	283.00	350.00									
15.0	227.00	281.00	348.00	429.00								
20.0	224.00	279.00	346.00	426.00	522.00							
25.0	220.00	275.00	342.00	423.00	518.00	629.00	677.00					
30.0	216.00	271.00	338.00	419.00	513.00	623.00	672.00	749.00	819.00			
35.0	210.00	266.00	333.00	413.00	507.00	617.00	665.00	742.00	811.00	885.00		
40.0	204.00	260.00	327.00	407.00	501.00	609.00	657.00	734.00	803.00	876.00	1036.00	1215.00
45.0	197.00	253.00	320.00	400.00	493.00	601.00	648.00	724.00	792.00	865.00	1024.00	1203.00
50.0	189.00	246.00	313.00	391.00	484.00	591.00	638.00	713.00	781.00	853.00	1011.00	1189.00
55.0	180.00	237.00	304.00	382.00	474.00	579.00	626.00	701.00	768.00	840.00	997.00	1173.00
60.0		227.00	294.00	372.00	462.00	567.00	613.00	687.00	754.00	825.00	981.00	1157.00
65.0			283.00	360.00	449.00	553.00	599.00	672.00	738.00	809.00	964.00	1139.00
70.0			271.00	347.00	435.00	538.00	583.00	656.00	721.00	791.00	945.00	1120.00
75.0				333.00	420.00	521.00	566.00	638.00	703.00	773.00	926.00	
80.0				317.00	404.00	504.00	548.00	620.00	685.00	754.00	907.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	151
Bore/Stroke, mm	68.3/59.2
Length/Width, mm	835/467
Height, mm	610
Net Weight, kg	326
Gross Weight, kg	347
Suction, inch	2 5/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	7.6
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	457 x 305 (18)
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	95.2
Locked Rotor Current, A	458
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4
Deep Oil Sump	Mounted

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Crankcase Heater	200 W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
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