



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- 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	52.90	65.90	82.20									
15.0	49.90	62.50	78.20	97.30								
20.0	46.80	59.00	74.20	92.60	114.50							
25.0	43.70	55.50	70.10	87.80	109.00	134.00	145.00					
30.0	40.60	52.00	66.00	82.90	103.00	127.00	137.50	154.50	170.00			
35.0	37.50	48.40	61.80	77.90	97.20	120.00	130.00	146.50	161.50	177.00		
40.0	34.40	44.80	57.50	72.90	91.20	113.00	122.50	138.00	152.50	167.50	201.00	239.00
45.0	31.40	41.20	53.30	67.80	85.20	105.50	115.00	129.50	143.00	157.50	189.50	226.00
50.0	28.30	37.60	49.00	62.70	79.00	98.40	107.00	121.00	134.00	147.50	178.00	213.00
55.0	25.30	34.10	44.70	57.50	72.80	91.00	99.20	112.50	124.50	137.50	166.00	199.00
60.0		30.50	40.40	52.30	66.60	83.60	91.20	103.50	115.00	127.00	154.00	185.00
65.0			36.00	47.00	60.30	76.00	83.10	94.70	105.00	116.50	142.00	171.50
70.0			31.70	41.80	53.90	68.40	75.00	85.70	95.50	106.00	130.00	157.00
75.0				36.50	47.50	60.80	66.80	76.60	85.60	95.40	117.50	143.00
80.0				31.30	41.10	53.10	58.50	67.50	75.70	84.60	105.00	128.50

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	13.20	14.00	14.55									
15.0	14.10	15.15	15.90	16.35								
20.0	15.05	16.25	17.25	17.90	18.25							
25.0	15.90	17.35	18.55	19.50	20.10	20.40	20.40					
30.0	16.70	18.35	19.85	21.00	22.00	22.50	22.70	22.70	22.70			
35.0	17.40	19.30	21.00	22.50	23.80	24.70	24.90	25.20	25.30	25.40		
40.0	18.05	20.20	22.20	24.00	25.50	26.80	27.20	27.70	28.00	28.20	28.30	28.00
45.0	18.60	21.00	23.30	25.40	27.20	28.80	29.30	30.10	30.60	31.00	31.50	31.60
50.0	19.00	21.70	24.20	26.60	28.80	30.80	31.50	32.40	33.10	33.80	34.70	35.30
55.0	19.35	22.30	25.10	27.80	30.40	32.70	33.50	34.70	35.60	36.50	37.80	38.80
60.0		22.70	25.90	28.90	31.80	34.50	35.50	36.90	38.00	39.10	40.90	42.40
65.0			26.50	29.90	33.10	36.20	37.40	39.00	40.40	41.60	43.90	45.90
70.0			27.00	30.70	34.30	37.80	39.10	41.10	42.60	44.10	46.80	49.20
75.0				31.40	35.40	39.30	40.80	43.00	44.70	46.40	49.60	52.60
80.0				32.00	36.30	40.60	42.30	44.70	46.70	48.70	52.30	55.80

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	45.98	46.77	47.32									
15.0	46.67	47.59	48.31	48.73								
20.0	47.39	48.47	49.39	50.04	50.35							
25.0	48.13	49.38	50.52	51.44	52.05	52.27	52.22					
30.0	48.85	50.30	51.68	52.89	53.84	54.43	54.55	54.57	54.45			
35.0	49.53	51.21	52.86	54.38	55.69	56.68	56.97	57.27	57.38	57.36		
40.0	50.16	52.08	54.02	55.88	57.56	58.98	59.46	60.04	60.41	60.65	60.70	60.10
45.0	50.69	52.88	55.14	57.36	59.45	61.32	61.98	62.87	63.50	64.01	64.65	64.69
50.0	51.11	53.60	56.20	58.80	61.32	63.66	64.53	65.74	66.64	67.44	68.68	69.37
55.0	51.40	54.21	57.17	60.18	63.15	65.99	67.07	68.61	69.80	70.90	72.77	74.14
60.0		54.68	58.03	61.47	64.92	68.28	69.58	71.46	72.95	74.36	76.89	78.96
65.0			58.75	62.65	66.60	70.51	72.04	74.28	76.08	77.81	81.02	83.81
70.0			59.32	63.70	68.17	72.65	74.42	77.03	79.15	81.22	85.13	88.67
75.0				64.58	69.61	74.67	76.69	79.69	82.15	84.57	89.21	93.51
80.0				65.29	70.88	76.56	78.84	82.24	85.05	87.83	93.21	98.32

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	293.00	358.00	439.00									
15.0	287.00	353.00	434.00	530.00								
20.0	281.00	347.00	428.00	525.00	638.00							
25.0	274.00	341.00	422.00	518.00	631.00	761.00	819.00					
30.0	267.00	334.00	415.00	511.00	624.00	754.00	811.00	902.00	983.00			
35.0	259.00	327.00	408.00	504.00	616.00	745.00	802.00	892.00	973.00	1059.00		
40.0	251.00	319.00	400.00	495.00	606.00	735.00	791.00	882.00	962.00	1048.00	1235.00	1443.00
45.0	242.00	310.00	391.00	486.00	596.00	724.00	780.00	870.00	950.00	1035.00	1221.00	1429.00
50.0	232.00	300.00	381.00	475.00	585.00	712.00	767.00	857.00	936.00	1021.00	1206.00	1413.00
55.0	222.00	290.00	370.00	464.00	572.00	698.00	753.00	842.00	921.00	1006.00	1190.00	1396.00
60.0		279.00	358.00	451.00	559.00	683.00	738.00	826.00	905.00	988.00	1172.00	1378.00
65.0			345.00	437.00	544.00	667.00	721.00	808.00	886.00	970.00	1152.00	1358.00
70.0			331.00	422.00	527.00	649.00	703.00	789.00	867.00	950.00	1131.00	1336.00
75.0				405.00	509.00	629.00	683.00	769.00	846.00	928.00	1110.00	1315.00
80.0				387.00	490.00	609.00	662.00	747.00	824.00	906.00	1088.00	1294.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	181
Bore/Stroke, mm	74.7/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	331
Gross Weight, kg	352
Suction, inch	3 1/8
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)
Sound Pressure @ 1m, dBA	79
Sound Power, dBA	90
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	108
Locked Rotor Current, A	476
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Oil Pressure Switch	OPS2 Electronic Switch
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Unloaded start	Available

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
AWM	380-420 V / 3~ / 50 Hz	400	YYY	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	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	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	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00