



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	42.20	53.00	66.60									
15.0	40.20	50.60	63.80	79.90								
20.0	38.00	48.10	60.80	76.40	95.10							
25.0	35.80	45.50	57.70	72.70	90.60	112.00	121.50					
30.0	33.40	42.80	54.60	68.90	86.00	106.50	115.50	130.00	143.50			
35.0	31.00	40.10	51.30	64.90	81.30	100.50	109.50	123.50	136.00	149.50		
40.0	28.60	37.20	47.90	60.90	76.40	94.90	103.00	116.50	128.50	141.50	170.50	203.00
45.0	26.10	34.30	44.40	56.70	71.40	88.90	96.70	109.50	121.00	133.00	160.50	192.00
50.0	23.60	31.40	40.90	52.50	66.40	82.80	90.20	102.00	113.00	124.50	151.00	180.50
55.0	21.00	28.40	37.40	48.20	61.20	76.70	83.60	94.90	105.00	116.00	140.50	169.00
60.0		25.40	33.80	43.90	56.00	70.40	76.90	87.40	97.00	107.50	130.50	157.00
65.0			30.20	39.50	50.70	64.10	70.10	79.90	88.90	98.50	120.00	145.00
70.0			26.50	35.10	45.30	57.70	63.20	72.30	80.60	89.60	110.00	133.00
75.0				30.60	40.00	51.20	56.30	64.60	72.30	80.60	99.20	121.00
80.0				26.20	34.60	44.70	49.40	56.90	63.90	71.50	88.60	108.50

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	11.00	11.45	11.65									
15.0	11.95	12.60	13.00	13.15								
20.0	12.80	13.70	14.35	14.70	14.75							
25.0	13.60	14.70	15.55	16.20	16.50	16.45	16.35					
30.0	14.35	15.65	16.75	17.60	18.20	18.45	18.45	18.35	18.15			
35.0	15.00	16.50	17.80	18.95	19.80	20.40	20.50	20.60	20.60	20.40		
40.0	15.50	17.25	18.80	20.20	21.30	22.20	22.50	22.70	22.90	22.90	22.70	22.10
45.0	15.95	17.90	19.75	21.40	22.80	24.00	24.40	24.80	25.20	25.40	25.50	25.30
50.0	16.30	18.50	20.60	22.50	24.20	25.70	26.20	26.90	27.30	27.70	28.30	28.40
55.0	16.55	18.95	21.30	23.50	25.50	27.30	27.90	28.80	29.50	30.00	30.90	31.50
60.0		19.35	21.90	24.40	26.70	28.80	29.60	30.60	31.50	32.20	33.50	34.50
65.0			22.40	25.20	27.80	30.20	31.10	32.40	33.40	34.40	36.00	37.40
70.0			22.90	25.90	28.80	31.50	32.60	34.10	35.30	36.40	38.50	40.20
75.0				26.50	29.70	32.80	34.00	35.70	37.10	38.40	40.80	43.00
80.0				27.00	30.50	33.90	35.20	37.20	38.70	40.20	43.10	45.60

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	45.94	46.43	46.71									
15.0	46.61	47.19	47.60	47.75								
20.0	47.26	47.95	48.51	48.85	48.89							
25.0	47.88	48.71	49.43	49.97	50.25	50.19	50.05					
30.0	48.46	49.44	50.35	51.12	51.65	51.89	51.88	51.74	51.50			
35.0	48.99	50.14	51.25	52.26	53.07	53.62	53.75	53.82	53.77	53.60		
40.0	49.45	50.79	52.13	53.39	54.50	55.38	55.65	55.95	56.09	56.13	55.85	55.02
45.0	49.83	51.37	52.95	54.49	55.92	57.15	57.57	58.10	58.45	58.71	58.88	58.55
50.0	50.12	51.88	53.72	55.56	57.31	58.91	59.49	60.27	60.84	61.32	61.97	62.15
55.0	50.30	52.30	54.42	56.57	58.68	60.66	61.40	62.44	63.23	63.95	65.10	65.81
60.0		52.62	55.03	57.52	59.99	62.38	63.29	64.60	65.63	66.58	68.25	69.51
65.0			55.55	58.38	61.24	64.05	65.15	66.74	68.01	69.21	71.41	73.24
70.0			55.95	59.15	62.42	65.67	66.95	68.83	70.35	71.82	74.57	76.98
75.0				59.82	63.51	67.22	68.69	70.88	72.66	74.40	77.71	80.73
80.0				60.36	64.49	68.68	70.36	72.85	74.91	76.93	80.82	84.47

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	233.00	288.00	355.00									
15.0	231.00	286.00	354.00	435.00								
20.0	228.00	283.00	351.00	433.00	529.00							
25.0	224.00	280.00	348.00	429.00	525.00	637.00	686.00					
30.0	220.00	276.00	344.00	425.00	521.00	631.00	680.00	759.00	829.00			
35.0	214.00	271.00	339.00	420.00	515.00	625.00	674.00	752.00	821.00	895.00		
40.0	208.00	265.00	333.00	413.00	508.00	618.00	666.00	743.00	812.00	886.00	1047.00	1227.00
45.0	201.00	258.00	326.00	406.00	500.00	609.00	657.00	734.00	802.00	875.00	1035.00	1214.00
50.0	193.00	250.00	318.00	398.00	491.00	599.00	647.00	723.00	791.00	864.00	1022.00	1201.00
55.0	184.50	242.00	309.00	389.00	481.00	588.00	635.00	711.00	778.00	850.00	1008.00	1185.00
60.0		232.00	300.00	378.00	470.00	576.00	622.00	697.00	764.00	836.00	992.00	1169.00
65.0			289.00	367.00	457.00	562.00	608.00	682.00	749.00	820.00	975.00	1151.00
70.0			277.00	354.00	443.00	547.00	592.00	666.00	732.00	802.00	957.00	1132.00
75.0				340.00	428.00	531.00	576.00	649.00	714.00	784.00	938.00	1113.00
80.0				325.00	412.00	513.00	558.00	631.00	696.00	766.00	920.00	1095.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	151
Bore/Stroke, mm	68.3/59.3
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	330
Gross Weight, kg	351
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)
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	88.2
Locked Rotor Current, A	458
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

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

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