



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0	20.0	25.0
10.0	30.50	38.40	48.00								
15.0	29.00	36.60	45.90	57.10							
20.0	27.40	34.80	43.70	54.60	67.40						
25.0	25.80	32.90	41.50	51.90	64.30	78.80					
30.0	24.20	31.00	39.30	49.30	61.10	75.00	91.10	100.00			
35.0	22.50	29.10	37.00	46.50	57.80	71.10	86.60	95.20	104.50		
40.0	20.90	27.10	34.70	43.80	54.50	67.20	81.90	90.10	99.00	118.50	141.00
45.0	19.20	25.20	32.40	41.00	51.20	63.20	77.20	85.10	93.50	112.00	133.50
50.0	17.55	23.20	30.00	38.10	47.80	59.10	72.50	79.90	87.90	105.50	126.00
55.0	15.90	21.20	27.60	35.30	44.30	55.10	67.70	74.70	82.30	99.20	118.50
60.0		19.25	25.30	32.40	40.90	51.00	62.80	69.50	76.60	92.60	111.00
65.0			22.90	29.50	37.40	46.80	57.90	64.20	70.90	86.00	103.50
70.0			20.50	26.70	34.00	42.70	53.10	58.90	65.20	79.40	95.90
75.0				23.80	30.50	38.60	48.20	53.60	59.50	72.80	88.30
80.0				21.00	27.10	34.50	43.40	48.40	53.90	66.30	80.80

Cond °C	Power, kW										
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0	20.0	25.0
10.0	7.11	7.33	7.21								
15.0	7.73	8.18	8.35	8.15							
20.0	8.26	8.91	9.34	9.46	9.17						
25.0	8.71	9.53	10.20	10.60	10.65	10.30					
30.0	9.08	10.05	10.95	11.60	12.00	12.00	11.50	11.05			
35.0	9.41	10.50	11.60	12.50	13.20	13.55	13.45	13.25	12.85		
40.0	9.70	10.90	12.15	13.25	14.20	14.90	15.20	15.20	15.05	14.35	13.00
45.0	9.97	11.25	12.60	13.95	15.15	16.10	16.80	16.95	17.05	16.80	16.00
50.0	10.25	11.55	13.05	14.50	15.95	17.20	18.20	18.60	18.85	19.10	18.75
55.0	10.50	11.85	13.40	15.05	16.65	18.15	19.45	20.00	20.50	21.10	21.30
60.0		12.20	13.75	15.50	17.30	19.00	20.60	21.30	22.00	23.00	23.60
65.0			14.10	15.95	17.85	19.80	21.70	22.50	23.30	24.70	25.80
70.0			14.45	16.35	18.40	20.50	22.60	23.60	24.60	26.30	27.70
75.0				16.75	18.90	21.20	23.40	24.60	25.70	27.70	29.60
80.0				17.20	19.40	21.80	24.20	25.50	26.70	29.10	31.20

Cond °C	Current at 400 V, A										
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0	20.0	25.0
10.0	22.28	22.51	22.42								
15.0	22.72	23.16	23.36	23.17							
20.0	23.11	23.74	24.21	24.37	24.08						
25.0	23.48	24.27	24.99	25.47	25.57	25.15					
30.0	23.82	24.76	25.69	26.48	26.96	26.98	26.41	25.86			
35.0	24.14	25.20	26.34	27.39	28.23	28.69	28.63	28.35	27.89		
40.0	24.44	25.61	26.92	28.23	29.40	30.27	30.69	30.69	30.53	29.62	27.81
45.0	24.75	25.99	27.45	29.00	30.47	31.73	32.62	32.88	33.00	32.70	31.60
50.0	25.05	26.35	27.94	29.70	31.46	33.08	34.41	34.93	35.31	35.62	35.19
55.0	25.37	26.69	28.40	30.34	32.37	34.33	36.08	36.83	37.47	38.35	38.58
60.0		27.03	28.83	30.93	33.20	35.48	37.63	38.61	39.50	40.93	41.78
65.0			29.23	31.48	33.96	36.54	39.07	40.26	41.38	43.35	44.81
70.0			29.62	31.99	34.67	37.52	40.40	41.80	43.14	45.61	47.66
75.0				32.46	35.32	38.43	41.63	43.22	44.78	47.74	50.35
80.0				32.92	35.93	39.26	42.77	44.55	46.31	49.73	52.87

Cond °C	Suction Mass Flow, g/s										
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0	20.0	25.0
10.0	158.00	195.00	240.00								
15.0	155.50	193.00	238.00	291.00							
20.0	153.00	190.50	235.00	288.00	350.00						
25.0	149.50	187.50	232.00	285.00	347.00	418.00					
30.0	146.50	184.00	229.00	281.00	343.00	413.00	493.00	538.00			
35.0	142.50	180.50	225.00	277.00	338.00	408.00	488.00	532.00	578.00		
40.0	138.50	176.00	221.00	272.00	333.00	402.00	481.00	525.00	571.00	672.00	785.00
45.0	134.00	171.50	216.00	267.00	327.00	396.00	474.00	518.00	564.00	664.00	777.00
50.0	129.00	167.00	211.00	262.00	321.00	389.00	467.00	510.00	555.00	655.00	767.00
55.0	124.00	161.50	205.00	256.00	314.00	381.00	458.00	501.00	546.00	645.00	757.00
60.0		156.00	199.00	249.00	306.00	373.00	449.00	491.00	536.00	635.00	745.00
65.0			192.50	241.00	298.00	364.00	439.00	481.00	526.00	623.00	734.00
70.0			185.00	233.00	289.00	354.00	429.00	470.00	514.00	612.00	722.00
75.0				225.00	280.00	344.00	418.00	459.00	503.00	599.00	709.00
80.0				216.00	270.00	333.00	406.00	447.00	491.00	587.00	698.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	99.4
Bore/Stroke, mm	80.6/56.0
Length/Width, mm	688/501
Height, mm	452
Net Weight, kg	202
Suction, inch	2 1/8
Discharge, inch	1 3/8
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 (MT), dBA	71
Sound Power (MT), dBA	82
Sound Power with Sound Shell (MT), dBA	67
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Digital Modulation	50-100%
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	61.1
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Electronic Switch
Next Generation CoreSense (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Sound Attenuation	Sound Shell
Digital Driver	EC3-D23
Mounting Parts	Rubber
Digital Modulation	50-100 %
NG CoreSense module	Modbus extension module

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	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