



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	13.10	17.30	22.70	29.20	37.10	46.40				
10.0	12.55	16.65	21.90	28.30	35.90	44.90	55.30			
15.0	11.85	15.85	20.90	27.10	34.50	43.20	53.30	64.80	77.90	
20.0	11.00	14.95	19.80	25.80	32.90	41.30	50.90	62.00	74.60	88.80
25.0	10.15	13.90	18.60	24.30	31.20	39.20	48.50	59.10	71.20	84.80
30.0	9.18	12.80	17.30	22.80	29.30	36.90	45.80	56.00	67.50	80.60
35.0	8.21	11.65	15.95	21.10	27.30	34.60	43.00	52.70	63.70	76.20
40.0	7.25	10.50	14.55	19.45	25.30	32.20	40.10	49.30	59.80	71.60
45.0		9.39	13.15	17.75	23.20	29.70	37.20	45.90	55.80	67.00
50.0			11.85	16.10	21.20	27.20	34.30	42.40	51.70	
55.0				14.50	19.20	24.80	31.30	38.90	47.60	
60.0					17.25	22.40	28.40	35.40		
62.0					16.50	21.40	27.20	34.00		

Cond °C	Power, kW									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	5.60	6.40	7.15	7.81	8.34	8.69				
10.0	5.85	6.76	7.63	8.44	9.13	9.67	10.00			
15.0	6.08	7.09	8.09	9.04	9.90	10.60	11.15	11.50	11.55	
20.0	6.28	7.39	8.52	9.61	10.65	11.55	12.30	12.85	13.15	13.15
25.0	6.45	7.66	8.91	10.15	11.35	12.40	13.40	14.15	14.70	15.00
30.0	6.57	7.88	9.25	10.65	12.00	13.25	14.40	15.40	16.20	16.75
35.0	6.64	8.06	9.55	11.10	12.60	14.05	15.40	16.65	17.70	18.50
40.0	6.65	8.17	9.79	11.45	13.15	14.80	16.35	17.80	19.10	20.20
45.0		8.23	9.96	11.75	13.60	15.45	17.20	18.90	20.40	21.80
50.0			10.05	12.00	14.00	16.05	18.00	19.90	21.70	
55.0				12.20	14.35	16.55	18.70	20.80	22.90	
60.0					14.60	16.95	19.35	21.70		
62.0					14.65	17.10	19.55	22.00		

Cond °C	Current at 400 V, A									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	15.65	16.18	16.75	17.31	17.79	18.13				
10.0	15.86	16.50	17.23	17.97	18.66	19.25	19.66			
15.0	16.05	16.82	17.71	18.64	19.55	20.39	21.09	21.59	21.83	
20.0	16.22	17.13	18.17	19.30	20.45	21.55	22.54	23.36	23.96	24.26
25.0	16.35	17.39	18.62	19.95	21.33	22.70	23.99	25.15	26.10	26.80
30.0	16.42	17.62	19.02	20.56	22.19	23.83	25.43	26.93	28.25	29.35
35.0	16.43	17.78	19.37	21.13	23.01	24.93	26.85	28.69	30.39	31.90
40.0	16.35	17.87	19.65	21.64	23.77	25.99	28.22	30.42	32.51	34.43
45.0		17.87	19.85	22.08	24.47	26.99	29.55	32.11	34.59	36.93
50.0			19.96	22.43	25.10	27.91	30.81	33.73	36.62	
55.0				22.68	25.63	28.75	32.00	35.29	38.58	
60.0					26.05	29.50	33.09	36.77		
62.0					26.19	29.76	33.50	37.33		

Cond °C	Suction Mass Flow, g/s									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	58.20	77.10	101.00	131.00	167.00	209.00				
10.0	57.60	76.70	101.00	131.00	167.00	209.00	259.00			
15.0	56.30	75.60	100.00	130.00	166.00	209.00	258.00	316.00	383.00	
20.0	54.40	73.80	98.30	128.00	164.00	207.00	257.00	314.00	381.00	457.00
25.0	51.90	71.50	95.80	125.50	161.50	204.00	254.00	311.00	378.00	454.00
30.0	49.00	68.50	92.80	122.50	158.50	201.00	250.00	308.00	374.00	451.00
35.0	45.80	65.20	89.40	119.00	154.50	196.50	246.00	303.00	370.00	446.00
40.0	42.40	61.60	85.60	114.50	150.00	191.50	241.00	298.00	364.00	441.00
45.0		58.00	81.50	110.50	145.00	186.50	235.00	292.00	358.00	435.00
50.0			77.50	106.00	140.00	180.50	229.00	286.00	352.00	
55.0				101.50	135.00	175.00	223.00	279.00	345.00	
60.0					130.00	169.50	217.00	273.00		
62.0					128.00	167.50	215.00	270.00		

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, m <sup>3</sup> /h	87.7
Bore/Stroke, mm	75.7/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	183
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 (LT), dBA	77
Sound Power (LT), dBA	88
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
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
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	44.5
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Sensor
Copeland Compressor Electronic (-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
Additional Cooling	Demand Cooling (Driver XEV01D)
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Mounting Parts	Rubber
Copeland Compressor Electronic 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	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