



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return — 0 °C Suction Gas Return
- 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	7.0
10.0	20.20	26.60	34.60	44.30	56.00	69.80	86.00	105.00				
15.0	18.65	24.90	32.60	41.90	53.10	66.20	81.60	99.40	120.00			
20.0	17.10	23.20	30.60	39.50	50.00	62.50	77.10	93.90	113.50	135.50	160.50	
25.0	15.45	21.40	28.40	36.90	46.90	58.60	72.40	88.30	106.50	127.50	151.00	161.50
30.0		19.50	26.30	34.20	43.60	54.70	67.50	82.50	99.60	119.50	141.50	151.50
35.0		17.60	24.00	31.50	40.30	50.60	62.60	76.50	92.60	111.00	132.00	141.00
40.0			21.70	28.70	36.80	46.40	57.50	70.40	85.30	102.50	122.00	130.50
45.0			19.35	25.80	33.30	42.10	52.30	64.20	78.00	93.80	112.00	120.00
50.0				22.90	29.80	37.80	47.10	57.90	70.50	85.00	101.50	109.00
55.0				20.00	26.20	33.40	41.80	51.50	62.90	76.10	91.30	97.90
60.0					22.60	28.90	36.40	45.10	55.20	67.00	80.70	
62.0					21.10	27.10	34.20	42.40	52.10	63.40		

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	7.0
10.0	9.65	11.00	12.20	13.30	14.25	14.95	15.35	15.55				
15.0	9.93	11.45	12.90	14.20	15.35	16.30	17.00	17.45	17.55			
20.0	10.15	11.85	13.50	15.00	16.40	17.60	18.60	19.30	19.70	19.80	19.50	
25.0	10.25	12.15	14.00	15.75	17.40	18.85	20.10	21.10	21.80	22.20	22.30	22.20
30.0		12.40	14.45	16.45	18.30	20.00	21.50	22.80	23.80	24.60	24.90	25.00
35.0		12.60	14.85	17.05	19.15	21.10	22.90	24.50	25.80	26.80	27.50	27.70
40.0			15.20	17.60	19.95	22.20	24.20	26.10	27.70	29.10	30.10	30.40
45.0			15.40	18.05	20.70	23.10	25.50	27.60	29.50	31.20	32.60	33.00
50.0				18.45	21.30	24.00	26.60	29.10	31.30	33.30	35.00	35.60
55.0				18.80	21.90	24.90	27.70	30.50	33.00	35.30	37.40	38.10
60.0					22.40	25.60	28.80	31.80	34.60	37.30	39.70	
62.0					22.50	25.90	29.20	32.30	35.30	38.00		

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	7.0
10.0	28.62	29.75	30.90	31.99	32.97	33.75	34.27	34.45				
15.0	28.86	30.17	31.54	32.87	34.12	35.19	36.03	36.57	36.72			
20.0	29.03	30.55	32.15	33.75	35.27	36.66	37.84	38.73	39.27	39.39	39.02	
25.0	29.12	30.87	32.71	34.59	36.42	38.13	39.66	40.93	41.88	42.43	42.51	42.39
30.0		31.10	33.21	35.38	37.53	39.58	41.48	43.15	44.52	45.52	46.07	46.15
35.0		31.23	33.62	36.10	38.58	41.00	43.29	45.37	47.18	48.64	49.68	49.96
40.0			33.93	36.73	39.57	42.37	45.06	47.57	49.83	51.77	53.31	53.81
45.0			34.11	37.26	40.46	43.66	46.77	49.72	52.45	54.89	56.96	57.67
50.0				37.66	41.25	44.85	48.40	51.82	55.04	57.99	60.60	61.53
55.0				37.92	41.91	45.94	49.94	53.83	57.56	61.04	64.21	65.37
60.0					42.42	46.89	51.36	55.75	60.00	64.03	67.77	
62.0					42.57	47.23	51.89	56.49	60.95	65.20		

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	7.0
10.0	113.00	149.00	194.50	250.00	318.00	398.00	493.00	605.00				
15.0	109.00	146.00	191.50	247.00	314.00	394.00	488.00	600.00	729.00			
20.0	104.00	142.00	187.50	243.00	309.00	389.00	483.00	593.00	722.00	872.00	1047.00	
25.0	98.90	137.00	183.00	238.00	304.00	383.00	476.00	585.00	713.00	863.00	1037.00	1115.00
30.0		131.50	177.50	233.00	298.00	376.00	468.00	576.00	703.00	852.00	1026.00	1104.00
35.0		125.50	171.50	226.00	291.00	368.00	459.00	566.00	692.00	840.00	1014.00	1092.00
40.0			165.00	219.00	283.00	359.00	448.00	554.00	679.00	827.00	1001.00	1079.00
45.0			157.00	211.00	274.00	349.00	437.00	542.00	666.00	813.00	987.00	1066.00
50.0				202.00	264.00	338.00	425.00	528.00	652.00	798.00	973.00	1052.00
55.0				192.00	253.00	326.00	412.00	514.00	637.00	784.00	961.00	1041.00
60.0					242.00	314.00	399.00	501.00	624.00	773.00	953.00	
62.0					238.00	309.00	394.00	496.00	620.00	770.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	219
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	78
Sound Power (LT), dBA	89
Sound Power with Sound Shell (LT), dBA	73
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	70
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	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	71.4
Locked Rotor Current, A	321
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
Capacity Control	Capacity Steps 67/33 %
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
Digital Modulation	33-100 %
Discharge Shut-off	Angle valve
Copeland Compressor Electronic module	Modbus extension module

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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