



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	41.60	53.00	67.00									
15.0	39.10	50.00	63.60	79.90								
20.0	36.50	47.10	60.00	75.70	94.50							
25.0	33.90	44.10	56.50	71.50	89.50	110.50	120.00					
30.0	31.40	41.00	52.90	67.20	84.40	104.50	113.50	128.50	141.50			
35.0	28.80	38.00	49.30	62.90	79.20	98.50	107.00	121.00	133.50	147.00		
40.0	26.20	35.00	45.70	58.60	74.00	92.30	100.50	114.00	126.00	138.50	167.50	200.00
45.0	23.70	32.00	42.10	54.20	68.80	86.10	93.90	106.50	118.00	130.00	157.50	189.00
50.0	21.20	29.00	38.50	49.90	63.60	79.90	87.20	99.10	110.00	121.50	147.50	177.50
55.0	18.80	26.10	34.90	45.60	58.40	73.70	80.50	91.70	102.00	113.00	137.50	165.50
60.0		23.20	31.40	41.20	53.10	67.40	73.80	84.30	93.80	104.00	127.50	154.00
65.0			27.90	36.90	47.90	61.10	67.10	76.90	85.80	95.40	117.00	142.50
70.0			24.40	32.70	42.70	54.90	60.40	69.40	77.70	86.70	107.00	130.50
75.0				28.50	37.60	48.70	53.70	62.00	69.60	77.90	96.80	119.00
80.0				24.30	32.50	42.50	47.00	54.60	61.60	69.20	86.50	107.00

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	11.20	11.75	12.00									
15.0	12.05	12.90	13.45	13.70								
20.0	12.85	13.90	14.75	15.30	15.50							
25.0	13.50	14.80	15.95	16.80	17.35	17.50	17.45					
30.0	14.15	15.60	17.00	18.15	19.05	19.60	19.70	19.70	19.60			
35.0	14.65	16.30	17.90	19.40	20.60	21.60	21.80	22.10	22.20	22.20		
40.0	15.15	16.95	18.75	20.50	22.00	23.30	23.80	24.30	24.60	24.80	24.80	24.30
45.0	15.60	17.55	19.50	21.50	23.30	25.00	25.50	26.30	26.80	27.30	27.80	27.80
50.0	16.00	18.05	20.20	22.40	24.50	26.40	27.20	28.20	28.90	29.60	30.60	31.10
55.0	16.40	18.55	20.80	23.20	25.50	27.80	28.70	29.90	30.80	31.70	33.10	34.20
60.0		19.00	21.40	23.90	26.50	29.00	30.00	31.50	32.60	33.60	35.50	37.00
65.0			21.90	24.60	27.40	30.20	31.30	32.90	34.20	35.50	37.80	39.70
70.0			22.50	25.30	28.20	31.20	32.50	34.20	35.70	37.10	39.80	42.30
75.0				25.90	29.00	32.20	33.50	35.50	37.10	38.70	41.80	44.60
80.0				26.50	29.70	33.10	34.50	36.60	38.40	40.20	43.60	46.80

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	38.09	38.58	38.84									
15.0	38.76	39.42	39.90	40.13								
20.0	39.39	40.23	40.95	41.46	41.66							
25.0	39.99	41.01	41.97	42.76	43.30	43.48	43.44					
30.0	40.54	41.76	42.95	44.03	44.91	45.49	45.62	45.67	45.59			
35.0	41.05	42.45	43.89	45.27	46.49	47.46	47.76	48.09	48.25	48.29		
40.0	41.49	43.09	44.78	46.45	48.02	49.39	49.87	50.48	50.88	51.17	51.39	51.03
45.0	41.87	43.67	45.60	47.58	49.50	51.28	51.93	52.81	53.46	54.01	54.79	55.04
50.0	42.16	44.17	46.36	48.64	50.92	53.10	53.93	55.10	55.99	56.81	58.14	59.00
55.0	42.38	44.59	47.04	49.63	52.27	54.87	55.87	57.32	58.47	59.54	61.44	62.91
60.0		44.92	47.64	50.54	53.54	56.55	57.74	59.47	60.87	62.21	64.67	66.76
65.0			48.13	51.36	54.73	58.16	59.52	61.55	63.20	64.81	67.84	70.55
70.0			48.53	52.08	55.82	59.67	61.22	63.53	65.44	67.32	70.93	74.27
75.0				52.69	56.81	61.09	62.82	65.43	67.59	69.74	73.93	77.89
80.0				53.18	57.69	62.39	64.32	67.22	69.64	72.06	76.83	81.43

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	230.00	288.00	358.00									
15.0	225.00	283.00	352.00	435.00								
20.0	219.00	277.00	347.00	429.00	526.00							
25.0	213.00	271.00	340.00	422.00	519.00	630.00	679.00					
30.0	206.00	264.00	333.00	415.00	510.00	621.00	670.00	748.00	817.00			
35.0	198.50	257.00	325.00	407.00	502.00	611.00	660.00	737.00	807.00	880.00		
40.0	191.00	249.00	317.00	398.00	492.00	601.00	649.00	726.00	795.00	868.00	1029.00	1209.00
45.0	182.50	240.00	309.00	389.00	482.00	590.00	638.00	714.00	782.00	855.00	1015.00	1194.00
50.0	174.00	232.00	299.00	378.00	471.00	578.00	625.00	701.00	769.00	841.00	1000.00	1179.00
55.0	164.50	222.00	289.00	367.00	459.00	565.00	612.00	687.00	754.00	826.00	985.00	1163.00
60.0		212.00	278.00	356.00	446.00	551.00	597.00	672.00	739.00	811.00	968.00	1146.00
65.0			267.00	343.00	432.00	536.00	582.00	656.00	723.00	794.00	951.00	1128.00
70.0			255.00	330.00	418.00	521.00	566.00	639.00	706.00	776.00	933.00	1110.00
75.0				316.00	403.00	504.00	549.00	622.00	688.00	759.00	915.00	1093.00
80.0				301.00	387.00	487.00	532.00	605.00	670.00	741.00	898.00	1077.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/h	153
Bore/Stroke, mm	80.6/57.5
Length/Width, mm	773/547
Height, mm	450
Net Weight, kg	236
Suction, inch	2 5/8
Discharge, inch	1 5/8
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	75
Sound Power (MT), dBA	86
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
Digital Modulation	33-100%
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	92.9
Locked Rotor Current, A	393
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
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

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Digital Modulation	33-66%
Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
Oil Pressure Switch	OPS2 Electronic Switch
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
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	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
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