

Emerson Climate Technologies
Integrated Products Division



60Hz Air - Cooled Unit Performance

Release Date:01/11/2017

Unit Model: M6KP-0075-CAV-072
Compressor: RST55C1E-CAV-104
Condenser: 066-0304-03 x 1
Fan Motor: 050-0344-00 x 1
Fan Blade: 083-0160-00 x 1
Unit Dimensions: 24.00``L x 16.39``W x 13.08``H

Refrigerant R-404A
Return Gas Temp. (°F): 40
Subcooling (°F): 5
Air Flow Rate (CFM) 680
Fan Motor Power (Watt): 115
Unit Dwg. No: 496-7145-05

Performance: 90°F Ambient Air Temperature

<u>Evap Temp</u> (°F)	<u>Capacity</u> (Btu/hr):	<u>Power</u> (Watts):	<u>EER</u> (Btu/Wh):	<u>Cond. Temp.</u> (°F)	<u>Temp. Diff.</u> (°F)	<u>Refr. Pd.</u> (Psi)
-25	2,300	696	3.3	100.1	10.1	1.7
-20	2,590	727	3.6	101.0	11.0	1.9
-15	2,920	762	3.8	102.1	12.1	2.2
-10	3,290	803	4.1	103.3	13.3	2.6
-5	3,690	848	4.4	104.7	14.7	3.0
0	4,130	896	4.6	106.2	16.2	3.6
5	4,590	947	4.8	107.8	17.8	4.3
10	5,080	1,000	5.1	109.5	19.5	5.2
15	5,590	1,054	5.3	111.2	21.2	6.2
20	6,120	1,109	5.5	113.1	23.1	7.4
25	6,660	1,165	5.7	115.0	25.0	8.8
30	7,210	1,215	5.9	116.9	26.9	10.3

Performance: 100°F Ambient Air Temperature

<u>Evap Temp</u> (°F)	<u>Capacity</u> (Btu/hr):	<u>Power</u> (Watts):	<u>EER</u> (Btu/Wh):	<u>Cond. Temp.</u> (°F)	<u>Temp. Diff.</u> (°F)	<u>Refr. Pd.</u> (Psi)
-25	2,000	728	2.7	110.1	10.1	0.8
-20	2,250	761	3.0	110.8	10.8	1.3
-15	2,540	799	3.2	111.7	11.7	1.8
-10	2,870	841	3.4	112.7	12.7	2.4
-5	3,240	887	3.7	113.9	13.9	3.2
0	3,640	936	3.9	115.1	15.1	4.0
5	4,070	987	4.1	116.5	16.5	4.9
10	4,520	1,039	4.4	118.0	18.0	6.0
15	4,990	1,092	4.6	119.5	19.5	7.2
20	5,480	1,145	4.8	121.1	21.1	8.5
25	5,980	1,195	5.0	122.9	22.9	10.0
30	6,490	1,245	5.2	124.7	24.7	11.5

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Performance: 110°F Ambient Air Temperature

<u>Evap. Temp</u> (°F)	<u>Capacity</u> (Btu/hr):	<u>Power</u> (Watts):	<u>EER</u> (Btu/Wh):	<u>Cond. Temp.</u> (°F)	<u>Temp. Diff.</u> (°F)	<u>Refr. Pd.</u> (Psi)
-25	1,730	747	2.3	119.8	9.8	1.5
-20	1,940	783	2.5	120.4	10.4	1.9
-15	2,190	823	2.7	121.2	11.2	2.4
-10	2,490	867	2.9	122.0	12.0	3.0
-5	2,810	913	3.1	123.0	13.0	3.7
0	3,170	962	3.3	124.1	14.1	4.5
5	3,550	1,013	3.5	125.3	15.3	5.5
10	3,960	1,064	3.7	126.6	16.6	6.6
15	4,390	1,115	3.9	128.0	18.0	7.8
20	4,830	1,165	4.1	129.6	19.6	9.2
25	5,280	1,215	4.3	131.2	21.2	10.7
30	5,740	1,265	4.5	132.9	22.9	12.5

Performance: 120°F Ambient Air Temperature

<u>Evap. Temp</u> (°F)	<u>Capacity</u> (Btu/hr):	<u>Power</u> (Watts):	<u>EER</u> (Btu/Wh):	<u>Cond. Temp.</u> (°F)	<u>Temp. Diff.</u> (°F)	<u>Refr. Pd.</u> (Psi)
-15	1,890	834	2.3	130.5	10.5	2.7
-10	2,140	878	2.4	131.3	11.3	3.9
-5	2,420	925	2.6	132.2	12.2	5.2
0	2,730	974	2.8	133.2	13.2	6.8
5	3,060	1,025	3.0	134.4	14.4	8.4
10	3,410	1,075	3.2	135.7	15.7	10.3
15	3,780	1,125	3.4	137.2	17.2	12.3
20	4,160	1,175	3.5	138.9	18.9	14.5

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