



# EXTENDED RATINGS

## Indoor Unit

**MODELS:**

ENVBR24HPJ1IB  
ENVBR36HPJ1IB  
ENVBR48HPJ1IB  
ENVBR60HPJ1IB

## Outdoor Unit

**MODELS:**

ENVBR36HPJ10A  
ENVBR60HPJ10A

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Please go through this Extended Ratings to design  
your project and retain it for future reference.

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**EXTENDED RATINGS**

**ENVBR24HPJ1B / ENVBR36HPJ10A**

**COOLING PERFORMANCE**

Outdoor Ambient Temperature (DB)	Return Air Temperature																				
	70°F (DB) / 59°F (WB)					75°F (DB) / 63°F (WB)					80°F (DB) / 67°F (WB)					90°F (DB) / 73°F (WB)					
	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	
<b>MAX OUTPUT*</b>	-20°F																				
	-15°F																				
	-10°F																				
	-5°F																				
	0°F																				
	5°F	20400	16023	78.54%	20.40	1000	22200	17551	79.02%	21.14	1050	24000	19078	79.49%	21.82	1100	25300	20178	79.75%	21.94	1153
	10°F	20400	16052	78.69%	19.81	1030	22200	17569	79.10%	20.56	1080	24000	19085	79.52%	21.24	1130	25300	20185	79.78%	21.39	1183
	15°F	20400	16125	79.04%	19.07	1070	22200	17569	79.13%	19.91	1115	24000	19012	79.22%	20.69	1160	25300	20112	79.49%	20.86	1213
	20°F	20400	16098	78.91%	18.38	1110	22200	17565	79.11%	19.30	1150	24000	19032	79.30%	20.17	1190	25300	20132	79.57%	20.35	1243
	25°F	20400	16256	79.69%	17.74	1150	22200	17695	79.71%	18.73	1185	24000	19134	79.73%	19.67	1220	25300	20234	79.98%	19.87	1273
	30°F	20400	16012	78.49%	17.29	1180	22200	17534	78.95%	18.27	1215	24000	19056	79.40%	19.20	1250	25300	20156	79.67%	19.42	1303
	35°F	20400	16103	78.94%	16.86	1210	22200	17612	79.30%	17.83	1245	24000	19120	79.67%	18.75	1280	25300	20220	79.92%	18.98	1333
	40°F	20400	16065	78.75%	16.32	1250	22200	17558	79.06%	17.34	1280	24000	19050	79.38%	18.32	1310	25300	20150	79.64%	18.56	1363
	45°F	20400	16203	79.43%	15.81	1290	22200	17667	79.57%	16.88	1315	24000	19130	79.71%	17.91	1340	25300	20230	79.96%	18.16	1393
	50°F	20400	16014	78.50%	15.45	1320	22200	17427	78.50%	16.51	1345	24000	18840	78.50%	17.52	1370	25300	19940	78.81%	17.78	1423
	55°F	20400	16158	79.21%	15.11	1350	22200	17604	79.29%	16.17	1372.5	24000	19050	79.38%	17.20	1395	25300	20150	79.64%	17.47	1448
	60°F	20400	16243	79.62%	14.84	1375	22200	17682	79.64%	15.89	1397.5	24000	19120	79.67%	16.90	1420	25300	20220	79.92%	17.18	1473
	65°F	20400	16320	80.00%	14.57	1400	22200	17760	80.00%	15.58	1425	24000	19200	80.00%	16.55	1450	25300	20300	80.24%	16.83	1503
	70°F	20400	16219	79.50%	13.97	1460	22200	17697	79.70%	15.05	1475	24000	19175	79.90%	16.11	1490	25300	20275	80.14%	16.40	1543
	75°F	20400	16279	79.80%	13.42	1520	22200	17716	79.80%	14.56	1525	24000	19152	79.80%	15.69	1530	25300	20252	80.05%	15.98	1583
	80°F	20400	16217	79.50%	12.67	1610	22450	17902	79.72%	13.56	1655	24500	19587	79.95%	14.41	1700	25800	20687	80.18%	14.72	1753
	85°F	20400	16218	79.50%	11.93	1710	22700	18047	79.50%	12.68	1790	25000	19875	79.50%	13.37	1870	26300	20975	79.75%	13.68	1923
	90°F	20400	16257	79.69%	11.40	1790	22700	18104	79.75%	11.95	1900	24500	19950	79.80%	12.56	1950	26300	21050	80.04%	12.75	2063
95°F	20400	16320	80.00%	11.03	1850	22700	18160	80.00%	11.35	2000	24000	19700	82.08%	12.00	2000	26300	21100	80.23%	11.94	2203	
100°F	20400	16245	79.63%	9.76	2090	22450	17873	79.61%	10.37	2165	24000	19500	79.59%	11.21	2140	25800	20600	79.84%	11.25	2293	
105°F	20400	16116	79.00%	9.07	2250	22200	17538	79.00%	9.67	2295	24000	18960	79.00%	10.26	2340	25300	20060	79.29%	10.57	2393	
110°F	20400	16362	80.21%	8.41	2425	22200	17796	80.17%	8.98	2472.5	24000	19230	80.13%	9.52	2520	25300	20330	80.36%	9.83	2573	
115°F	20400	16524	81.00%	7.85	2600	22200	17982	81.00%	8.38	2650	24000	19440	81.00%	8.89	2700	25300	20540	81.19%	9.19	2753	
120°F	20400	16250	79.66%	7.42	2750	22200	17875	80.45%	7.91	2805	24000	19500	81.25%	8.39	2860	25300	20600	81.42%	8.69	2913	
122°F	20400	16283	79.82%	7.06	2890	22200	17802	80.16%	7.51	2955	24000	19321	80.50%	7.95	3020	25300	20421	80.72%	8.23	3073	
125°F	20400	16542	81.09%	6.69	3050	22200	17784	80.18%	7.23	3070	24000	19025	79.27%	7.77	3090	25300	20125	79.55%	8.05	3143	
129°F	20400	16345	80.12%	6.20	3290	22200	17903	80.60%	6.76	3285	24000	19460	81.08%	7.32	3280	25300	20560	81.26%	7.59	3333	

\*Maximum Output values are not based on AHRI test conditions

- LEGEND:** W - Watts  
 DB - Dry Bulb  
 TC - Total Capacity  
 SC - Total Capacity  
 SHR - Sensible Heat Ratio  
 COP - Coefficient of Performance

**EXTENDED RATINGS**

**ENVBR24HPJ1IB / ENVBR36HPJ1OA**

<b>HEATING PERFORMANCE</b>														
Outdoor Ambient Temperature			Return Air Temperature											
			70°F (DB)			75°F (DB)			80°F (DB)			90°F (DB)		
			TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)
<b>MAX OUTPUT*</b>	DB	WB												
	-22°F	-22.5°F	18700	1.40	3920	18700	1.40	3920	18700	1.40	3920	20000	1.48	3973
	-20°F	-20.5°F	20500	1.52	3960	20450	1.51	3960	20400	1.51	3960	21700	1.58	4013
	-15°F	-16°F	21000	1.54	4000	22000	1.61	4000	22000	1.61	4000	23300	1.68	4053
	-10°F	-11°F	22000	1.57	4100	23000	1.64	4100	23000	1.64	4100	24300	1.71	4153
	-5°F	-6°F	22000	1.70	3790	24000	1.67	4200	24000	1.67	4200	25300	1.74	4253
	0°F	-1°F	22000	1.75	3680	24000	1.85	3800	24000	1.85	3800	25300	1.92	3853
	5°F	3°F	22000	1.80	3580	24000	2.10	3350	24000	2.10	3350	25300	2.18	3403
	10°F	8°F	23000	2.04	3300	24000	2.20	3195	24000	2.21	3190	25300	2.29	3243
	15°F	13°F	24000	2.23	3150	24000	2.31	3045	24000	2.31	3040	25300	2.40	3093
	17°F	15°F	24000	2.43	2900	24000	2.43	2900	24000	2.43	2900	25300	2.51	2953
	20°F	17°F	24000	2.61	2700	24000	2.61	2700	24000	2.61	2700	25300	2.69	2753
	25°F	22°F	24000	2.81	2500	24000	2.81	2500	24000	2.81	2500	25300	2.90	2553
	30°F	27°F	24000	3.06	2300	24000	3.06	2300	24000	3.06	2300	25300	3.15	2353
	35°F	33°F	24000	3.20	2200	24000	3.20	2200	24000	3.20	2200	25300	3.29	2253
	40°F	36°F	24000	3.32	2120	24000	3.32	2120	24000	3.32	2120	25300	3.41	2173
	45°F	41°F	24000	3.37	2090	24500	3.50	2050	25000	3.57	2050	26300	3.67	2103
	47°F	43°F	24000	3.40	2070	26000	3.85	1980	26000	3.85	1980	27300	3.94	2033
50°F	46°F	26800	3.79	2070	26750	3.89	2015	26700	3.89	2010	28000	3.98	2063	
55°F	50°F	27400	3.90	2060	27400	3.91	2055	27400	3.92	2050	28700	4.00	2103	
60°F	55°F	28000	3.91	2100	28000	3.91	2100	28000	3.91	2100	29300	3.99	2153	
65°F	60°F	28000	3.83	2140	28000	3.95	2080	28000	4.06	2020	29300	4.14	2073	
70°F	64°F	28000	3.76	2180	28000	3.96	2070	28000	4.19	1960	29300	4.27	2013	
75°F	69°F	28000	3.71	2210	28000	3.99	2055	28000	4.32	1900	29300	4.40	1953	
80°F	74°F													
86°F	80°F													

\*Maximum Output values are not based on AHRI test conditions

**LEGEND: W - Watts**

**DB - Dry Bulb**

**TC - Total Capacity**

**SC - Total Capacity**

**SHR - Sensible Heat Ratio**

**COP - Coefficient of Performance**

EXTENDED RATINGS

ENVBR36HPJ1IB / ENVBR36HPJ10A

COOLING PERFORMANCE

Outdoor Ambient Temperature (DB)	Return Air Temperature																				
	70°F (DB) / 59°F (WB)					75°F (DB) / 63°F (WB)					80°F (DB) / 67°F (WB)					90°F (DB) / 73°F (WB)					
	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	
MAX OUTPUT*	-20°F																				
	-15°F																				
	-10°F																				
	-5°F																				
	0°F																				
	5°F	30600	21420	70.00%	14.57	2100	33300	23310	70.00%	15.49	2150.1	36000	25200	70.00%	16.36	2200	38000	27200	71.58%	16.52	2300.1
	10°F	30600	21420	70.00%	14.37	2130	33300	23310	70.00%	15.28	2180	36000	25200	70.00%	16.14	2230	38000	27200	71.58%	16.31	2330
	15°F	30600	21420	70.00%	14.10	2170	33300	23310	70.00%	15.03	2215	36000	25200	70.00%	15.93	2260	38000	27200	71.58%	16.10	2360
	20°F	30600	21420	70.00%	13.91	2200	33300	23310	70.00%	14.80	2250	36000	25200	70.00%	15.65	2300	38000	27200	71.58%	15.83	2400
	25°F	30600	21420	70.00%	13.72	2230	33300	23310	70.00%	14.61	2280	36000	25200	70.00%	15.45	2330	38000	27200	71.58%	15.64	2430
	30°F	30600	21420	70.00%	13.48	2270	33300	23310	70.00%	14.35	2320	36000	25200	70.00%	15.19	2370	38000	27200	71.58%	15.38	2470
	35°F	30600	21420	70.00%	13.30	2300	33300	23310	70.00%	14.17	2350	36000	25200	70.00%	15.00	2400	38000	27200	71.58%	15.20	2499.9
	40°F	30600	21420	70.00%	13.13	2330	33300	23310	70.00%	13.99	2380	36000	25200	70.00%	14.81	2430	38000	27200	71.58%	15.02	2530
	45°F	30600	21420	70.00%	12.91	2370	33300	23310	70.00%	13.76	2420	36000	25200	70.00%	14.57	2470	38000	27200	71.58%	14.79	2570
	50°F	30600	21420	70.00%	12.75	2400	33300	23310	70.00%	13.59	2450	36000	25200	70.00%	14.40	2500	38000	27200	71.58%	14.62	2600
	55°F	30600	21420	70.00%	12.59	2430	33300	23310	70.00%	13.43	2480	36000	25200	70.00%	14.23	2530	38000	27200	71.58%	14.45	2630
	60°F	30600	21420	70.00%	12.39	2470	33300	23310	70.00%	13.21	2520	36000	25200	70.00%	14.06	2560	38000	27200	71.58%	14.29	2660
	65°F	30600	21420	70.00%	12.24	2500	33300	23310	70.00%	13.06	2550	36000	25200	70.00%	13.85	2600	38000	27200	71.58%	14.07	2700
	70°F	30600	21390	69.90%	12.00	2550	33300	23270	69.88%	12.81	2600	36000	25160	69.89%	13.58	2650	38000	27160	71.47%	13.82	2750
	75°F	30600	21360	69.80%	11.77	2600	33300	23240	69.79%	12.57	2650	36000	25130	69.81%	13.33	2700	38000	27130	71.39%	13.57	2800
	80°F	30600	21310	69.64%	11.33	2700	33300	23360	70.15%	11.89	2800	36000	25420	70.61%	12.41	2900	38000	27420	72.16%	12.67	3000
	85°F	30600	21260	69.48%	10.93	2800	33800	23480	69.47%	11.46	2950	35500	25710	72.42%	11.45	3100	39000	27710	71.05%	12.19	3200
	90°F	30600	21340	69.74%	10.37	2950	33800	23570	69.73%	10.73	3150	35000	25300	72.29%	10.77	3250	39000	27800	71.28%	11.30	3450
95°F	30600	21420	70.00%	9.87	3100	33800	23660	70.00%	10.09	3350	34000	24800	72.94%	10.00	3400	39000	27900	71.54%	10.77	3620	
100°F	30600	21260	69.48%	8.20	3730	33300	23310	70.00%	8.63	3860	34000	24200	71.18%	9.44	3600	38000	27370	72.03%	9.45	4020	
105°F	30600	21110	68.99%	7.00	4370	33300	22970	68.98%	7.60	4380	34000	24000	70.59%	8.95	3800	38000	26840	70.63%	8.60	4420	
110°F	29320	20510	69.95%	6.95	4220	31910	22320	69.95%	7.54	4230	33500	23800	71.04%	8.38	4000	36500	26130	71.59%	8.55	4270	
115°F	28050	19920	71.02%	6.88	4080	30525	21670	70.99%	7.46	4090	33000	23430	71.00%	8.05	4100	35000	25430	72.66%	8.50	4120	
120°F	27500	19620	71.35%	6.91	3980	29900	21260	71.10%	7.44	4020	32300	22900	70.90%	7.98	4050	34300	24900	72.59%	8.43	4070	
122°F	27000	19490	72.19%	6.96	3880	29250	21020	71.86%	7.46	3920	31500	22550	71.59%	7.97	3950	33500	24550	73.28%	8.44	3970	
125°F	26500	19320	72.91%	6.97	3800	28500	20560	72.14%	7.42	3840	30500	21800	71.48%	7.92	3850	32500	23800	73.23%	8.40	3870	
129°F	26000	19000	73.08%	6.93	3750	27750	20250	72.97%	7.40	3750	29500	21500	72.88%	7.87	3750	31500	23500	74.60%	8.36	3770	

\*Maximum Output values are not based on AHRI test conditions

- LEGEND: W - Watts  
 DB - Dry Bulb  
 TC - Total Capacity  
 SC - Total Capacity  
 SHR - Sensible Heat Ratio  
 COP - Coefficient of Performance

**EXTENDED RATINGS**

**ENVBR36HPJ11B / ENVBR36HPJ10A**

<b>HEATING PERFORMANCE</b>														
Outdoor Ambient Temperature			Return Air Temperature											
			70°F (DB)			75°F (DB)			80°F (DB)			90°F (DB)		
			TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)
<b>MAX OUTPUT*</b>	DB	WB												
	-22°F	-22.5°F	18400	1.30	4150	18200	1.28	4170	18000	1.26	4190	20000	1.34	4390
	-20°F	-20.5°F	19800	1.35	4290	19550	1.33	4310	19300	1.31	4330	21300	1.38	4530
	-15°F	-16°F	21100	1.40	4430	20850	1.37	4450	20600	1.35	4470	22600	1.42	4670
	-10°F	-11°F	23200	1.50	4530	22950	1.48	4550	22700	1.46	4570	24700	1.52	4770
	-5°F	-6°F	25200	1.60	4630	25000	1.58	4650	24800	1.56	4670	26800	1.61	4870
	0°F	-1°F	27600	1.71	4720	26500	1.62	4780	25400	1.68	4440	27400	1.73	4640
	5°F	3°F	28000	1.80	4550	28000	1.75	4700	26000	1.81	4200	28000	1.87	4400
	10°F	8°F	31450	2.10	4390	30250	1.87	4735	28000	1.87	4400	30000	1.91	4600
	15°F	13°F	34000	2.32	4300	32000	1.92	4890	30000	1.91	4600	32000	1.95	4800
	17°F	15°F	34500	2.35	4310	33500	1.92	5125	31000	1.89	4800	33000	1.93	5000
	20°F	17°F	35000	2.43	4220	34000	1.97	5070	32000	1.95	4820	34000	1.99	5020
	25°F	22°F	35000	2.50	4100	34250	2.02	4965	32500	1.98	4820	34500	2.01	5020
	30°F	27°F	35000	2.56	4000	34500	2.07	4875	33000	1.99	4850	35000	2.03	5050
	35°F	33°F	35000	2.65	3870	34700	2.23	4570	33000	2.15	4500	35000	2.18	4700
	40°F	36°F	35000	2.81	3650	34967	2.52	4060	33000	2.47	3920	35000	2.49	4120
	45°F	41°F	35000	2.94	3490	35144	2.90	3550	33000	2.90	3330	35000	2.91	3530
	47°F	43°F	35000	3.10	3310	35500	3.11	3350	33000	3.12	3100	35000	3.11	3300
	50°F	46°F	36000	3.15	3350	35500	3.20	3250	33000	3.22	3000	35000	3.21	3200
	55°F	50°F	37000	3.27	3320	35500	3.37	3085	33000	3.39	2850	35000	3.36	3050
60°F	55°F	38000	3.54	3150	34000	3.41	2925	30000	3.26	2700	32000	3.23	2900	
65°F	60°F	38000	3.71	3000	34000	3.56	2800	30000	3.38	2600	32000	3.35	2800	
70°F	64°F	38000	3.91	2850	34000	3.76	2650	30000	3.59	2450	32000	3.54	2650	
75°F	69°F	38000	3.99	2790	34000	3.85	2590	30000	3.68	2390	32000	3.62	2590	
80°F	74°F													
86°F	80°F													

\*Maximum Output values are not based on AHRI test conditions

**LEGEND: W - Watts**

**DB - Dry Bulb**

**TC - Total Capacity**

**SC - Total Capacity**

**SHR - Sensible Heat Ratio**

**COP - Coefficient of Performance**

EXTENDED RATINGS

ENVBR48HPJ1IB / ENVBR60HPJ10A

COOLING PERFORMANCE

Outdoor Ambient Temperature (DB)	Return Air Temperature																			
	70°F (DB) / 59°F (WB)					75°F (DB) / 63°F (WB)					80°F (DB) / 67°F (WB)					90°F (DB) / 73°F (WB)				
	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)
-20°F																				
-15°F																				
-10°F																				
-5°F																				
0°F																				
5°F	40800	29154	71.46%	17.82	2290	44400	32097	72.29%	18.46	2405	48000	35040	73.00%	19.05	2520	50000	36440	72.88%	19.31	2590
10°F	40800	28974	71.01%	17.59	2320	44400	32007	72.09%	17.94	2475	48000	35040	73.00%	18.25	2630	50000	36440	72.88%	18.52	2700
15°F	40800	28956	70.97%	17.36	2350	44400	31998	72.07%	17.45	2545	48000	35040	73.00%	17.52	2740	50000	36440	72.88%	17.79	2810
20°F	40800	29276	71.75%	16.82	2425	44400	32158	72.43%	16.71	2657.5	48000	35040	73.00%	16.61	2890	50000	36440	72.88%	16.89	2960
25°F	40800	29136	71.41%	16.13	2530	44400	32088	72.27%	16.01	2772.5	48000	35040	73.00%	15.92	3015	50000	36440	72.88%	16.21	3085
30°F	40800	29086	71.29%	15.45	2640	44400	32063	72.21%	15.50	2865	48000	35040	73.00%	15.53	3090	50000	36440	72.88%	15.82	3160
35°F	40800	29187	71.54%	14.95	2730	44400	32114	72.33%	15.09	2942.5	48000	35040	73.00%	15.21	3155	50000	36440	72.88%	15.50	3225
40°F	40800	29256	71.71%	14.52	2810	44400	32148	72.41%	14.70	3020	48000	35040	73.00%	14.86	3230	50000	36440	72.88%	15.15	3300
45°F	40800	28964	70.99%	14.02	2910	44400	32002	72.08%	14.28	3110	48000	35040	73.00%	14.50	3310	50000	36440	72.88%	14.79	3380
50°F	40800	28968	71.00%	13.60	3000	44400	32004	72.08%	13.88	3200	48000	35040	73.00%	14.12	3400	50000	36440	72.88%	14.41	3470
55°F	40800	29543	72.41%	12.75	3200	44400	32292	72.73%	13.25	3350	48000	35040	73.00%	13.71	3500	50000	36440	72.88%	14.01	3570
60°F	40800	29453	72.19%	12.00	3400	44400	32247	72.63%	12.64	3512.5	48000	35040	73.00%	13.24	3625	50000	36440	72.88%	13.53	3695
65°F	40800	29784	73.00%	11.46	3560	44400	32412	73.00%	12.15	3655	48000	35040	73.00%	12.80	3750	50000	36440	72.88%	13.09	3820
70°F	40800	29874	73.22%	11.33	3600	44400	32339	72.84%	12.00	3700	48000	34804	72.51%	12.63	3800	50000	36204	72.41%	12.92	3870
75°F	40800	29294	71.80%	11.18	3650	44400	31879	71.80%	11.84	3750	48000	34464	71.80%	12.47	3850	50000	35864	71.73%	12.76	3920
80°F	40800	29824	73.10%	10.88	3750	44650	32462	72.70%	11.55	3865	48000	35100	72.37%	12.19	3980	50500	36500	72.28%	12.47	4050
85°F	40800	29580	72.50%	10.60	3850	44850	32516	72.50%	11.28	3975	48000	35450	72.50%	11.93	4100	50900	36852.5	72.40%	12.21	4170
90°F	40800	29236	71.66%	10.23	3990	44850	32368	72.17%	10.67	4205	48000	35500	72.60%	11.19	4290	50900	36900	72.50%	11.34	4490
95°F	40800	29784	73.00%	9.88	4130	44850	32741	73.00%	10.14	4425	48000	35697	74.37%	10.98	4370	50900	37097	72.88%	10.63	4790
100°F	40800	29035	71.16%	8.91	4580	44600	32068	71.90%	9.32	4785	47000	34400	73.19%	9.61	4890	50400	36500	72.42%	9.96	5060
105°F	40800	28968	71.00%	8.41	4850	44400	31524	71.00%	9.61	5000	46000	33380	72.57%	9.02	5100	50000	35480	70.96%	9.61	5170
110°F	37500	27400	73.07%	7.70	4870	41400	30200	72.95%	8.32	4975	45300	33000	72.85%	8.92	5080	47300	34400	72.73%	9.18	5150
115°F	35400	26196	74.00%	7.52	4710	39450	29193	74.00%	8.24	4785	43500	32190	74.00%	8.95	4860	45500	33590	73.82%	9.23	4930
120°F	33000	24542	74.37%	7.32	4510	37250	27846	74.75%	8.14	4575	41500	31150	75.06%	8.94	4640	43500	32550	74.83%	9.24	4710
122°F	31500	23465	74.49%	7.33	4300	35250	26758	75.91%	8.08	4360	39000	30050	77.05%	8.82	4420	41000	31450	76.71%	9.13	4490
125°F	30000	22453	74.84%	7.30	4110	33750	25677	76.08%	8.12	4155	37500	28900	77.07%	8.93	4200	39500	30300	76.71%	9.25	4270
129°F	29000	21754	75.01%	7.40	3920	32500	24777	76.24%	8.21	3960	36000	27800	77.22%	9.00	4000	38000	29200	76.84%	9.34	4070

\*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts  
 DB - Dry Bulb  
 TC - Total Capacity  
 SC - Total Capacity  
 SHR - Sensible Heat Ratio  
 COP - Coefficient of Performance

**EXTENDED RATINGS**

**ENVBR48HPJ1IB / ENVBR60HPJ1OA**

<b>HEATING PERFORMANCE</b>														
Outdoor Ambient Temperature			Return Air Temperature											
			70°F (DB)			75°F (DB)			80°F (DB)			90°F (DB)		
			TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)
<b>MAX OUTPUT*</b>	DB	WB												
	-22°F	-22.5°F	26400	1.36	5700	26100	1.34	5725	25800	1.32	5750	25300	1.27	5820
	-20°F	-20.5°F	27450	1.39	5800	27175	1.37	5825	26900	1.35	5850	26400	1.31	5920
	-15°F	-16°F	28500	1.42	5900	28200	1.39	5930	27900	1.37	5960	27400	1.33	6030
	-10°F	-11°F	30900	1.50	6050	30800	1.48	6080	30700	1.47	6110	30200	1.43	6180
	-5°F	-6°F	34200	1.62	6200	33850	1.59	6230	33500	1.57	6260	33000	1.53	6330
	0°F	-1°F	38000	1.78	6260	37650	1.70	6510	36600	1.66	6460	36100	1.62	6530
	5°F	3°F	39000	1.80	6350	38500	1.75	6450	39700	1.75	6660	39200	1.71	6730
	10°F	8°F	43500	1.90	6705	42850	1.86	6748	41200	1.83	6590	40700	1.79	6660
	15°F	13°F	46200	2.02	6690	44150	1.91	6760	42100	1.89	6530	41600	1.85	6600
	17°F	15°F	48000	2.09	6730	46000	2.02	6680	44000	1.99	6480	43500	1.95	6550
	20°F	17°F	46000	2.12	6350	46500	2.16	6315	45000	2.10	6280	44500	2.05	6350
	25°F	22°F	48000	2.31	6090	47000	2.26	6085	46000	2.22	6080	45500	2.17	6150
	30°F	27°F	48000	2.43	5800	47500	2.39	5825	47000	2.35	5850	46500	2.30	5920
	35°F	33°F	48000	2.61	5400	47500	2.57	5425	47000	2.53	5450	46500	2.47	5520
	40°F	36°F	48000	2.81	5000	47600	2.82	4950	47200	2.82	4900	46700	2.75	4970
	45°F	41°F	48000	3.06	4600	47650	3.05	4575	47300	3.05	4550	46800	2.97	4620
	47°F	43°F	48000	3.41	4130	47750	3.28	4265	47500	3.22	4320	47000	3.14	4390
	50°F	46°F	50000	3.46	4230	49350	3.42	4225	48000	3.43	4100	47500	3.34	4170
	55°F	50°F	51400	3.35	4500	49950	3.51	4175	48500	3.69	3850	48000	3.59	3920
60°F	55°F	52000	3.28	4650	50500	3.59	4125	49000	3.99	3600	48500	3.87	3670	
65°F	60°F	52000	3.18	4800	50500	3.61	4100	49000	4.22	3400	48500	4.10	3470	
70°F	64°F	52000	3.08	4950	50500	3.63	4075	49000	4.49	3200	48500	4.35	3270	
75°F	69°F	52000	2.99	5100	50500	3.61	4100	49000	4.63	3100	48500	4.48	3170	
80°F	74°F													
86°F	80°F													

\*Maximum Output values are not based on AHRI test conditions

**LEGEND: W - Watts**

**DB - Dry Bulb**

**TC - Total Capacity**

**SC - Total Capacity**

**SHR - Sensible Heat Ratio**

**COP - Coefficient of Performance**

EXTENDED RATINGS

ENVBR60HPJ1IB / ENVBR60HPJ10A

COOLING PERFORMANCE

Outdoor Ambient Temperature (DB)		Return Air Temperature																			
		70°F (DB) / 59°F (WB)					75°F (DB) / 63°F (WB)					80°F (DB) / 67°F (WB)					90°F (DB) / 73°F (WB)				
		TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)
<b>MAX OUTPUT*</b>	-20°F																				
	-15°F																				
	-10°F																				
	-5°F																				
	0°F																				
	5°F	45900	32130	70.00%	14.76	3110	49950	34565	69.20%	16.59	3010	54000	37000	68.52%	18.56	2910	56000	38400	68.57%	18.79	2980
	10°F	45900	32130	70.00%	14.12	3250	49950	34565	69.20%	15.86	3150	54000	37000	68.52%	17.70	3050	56000	38400	68.57%	17.95	3120
	15°F	45900	32130	70.00%	13.58	3380	49950	34565	69.20%	15.28	3270	54000	37000	68.52%	17.09	3160	56000	38400	68.57%	17.34	3230
	20°F	45900	32130	70.00%	13.11	3500	49950	34565	69.20%	14.58	3425	54000	37000	68.52%	16.12	3350	56000	38400	68.57%	16.37	3420
	25°F	45900	32130	70.00%	12.75	3600	49950	34565	69.20%	14.03	3560	54000	37000	68.52%	15.34	3520	56000	38400	68.57%	15.60	3590
	30°F	45900	32130	70.00%	12.54	3660	49950	34565	69.20%	13.70	3645	54000	37000	68.52%	14.88	3630	56000	38400	68.57%	15.14	3700
	35°F	45900	32130	70.00%	12.31	3730	49950	34565	69.20%	13.37	3735	54000	37000	68.52%	14.44	3740	56000	38400	68.57%	14.70	3810
	40°F	45900	32130	70.00%	12.11	3790	49950	34565	69.20%	13.04	3830	54000	37000	68.52%	13.95	3870	56000	38400	68.57%	14.21	3940
	45°F	45900	32130	70.00%	11.92	3850	49950	34565	69.20%	12.74	3920	54000	37000	68.52%	13.53	3990	56000	38400	68.57%	13.79	4060
	50°F	45900	32130	70.00%	11.77	3900	49950	34560	69.19%	12.46	4010	54000	36990	68.50%	13.11	4120	56000	38390	68.55%	13.37	4190
	55°F	45900	32130	70.00%	11.65	3940	49950	34715	69.50%	12.33	4050	54000	37300	69.07%	12.98	4160	56000	38700	69.11%	13.24	4230
	60°F	45900	32130	70.00%	11.53	3980	49950	34815	69.70%	12.21	4090	54000	37500	69.44%	12.86	4200	56000	38900	69.46%	13.11	4270
	65°F	45900	32130	70.00%	11.39	4030	49950	34965	70.00%	12.07	4140	54000	37800	70.00%	12.71	4250	56000	39200	70.00%	12.96	4320
	70°F	45900	32080	69.89%	11.17	4110	49950	34915	69.90%	11.84	4220	54000	37750	69.91%	12.47	4330	56000	39150	69.91%	12.73	4400
	75°F	45900	32038	69.80%	10.98	4180	49950	34865	69.80%	11.64	4290	54000	37692	69.80%	12.27	4400	56000	39092	69.81%	12.53	4470
	80°F	45900	31950	69.61%	10.80	4250	50200	34950	69.62%	11.45	4385	54500	37950	69.63%	12.06	4520	56500	39350	69.65%	12.31	4590
85°F	45900	31901	69.50%	10.63	4320	50450	35063	69.50%	11.25	4485	55000	38225	69.50%	11.83	4650	57000	39625	69.52%	12.08	4720	
90°F	45900	23015	50.14%	10.09	4550	50450	30683	60.82%	10.53	4790	55000	38350	69.73%	10.93	5030	57000	39750	69.74%	11.18	5100	
95°F	45900	32130	70.00%	9.58	4790	50450	35315	70.00%	9.89	5100	54000	38500	70.00%	10.00	5400	57000	39900	70.00%	10.40	5480	
100°F	45900	31880	69.46%	8.42	5450	50200	34890	69.50%	8.69	5775	54000	37900	69.54%	8.85	6100	56500	39300	69.56%	9.16	6170	
105°F	45900	31671	69.00%	7.40	6200	49950	34466	69.00%	7.77	6425	54000	37260	69.00%	8.12	6650	56000	38660	69.04%	8.33	6720	
110°F	45900	28900	62.96%	8.20	5600	47950	32080	66.90%	8.20	5850	50000	35260	70.52%	8.20	6100	52000	36660	70.50%	8.43	6170	
115°F	36000	25560	71.00%	7.20	5000	41000	29110	71.00%	7.66	5350	46000	32660	71.00%	8.07	5700	48000	34060	70.96%	8.32	5770	
120°F	35000	25000	71.43%	7.29	4800	38500	28050	72.86%	7.48	5150	42000	31100	74.05%	7.64	5500	44000	32500	73.86%	7.90	5570	
122°F	34000	24500	72.06%	7.39	4600	37750	27600	73.11%	7.55	5000	41500	30700	73.98%	7.69	5400	43500	32100	73.79%	7.95	5470	
125°F	32000	23300	72.81%	7.44	4300	36400	26800	73.63%	7.58	4800	40800	30300	74.26%	7.70	5300	42800	31700	74.07%	7.97	5370	
129°F	30000	22700	75.67%	7.50	4000	29500	26800	90.85%	7.02	4200	29000	30900	106.55%	6.59	4400	31000	32300	104.19%	6.94	4470	

\*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts  
 DB - Dry Bulb  
 TC - Total Capacity  
 SC - Total Capacity  
 SHR - Sensible Heat Ratio  
 COP - Coefficient of Performance



**EXTENDED RATINGS**

**ENVBR60HPJ1IB / ENVBR60HPJ1OA**

<b>HEATING PERFORMANCE</b>														
Outdoor Ambient Temperature			Return Air Temperature											
			70°F (DB)			75°F (DB)			80°F (DB)			90°F (DB)		
			TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)	TC (Btu/h)	COP(W/W)	Power Input (W)
<b>MAX OUTPUT*</b>	DB	WB												
	-22°F	-22.5°F	27000	1.25	6350	26500	1.22	6380	26000	1.19	6410	27500	1.24	6490
	-20°F	-20.5°F	29500	2.46	3520	29000	1.70	5000	28500	1.29	6480	30000	1.34	6560
	-15°F	-16°F	32000	1.40	6700	31500	1.39	6630	31000	1.38	6560	32500	1.43	6640
	-10°F	-11°F	34500	1.48	6850	33750	1.88	5270	33000	1.45	6690	34500	1.49	6770
	-5°F	-6°F	37000	1.55	7000	36000	1.53	6910	35000	1.50	6820	36500	1.55	6900
	0°F	-1°F	40500	1.73	6880	39500	1.64	7040	38500	1.61	7000	40000	1.66	7080
	5°F	3°F	41000	1.80	6670	40000	1.72	6800	42000	1.72	7170	43500	1.76	7250
	10°F	8°F	44000	1.87	6900	43250	1.78	7105	43000	1.78	7070	44500	1.82	7150
	15°F	13°F	47250	1.94	7120	45625	1.90	7045	44000	1.85	6970	45500	1.89	7050
	17°F	15°F	49000	2.02	7100	47000	1.97	6985	45000	1.92	6870	46500	1.96	6950
	20°F	17°F	51000	2.17	6900	49000	2.10	6825	47000	2.04	6750	48500	2.08	6830
	25°F	22°F	53000	2.32	6700	51250	2.24	6700	49500	2.17	6700	51000	2.20	6780
	30°F	27°F	54000	2.43	6500	53000	2.36	6580	52000	2.29	6660	53500	2.33	6740
	35°F	33°F	54000	2.47	6400	53000	2.39	6500	52000	2.31	6600	53500	2.35	6680
	40°F	36°F	54000	2.51	6300	53400	2.54	6150	52000	2.54	6000	53500	2.58	6080
	45°F	41°F	54000	2.83	5600	53750	2.79	5650	52000	2.77	5500	53500	2.81	5580
	47°F	43°F	54000	3.10	5100	54000	3.06	5175	52000	3.02	5050	53500	3.06	5130
	50°F	46°F	56500	3.12	5300	54500	3.10	5150	52000	3.18	4800	53500	3.21	4880
	55°F	50°F	58500	3.15	5450	55250	3.19	5075	52000	3.31	4600	53500	3.35	4680
60°F	55°F	60000	3.26	5400	55000	3.29	4900	50000	3.33	4400	51500	3.37	4480	
65°F	60°F	60000	3.32	5300	55000	3.47	4650	50000	3.66	4000	51500	3.70	4080	
70°F	64°F	60000	3.38	5200	55000	3.66	4400	50000	4.07	3600	51500	4.10	3680	
75°F	69°F	60000	3.45	5100	55000	3.88	4150	50000	4.58	3200	51500	4.60	3280	
80°F	74°F													
86°F	80°F													

\*Maximum Output values are not based on AHRI test conditions

**LEGEND: W - Watts**

**DB - Dry Bulb**

**TC - Total Capacity**

**SC - Total Capacity**

**SHR - Sensible Heat Ratio**

**COP - Coefficient of Performance**



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