



EXTENDED RATINGS

Cooling Performance

ENV09HP230V1R32AH / ENV09HP230V1R32AO
ENV12HP230V1R32AH / ENV12HP230V1R32AO
ENV18HP230V1R32AH / ENV18HP230V1R32AO
ENV24HP230V1R32AH / ENV24HP230V1R32AO

Heating Performance

ENV09HP230V1R32AH / ENV09HP230V1R32AO
ENV12HP230V1R32AH / ENV12HP230V1R32AO
ENV18HP230V1R32AH / ENV18HP230V1R32AO
ENV24HP230V1R32AH / ENV24HP230V1R32AO

Thank you for choosing our product.
Please go through this Extended Ratings to design
your project and retain it for future reference.

To download an electric version visit
<https://www.greecomfort.com/our-products/envo>

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(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
MAX OUTPUT*	-20°F	7261	5264	73%	11.10	654	7780	5640	73%	11.51	676	8039	5828	73%	11.35	709	8817	6392	73%	11.56	763
	-15°F	7650	5546	73%	11.44	669	8169	5922	72%	11.60	704	8428	6110	73%	11.37	741	9206	6674	73%	11.27	817
	-10°F	7974	5801	73%	11.66	684	8493	6178	73%	11.80	720	8752	6367	73%	11.55	758	9530	6933	73%	11.41	835
	-5°F	8298	6058	73%	11.88	698	8817	6436	73%	11.99	735	9076	6626	73%	11.73	774	9854	7194	73%	11.55	853
	0°F	8428	6173	73%	11.82	713	8947	6553	73%	11.92	751	9206	6743	73%	11.65	790	9984	7313	73%	11.46	871
	5°F	8558	6290	74%	11.76	728	9076	6671	74%	11.84	766	9336	6862	74%	11.57	807	10113	7433	74%	11.37	889
	10°F	8752	6455	74%	11.78	743	9271	6837	74%	11.86	782	9530	7028	74%	11.58	823	10308	7602	74%	11.36	907
	15°F	8947	6620	74%	11.81	757	9465	7004	74%	11.87	797	9725	7196	74%	11.59	839	10502	7772	74%	11.35	925
	20°F	9076	6739	74%	11.75	772	9595	7124	74%	11.80	813	9854	7317	74%	11.52	856	10632	7894	74%	11.27	943
	25°F	9206	6858	75%	11.70	787	9725	7245	74%	11.74	828	9984	7438	75%	11.45	872	10762	8018	75%	11.19	961
	30°F	9530	7124	75%	11.89	802	10049	7511	75%	11.91	844	10308	7705	75%	11.60	888	11086	8287	75%	11.32	979
	35°F	9854	7391	75%	12.07	816	10373	7780	75%	12.07	859	10632	7974	75%	11.75	905	11410	8558	75%	11.44	997
	40°F	10049	7562	75%	12.09	831	10567	7952	75%	12.08	875	10827	8147	75%	11.75	921	11605	8732	75%	11.43	1015
	45°F	10243	7734	75%	12.11	846	10762	8125	75%	12.08	891	11021	8321	75%	11.76	937	11799	8908	76%	11.42	1033
	50°F	10567	8005	76%	12.28	861	11086	8398	76%	12.24	906	11345	8594	76%	11.90	954	12123	9183	76%	11.53	1052
	55°F	10891	8277	76%	12.44	876	11410	8672	76%	12.38	922	11669	8869	76%	12.03	970	12447	9460	76%	11.64	1070
	60°F	11216	8552	76%	12.60	890	11734	8947	76%	12.52	937	11994	9145	76%	12.16	986	12772	9738	76%	11.74	1088
	65°F	11540	8828	76%	12.75	905	12058	9225	76%	12.66	953	12318	9423	76%	12.28	1003	13096	10018	77%	11.84	1106
	70°F	12058	9255	77%	13.11	920	12577	9653	77%	12.99	968	12836	9852	77%	12.60	1019	13614	10449	77%	12.12	1124
	75°F	12577	9684	77%	13.46	935	13096	10084	77%	13.31	984	13355	10283	77%	12.90	1036	14133	10882	77%	12.38	1142
80°F	12772	9866	77%	13.45	949	13290	10267	77%	13.30	999	13549	10467	77%	12.88	1052	14327	11068	77%	12.35	1160	
85°F	12966	10049	78%	13.45	964	13485	10451	78%	13.29	1015	13744	10652	78%	12.87	1068	14522	11254	78%	12.33	1178	
90°F	12577	9779	78%	12.91	974	13096	10182	78%	12.77	1025	13355	10384	78%	12.38	1079	14133	10988	78%	11.88	1190	
95°F	12188	9507	78%	12.39	984	12707	9911	78%	12.27	1036	12966	10113	78%	11.90	1090	13744	10720	78%	11.44	1202	
100°F	11864	9283	78%	11.77	1008	12383	9689	78%	11.67	1061	12642	9892	78%	11.32	1117	13420	10501	78%	10.89	1232	
105°F	11540	9059	79%	11.17	1033	12058	9466	79%	11.09	1087	12318	9669	78%	10.76	1145	13096	10280	79%	10.38	1262	
110°F	11345	8934	79%	10.73	1058	11864	9343	79%	10.66	1113	12123	9547	79%	10.35	1172	12901	10160	79%	9.99	1292	
115°F	11151	8809	79%	10.30	1082	11669	9219	79%	10.24	1139	11929	9424	79%	9.95	1199	12707	10038	79%	9.61	1322	
120°F	10697	8477	79%	9.85	1086	11216	8888	79%	9.63	1165	11475	9094	79%	9.36	1226	12253	9710	79%	9.06	1352	
122°F	10243	8143	80%	9.40	1090	10762	8556	80%	9.04	1191	11021	8762	79%	8.79	1254	11799	9380	80%	8.54	1382	
125°F	9919	7910	80%	9.05	1095	10438	8324	80%	8.74	1195	10697	8531	80%	8.35	1281	11475	9151	80%	8.13	1412	
129°F	9595	7676	80%	8.72	1101	10113	8091	80%	8.43	1199	10373	8298	80%	7.93	1308	11151	8921	80%	7.73	1442	

*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

ENV09HP230V1R32AH / ENV09HP230V1R32AO

HEATING PERFORMANCE

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)
DB	WB												
-22°F	-22.5°F	7257	1.78	1193	6957	1.68	1217	6657	1.57	1241	6356	1.47	1266
-20°F	-20.5°F	7482	1.82	1205	7182	1.71	1229	6882	1.61	1254	6582	1.51	1279
-15°F	-16°F	7708	1.86	1217	7407	1.75	1241	7107	1.64	1266	6807	1.54	1292
-10°F	-11°F	8233	1.96	1230	7933	1.85	1254	7632	1.75	1279	7332	1.65	1305
-5°F	-6°F	8759	2.07	1242	8458	1.96	1267	8158	1.85	1292	8858	1.97	1318
0°F	-1°F	9209	2.13	1267	8909	2.02	1293	8608	1.91	1318	9308	2.03	1345
5°F	3°F	9659	2.19	1293	9359	2.08	1319	9059	1.97	1345	9759	2.08	1372
10°F	8°F	11260	2.50	1320	10960	2.39	1346	10659	2.28	1373	10359	2.17	1400
15°F	13°F	11485	2.53	1333	11485	2.48	1360	11185	2.36	1387	10884	2.26	1415
17°F	15°F	11710	2.55	1346	12010	2.56	1373	11710	2.45	1401	11410	2.34	1429
20°F	17°F	12311	2.63	1374	12010	2.51	1401	11710	2.40	1429	11410	2.29	1458
25°F	22°F	12761	2.67	1402	12461	2.55	1430	12161	2.44	1459	11860	2.34	1488
30°F	27°F	12986	2.69	1416	12686	2.57	1445	12386	2.46	1474	12086	2.36	1503
35°F	33°F	13211	2.71	1431	12911	2.59	1459	12611	2.48	1488	12311	2.38	1518
40°F	36°F	14262	2.86	1460	13962	2.75	1489	13662	2.64	1519	13362	2.53	1549
45°F	41°F	14713	2.89	1490	14413	2.78	1519	14112	2.67	1550	13812	2.56	1581
47°F	43°F	15013	2.89	1520	14713	2.78	1550	14413	2.67	1581	14112	2.56	1613
50°F	46°F	14863	2.85	1528	14563	2.74	1558	14262	2.63	1589	13962	2.52	1621
55°F	50°F	14713	2.81	1535	14413	2.70	1566	14112	2.59	1597	13812	2.48	1629
60°F	55°F	14563	2.75	1550	14262	2.64	1581	13962	2.54	1613	13662	2.43	1645
65°F	60°F	14262	2.81	1490	13962	2.69	1519	13662	2.58	1550	13362	2.48	1581
70°F	64°F	14112	2.79	1482	13812	2.68	1512	13512	2.57	1542	13211	2.46	1573
75°F	69°F	13962	2.78	1474	13662	2.66	1504	13362	2.55	1534	13061	2.45	1565
80°F	74°F	12761	2.62	1429	12461	2.51	1457	12161	2.40	1487	11860	2.29	1516
86°F	80°F	11260	2.36	1398	10960	2.25	1426	10659	2.15	1455	10359	2.05	1484

MAX OUTPUT*

*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



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(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
MAX OUTPUT*	-20°F	8528	6183	72%	10.15	840	9137	6625	73%	10.53	868	9442	6845	73%	10.38	910	10356	7508	73%	10.57	980
	-15°F	8985	6514	72%	10.46	859	9594	6956	73%	10.61	904	9899	7177	73%	10.40	952	10813	7839	73%	10.30	1050
	-10°F	9366	6814	73%	10.67	878	9975	7257	73%	10.79	924	10280	7478	73%	10.56	973	11193	8143	73%	10.43	1073
	-5°F	9747	7115	73%	10.86	897	10356	7560	73%	10.97	944	10660	7782	73%	10.72	994	11574	8449	73%	10.56	1096
	0°F	9899	7251	73%	10.81	916	10508	7697	73%	10.90	964	10813	7920	73%	10.65	1015	11726	8590	73%	10.48	1119
	5°F	10051	7388	74%	10.75	935	10660	7835	73%	10.83	984	10965	8059	74%	10.58	1036	11879	8731	74%	10.40	1142
	10°F	10280	7581	74%	10.78	954	10889	8030	74%	10.84	1004	11193	8255	74%	10.59	1057	12107	8929	74%	10.39	1165
	15°F	10508	7776	74%	10.80	973	11117	8227	74%	10.86	1024	11422	8452	74%	10.60	1078	12335	9128	74%	10.38	1189
	20°F	10660	7915	74%	10.75	992	11269	8368	74%	10.79	1044	11574	8594	74%	10.53	1099	12488	9272	74%	10.31	1212
	25°F	10813	8055	75%	10.70	1011	11422	8509	74%	10.73	1064	11726	8736	75%	10.47	1120	12640	9417	74%	10.24	1235
	30°F	11193	8367	75%	10.87	1030	11802	8822	75%	10.89	1084	12107	9050	75%	10.61	1141	13021	9733	75%	10.35	1258
	35°F	11574	8681	75%	11.04	1049	12183	9137	75%	11.04	1104	12488	9366	75%	10.75	1162	13402	10051	75%	10.46	1281
	40°F	11802	8881	75%	11.05	1068	12412	9340	75%	11.04	1124	12716	9569	75%	10.75	1183	13630	10257	75%	10.45	1304
	45°F	12031	9083	76%	11.07	1087	12640	9543	75%	11.05	1144	12945	9773	75%	10.75	1204	13858	10463	75%	10.44	1327
	50°F	12412	9402	76%	11.23	1106	13021	9863	76%	11.19	1164	13325	10094	76%	10.88	1225	14239	10786	76%	10.54	1351
	55°F	12792	9722	76%	11.38	1125	13402	10185	76%	11.32	1184	13706	10417	76%	11.00	1246	14620	11111	76%	10.64	1374
	60°F	13173	10044	76%	11.52	1143	13782	10509	76%	11.45	1204	14087	10741	76%	11.12	1267	15001	11438	76%	10.74	1397
	65°F	13554	10369	76%	11.66	1162	14163	10835	76%	11.57	1224	14468	11068	77%	11.23	1288	15381	11767	77%	10.83	1420
	70°F	14163	10870	77%	11.99	1181	14772	11338	77%	11.88	1244	15077	11571	77%	11.52	1309	15990	12273	77%	11.08	1443
	75°F	14772	11375	77%	12.31	1200	15381	11844	77%	12.17	1264	15686	12078	77%	11.79	1330	16600	12782	77%	11.32	1466
80°F	15001	11588	77%	12.30	1219	15610	12059	77%	12.16	1283	15914	12294	77%	11.78	1351	16828	13000	77%	11.30	1489	
85°F	15229	11802	78%	12.30	1238	15838	12275	77%	12.15	1303	16143	12511	77%	11.77	1372	17056	13219	77%	11.28	1513	
90°F	14772	11485	78%	11.81	1251	15381	11959	78%	11.68	1317	15686	12196	78%	11.32	1386	16600	12906	78%	10.86	1528	
95°F	14315	11166	78%	11.33	1264	14924	11641	78%	11.22	1330	15229	11879	78%	10.88	1400	16143	12591	78%	10.46	1544	
100°F	13554	10606	78%	10.67	1270	14163	11083	78%	10.60	1337	14315	11202	78%	10.17	1407	15381	12036	78%	9.92	1551	
105°F	12792	10042	78%	10.02	1276	13402	10520	78%	9.98	1343	13706	10759	79%	9.69	1414	14620	11477	78%	9.38	1559	
110°F	11650	9175	79%	9.51	1226	12259	9654	79%	9.50	1290	12564	9894	79%	9.25	1358	13478	10614	79%	9.00	1497	
115°F	10508	8301	79%	8.94	1175	11117	8783	79%	8.99	1237	11422	9023	79%	8.77	1302	12335	9745	79%	8.59	1435	
120°F	10280	8147	79%	8.66	1188	10889	8629	79%	8.71	1250	11193	8871	79%	8.51	1316	12107	9595	79%	8.34	1451	
122°F	10051	7991	80%	8.37	1200	10660	8475	80%	8.44	1264	10965	8717	80%	8.24	1330	11879	9444	79%	8.10	1466	
125°F	9747	7773	80%	8.08	1207	10356	8259	80%	8.15	1270	10660	8502	80%	7.97	1337	11574	9230	80%	7.85	1474	
129°F	9442	7554	80%	7.78	1213	10051	8041	80%	7.87	1277	10356	8285	80%	7.71	1344	11269	9016	80%	7.61	1482	

*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

ENV12HP230V1R32AH / ENV12HP230V1R32AO

HEATING PERFORMANCE

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)	
DB	WB													
MAX OUTPUT*	-22°F	-22.5°F	8632	1.69	1495	8318	1.60	1525	8005	1.51	1556	7691	1.42	1587
	-20°F	-20.5°F	8868	1.72	1510	8554	1.63	1541	8240	1.54	1572	7926	1.45	1603
	-15°F	-16°F	9103	1.75	1526	8789	1.66	1556	8475	1.57	1587	8161	1.48	1619
	-10°F	-11°F	9652	1.84	1541	9339	1.74	1572	9025	1.65	1604	8711	1.56	1636
	-5°F	-6°F	10202	1.92	1557	9888	1.82	1588	9574	1.73	1620	9260	1.64	1652
	0°F	-1°F	10673	1.97	1589	10359	1.87	1620	10045	1.78	1653	9731	1.69	1686
	5°F	3°F	11144	2.01	1621	10830	1.92	1653	10516	1.83	1687	10202	1.74	1720
	10°F	8°F	11771	2.09	1654	11457	1.99	1687	11144	1.90	1721	10830	1.81	1755
	15°F	13°F	12164	2.13	1671	12164	2.09	1704	11850	2.00	1739	11536	1.91	1773
	17°F	15°F	12556	2.18	1688	12870	2.19	1722	12556	2.10	1756	12242	2.00	1791
	20°F	17°F	12870	2.19	1722	12556	2.09	1757	12242	2.00	1792	11928	1.91	1828
	25°F	22°F	13341	2.22	1758	13027	2.13	1793	12713	2.04	1829	12399	1.95	1865
	30°F	27°F	13341	2.38	1643	13027	2.28	1676	12713	2.18	1709	12399	2.08	1743
	35°F	33°F	13341	2.56	1528	13027	2.45	1559	12713	2.34	1590	12399	2.24	1622
	40°F	36°F	14910	3.50	1248	14596	3.36	1273	14283	3.23	1298	13969	3.09	1324
	45°F	41°F	15381	3.54	1273	15067	3.40	1298	14753	3.27	1324	14439	3.13	1351
	47°F	43°F	15695	3.54	1299	15381	3.40	1325	15067	3.27	1351	14753	3.14	1379
	50°F	46°F	15538	3.49	1306	15224	3.35	1332	14910	3.22	1358	14596	3.09	1385
	55°F	50°F	15381	3.44	1312	15067	3.30	1338	14753	3.17	1365	14439	3.04	1392
	60°F	55°F	15224	3.37	1325	14910	3.23	1351	14596	3.10	1379	14283	2.98	1406
65°F	60°F	14910	3.43	1273	14596	3.30	1298	14283	3.16	1324	13969	3.03	1351	
70°F	64°F	14753	3.41	1267	14439	3.28	1292	14126	3.14	1318	13812	3.01	1344	
75°F	69°F	14596	3.40	1260	14283	3.26	1285	13969	3.12	1311	13655	2.99	1337	
80°F	74°F	13341	3.20	1221	13027	3.07	1245	12713	2.93	1270	12399	2.80	1296	
86°F	80°F	11771	2.89	1195	11457	2.75	1219	11144	2.63	1243	10830	2.50	1268	

*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



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(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
MAX OUTPUT*	-20°F	8578	5404	63%	10.10	850	8843	5748	65%	10.20	867	9070	5986	66%	10.25	885	9705	6502	67%	10.45	929
	-15°F	8843	5660	64%	10.20	867	9117	6017	66%	10.31	885	9351	6265	67%	10.36	903	10005	6804	68%	10.56	948
	-10°F	9117	5835	64%	10.31	885	9399	6203	66%	10.41	903	9640	6459	67%	10.46	921	10315	7014	68%	10.66	967
	-5°F	9399	6015	64%	10.41	903	9690	6395	66%	10.52	921	9938	6658	67%	10.57	940	10634	7231	68%	10.77	987
	0°F	9690	6201	64%	10.52	921	9989	6593	66%	10.63	940	10245	6864	67%	10.68	959	10962	7454	68%	10.89	1007
	5°F	9989	6493	65%	10.63	940	10298	6900	67%	10.74	959	10562	7182	68%	10.79	979	11302	7798	69%	11.00	1028
	10°F	10298	6694	65%	10.74	959	10617	7113	67%	10.85	979	10889	7404	68%	10.90	999	11651	8039	69%	11.11	1049
	15°F	10617	6901	65%	10.85	979	10945	7333	67%	10.96	999	11226	7633	68%	11.02	1019	12011	8288	69%	11.23	1070
	20°F	10945	7114	65%	10.96	999	11283	7560	67%	11.07	1019	11573	7870	68%	11.13	1040	12383	8544	69%	11.34	1092
	25°F	11283	7447	66%	11.07	1019	11632	7910	68%	11.19	1040	11931	8232	69%	11.24	1061	12766	8936	70%	11.46	1114
	30°F	11632	7677	66%	11.19	1040	11992	8155	68%	11.30	1061	12300	8487	69%	11.36	1083	13161	9212	70%	11.58	1137
	35°F	11992	7915	66%	11.30	1061	12363	8407	68%	11.42	1083	12680	8749	69%	11.48	1105	13568	9497	70%	11.70	1160
	40°F	12363	8160	66%	11.42	1083	12745	8667	68%	11.54	1105	13072	9020	69%	11.60	1127	13987	9791	70%	11.82	1184
	45°F	12745	8539	67%	11.54	1105	13140	9066	69%	11.66	1127	13477	9434	70%	11.71	1150	14420	10238	71%	11.94	1208
	50°F	13140	8804	67%	11.66	1127	13546	9347	69%	11.78	1150	13893	9725	70%	11.84	1174	14866	10555	71%	12.06	1233
	55°F	13546	9076	67%	11.78	1150	13965	9636	69%	11.90	1174	14323	10026	70%	11.96	1198	15326	10881	71%	12.19	1258
	60°F	13965	9357	67%	11.90	1174	14397	9934	69%	12.02	1198	14766	10336	70%	12.08	1222	15800	11218	71%	12.31	1283
	65°F	16429	11172	68%	12.04	1365	16938	11856	70%	12.16	1393	17372	12334	71%	12.22	1421	18588	13383	72%	12.46	1492
	70°F	16765	11400	68%	12.16	1379	17283	12098	70%	12.28	1407	17726	12586	71%	12.35	1436	18967	13656	72%	12.58	1507
	75°F	17283	11753	68%	12.28	1407	17818	12472	70%	12.41	1436	18275	12975	71%	12.48	1465	19554	14079	72%	12.71	1538
80°F	19640	13355	68%	12.15	1617	20247	14173	70%	12.27	1650	20767	14744	71%	12.33	1684	22220	15999	72%	12.57	1768	
85°F	19255	13286	69%	11.67	1650	19850	14094	71%	11.79	1684	20359	14659	72%	11.85	1718	21785	15903	73%	12.08	1804	
90°F	21394	14762	69%	11.54	1854	22056	15660	71%	11.66	1892	22622	16288	72%	11.72	1931	24205	17670	73%	11.94	2027	
95°F	20975	14473	69%	11.20	1873	21624	15353	71%	11.32	1911	22178	15968	72%	11.37	1950	23730	17323	73%	11.59	2048	
100°F	20346	14038	69%	10.55	1929	20975	14892	71%	10.66	1968	21513	15489	72%	10.71	2009	23019	16804	73%	10.91	2109	
105°F	19532	13672	70%	9.74	2006	20136	14498	72%	9.84	2047	20652	15076	73%	9.89	2089	22098	16352	74%	10.08	2193	
110°F	18841	13189	70%	8.61	2187	19424	13985	72%	8.70	2232	19922	14543	73%	8.75	2278	21317	15774	74%	8.91	2391	
115°F	15450	10815	70%	8.31	1859	15928	11468	72%	8.40	1897	16336	11925	73%	8.44	1936	17480	12935	74%	8.60	2033	
120°F	14214	9950	70%	7.96	1785	14653	10550	72%	8.05	1821	15029	10971	73%	8.09	1859	16081	11900	74%	8.24	1951	
122°F	13219	9385	71%	7.71	1714	13628	9948	73%	7.79	1748	13977	10343	74%	7.83	1784	14956	11217	75%	7.98	1873	
125°F	12558	8916	71%	7.26	1731	12946	9451	73%	7.33	1766	13278	9826	74%	7.37	1802	14208	10656	75%	7.51	1892	
129°F	11051	7846	71%	6.79	1627	11393	8317	73%	6.86	1660	11685	8647	74%	6.90	1694	12503	9377	75%	7.03	1779	

*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

ENV18HP230V1R32AH / ENV18HP230V1R32AO

HEATING PERFORMANCE

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)
DB	WB												
-22°F	-22.5°F	10462	1.71	1793	10200	1.64	1828	9894	1.55	1865	9498	1.46	1902
-20°F	-20.5°F	11249	1.78	1848	10968	1.71	1885	10639	1.62	1923	10213	1.53	1961
-15°F	-16°F	12096	1.86	1905	11793	1.78	1943	11440	1.69	1982	10982	1.59	2022
-10°F	-11°F	12868	1.92	1964	12546	1.84	2003	12170	1.75	2043	11683	1.64	2084
-5°F	-6°F	13689	1.98	2025	13347	1.89	2065	12946	1.80	2107	12429	1.70	2149
0°F	-1°F	14410	2.02	2087	14049	1.93	2129	13628	1.84	2172	13083	1.73	2215
5°F	3°F	15010	2.04	2152	14635	1.95	2195	14196	1.86	2239	13628	1.75	2284
10°F	8°F	16289	2.14	2232	15882	2.04	2277	15405	1.94	2322	14789	1.83	2369
15°F	13°F	16826	2.19	2255	16405	2.09	2300	15913	1.99	2346	15277	1.87	2393
17°F	15°F	17363	2.23	2278	16929	2.14	2323	16421	2.03	2370	15764	1.91	2417
20°F	17°F	17900	2.26	2324	17453	2.16	2370	16929	2.05	2418	16252	1.93	2466
25°F	22°F	18136	2.38	2235	17682	2.27	2280	17152	2.16	2325	16466	2.03	2372
30°F	27°F	18319	2.50	2149	17861	2.39	2192	17325	2.27	2236	16632	2.14	2281
35°F	33°F	18504	2.57	2107	18041	2.46	2149	17500	2.34	2192	16800	2.20	2236
40°F	36°F	21513	3.11	2030	20975	2.97	2070	20346	2.82	2111	19532	2.66	2154
45°F	41°F	22178	3.17	2050	21624	3.03	2091	20975	2.88	2133	20136	2.71	2175
47°F	43°F	22511	3.19	2071	21948	3.05	2112	21289	2.90	2154	20438	2.73	2197
50°F	46°F	19359	3.56	1594	18875	3.40	1626	18309	3.24	1659	17577	3.04	1692
55°F	50°F	18972	3.52	1578	18498	3.37	1610	17943	3.20	1642	17225	3.01	1675
60°F	55°F	17075	3.48	1436	16648	3.33	1465	16148	3.17	1494	15503	2.98	1524
65°F	60°F	16563	3.45	1408	16148	3.30	1436	15664	3.13	1464	15037	2.95	1494
70°F	64°F	12422	3.36	1084	12111	3.21	1106	11748	3.05	1128	11278	2.87	1150
75°F	69°F	11925	3.29	1062	11627	3.15	1083	11278	2.99	1105	10827	2.82	1127
80°F	74°F	11448	3.21	1046	11162	3.07	1067	10827	2.92	1088	10394	2.74	1110
86°F	80°F	10876	3.11	1025	10604	2.97	1046	10286	2.83	1067	9874	2.66	1088

MAX OUTPUT*

*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



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(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
MAX OUTPUT*	-20°F	15073	10928	73%	10.81	1394	16150	11708	73%	11.21	1440	16688	12099	73%	11.05	1510	18303	13270	73%	11.26	1626
	-15°F	15880	11513	73%	11.14	1426	16957	12294	73%	11.30	1501	17495	12684	73%	11.08	1580	19110	13855	73%	10.97	1742
	-10°F	16553	12001	73%	11.36	1457	17630	12782	73%	11.49	1534	18168	13172	73%	11.25	1614	19783	14343	73%	11.11	1780
	-5°F	17226	12489	73%	11.57	1489	18303	13270	73%	11.68	1567	18841	13660	73%	11.42	1649	20456	14831	73%	11.25	1818
	0°F	17495	12684	73%	11.51	1520	18572	13465	73%	11.61	1600	19110	13855	73%	11.35	1684	20725	15026	73%	11.16	1857
	5°F	17765	12879	73%	11.45	1551	18841	13660	73%	11.54	1633	19380	14050	73%	11.27	1719	20994	15221	73%	11.08	1895
	10°F	18168	13172	73%	11.48	1583	19245	13953	73%	11.55	1666	19783	14343	73%	11.28	1754	21398	15514	73%	11.07	1934
	15°F	18572	13465	73%	11.50	1614	19649	14245	73%	11.56	1699	20187	14636	73%	11.29	1789	21802	15806	73%	11.06	1972
	20°F	18841	13660	73%	11.45	1646	19918	14440	73%	11.50	1732	20456	14831	73%	11.22	1824	22071	16002	73%	10.98	2010
	25°F	19110	13855	73%	11.39	1677	20187	14636	73%	11.43	1765	20725	15026	73%	11.15	1858	22340	16197	73%	10.90	2049
	30°F	19783	14343	73%	11.58	1709	20860	15123	73%	11.60	1799	21398	15514	73%	11.30	1893	23013	16685	73%	11.03	2087
	35°F	20456	14831	73%	11.76	1740	21533	15611	73%	11.76	1832	22071	16002	73%	11.45	1928	23686	17172	73%	11.14	2126
	40°F	20860	15123	73%	11.77	1772	21937	15904	73%	11.76	1865	22475	16294	73%	11.45	1963	24090	17465	73%	11.13	2164
	45°F	21264	15416	73%	11.79	1803	22340	16197	73%	11.77	1898	22879	16587	73%	11.45	1998	24494	17758	73%	11.12	2203
	50°F	21937	15904	73%	11.96	1834	23013	16685	73%	11.92	1931	23552	17075	73%	11.59	2033	25166	18246	73%	11.23	2241
	55°F	22609	16392	73%	12.12	1866	23686	17172	73%	12.06	1964	24224	17563	73%	11.72	2067	25839	18734	73%	11.34	2279
	60°F	23282	16880	73%	12.27	1897	24359	17660	73%	12.20	1997	24897	18051	73%	11.84	2102	26512	19221	73%	11.44	2318
	65°F	23955	17368	73%	12.42	1929	25032	18148	73%	12.33	2030	25570	18538	73%	11.96	2137	27185	19709	73%	11.54	2356
	70°F	25032	18148	73%	12.77	1960	26109	18929	73%	12.65	2063	26647	19319	73%	12.27	2172	28262	20490	73%	11.80	2395
	75°F	26109	18929	73%	13.11	1992	27185	19709	73%	12.97	2097	27723	20100	73%	12.56	2207	29338	21270	73%	12.06	2433
80°F	26512	19221	73%	13.10	2023	27589	20002	73%	12.95	2130	28127	20392	73%	12.55	2242	29742	21563	73%	12.03	2471	
85°F	26916	19514	73%	13.10	2055	27993	20295	73%	12.94	2163	28531	20685	73%	12.53	2277	30146	21856	73%	12.01	2510	
90°F	26109	18929	73%	12.58	2076	27185	19709	73%	12.44	2185	27723	20100	73%	12.05	2300	29338	21270	73%	11.57	2535	
95°F	25301	18343	73%	12.07	2097	26378	19124	73%	11.95	2207	26916	19514	73%	11.59	2323	28531	20685	73%	11.14	2561	
100°F	24628	17855	73%	11.46	2149	25705	18636	73%	11.36	2262	26243	19026	73%	11.02	2381	27858	20197	73%	10.61	2625	
105°F	23955	17368	73%	10.88	2201	25032	18148	73%	10.80	2317	25570	18538	73%	10.48	2439	27185	19709	73%	10.11	2689	
110°F	23552	17075	73%	10.45	2254	24628	17855	73%	10.38	2372	25166	18246	73%	10.08	2497	26781	19417	73%	9.73	2753	
115°F	23148	16782	73%	10.04	2306	24224	17563	73%	9.98	2428	24763	17953	73%	9.69	2555	26378	19124	73%	9.36	2817	
120°F	22206	16099	73%	9.59	2315	23282	16880	73%	9.38	2483	23821	17270	73%	9.11	2613	25436	18441	73%	8.83	2881	
122°F	21264	15416	73%	9.15	2323	22340	16197	73%	8.80	2538	22879	16587	73%	8.56	2671	24494	17758	73%	8.32	2945	
125°F	20591	14928	73%	8.82	2335	21667	15709	73%	8.51	2547	22206	16099	73%	8.14	2730	23821	17270	73%	7.92	3009	
129°F	19918	14440	73%	8.49	2346	20994	15221	73%	8.22	2555	21533	15611	73%	7.72	2788	23148	16782	73%	7.53	3073	

*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

ENV24HP230V1R32AH / ENV24HP230V1R32AO

HEATING PERFORMANCE

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)	
MAX OUTPUT*	DB	WB												
	-22°F	-22.5°F	14559	7.38	1974	14029	6.97	2013	13500	6.57	2053	12970	6.19	2094
	-20°F	-20.5°F	14956	7.50	1994	14426	7.09	2034	13897	6.70	2074	13367	6.32	2116
	-15°F	-16°F	15353	7.62	2014	14823	7.22	2054	14294	6.82	2095	13764	6.44	2137
	-10°F	-11°F	16279	8.00	2034	15750	7.59	2075	15220	7.19	2117	14691	6.80	2159
	-5°F	-6°F	17206	8.37	2055	16676	7.96	2096	16147	7.55	2138	15617	7.16	2181
	0°F	-1°F	18000	8.58	2097	17470	8.17	2139	16941	7.77	2182	16411	7.38	2225
	5°F	3°F	18794	8.78	2140	18264	8.37	2182	17735	7.97	2226	17206	7.58	2271
	10°F	8°F	19853	9.09	2183	19323	8.68	2227	18794	8.27	2272	18264	7.88	2317
	15°F	13°F	20250	9.18	2206	20250	9.00	2250	19720	8.59	2295	19191	8.20	2341
	17°F	15°F	20647	9.27	2228	21176	9.32	2272	20647	8.91	2318	20117	8.51	2364
	20°F	17°F	21705	9.55	2273	21176	9.13	2319	20647	8.73	2365	20117	8.34	2413
	25°F	22°F	22500	9.70	2320	21970	9.29	2366	21441	8.88	2413	20911	8.49	2462
	30°F	27°F	22897	9.77	2343	22367	9.36	2390	21838	8.96	2438	21308	8.57	2487
	35°F	33°F	23294	9.84	2367	22764	9.43	2414	22235	9.03	2463	21705	8.64	2512
	40°F	36°F	25147	10.41	2415	24617	9.99	2464	24088	9.59	2513	23558	9.19	2563
	45°F	41°F	25941	10.52	2465	25411	10.11	2514	24882	9.70	2564	24352	9.31	2616
	47°F	43°F	26470	10.52	2515	25941	10.11	2565	25411	9.71	2617	24882	9.32	2669
	50°F	46°F	26205	10.37	2528	25676	9.96	2578	25147	9.56	2630	24617	9.18	2682
	55°F	50°F	25941	10.21	2540	25411	9.81	2591	24882	9.42	2643	24352	9.03	2696
60°F	55°F	25676	10.01	2565	25147	9.61	2617	24617	9.22	2669	24088	8.85	2722	
65°F	60°F	25147	10.20	2465	24617	9.79	2514	24088	9.39	2564	23558	9.01	2616	
70°F	64°F	24882	10.15	2452	24352	9.74	2501	23823	9.34	2551	23294	8.95	2602	
75°F	69°F	24617	10.09	2440	24088	9.68	2488	23558	9.28	2538	23029	8.90	2589	
80°F	74°F	22500	9.52	2364	21970	9.11	2411	21441	8.72	2460	20911	8.34	2509	
86°F	80°F	19853	8.58	2314	19323	8.19	2360	18794	7.81	2407	18264	7.44	2455	

*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



Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

GREECOMFORT.COM/SYSTEM-DOCUMENTATION