



EXTENDED RATINGS

Cooling Performance

VIR09HP230V1R32AH / VIR09HP230V1R32AO

VIR12HP230V1R32AH / VIR12HP230V1R32AO

VIR18HP230V1R32AH / VIR18HP230V1R32AO

VIR24HP230V1R32AH / VIR24HP230V1R32AO

Heating Performance

VIR09HP230V1R32AH / VIR09HP230V1R32AO

VIR12HP230V1R32AH / VIR12HP230V1R32AO

VIR18HP230V1R32AH / VIR18HP230V1R32AO

VIR24HP230V1R32AH / VIR24HP230V1R32AO

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/system-documentation/#single-zone>

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																					
129°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

VIR09HP230V1R32AH / VIR09HP230V1R32AO

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																					
129°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

VIR12HP230V1R32AH / VIR12HP230V1R32AO

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	8632	1.69	1495.22	8318	1.60	1525.00	8005	1.51	1556.00	7691	1.42	1587
-20°F	-20.5°F	8868	1.72	1510.47	8554	1.63	1540.68	8240	1.54	1571.50	7926	1.45	1603
-15°F	-16°F	9103	1.75	1525.73	8789	1.66	1556.00	8475	1.57	1587.00	8161	1.48	1619
-10°F	-11°F	9652	1.84	1541.30	9339	1.74	1572.12	9025	1.65	1603.57	8711	1.56	1636
-5°F	-6°F	10202	1.92	1556.87	9888	1.82	1588.00	9574	1.73	1620.00	9260	1.64	1652
0°F	-1°F	10673	1.97	1588.64	10359	1.87	1620.00	10045	1.78	1653.00	9731	1.69	1686
5°F	3°F	11144	2.01	1621.06	10830	1.92	1653.00	10516	1.83	1687.00	10202	1.74	1720
10°F	8°F	11771	2.09	1654.14	11457	1.99	1687.00	11144	1.90	1721.00	10830	1.81	1755
15°F	13°F	12164	2.13	1671.02	12164	2.09	1704.44	11850	2.00	1738.53	11536	1.91	1773
17°F	15°F	12556	2.18	1687.90	12870	2.19	1722.00	12556	2.10	1756.00	12242	2.00	1791
20°F	17°F	12870	2.19	1722.35	12556	2.09	1757.00	12242	2.00	1792.00	11928	1.91	1828
25°F	22°F	13341	2.22	1757.50	13027	2.13	1793.00	12713	2.04	1829.00	12399	1.95	1865
30°F	27°F	13341	2.38	1642.88	13027	2.28	1675.74	12713	2.18	1709.25	12399	2.08	1743
35°F	33°F	13341	2.56	1528.26	13027	2.45	1559.00	12713	2.34	1590.00	12399	2.24	1622
40°F	36°F	14910	3.50	1247.56	14596	3.36	1273.00	14283	3.23	1298.00	13969	3.09	1324
45°F	41°F	15381	3.54	1273.02	15067	3.40	1298.00	14753	3.27	1324.00	14439	3.13	1351
47°F	43°F	15695	3.54	1299.00	15381	3.40	1325.00	15067	3.27	1351.00	14753	3.14	1379
50°F	46°F	15538	3.49	1305.50	15224	3.35	1331.60	14910	3.22	1358.24	14596	3.09	1385
55°F	50°F	15381	3.44	1311.99	15067	3.30	1338.00	14753	3.17	1365.00	14439	3.04	1392
60°F	55°F	15224	3.37	1324.98	14910	3.23	1351.00	14596	3.10	1379.00	14283	2.98	1406
65°F	60°F	14910	3.43	1273.02	14596	3.30	1298.00	14283	3.16	1324.00	13969	3.03	1351
70°F	64°F	14753	3.41	1266.53	14439	3.28	1291.86	14126	3.14	1317.69	13812	3.01	1344
75°F	69°F	14596	3.40	1260.03	14283	3.26	1285.00	13969	3.12	1311.00	13655	2.99	1337
80°F	74°F	13341	3.20	1221.06	13027	3.07	1245.00	12713	2.93	1270.00	12399	2.80	1296
86°F	80°F	11771	2.89	1195.08	11457	2.75	1219.00	11144	2.63	1243.00	10830	2.50	1268

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																					
129°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

VIR18HP230V1R32AH / VIR18HP230V1R32AO

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	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

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	17180	12456	72.50%	11.64	1475	18407	13345	72.50%	12.07	1525	19021	13790	72.50%	11.90	1598	20862	15125	72.50%	12.12	1721
	-15°F	17433	12639	72.50%	11.46	1522	18615	13496	72.50%	11.62	1602	19206	13924	72.50%	11.39	1686	20979	15210	72.50%	11.29	1859
	-10°F	18030	13119	72.76%	11.83	1524	19203	13972	72.76%	11.97	1604	19789	14398	72.76%	11.72	1688	21548	15678	72.76%	11.58	1862
	-5°F	18621	13594	73.00%	12.17	1530	19785	14443	73.00%	12.28	1611	20367	14868	73.00%	12.01	1695	22113	16142	73.00%	11.83	1869
	0°F	19366	14187	73.25%	12.62	1534	20558	15060	73.25%	12.73	1615	21154	15496	73.25%	12.44	1700	22942	16806	73.25%	12.24	1874
	5°F	19391	14253	73.50%	12.10	1603	20566	15116	73.50%	12.19	1687	21154	15548	73.50%	11.91	1776	22917	16844	73.50%	11.70	1958
	10°F	19427	14329	73.76%	12.08	1608	20578	15178	73.76%	12.16	1693	21154	15602	73.76%	11.87	1782	22881	16876	73.75%	11.65	1965
	15°F	20014	14810	74.00%	12.31	1626	21174	15669	74.00%	12.37	1711	21754	16098	74.00%	12.08	1802	23494	17386	74.00%	11.83	1986
	20°F	20112	14934	74.25%	11.94	1685	21261	15787	74.25%	11.99	1774	21836	16214	74.25%	11.70	1867	23560	17494	74.25%	11.45	2058
	25°F	20134	15000	74.50%	11.72	1717	21269	15845	74.50%	11.76	1808	21836	16268	74.50%	11.47	1903	23538	17535	74.50%	11.22	2098
	30°F	20188	15092	74.76%	11.44	1765	21287	15913	74.76%	11.46	1857	21836	16324	74.76%	11.17	1955	23484	17556	74.76%	10.89	2156
	35°F	20346	15259	75.00%	11.39	1786	21417	16062	75.00%	11.39	1880	21952	16464	75.00%	11.09	1979	23558	17669	75.00%	10.80	2182
	40°F	20426	15371	75.25%	11.15	1832	21480	16165	75.25%	11.14	1928	22007	16561	75.25%	10.84	2030	23588	17751	75.25%	10.54	2238
	45°F	20454	15442	75.50%	10.80	1895	21489	16224	75.50%	10.78	1994	22007	16615	75.50%	10.48	2099	23560	17788	75.50%	10.18	2314
	50°F	20498	15529	75.76%	10.53	1946	21504	16291	75.76%	10.50	2049	22007	16672	75.76%	10.20	2157	23516	17815	75.76%	9.89	2378
	55°F	21829	16590	76.00%	11.00	1985	22868	17380	76.00%	10.95	2089	23388	17775	76.00%	10.63	2199	24947	18960	76.00%	10.29	2425
	60°F	21856	16667	76.26%	10.85	2015	22867	17437	76.26%	10.78	2121	23372	17823	76.26%	10.47	2233	24888	18979	76.26%	10.11	2462
	65°F	22852	17482	76.50%	11.08	2062	23879	18268	76.50%	11.00	2171	24393	18661	76.50%	10.67	2285	25934	19839	76.50%	10.29	2519
	70°F	23718	18206	76.76%	11.38	2084	24738	18989	76.76%	11.28	2194	25248	19380	76.76%	10.93	2309	26778	20555	76.76%	10.52	2546
	75°F	24261	18681	77.00%	11.52	2107	25262	19451	77.00%	11.39	2218	25762	19837	77.00%	11.04	2334	27263	20992	77.00%	10.59	2574
	80°F	26372	20373	77.25%	11.90	2215	27443	21200	77.25%	11.77	2332	27978	21614	77.25%	11.40	2455	29584	22855	77.25%	10.93	2706
85°F	26394	20456	77.50%	11.63	2270	27450	21274	77.50%	11.49	2390	27978	21683	77.50%	11.12	2515	29562	22910	77.50%	10.66	2773	
90°F	26348	20484	77.74%	11.32	2328	27435	21328	77.74%	11.20	2450	27978	21751	77.74%	10.85	2579	29608	23018	77.74%	10.41	2844	
95°F	26301	20515	78.00%	11.05	2381	27420	21388	78.00%	10.94	2506	27980	21824	78.00%	10.61	2638	29659	23134	78.00%	10.20	2908	
100°F	26185	20488	78.24%	10.76	2434	27329	21383	78.24%	10.67	2562	27902	21831	78.24%	10.35	2697	29619	23175	78.24%	9.96	2973	
105°F	25857	20298	78.50%	10.36	2496	27019	21210	78.50%	10.28	2627	27600	21666	78.50%	9.98	2766	29343	23034	78.50%	9.62	3049	
110°F	25735	20265	78.75%	10.11	2545	26912	21192	78.75%	10.04	2679	27500	21655	78.75%	9.75	2820	29265	23045	78.75%	9.41	3110	
115°F	23692	18717	79.00%	9.24	2564	24794	19587	79.00%	9.19	2699	25345	20023	79.00%	8.92	2841	26998	21328	79.00%	8.62	3133	
120°F	22145	17547	79.24%	8.73	2537	23218	18398	79.24%	8.53	2721	23755	18824	79.24%	8.29	2864	25366	20100	79.24%	8.03	3158	
122°F	19978	15882	79.50%	7.93	2519	20989	16686	79.50%	7.63	2752	21495	17089	79.50%	7.42	2897	23012	18295	79.50%	7.21	3194	
125°F																					
129°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

VIR24HP230V1R32AH / VIR24HP230V1R32AO

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	19107	5.62	3400	13542	6.19	2189	13332	5.97	2233	12810	5.62	2278
	-20°F	-20.5°F	20120	5.85	3440	13808	6.23	2218	13595	6.01	2262	13077	5.67	2308
	-15°F	-16°F	21519	6.22	3460	14373	6.43	2234	14151	6.21	2279	13627	5.86	2324
	-10°F	-11°F	22007	6.32	3480	14896	6.56	2270	14666	6.33	2315	14156	5.99	2361
	-5°F	-6°F	22100	6.31	3500	15839	6.95	2279	15595	6.71	2325	15083	6.36	2372
	0°F	-1°F	22519	6.40	3520	15885	6.83	2326	15639	6.59	2372	15151	6.26	2420
	5°F	3°F	23681	6.49	3650	17004	7.16	2373	16741	6.92	2421	16241	6.58	2469
	10°F	8°F	24000	6.56	3660	18369	7.58	2422	18085	7.32	2470	17575	6.98	2520
	15°F	13°F	24000	6.52	3680	19449	7.87	2471	19148	7.60	2521	18634	7.25	2571
	17°F	15°F	24000	6.59	3640	19549	7.81	2504	19247	7.54	2554	18754	7.20	2605
	20°F	17°F	24000	6.63	3620	19639	7.79	2522	19335	7.52	2572	18840	7.18	2624
	25°F	22°F	24151	6.94	3480	20803	8.08	2573	20482	7.80	2625	19976	7.46	2677
	30°F	27°F	24252	7.18	3380	21381	8.14	2626	21050	7.86	2678	20540	7.52	2732
	35°F	33°F	24952	7.82	3190	22856	8.59	2660	22503	8.29	2714	21967	7.94	2768
	40°F	36°F	25378	8.54	2970	24319	9.08	2679	23943	8.76	2733	23416	8.40	2788
	45°F	41°F	27802	9.72	2860	27852	10.19	2734	27421	9.83	2789	26838	9.44	2844
	47°F	43°F	28000	10.45	2680	27527	9.87	2790	27178	9.55	2846	27142	9.35	2902
	50°F	46°F	25656	9.72	2640	28692	10.13	2832	28095	9.72	2889	27908	9.47	2947
	55°F	50°F	28560	10.98	2600	29617	10.31	2873	29159	9.95	2931	28538	9.55	2990
60°F	55°F	25999	10.08	2580	30767	10.40	2960	30277	10.03	3019	29607	9.61	3079	
65°F	60°F	27210	10.97	2480	31586	10.36	3048	31097	10.00	3109	30414	9.59	3172	
70°F	64°F	24975	10.15	2460	29989	9.55	3140	29526	9.22	3203	28870	8.84	3267	
75°F	69°F	26645	10.88	2450	29012	8.97	3234	28563	8.66	3299	27922	8.30	3365	
80°F	74°F	23576	9.70	2430	26647	8.00	3331	26235	7.72	3398	25587	7.38	3466	
86°F	80°F	23000	9.54	2410	26437	7.99	3309	26029	7.71	3376	25295	7.35	3443	

*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.

GRECOMFORT.COM