



Air comfort for all



Indoor Unit

MODELS:

DUCT09HP230V1BD
DUCT12HP230V1BD
DUCT18HP230V1BD
DUCT24HP230V1BD

Outdoor Unit

MODELS:

3VIR09HP230V1BO
3VIR12HP230V1BO
3VIR18HP230V1BO
3VIR24HP230V1BO

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/>

EXTENDED RATINGS

DUCT09HP230V1BD / 3VIR09HP230V1BO

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	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)	
-20°F	6018	4363	72%	608	6448	4675	73%	10.27	628	6663	4831	73%	10.12	658	7308	5298	73%	10.31	709	
-15°F	6341	4597	73%	622	6771	4909	72%	10.35	654	6986	5065	72%	10.14	689	7630	5532	73%	10.05	759	
-10°F	6609	4808	73%	635	7039	5121	73%	10.52	669	7254	5277	73%	10.30	704	7899	5747	73%	10.18	776	
-5°F	6878	5021	73%	649	7308	5335	73%	10.70	683	7523	5497	73%	10.46	719	8168	5962	73%	10.30	793	
0°F	6986	5117	73%	663	7415	5432	73%	10.63	698	7630	5589	73%	10.39	734	8275	6062	73%	10.22	810	
5°F	7093	5213	74%	677	7523	5529	73%	10.56	712	7738	5687	73%	10.32	750	8383	6161	74%	10.14	826	
10°F	7254	5350	74%	690	7684	5667	74%	10.58	727	7899	5826	74%	10.33	765	8544	6301	74%	10.13	843	
15°F	7415	5487	74%	704	7845	5806	74%	10.59	741	8060	5965	74%	10.33	780	8705	6442	74%	10.12	860	
20°F	7523	5586	74%	718	7953	5905	74%	10.53	755	8168	6065	74%	10.27	795	8813	6543	74%	10.05	877	
25°F	7630	5685	75%	731	8060	6005	75%	10.47	770	8275	6165	75%	10.21	820	8920	6645	75%	9.98	893	
30°F	7899	5905	75%	745	8329	6226	75%	10.62	784	8544	6387	75%	10.35	816	9189	6869	75%	10.10	910	
35°F	8168	6126	75%	759	8598	6448	75%	10.76	799	8813	6609	75%	10.48	841	9457	7093	75%	10.20	927	
40°F	8329	6268	75%	773	8759	6591	75%	10.77	813	8974	6753	75%	10.48	856	9619	7238	75%	10.19	944	
45°F	8490	6410	76%	786	8920	6735	76%	10.78	828	9135	6897	76%	10.49	871	9780	7384	76%	10.18	960	
50°F	8759	6635	76%	800	9189	6960	76%	10.91	842	9404	7123	76%	10.61	886	10048	7612	76%	10.28	977	
55°F	9027	6861	76%	814	9457	7188	76%	11.04	856	9672	7351	76%	10.73	902	10317	7841	76%	10.38	994	
60°F	9296	7088	76%	827	9726	7416	76%	11.17	871	9941	7580	76%	10.84	917	10586	8072	76%	10.47	1011	
65°F	9565	7317	76%	841	9995	7646	76%	11.29	885	10210	7810	76%	10.96	932	10854	8304	77%	10.56	1027	
70°F	9995	7671	77%	855	10425	8001	77%	11.59	900	10640	8166	77%	11.23	947	11284	8661	77%	10.81	1044	
75°F	10425	8027	77%	869	10854	8358	77%	11.87	914	11069	8523	77%	11.50	962	11714	9020	77%	11.04	1061	
80°F	10586	8178	77%	882	11016	8510	77%	11.86	929	11231	8676	77%	11.49	978	11875	9174	77%	11.02	1078	
85°F	10747	8329	78%	896	11177	8662	77%	11.85	943	11392	8829	77%	11.48	993	12037	9328	78%	11.00	1094	
90°F	10425	8105	78%	905	10854	8439	78%	11.39	953	11069	8606	78%	11.04	1003	11714	9108	78%	10.59	1106	
95°F	10102	7880	78%	914	10532	8215	78%	10.94	962	10747	8383	78%	10.61	1013	11392	8886	78%	10.20	1117	
100°F	9834	7695	78%	937	10263	8031	78%	10.40	986	10478	8199	78%	10.09	1038	11123	8704	78%	9.72	1145	
105°F	9565	7508	78%	960	9995	7846	79%	9.89	1010	10210	8015	79%	9.60	1064	10854	8521	79%	9.26	1173	
110°F	9404	7405	79%	983	9834	7744	79%	9.51	1035	10048	7913	79%	9.23	1089	10693	8421	79%	8.91	1201	
115°F	9242	7302	79%	1006	9672	7641	79%	9.14	1059	9887	7811	79%	8.87	1114	10532	8320	79%	8.57	1229	
120°F	8866	7027	79%	1009	9296	7367	79%	8.59	1083	9511	7538	79%	8.35	1140	10156	8049	79%	8.08	1256	
122°F	8490	6750	79%	1013	8920	7091	80%	8.06	1107	9135	7262	80%	7.84	1165	9780	7775	80%	7.61	1284	
125°F																				
129°F																				

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

EXTENDED RATINGS

DUCT09HP230V1BD / 3VIR09HP230V1BO

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)	TC (Btu/h)	COP(W/W)	Power Input (W)	
DB	WB	MAX OUTPUT*															
-22°F	-22.5°F	8030	2.23	1054	7738	2.11	1075	7446	1.99	1096	7154	1.87	1118				
-20°F	-20.5°F	8249	2.27	1065	7957	2.15	1086	7665	2.03	1108	7373	1.91	1130				
-15°F	-16°F	8468	2.31	1075	8176	2.18	1097	7884	2.07	1119	7592	1.95	1141				
-10°F	-11°F	8979	2.42	1086	8687	2.30	1108	8395	2.18	1130	8103	2.06	1153				
-5°F	-6°F	9490	2.53	1097	9198	2.41	1119	8906	2.29	1142	8614	2.17	1164				
0°F	-1°F	9928	2.60	1120	9636	2.47	1142	9344	2.35	1165	9052	2.23	1188				
5°F	3°F	10366	2.66	1143	10074	2.53	1165	9782	2.41	1189	9490	2.29	1213				
10°F	8°F	10950	2.75	1166	10658	2.63	1189	10366	2.50	1213	10074	2.39	1237				
15°F	13°F	11169	2.78	1178	11169	2.72	1201	10877	2.60	1225	10585	2.48	1250				
17°F	15°F	11388	2.81	1190	11680	2.82	1213	11388	2.70	1238	11096	2.58	1263				
20°F	17°F	11972	2.89	1214	11680	2.76	1238	11388	2.64	1263	11096	2.52	1288				
25°F	22°F	12410	2.94	1239	12118	2.81	1264	11826	2.69	1289	11534	2.57	1315				
30°F	27°F	12629	2.96	1251	12337	2.83	1276	12045	2.71	1302	11753	2.59	1328				
35°F	33°F	12848	2.98	1264	12556	2.85	1289	12264	2.73	1315	11972	2.62	1341				
40°F	36°F	13870	3.15	1290	13578	3.02	1316	13286	2.90	1342	12994	2.78	1369				
45°F	41°F	14308	3.19	1316	14016	3.06	1342	13724	2.94	1369	13432	2.82	1397				
47°F	43°F	14600	3.19	1343	14308	3.06	1370	14016	2.94	1397	13724	2.82	1425				
50°F	46°F	14454	3.14	1350	14162	3.01	1377	13870	2.89	1404	13578	2.78	1432				
55°F	50°F	14308	3.09	1356	14016	2.97	1384	13724	2.85	1411	13432	2.73	1439				
60°F	55°F	14162	3.03	1370	13870	2.91	1397	13578	2.79	1425	13286	2.68	1454				
65°F	60°F	13870	3.09	1316	13578	2.96	1342	13286	2.84	1369	12994	2.73	1397				
70°F	64°F	13724	3.07	1309	13432	2.95	1336	13140	2.83	1362	12848	2.71	1390				
75°F	69°F	13578	3.05	1303	13286	2.93	1329	12994	2.81	1355	12702	2.69	1382				
80°F	74°F	12410	2.88	1262	12118	2.76	1288	11826	2.64	1313	11534	2.52	1340				
86°F	80°F	10950	2.60	1236	10658	2.48	1260	10366	2.36	1285	10074	2.25	1311				

*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

DUCT12HP230V1BD / 3VIR12HP230V1BO

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)	
-20°F	7895	5724	73%	10.12	780	8459	6133	73%	10.49	806	8741	6337	72%	8.96	975	9587	6950	72%	10.53	910	
-15°F	8318	6030	73%	10.43	798	8882	6439	72%	10.58	840	9164	6644	72%	8.98	1020	10010	7257	73%	10.27	975	
-10°F	8670	6308	73%	10.63	815	9234	6718	73%	10.76	858	9516	6923	73%	9.13	1043	10362	7538	73%	10.40	996	
-5°F	9023	6587	73%	10.83	833	9587	6998	73%	10.93	877	9869	7204	73%	9.27	1065	10714	7822	73%	10.53	1018	
0°F	9164	6712	73%	10.77	851	9728	7125	73%	10.86	895	10010	7332	73%	9.20	1088	10855	7952	73%	10.45	1039	
5°F	9305	6839	74%	10.72	868	9869	7253	73%	10.80	914	10151	7461	73%	9.14	1110	10996	8082	73%	10.37	1061	
10°F	9516	7018	74%	10.74	886	10080	7434	74%	10.81	932	10362	7642	74%	9.15	1133	11208	8266	74%	10.36	1082	
15°F	9728	7198	74%	10.77	903	10292	7616	74%	10.82	951	10574	7824	74%	9.15	1155	11419	8450	74%	10.35	1104	
20°F	9869	7327	74%	10.72	921	10433	7746	74%	10.76	969	10714	7956	74%	9.10	1178	11560	8584	74%	10.27	1125	
25°F	10010	7457	75%	10.66	939	10574	7877	75%	10.70	988	10855	8078	75%	9.05	1200	11701	8718	75%	10.21	1147	
30°F	10362	7746	75%	10.84	956	10926	8167	75%	10.86	1007	11208	8378	75%	9.17	1223	12054	9010	75%	10.32	1168	
35°F	10714	8036	75%	11.00	974	11278	8459	75%	11.00	1025	11560	8670	75%	9.29	1245	12406	9305	75%	10.43	1190	
40°F	10926	8222	75%	11.02	991	11490	8646	75%	11.01	1044	11772	8858	75%	9.29	1268	12618	9495	75%	10.42	1211	
45°F	11137	8409	75%	11.04	1009	11701	8835	75%	11.02	1062	11983	9047	75%	9.29	1290	12829	9686	75%	10.41	1233	
50°F	11490	8704	76%	11.19	1027	12054	9131	76%	11.15	1081	12336	9344	76%	9.40	1313	13182	9985	76%	10.51	1254	
55°F	11842	9000	76%	11.34	1044	12406	9429	76%	11.29	1099	12688	9643	76%	9.50	1335	13534	10286	76%	10.61	1276	
60°F	12195	9299	76%	11.49	1062	12759	9729	76%	11.42	1118	13041	9944	76%	9.61	1358	13887	10588	76%	10.71	1297	
65°F	12547	9599	76%	11.62	1079	13111	10030	76%	11.54	1136	13393	10246	76%	9.71	1380	14239	10893	77%	10.80	1319	
70°F	13111	10063	77%	11.95	1097	13675	10496	77%	11.84	1155	13957	10712	77%	9.95	1403	14803	11361	77%	11.05	1340	
75°F	13675	10530	77%	12.27	1115	14239	10964	77%	12.14	1173	14521	11181	77%	10.19	1425	15367	11832	77%	11.29	1362	
80°F	13887	10727	77%	12.27	1132	14450	11163	77%	12.13	1192	14732	11381	77%	10.18	1448	15578	12034	77%	11.26	1383	
85°F	14098	10926	78%	12.26	1150	14662	11363	78%	12.11	1210	14944	11582	78%	10.17	1470	15790	12237	77%	11.24	1405	
90°F	13675	10632	78%	11.77	1162	14239	11071	78%	11.65	1223	14521	11290	78%	9.78	1485	15367	11948	78%	10.83	1419	
95°F	13252	10337	78%	11.30	1173	13816	10777	78%	11.19	1235	14098	10996	78%	9.40	1500	14944	11656	78%	10.43	1433	
100°F	12900	10094	78%	10.73	1203	13464	10535	78%	10.64	1266	13746	10756	78%	8.94	1538	14591	11418	78%	9.93	1469	
105°F	12547	9850	79%	10.19	1232	13111	10292	78%	10.11	1297	13393	10514	78%	8.50	1575	14239	11178	79%	9.46	1505	
110°F	12336	9714	79%	9.78	1261	12900	10158	79%	9.72	1328	13182	10381	79%	8.17	1613	14028	11047	79%	9.10	1541	
115°F	12124	9578	79%	9.39	1291	12688	10024	79%	9.34	1359	12970	10246	79%	7.86	1650	13816	10915	79%	8.76	1577	
120°F	11631	9217	79%	8.98	1295	12195	9664	79%	8.78	1389	12477	9888	79%	7.39	1688	13323	10558	79%	8.26	1612	
122°F	11137	8854	80%	8.57	1300	11701	9303	80%	8.24	1420	11983	9527	79%	6.95	1725	12829	10199	80%	7.78	1648	
125°F																					
129°F																					

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

EXTENDED RATINGS

DUCT12HP230V1BD / 3VIR12HP230V1BO

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)	TC (Btu/h)	COP(W/W)	Power Input (W)	
DB	WB	MAX OUTPUT*															
-22°F	-22.5°F	8525	2.45	1020	8215	2.31	1041	7905	2.18	1061	7595	2.06	1083	-22°F	1083		
-20°F	-20.5°F	8758	2.49	1031	8448	2.36	1051	8138	2.22	1072	7828	2.10	1094	-20°F	1094		
-15°F	-16°F	8990	2.53	1041	8680	2.40	1062	8370	2.27	1083	8060	2.14	1105	-15°F	1105		
-10°F	-11°F	9533	2.66	1052	9223	2.52	1073	8913	2.39	1094	8603	2.26	1116	-10°F	1116		
-5°F	-6°F	10075	2.78	1062	9765	2.64	1083	9455	2.51	1105	9145	2.38	1127	-5°F	1127		
0°F	-1°F	10540	2.85	1084	10230	2.71	1106	9920	2.58	1128	9610	2.45	1150	0°F	1150		
5°F	3°F	11005	2.92	1106	10695	2.78	1128	10385	2.64	1151	10075	2.52	1174	5°F	1174		
10°F	8°F	11625	3.02	1129	11315	2.88	1151	11005	2.75	1174	10695	2.62	1198	10°F	1198		
15°F	13°F	11858	3.05	1140	11858	2.99	1163	11548	2.85	1186	11238	2.72	1210	15°F	1210		
17°F	15°F	12090	3.08	1152	12400	3.09	1175	12090	2.96	1198	11780	2.83	1222	17°F	1222		
20°F	17°F	12710	3.17	1175	12400	3.03	1199	12090	2.90	1223	11780	2.77	1247	20°F	1247		
25°F	22°F	13175	3.22	1199	12865	3.08	1223	12555	2.95	1248	12245	2.82	1272	25°F	1272		
30°F	27°F	13408	3.24	1211	13098	3.11	1236	12788	2.97	1260	12478	2.84	1285	30°F	1285		
35°F	33°F	13640	3.27	1224	13330	3.13	1248	13020	3.00	1273	12710	2.87	1298	35°F	1298		
40°F	36°F	14725	3.46	1249	14415	3.32	1273	14105	3.18	1299	13795	3.05	1325	40°F	1325		
45°F	41°F	15190	3.49	1274	14880	3.36	1299	14570	3.22	1325	14260	3.09	1352	45°F	1352		
47°F	43°F	15500	3.49	1300	15190	3.36	1326	14880	3.22	1353	14570	3.09	1380	47°F	1380		
50°F	46°F	15345	3.44	1307	15035	3.31	1333	14725	3.17	1359	14415	3.05	1386	50°F	1386		
55°F	50°F	15190	3.39	1313	14880	3.26	1339	14570	3.13	1366	14260	3.00	1393	55°F	1393		
60°F	55°F	15035	3.32	1326	14725	3.19	1353	14415	3.06	1380	14105	2.94	1407	60°F	1407		
65°F	60°F	14725	3.39	1274	14415	3.25	1299	14105	3.12	1325	13795	2.99	1352	65°F	1352		
70°F	64°F	14570	3.37	1268	14260	3.23	1293	13950	3.10	1319	13640	2.97	1345	70°F	1345		
75°F	69°F	14415	3.35	1261	14105	3.21	1286	13795	3.08	1312	13485	2.95	1338	75°F	1338		
80°F	74°F	13175	3.16	1222	12865	3.03	1246	12555	2.90	1271	12245	2.77	1297	80°F	1297		
86°F	80°F	11625	2.85	1196	11315	2.72	1220	11005	2.59	1244	10695	2.47	1269	86°F	1269		

*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

DUCT18HP230V1BD / 3VIR18HP230V1BO

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)	SHR	EER	TC (Btu/h)	SHR	EER(Btu/(h-W))	TC (Btu/h)	SHR	EER(Btu/(h-W))	TC (Btu/h)	SHR	EER(Btu/(h-W))								
-20°F	8354	5932	71%	9.54	876	8613	6287	73%	9.64	894	8834	6537	74%	9.69	912	9452	7089	75%	9.87	957
-15°F	8613	6201	72%	9.64	894	8879	6571	74%	9.74	912	9107	6830	75%	9.79	931	9744	7406	76%	9.97	977
-10°F	8879	6393	72%	9.74	912	9154	6774	74%	9.84	931	9389	7041	75%	9.89	949	10046	7635	76%	10.08	997
-5°F	9154	6591	72%	9.84	931	9437	6983	74%	9.94	949	9679	7259	75%	9.99	969	10356	7871	76%	10.18	1017
0°F	9437	6795	72%	9.94	949	9729	7199	74%	10.04	969	9978	7484	75%	10.09	989	10677	8114	76%	10.29	1038
5°F	9729	7102	73%	10.04	969	10030	7522	75%	10.14	989	10287	7818	76%	10.20	1009	11007	8475	77%	10.39	1059
10°F	10030	7322	73%	10.14	989	10340	7755	75%	10.25	1009	10605	8060	76%	10.30	1029	11347	8738	77%	10.50	1081
15°F	10340	7548	73%	10.25	1009	10660	7995	75%	10.36	1029	10933	8309	76%	10.41	1050	11698	9008	77%	10.61	1103
20°F	10660	7782	73%	10.36	1029	10989	8242	75%	10.46	1050	11271	8566	76%	10.52	1072	12060	9286	77%	10.72	1125
25°F	10989	8132	74%	10.46	1050	11329	8610	76%	10.57	1072	11620	8947	77%	10.62	1094	12433	9698	78%	10.83	1148
30°F	11329	8384	74%	10.57	1072	11680	8877	76%	10.68	1094	11979	9224	77%	10.73	1116	12818	9998	78%	10.94	1172
35°F	11680	8643	74%	10.68	1094	12041	9151	76%	10.79	1116	12350	9509	77%	10.84	1139	13214	10307	78%	11.05	1196
40°F	12041	8910	74%	10.79	1116	12413	9434	76%	10.90	1139	12732	9803	77%	10.96	1162	13623	10626	78%	11.16	1220
45°F	12413	9310	75%	10.90	1139	12797	9854	77%	11.01	1162	13125	10238	78%	11.07	1186	14044	11095	79%	11.28	1245
50°F	12797	9598	75%	11.01	1162	13193	10159	77%	11.13	1186	13531	10554	78%	11.18	1210	14478	11438	79%	11.40	1270
55°F	13193	9895	75%	11.13	1186	13601	10473	77%	11.24	1210	13950	10881	78%	11.30	1235	14926	11792	79%	11.51	1296
60°F	13601	10201	75%	11.24	1210	14022	10797	77%	11.36	1235	14381	11217	78%	11.41	1260	15388	12156	79%	11.63	1323
65°F	14021	10461	76%	11.37	1407	14696	12867	78%	11.49	1436	14919	13366	79%	11.55	1465	16103	14483	80%	11.77	1538
70°F	14601	12409	76%	11.49	1421	16833	13130	78%	11.61	1450	17264	13639	79%	11.67	1480	18473	14778	80%	11.89	1554
75°F	16833	12793	76%	11.61	1450	17353	13536	78%	11.73	1480	17798	14061	79%	11.79	1510	19044	15235	80%	12.01	1585
80°F	19128	14537	76%	11.48	1667	19720	15381	78%	11.59	1701	20225	15978	79%	11.65	1736	21641	17313	80%	11.88	1822
85°F	18753	14440	77%	11.03	1701	19333	15273	79%	11.14	1736	19829	15863	80%	11.20	1771	21217	17186	81%	11.41	1860
90°F	20837	16044	77%	10.90	1911	21481	16970	79%	11.02	1950	22032	17626	80%	11.07	1990	23574	19095	81%	11.28	2089
95°F	20428	15730	77%	10.58	1930	21060	16637	79%	10.69	1970	21600	17280	80%	10.75	2010	23112	18721	81%	10.95	2111
100°F	19407	14943	77%	10.00	1940	20007	15806	79%	10.11	1980	20520	16416	80%	10.16	2020	21956	17785	81%	10.35	2121
105°F	18436	14380	78%	9.46	1950	19007	15205	80%	9.55	1990	19494	15790	81%	9.60	2030	20859	17104	82%	9.79	2132
110°F	17205	13420	78%	9.33	1844	17737	14190	80%	9.43	1882	18192	14736	81%	9.48	1920	19465	15962	82%	9.66	2016
115°F	14796	11541	78%	9.02	1641	15254	12203	80%	9.11	1675	15645	12673	81%	9.16	1709	16740	13727	82%	9.33	1794
120°F	13613	10618	78%	8.64	1575	14034	11227	80%	8.73	1608	14394	11659	81%	8.77	1640	15401	12629	82%	8.94	1722
122°F	12660	10001	79%	8.37	1512	13051	10572	81%	8.46	1543	13386	10976	82%	8.50	1575	14323	11888	83%	8.66	1654
125°F																				
129°F																				

MAX OUTPUT*

*Maximum Output values are not based on AHR1 test conditions

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

EXTENDED RATINGS

DUCT24HP230V1BD / 3VIR24HP230V1BO

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)
-20°F	11021	7990	73%	8.31	1327	11808	8561	73%	8.61	1371	12202	8846	73%	8.49	1437
-15°F	11515	8349	73%	8.42	1368	12296	8915	72%	8.54	1440	12686	9198	73%	8.37	1516
-10°F	11939	8687	73%	8.71	1370	12716	9252	73%	8.82	1442	13104	9534	73%	8.63	1518
-5°F	12335	9370	73%	9.33	1376	13637	9955	73%	9.42	1448	14038	10248	73%	9.21	1524
0°F	13482	9876	73%	9.77	1380	14311	10484	73%	9.86	1452	14726	10787	73%	9.63	1529
5°F	14240	10467	74%	9.88	1441	15103	11101	74%	9.96	1517	15535	11418	74%	9.73	1597
10°F	15285	11274	74%	10.57	1446	16191	11942	74%	10.64	1522	16644	12276	74%	10.39	1602
15°F	15615	11555	74%	10.68	1462	16521	12225	74%	10.74	1539	16973	12560	74%	10.48	1620
20°F	15940	11836	74%	10.52	1515	16851	12512	74%	10.57	1595	17306	12850	74%	10.31	1679
25°F	16181	12055	75%	10.48	1544	17093	12734	74%	10.52	1625	17549	13074	75%	10.26	1711
30°F	16465	12309	75%	10.38	1587	17361	12979	75%	10.39	1670	17809	13313	75%	10.13	1758
35°F	16798	12598	75%	10.46	1606	17682	13261	75%	10.46	1691	18124	13593	75%	10.18	1779
40°F	18424	13865	75%	11.19	1647	19375	14580	75%	11.17	1734	19850	14938	75%	10.88	1825
45°F	19213	14506	75%	11.28	1704	20186	15240	75%	11.26	1793	20672	15607	75%	10.95	1888
50°F	20097	15225	76%	11.48	1750	21083	15972	76%	11.44	1842	21576	16346	76%	11.13	1939
55°F	20565	15629	76%	11.52	1785	21544	16373	76%	11.47	1879	22084	16746	76%	11.14	1977
60°F	21253	16207	76%	11.73	1812	22236	16956	76%	11.66	1907	22727	17331	76%	11.32	2008
65°F	21529	16470	76%	11.61	1854	22497	17210	76%	11.53	1952	22981	17580	76%	11.18	2055
70°F	22160	17010	77%	11.83	1874	23113	17742	77%	11.72	1972	23590	18108	77%	11.36	2076
75°F	22857	17600	77%	12.07	1894	23799	18325	77%	11.94	1994	24270	18688	77%	11.56	2099
80°F	23084	17834	77%	11.59	1992	24022	18558	77%	11.46	2097	24491	18920	77%	11.10	2207
85°F	23735	18395	77%	11.63	2041	24685	19131	78%	11.49	2149	25160	19499	78%	11.12	2262
90°F	24158	18781	78%	11.54	2093	25155	19556	78%	11.42	2203	25653	19943	78%	11.06	2319
95°F	24778	19327	78%	11.58	2141	25833	20150	78%	11.46	2253	26360	20561	78%	11.11	2372
100°F	24669	19302	78%	11.27	2188	25747	20145	78%	11.18	2303	26286	20567	78%	10.84	2425
105°F	23987	18830	79%	10.69	2244	25065	19676	79%	10.61	2362	25604	20099	78%	10.30	2487
110°F	23847	18778	79%	10.42	2289	24937	19637	79%	10.35	2409	25482	20066	79%	10.05	2536
115°F	22320	17633	79%	9.68	2306	23359	18453	79%	9.62	2427	23878	18863	79%	9.35	2555
120°F	20863	16531	79%	9.15	2281	21874	17333	79%	8.94	2447	22380	17734	79%	8.69	2576
122°F	19518	15517	80%	8.62	2265	20507	16303	80%	8.29	2475	21001	16696	79%	8.06	2605
125°F															
129°F															

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

EXTENDED RATINGS

DUCT24HP230V1BD / 3VIR24HP230V1BO

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)	TC (Btu/h)	COP(W/W)	Power Input (W)	
DB	WB	MAX OUTPUT*															
-22°F	-22.5°F	13339	7.63	1748	12938	7.11	1819	12738	6.87	1856	12239	6.47	1893	11640	6.03	1930	
-20°F	-20.5°F	13601	7.68	1771	13193	7.16	1843	12989	6.91	1880	12494	6.52	1918	11902	6.08	1955	
-15°F	-16°F	14157	7.94	1783	13732	7.40	1856	13520	7.14	1893	13019	6.74	1931	12164	6.30	1968	
-10°F	-11°F	14673	8.10	1812	14232	7.55	1886	14012	7.28	1924	13525	6.89	1962	12426	6.41	2000	
-5°F	-6°F	16602	8.87	1871	15134	7.99	1894	14900	7.71	1932	14411	7.31	1971	12688	6.67	2037	
0°F	-1°F	18647	9.72	1917	15177	8.25	1933	14942	7.58	1971	14476	7.20	2011	12950	6.93	2074	
5°F	3°F	19349	9.89	1955	16246	8.24	1972	15995	7.95	2012	15517	7.56	2052	13212	7.19	2131	
10°F	8°F	18093	9.36	1934	17550	8.72	2013	17279	8.42	2053	16792	8.02	2094	13474	7.45	2210	
15°F	13°F	19157	9.71	1973	18582	9.05	2054	18295	8.73	2095	17804	8.33	2137	13736	7.71	2289	
17°F	15°F	19256	9.63	1999	18678	8.98	2081	18389	8.67	2122	17918	8.28	2165	14000	7.97	2368	
20°F	17°F	19344	9.61	2013	18764	8.95	2095	18474	8.64	2137	18000	8.26	2180	14262	8.23	2447	
25°F	22°F	20491	9.97	2054	19876	9.30	2138	19569	8.97	2181	19086	8.58	2225	14524	8.49	2526	
30°F	27°F	21060	10.05	2096	20428	9.36	2182	20113	9.04	2226	19625	8.65	2270	14786	8.75	2605	
35°F	33°F	22513	10.60	2124	21838	9.88	2211	21500	9.53	2255	20988	9.13	2300	15048	9.01	2684	
40°F	36°F	23954	11.20	2139	23235	10.44	2226	22876	10.07	2271	22373	9.66	2316	15310	9.27	2763	
45°F	41°F	26563	12.17	2183	26611	11.71	2272	26200	11.31	2317	25642	10.85	2364	15572	9.53	2842	
47°F	43°F	26752	12.01	2227	26300	11.35	2318	25967	10.98	2365	25933	10.75	2412	15834	9.79	2921	
50°F	46°F	27929	12.35	2261	27414	11.65	2354	26843	11.18	2401	26664	10.89	2449	16096	10.05	3000	
55°F	50°F	28301	12.34	2294	28297	11.85	2388	27859	11.44	2436	27267	10.98	2484	16358	10.31	3079	
60°F	55°F	29461	12.03	2448	29396	11.95	2459	28928	11.53	2509	28287	11.06	2559	16620	10.57	3158	
65°F	60°F	30241	11.97	2526	30178	11.91	2533	29712	11.50	2584	29059	11.03	2636	16882	10.83	3237	
70°F	64°F	29539	12.07	2448	28653	10.98	2609	28210	10.60	2661	27583	10.16	2715	17144	11.09	3316	
75°F	69°F	28577	11.88	2405	27719	10.31	2687	27291	9.96	2741	26677	9.54	2796	17406	11.35	3395	
80°F	74°F	26247	11.78	2228	25460	9.20	2768	25066	8.88	2823	24447	8.49	2880	17668	11.61	3474	
86°F	80°F	26041	11.77	2213	25259	9.19	2750	24869	8.87	2805	24168	8.45	2861	17930	11.87	3553	

*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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