



EXTENDED RATINGS

Cooling Performance

DUC09

DUC09HP230V1R32AH / ENV09HP230V1R32AO / VIR09HP230V1R32AO
DUC09HP230V1R32AH / SAP09HP230V1R32AO

DUC12

DUC12HP230V1R32AH / ENV12HP230V1R32AO / VIR12HP230V1R32AO
DUC12HP230V1R32AH / SAP12HP230V1R32AO

DUC18

DUC18HP230V1R32AH / ENV18HP230V1R32AO / VIR18HP230V1R32AO
DUC18HP230V1R32AH / SAP18HP230V1R32AO

DUC24

DUC24HP230V1R32AH / ENV24HP230V1R32AO / VIR24HP230V1R32AO
DUC24HP230V1R32AH / SAP24HP230V1R32AO

DUC30

DUC30HP230V1R32AH / LIV30HP230V1R32AO

DUC36

DUC36HP230V1R32AH / LIV36HP230V1R32AO

Heating Performance

DUC09

DUC09HP230V1R32AH / ENV09HP230V1R32AO / VIR09HP230V1R32AO
DUC09HP230V1R32AH / SAP09HP230V1R32AO

DUC12

DUC12HP230V1R32AH / ENV12HP230V1R32AO / VIR12HP230V1R32AO
DUC12HP230V1R32AH / SAP12HP230V1R32AO

DUC18

DUC18HP230V1R32AH / ENV18HP230V1R32AO / VIR18HP230V1R32AO
DUC18HP230V1R32AH / SAP18HP230V1R32AO

DUC24

DUC24HP230V1R32AH / ENV24HP230V1R32AO / VIR24HP230V1R32AO
DUC24HP230V1R32AH / SAP24HP230V1R32AO

DUC30

DUC30HP230V1R32AH / LIV30HP230V1R32AO

DUC36

DUC36HP230V1R32AH / LIV36HP230V1R32AO

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

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<https://www.greecomfort.com/our-products>

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	6832	4953	73%	10.45	654	7320	5307	73%	10.83	676	7564	5484	73%	10.68	709	8296	6015	73%	10.87	763
	-15°F	7198	5219	73%	10.76	669	7686	5572	73%	10.92	704	7930	5749	73%	10.70	741	8662	6280	73%	10.60	817
	-10°F	7503	5458	73%	10.97	684	7991	5813	73%	11.10	720	8235	5991	73%	10.87	758	8967	6523	73%	10.74	835
	-5°F	7808	5700	73%	11.18	698	8296	6056	73%	11.28	735	8540	6234	73%	11.04	774	9272	6769	73%	10.87	853
	0°F	7930	5809	73%	11.12	713	8418	6166	73%	11.21	751	8662	6345	73%	10.96	790	9394	6881	73%	10.78	871
	5°F	8052	5918	74%	11.06	728	8540	6277	74%	11.14	766	8784	6456	74%	10.89	807	9516	6994	74%	10.70	889
	10°F	8235	6073	74%	11.09	743	8723	6433	74%	11.16	782	8967	6613	74%	10.90	823	9699	7153	74%	10.69	907
	15°F	8418	6229	74%	11.11	757	8906	6590	74%	11.17	797	9150	6771	74%	10.90	839	9882	7313	74%	10.68	925
	20°F	8540	6341	74%	11.06	772	9028	6703	74%	11.11	813	9272	6884	74%	10.84	856	10004	7428	74%	10.60	943
	25°F	8662	6453	75%	11.01	787	9150	6817	75%	11.05	828	9394	6999	75%	10.77	872	10126	7544	75%	10.53	961
	30°F	8967	6703	75%	11.18	802	9455	7068	75%	11.20	844	9699	7250	75%	10.92	888	10431	7797	75%	10.65	979
	35°F	9272	6954	75%	11.36	816	9760	7320	75%	11.36	859	10004	7503	75%	11.06	905	10736	8052	75%	10.76	997
	40°F	9455	7115	75%	11.37	831	9943	7482	75%	11.36	875	10187	7666	75%	11.06	921	10919	8217	75%	10.75	1015
	45°F	9638	7277	76%	11.39	846	10126	7645	76%	11.37	891	10370	7829	76%	11.06	937	11102	8382	76%	10.74	1033
	50°F	9943	7532	76%	11.55	861	10431	7901	76%	11.51	906	10675	8086	76%	11.19	954	11407	8641	76%	10.85	1052
	55°F	10248	7788	76%	11.71	876	10736	8159	76%	11.65	922	10980	8345	76%	11.32	970	11712	8901	76%	10.95	1070
	60°F	10553	8047	76%	11.85	890	11041	8419	76%	11.78	937	11285	8605	76%	11.44	986	12017	9163	76%	11.05	1088
	65°F	10858	8306	77%	12.00	905	11346	8680	77%	11.91	953	11590	8866	77%	11.56	1003	12322	9426	77%	11.15	1106
	70°F	11346	8708	77%	12.34	920	11834	9083	77%	12.22	968	12078	9270	77%	11.85	1019	12810	9832	77%	11.40	1124
	75°F	11834	9112	77%	12.66	935	12322	9488	77%	12.53	984	12566	9676	77%	12.14	1036	13298	10239	77%	11.65	1142
80°F	12017	9283	77%	12.66	949	12505	9660	77%	12.51	999	12749	9849	77%	12.12	1052	13481	10414	77%	11.62	1160	
85°F	12200	9455	78%	12.65	964	12688	9833	78%	12.50	1015	12932	10022	78%	12.11	1068	13664	10590	78%	11.60	1178	
90°F	11834	9201	78%	12.15	974	12322	9580	78%	12.02	1025	12566	9770	78%	11.64	1079	13298	10339	78%	11.18	1190	
95°F	11468	8945	78%	11.66	984	11956	9326	78%	11.55	1036	12200	9516	78%	11.19	1090	12932	10087	78%	10.76	1202	
100°F	11163	8735	78%	11.07	1008	11651	9117	78%	10.98	1061	11895	9308	78%	10.65	1117	12627	9881	78%	10.25	1232	
105°F	10858	8524	79%	10.51	1033	11346	8907	79%	10.44	1087	11590	9098	79%	10.13	1145	12322	9673	79%	9.77	1262	
110°F	10675	8407	79%	10.09	1058	11163	8791	79%	10.03	1113	11407	8983	79%	9.74	1172	12139	9559	79%	9.40	1292	
115°F	10492	8289	79%	9.70	1082	10980	8674	79%	9.64	1139	11224	8867	79%	9.36	1199	11956	9445	79%	9.04	1322	
120°F	10065	7977	79%	9.27	1086	10553	8363	79%	9.06	1165	10797	8557	79%	8.80	1226	11529	9137	79%	8.53	1352	
122°F	9638	7662	80%	8.84	1090	10126	8050	80%	8.50	1191	10370	8244	80%	8.27	1254	11102	8826	80%	8.03	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



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	3805	2758	73%	10.70	356	4076	2955	73%	11.09	368	4212	3054	73%	10.93	385	4620	3349	73%	11.13	415
	-15°F	3975	2882	73%	10.84	367	4245	3078	72%	10.99	386	4380	3175	73%	10.77	407	4784	3468	73%	10.67	448
	-10°F	4122	2999	73%	11.22	367	4390	3194	73%	11.35	387	4524	3291	73%	11.11	407	4926	3584	73%	10.98	449
	-5°F	4431	3235	73%	12.01	369	4708	3437	73%	12.12	388	4846	3538	73%	11.86	409	5262	3841	73%	11.68	451
	0°F	4654	3409	73%	12.58	370	4941	3619	73%	12.69	389	5084	3724	73%	12.40	410	5513	4039	73%	12.20	452
	5°F	4916	3613	74%	12.72	386	5214	3832	74%	12.82	407	5363	3942	74%	12.52	428	5810	4270	74%	12.31	472
	10°F	5277	3892	74%	13.61	388	5590	4123	74%	13.70	408	5746	4238	74%	13.37	430	6215	4584	74%	13.12	474
	15°F	5391	3989	74%	13.75	392	5703	4220	74%	13.82	413	5860	4336	74%	13.49	434	6328	4683	74%	13.22	479
	20°F	5503	4086	74%	13.55	406	5817	4319	74%	13.60	428	5974	4436	74%	13.27	450	6446	4786	74%	12.99	496
	25°F	5586	4162	75%	13.49	414	5901	4396	74%	13.54	436	6058	4513	75%	13.20	459	6530	4865	74%	12.91	506
	30°F	5684	4249	75%	13.36	425	5993	4480	75%	13.38	448	6148	4596	75%	13.04	471	6612	4943	75%	12.72	520
	35°F	5799	4349	75%	13.47	431	6104	4578	75%	13.47	453	6257	4693	75%	13.11	477	6715	5036	75%	12.76	526
	40°F	6360	4786	75%	14.40	442	6689	5033	75%	14.39	465	6853	5157	75%	14.00	489	7345	5527	75%	13.61	540
	45°F	6633	5008	75%	14.52	457	6969	5261	75%	14.49	481	7136	5388	75%	14.10	506	7640	5768	76%	13.69	558
	50°F	6938	5256	76%	14.78	469	7278	5514	76%	14.73	494	7449	5643	76%	14.32	520	7959	6030	76%	13.88	573
	55°F	7099	5396	76%	14.84	479	7437	5652	76%	14.77	504	7606	5781	76%	14.35	530	8114	6166	76%	13.88	585
	60°F	7337	5595	76%	15.10	486	7676	5854	76%	15.01	511	7846	5983	76%	14.57	538	8355	6371	76%	14.08	594
	65°F	7432	5686	76%	14.95	497	7766	5941	76%	14.84	523	7933	6069	76%	14.40	551	8434	6452	77%	13.89	607
	70°F	7650	5872	77%	15.23	502	7979	6125	77%	15.09	529	8144	6251	77%	14.63	557	8637	6630	77%	14.07	614
	75°F	7891	6076	77%	15.53	508	8216	6326	77%	15.37	535	8379	6452	77%	14.89	563	8867	6827	77%	14.29	620
	80°F	7969	6157	77%	14.92	534	8293	6407	77%	14.75	562	8455	6531	77%	14.29	592	8940	6906	77%	13.70	652
85°F	8194	6350	77%	14.97	547	8522	6604	78%	14.79	576	8686	6731	78%	14.32	606	9177	7112	78%	13.73	669	
90°F	8340	6484	78%	14.86	561	8684	6751	78%	14.70	591	8856	6885	78%	14.24	622	9372	7286	78%	13.67	686	
95°F	8554	6672	78%	14.90	574	8918	6956	78%	14.76	604	9100	7098	78%	14.31	636	9646	7524	78%	13.76	701	
100°F	8516	6663	78%	14.51	587	8888	6955	78%	14.39	618	9075	7100	78%	13.96	650	9633	7537	78%	13.44	717	
105°F	8281	6500	79%	13.76	602	8653	6792	79%	13.66	633	8839	6939	78%	13.26	667	9397	7377	79%	12.78	735	
110°F	8232	6483	79%	13.41	614	8609	6779	79%	13.33	646	8797	6927	79%	12.94	680	9361	7372	79%	12.49	750	
115°F	7705	6087	79%	12.46	618	8064	6370	79%	12.39	651	8243	6512	79%	12.03	685	8781	6937	79%	11.63	755	
120°F	7202	5707	79%	11.78	612	7551	5984	79%	11.51	656	7726	6122	79%	11.19	691	8250	6537	79%	10.84	761	
122°F	6738	5357	80%	11.09	607	7079	5628	80%	10.67	664	7250	5764	79%	10.38	698	7762	6171	79%	10.08	770	
125°F																					
129°F																					

*Maximum Output values are not based on AHRI test conditions

- LEGEND: W - Watts
 DB - Dry Bulb
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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	6954	1.71	1193	6608	1.59	1217	6354	1.50	1241	6158	1.43	1266
	-20°F	-20.5°F	7684	1.87	1205	7412	1.77	1229	7140	1.67	1254	6868	1.57	1279
	-15°F	-16°F	7888	1.90	1217	7616	1.80	1241	7344	1.70	1266	7072	1.60	1292
	-10°F	-11°F	8364	1.99	1230	8092	1.89	1254	7820	1.79	1279	7548	1.70	1305
	-5°F	-6°F	8840	2.09	1242	8568	1.98	1267	8296	1.88	1292	8024	1.78	1318
	0°F	-1°F	9248	2.14	1267	8976	2.04	1293	8704	1.93	1318	8432	1.84	1345
	5°F	3°F	9542	2.16	1293	9384	2.09	1319	9112	1.98	1345	8840	1.89	1372
	10°F	8°F	10200	2.27	1320	9928	2.16	1346	9656	2.06	1373	9384	1.96	1400
	15°F	13°F	10404	2.29	1333	10404	2.24	1360	10132	2.14	1387	9860	2.04	1415
	17°F	15°F	10608	2.31	1346	10880	2.32	1373	10608	2.22	1401	10336	2.12	1429
	20°F	17°F	11152	2.38	1374	10880	2.28	1401	10608	2.17	1429	10336	2.08	1458
	25°F	22°F	11560	2.42	1402	11288	2.31	1430	11016	2.21	1459	10744	2.12	1488
	30°F	27°F	11764	2.43	1416	11492	2.33	1445	11220	2.23	1474	10948	2.13	1503
	35°F	33°F	11968	2.45	1431	11696	2.35	1459	11424	2.25	1488	11152	2.15	1518
	40°F	36°F	12920	2.59	1460	12648	2.49	1489	12376	2.39	1519	12104	2.29	1549
	45°F	41°F	13328	2.62	1490	13056	2.52	1519	12784	2.42	1550	12512	2.32	1581
47°F	43°F	13600	2.62	1520	13328	2.52	1550	13056	2.42	1581	12784	2.32	1613	
50°F	46°F	13464	2.58	1528	13192	2.48	1558	12920	2.38	1589	12648	2.29	1621	
55°F	50°F	13328	2.54	1535	13056	2.44	1566	12784	2.35	1597	12512	2.25	1629	
60°F	55°F	13192	2.49	1550	12920	2.39	1581	12648	2.30	1613	12376	2.20	1645	
65°F	60°F	12920	2.54	1490	12648	2.44	1519	12376	2.34	1550	12104	2.24	1581	
70°F	64°F	12784	2.53	1482	12512	2.43	1512	12240	2.33	1542	11968	2.23	1573	
75°F	69°F	12648	2.51	1474	12376	2.41	1504	12104	2.31	1534	11832	2.22	1565	
80°F	74°F	11560	2.37	1429	11288	2.27	1457	11016	2.17	1487	10744	2.08	1516	
86°F	80°F	10200	2.14	1398	9928	2.04	1426	9656	1.95	1455	9384	1.85	1484	

*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



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	5235	2.66	576	5078	2.48	600	5000	2.40	612	4804	2.26	624
	-20°F	-20.5°F	5338	2.68	584	5178	2.50	608	5098	2.41	620	4904	2.27	632
	-15°F	-16°F	5557	2.77	588	5390	2.58	612	5306	2.49	624	5110	2.35	637
	-10°F	-11°F	5759	2.83	597	5586	2.63	622	5500	2.54	634	5308	2.41	647
	-5°F	-6°F	6123	2.99	600	5940	2.79	624	5848	2.69	637	5656	2.55	650
	0°F	-1°F	6141	2.94	612	5957	2.74	637	5865	2.65	650	5681	2.51	663
	5°F	3°F	6574	3.08	625	6376	2.87	650	6278	2.77	663	6090	2.64	676
	10°F	8°F	7101	3.27	637	6888	3.04	663	6782	2.94	677	6591	2.80	690
	15°F	13°F	7519	3.39	650	7293	3.16	677	7180	3.05	690	6988	2.91	704
	17°F	15°F	7558	3.36	659	7331	3.13	686	7218	3.02	699	7033	2.89	713
	20°F	17°F	7592	3.35	664	7365	3.13	691	7251	3.02	704	7065	2.88	719
	25°F	22°F	8043	3.48	677	7801	3.24	705	7681	3.13	719	7491	2.99	733
	30°F	27°F	8266	3.51	691	8018	3.27	719	7894	3.15	734	7703	3.02	748
	35°F	33°F	8836	3.70	700	8571	3.45	729	8439	3.33	743	8238	3.18	758
	40°F	36°F	9402	3.91	705	9120	3.64	734	8979	3.52	748	8781	3.37	763
	45°F	41°F	10426	4.25	719	10445	4.09	749	10283	3.95	764	10064	3.79	779
	47°F	43°F	10500	4.19	734	10323	3.96	764	10192	3.83	779	10178	3.75	795
	50°F	46°F	10962	4.31	745	10760	4.07	776	10536	3.90	791	10465	3.80	807
55°F	50°F	11108	4.31	756	11106	4.14	787	10934	3.99	803	10702	3.83	819	
60°F	55°F	11563	4.20	807	11538	4.17	811	11354	4.02	827	11102	3.86	843	
65°F	60°F	11869	4.18	833	11845	4.16	835	11662	4.01	852	11405	3.85	869	
70°F	64°F	11594	4.21	807	11246	3.83	860	11072	3.70	877	10826	3.55	895	
75°F	69°F	11216	4.15	793	10879	3.60	886	10711	3.47	903	10471	3.33	922	
80°F	74°F	10302	4.11	734	9993	3.21	912	9838	3.10	931	9595	2.96	949	
86°F	80°F	10221	4.11	729	9914	3.21	906	9761	3.09	925	9486	2.95	943	

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DB - Dry Bulb

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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	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	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



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	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
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 SHR - Sensible Heat Ratio
 COP - Coefficient of Performance



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	8632	1.69	1495	8318	1.60	1525	8005	1.51	1556	7691	1.42	1587
	-22°F	-22.5°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



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	9006	1.58	1676	8660	1.49	1709	8314	1.40	1743	7967	1.31	1778
	-20°F	-20.5°F	9266	1.60	1693	8920	1.51	1727	8573	1.43	1761	8227	1.34	1796
	-15°F	-16°F	9526	1.63	1710	9180	1.54	1744	8833	1.46	1779	8487	1.37	1815
	-10°F	-11°F	9786	1.66	1727	9439	1.57	1762	9093	1.48	1797	8747	1.40	1833
	-5°F	-6°F	10046	1.69	1745	9699	1.60	1780	9353	1.51	1815	9006	1.43	1852
	0°F	-1°F	10738	1.77	1780	10392	1.68	1816	10046	1.59	1852	9699	1.50	1889
	5°F	3°F	12124	1.96	1817	11778	1.86	1853	11431	1.77	1890	11085	1.69	1928
	10°F	8°F	12990	2.01	1891	12644	1.92	1928	12297	1.83	1967	11951	1.75	2006
	15°F	13°F	13250	2.11	1839	13250	2.07	1876	12903	1.98	1913	12557	1.89	1951
	17°F	15°F	13510	2.22	1787	13856	2.23	1823	13510	2.13	1859	13163	2.03	1897
	20°F	17°F	13856	2.04	1994	13510	1.95	2034	13163	1.86	2075	12817	1.78	2116
	25°F	22°F	14202	2.07	2009	13856	1.98	2049	13510	1.89	2090	13163	1.81	2132
	30°F	27°F	14462	2.40	1765	14116	2.30	1800	13769	2.20	1836	13423	2.10	1873
	35°F	33°F	14722	2.84	1521	14376	2.71	1552	14029	2.60	1583	13683	2.48	1614
	40°F	36°F	16454	3.40	1419	16108	3.26	1447	15761	3.13	1476	15415	3.00	1505
	45°F	41°F	16974	3.44	1447	16627	3.30	1476	16281	3.17	1506	15934	3.04	1536
47°F	43°F	17320	3.44	1477	16974	3.30	1507	16627	3.17	1537	16281	3.05	1567	
50°F	46°F	17147	3.39	1484	16800	3.25	1514	16454	3.12	1544	16108	3.00	1575	
55°F	50°F	16974	3.33	1492	16627	3.20	1522	16281	3.07	1552	15934	2.95	1583	
60°F	55°F	16800	3.27	1507	16454	3.14	1537	16108	3.01	1567	15761	2.89	1599	
65°F	60°F	16454	3.33	1447	16108	3.20	1476	15761	3.07	1506	15415	2.94	1536	
70°F	64°F	16281	3.31	1440	15934	3.18	1469	15588	3.05	1498	15242	2.92	1528	
75°F	69°F	16108	3.30	1433	15761	3.16	1461	15415	3.03	1491	15068	2.91	1520	
80°F	74°F	14722	3.11	1388	14376	2.98	1416	14029	2.85	1444	13683	2.72	1473	
86°F	80°F	12990	2.80	1359	12644	2.67	1386	12297	2.55	1414	11951	2.43	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



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	9078	5901	65%	11.91	762	9359	6271	67%	12.03	778	9599	6527	68%	12.09	794	10271	7087	69%	12.32	833
	-15°F	9359	6271	67%	12.03	778	9648	6657	69%	12.16	794	9896	6927	70%	12.22	810	10589	7518	71%	12.45	850
	-10°F	9648	6464	67%	12.16	794	9947	6863	69%	12.28	810	10202	7141	70%	12.34	826	10916	7750	71%	12.58	868
	-5°F	9947	6664	67%	12.28	810	10255	7076	69%	12.41	826	10517	7362	70%	12.47	843	11254	7990	71%	12.71	885
	0°F	10255	6871	67%	12.41	826	10572	7294	69%	12.54	843	10843	7590	70%	12.60	861	11602	8237	71%	12.84	904
	5°F	10572	7294	69%	12.54	843	10899	7738	71%	12.67	861	11178	8048	72%	12.73	878	11961	8731	73%	12.97	922
	10°F	10899	7520	69%	12.67	861	11236	7977	71%	12.80	878	11524	8297	72%	12.86	896	12330	9001	73%	13.11	941
	15°F	11236	7753	69%	12.80	878	11583	8224	71%	12.93	896	11880	8554	72%	12.99	914	12712	9280	73%	13.24	960
	20°F	11583	7992	69%	12.93	896	11941	8478	71%	13.06	914	12248	8818	72%	13.13	933	13105	9567	73%	13.38	980
	25°F	11941	8717	73%	13.06	914	12311	9233	75%	13.20	933	12626	9596	76%	13.26	952	13510	10403	77%	13.52	1000
	30°F	12311	8987	73%	13.20	933	12691	9519	75%	13.33	952	13017	9893	76%	13.40	971	13928	10725	77%	13.66	1020
	35°F	12691	9265	73%	13.33	952	13084	9813	75%	13.47	971	13419	10199	76%	13.54	991	14359	11056	77%	13.80	1041
	40°F	13084	9551	73%	13.47	971	13489	10116	75%	13.61	991	13835	10514	76%	13.68	1011	14803	11398	77%	13.94	1062
	45°F	13489	10386	77%	13.61	991	13906	10986	79%	13.75	1011	14262	11410	80%	13.82	1032	15261	12361	81%	14.08	1084
	50°F	13906	10707	77%	13.75	1011	14336	11325	79%	13.89	1032	14704	11763	80%	13.96	1053	15733	12744	81%	14.23	1106
	55°F	14336	11039	77%	13.89	1032	14779	11676	79%	14.03	1053	15158	12127	80%	14.11	1075	16219	13138	81%	14.37	1128
	60°F	14779	11380	77%	14.03	1053	15236	12037	79%	14.18	1075	15627	12502	80%	14.25	1097	16721	13544	81%	14.52	1151
	65°F	17387	13562	78%	14.20	1225	17925	14340	80%	14.34	1250	18385	14892	81%	14.42	1275	19672	16131	82%	14.69	1339
	70°F	17742	13839	78%	14.34	1237	18291	14633	80%	14.49	1262	18760	15196	81%	14.57	1288	20073	16460	82%	14.84	1352
	75°F	18291	14267	78%	14.49	1262	18857	15085	80%	14.64	1288	19340	15666	81%	14.72	1314	20694	16969	82%	15.00	1380
	80°F	20785	16212	78%	14.33	1451	21428	17142	80%	14.47	1480	21977	17802	81%	14.55	1511	23516	19283	82%	14.83	1586
	85°F	19986	15789	79%	12.12	1649	20604	16689	81%	12.25	1682	21132	17328	82%	12.31	1717	22611	18768	83%	12.54	1802
	90°F	22711	17942	79%	11.71	1940	23414	18965	81%	11.83	1979	24014	19691	82%	11.89	2020	25695	21327	83%	12.12	2121
	95°F	22266	17590	79%	11.36	1959	22954	18593	81%	11.48	1999	23543	19305	82%	11.54	2040	25191	20909	83%	11.76	2142
	100°F	21598	17062	79%	10.70	2018	22266	18035	81%	10.81	2059	22837	18726	82%	10.87	2101	24435	20281	83%	11.08	2206
	105°F	20734	16587	80%	9.88	2099	21375	17528	82%	9.98	2142	21923	18196	83%	10.03	2185	23458	19705	84%	10.22	2295
	110°F	17591	14073	80%	9.39	1873	18135	14871	82%	9.49	1911	18600	15438	83%	9.54	1950	19902	16718	84%	9.72	2048
	115°F	14425	11540	80%	9.06	1592	14871	12194	82%	9.15	1624	15252	12659	83%	9.20	1658	16320	13708	84%	9.38	1740
	120°F	13271	10616	80%	8.68	1528	13681	11218	82%	8.77	1559	14032	11646	83%	8.82	1591	15014	12612	84%	8.99	1671
	122°F	12342	9997	81%	8.41	1467	12723	10560	83%	8.50	1497	13050	10962	84%	8.54	1528	13963	11869	85%	8.71	1604
	125°F																				
	129°F																				

*Maximum Output values are not based on AHRI test conditions

- LEGEND: W - Watts
 DB - Dry Bulb
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[Back to main page](#)

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	11284	7109	63%	11.23	1004	11633	7562	65%	11.35	1025	11931	7875	66%	11.41	1046	12767	8554	67%	11.63	1098
	-15°F	11633	7445	64%	11.35	1025	11993	7915	66%	11.47	1046	12300	8241	67%	11.53	1067	13161	8950	68%	11.75	1121
	-10°F	11993	7675	64%	11.47	1046	12364	8160	66%	11.59	1067	12681	8496	67%	11.64	1089	13568	9227	68%	11.87	1143
	-5°F	12364	7913	64%	11.59	1067	12746	8412	66%	11.70	1089	13073	8759	67%	11.76	1111	13988	9512	68%	11.99	1167
	0°F	12746	8158	64%	11.70	1089	13140	8673	66%	11.83	1111	13477	9030	67%	11.89	1134	14421	9806	68%	12.11	1191
	5°F	13140	8541	65%	11.83	1111	13547	9076	67%	11.95	1134	13894	9448	68%	12.01	1157	14867	10258	69%	12.24	1215
	10°F	13547	8805	65%	11.95	1134	13966	9357	67%	12.07	1157	14324	9740	68%	12.13	1181	15327	10575	69%	12.36	1240
	15°F	13966	9078	65%	12.07	1157	14398	9646	67%	12.20	1181	14767	10041	68%	12.26	1205	15801	10902	69%	12.49	1265
	20°F	14398	9359	65%	12.20	1181	14843	9945	67%	12.32	1205	15224	10352	68%	12.38	1229	16289	11240	69%	12.62	1291
	25°F	14843	9796	66%	12.32	1205	15302	10405	68%	12.45	1229	15694	10829	69%	12.51	1254	16793	11755	70%	12.75	1317
	30°F	15302	10099	66%	12.45	1229	15775	10727	68%	12.58	1254	16180	11164	69%	12.64	1280	17312	12119	70%	12.88	1344
	35°F	15775	10412	66%	12.58	1254	16263	11059	68%	12.71	1280	16680	11509	69%	12.77	1306	17848	12493	70%	13.01	1371
	40°F	16263	10734	66%	12.71	1280	16766	11401	68%	12.84	1306	17196	11865	69%	12.90	1333	18400	12880	70%	13.15	1399
	45°F	16766	11233	67%	12.84	1306	17285	11926	69%	12.97	1333	17728	12410	70%	13.04	1360	18969	13468	71%	13.28	1428
	50°F	17285	11581	67%	12.97	1333	17819	12295	69%	13.10	1360	18276	12793	70%	13.17	1388	19556	13884	71%	13.42	1457
	55°F	17819	11939	67%	13.10	1360	18370	12676	69%	13.24	1388	18841	13189	70%	13.31	1416	20160	14314	71%	13.56	1487
	60°F	18183	12183	67%	13.24	1374	18745	12934	69%	13.37	1402	19226	13458	70%	13.44	1430	20572	14606	71%	13.70	1502
	65°F	19344	13154	68%	12.95	1493	19942	13959	70%	13.09	1524	20453	14522	71%	13.16	1555	21885	15757	72%	13.41	1632
	70°F	19738	13422	68%	13.09	1508	20349	14244	70%	13.22	1539	20871	14818	71%	13.29	1570	22332	16079	72%	13.54	1649
	75°F	20349	13837	68%	12.95	1571	20978	14685	70%	13.09	1603	21516	15276	71%	13.15	1636	23022	16576	72%	13.40	1718
	80°F	21648	14720	68%	12.68	1708	22317	15622	70%	12.81	1743	22889	16252	71%	12.87	1778	24492	17634	72%	13.12	1867
85°F	21433	14789	69%	12.05	1779	22096	15688	71%	12.17	1815	22663	16317	72%	12.24	1852	24249	17702	73%	12.47	1945	
90°F	23297	16075	69%	11.79	1977	24018	17053	71%	11.91	2017	24634	17736	72%	11.97	2058	26358	19241	73%	12.20	2161	
95°F	24523	17412	71%	10.42	2353	25282	18456	73%	10.53	2401	25930	19188	74%	10.58	2450	27745	20809	75%	10.79	2573	
100°F	23542	16715	71%	9.71	2424	24270	17717	73%	9.81	2473	24893	18421	74%	9.86	2524	26635	19976	75%	10.05	2650	
105°F	22836	16442	72%	9.06	2521	23542	17421	74%	9.15	2572	24146	18110	75%	9.20	2624	25836	19636	76%	9.38	2756	
110°F	22225	16669	75%	8.26	2689	22913	17643	77%	8.35	2744	23500	18330	78%	8.39	2800	25145	19865	79%	8.55	2940	
115°F	18891	14169	75%	7.55	2501	19476	14996	77%	7.63	2552	19975	15581	78%	7.67	2604	21373	16885	79%	7.82	2734	
120°F	16058	12364	77%	7.30	2201	16554	13078	79%	7.37	2246	16979	13583	80%	7.41	2292	18167	14715	81%	7.55	2406	
122°F	14131	10881	77%	6.83	2069	14568	11509	79%	6.90	2111	14941	11953	80%	6.94	2154	15987	12950	81%	7.07	2262	
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



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	9900	1.42	2049	9652	1.35	2090	9363	1.29	2132	8988	1.21	2174
	-20°F	-20.5°F	11000	1.54	2091	10725	1.47	2133	10403	1.40	2175	9987	1.32	2219
	-15°F	-16°F	12088	1.66	2133	11785	1.59	2176	11432	1.51	2220	10975	1.42	2264
	-10°F	-11°F	12859	1.73	2177	12538	1.65	2221	12162	1.57	2265	11675	1.48	2310
	-5°F	-6°F	13680	1.80	2221	13338	1.73	2266	12938	1.64	2311	12420	1.54	2357
	0°F	-1°F	14400	1.86	2267	14040	1.78	2312	13619	1.69	2358	13074	1.59	2405
	5°F	3°F	15000	1.90	2313	14625	1.82	2359	14186	1.73	2406	13619	1.63	2455
	10°F	8°F	17003	2.26	2205	16578	2.16	2249	16081	2.05	2294	15438	1.93	2340
	15°F	13°F	17564	2.31	2228	17125	2.21	2272	16611	2.10	2317	15947	1.98	2364
	17°F	15°F	18500	2.41	2250	18038	2.30	2295	17496	2.19	2341	16797	2.06	2388
	20°F	17°F	18685	2.46	2228	18218	2.35	2272	17671	2.23	2317	16964	2.10	2364
	25°F	22°F	18720	2.61	2100	18252	2.50	2142	17704	2.37	2185	16996	2.23	2229
	30°F	27°F	18909	2.74	2020	18436	2.62	2060	17883	2.49	2101	17168	2.35	2143
	35°F	33°F	19100	2.83	1980	18623	2.70	2020	18064	2.57	2060	17341	2.42	2101
	40°F	36°F	22825	3.69	1814	22254	3.53	1850	21587	3.35	1887	20723	3.16	1925
	45°F	41°F	23531	3.76	1832	22943	3.60	1869	22254	3.42	1906	21364	3.22	1944
	47°F	43°F	23884	3.78	1850	23287	3.62	1887	22588	3.44	1925	21685	3.24	1964
50°F	46°F	20540	4.23	1425	20027	4.04	1453	19426	3.84	1482	18649	3.61	1512	
55°F	50°F	20129	4.18	1410	19626	4.00	1439	19037	3.80	1467	18276	3.58	1497	
60°F	55°F	18116	4.14	1284	17664	3.95	1309	17134	3.76	1335	16448	3.54	1362	
65°F	60°F	17573	4.09	1258	17134	3.91	1283	16620	3.72	1309	15955	3.50	1335	
70°F	64°F	13180	3.99	969	12850	3.81	988	12465	3.63	1008	11966	3.41	1028	
75°F	69°F	12653	3.91	949	12336	3.73	968	11966	3.55	988	11487	3.34	1007	
80°F	74°F	12146	3.81	935	11843	3.64	954	11487	3.46	973	11028	3.26	992	
86°F	80°F	11539	3.69	916	11251	3.53	935	10913	3.36	953	10477	3.16	972	

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts

DB - Dry Bulb

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SC - Total Capacity

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COP - Coefficient of Performance



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	10116	1.16	2550	9863	1.11	2601	9567	1.06	2653	9184	0.99	2706
	-20°F	-20.5°F	11495	1.29	2615	11208	1.23	2668	10872	1.17	2721	10437	1.10	2775
	-15°F	-16°F	13063	1.43	2669	12736	1.37	2722	12354	1.30	2776	11860	1.23	2832
	-10°F	-11°F	14844	1.60	2723	14473	1.53	2778	14039	1.45	2833	13477	1.37	2890
	-5°F	-6°F	16493	1.74	2779	16081	1.66	2834	15599	1.58	2891	14975	1.49	2949
	0°F	-1°F	16830	1.77	2793	16409	1.69	2849	15917	1.61	2905	15280	1.51	2964
	5°F	3°F	17000	1.80	2765	16575	1.72	2820	16078	1.64	2877	15435	1.54	2934
	10°F	8°F	17340	1.82	2793	16907	1.74	2849	16399	1.65	2905	15743	1.56	2964
	15°F	13°F	18612	1.84	2959	18147	1.76	3018	17602	1.68	3079	16898	1.58	3140
	17°F	15°F	19206	1.88	2989	18726	1.80	3049	18164	1.71	3110	17438	1.61	3172
	20°F	17°F	19800	1.90	3050	19305	1.82	3111	18726	1.73	3173	17977	1.63	3237
	25°F	22°F	20105	2.24	2625	19602	2.15	2677	19014	2.04	2731	18254	1.92	2785
	30°F	27°F	19711	2.35	2453	19218	2.25	2502	18642	2.14	2552	17896	2.01	2603
	35°F	33°F	19910	2.43	2405	19412	2.32	2453	18830	2.21	2502	18077	2.08	2552
	40°F	36°F	24777	3.23	2250	24157	3.09	2295	23433	2.93	2341	22495	2.76	2387
	45°F	41°F	26081	3.43	2228	25429	3.28	2272	24666	3.12	2317	23679	2.94	2364
47°F	43°F	26613	3.47	2250	25948	3.31	2295	25169	3.15	2341	24162	2.97	2388	
50°F	46°F	27145	3.50	2273	26467	3.35	2318	25673	3.18	2364	24646	3.00	2412	
55°F	50°F	27688	3.63	2238	26996	3.47	2283	26186	3.30	2329	25139	3.10	2375	
60°F	55°F	24919	3.67	1992	24296	3.50	2032	23567	3.33	2073	22625	3.14	2114	
65°F	60°F	22926	3.59	1873	22353	3.43	1910	21682	3.26	1948	20815	3.07	1987	
70°F	64°F	21092	3.67	1685	20564	3.51	1719	19948	3.33	1753	19150	3.14	1789	
75°F	69°F	19826	3.83	1517	19331	3.66	1547	18751	3.48	1578	18001	3.28	1610	
80°F	74°F	17844	3.79	1380	17398	3.62	1408	16876	3.44	1436	16201	3.24	1465	
86°F	80°F	16059	3.75	1256	15658	3.58	1281	15188	3.41	1307	14581	3.21	1333	

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts

DB - Dry Bulb

TC - Total Capacity

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SHR - Sensible Heat Ratio

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COOLING PERFORMANCE

Return Air Temperature

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	12125	8790	73%	7.32	1656	12991	9418	73%	7.59	1711	13424	9732	73%	7.48	1793	14723	10674	73%	7.62	1931
-15°F	12669	9185	73%	7.42	1708	13528	9807	72%	7.53	1797	13957	10119	73%	7.38	1892	15245	11053	73%	7.31	2086
-10°F	13135	9557	73%	7.68	1710	13989	10179	73%	7.77	1800	14416	10489	73%	7.61	1895	15698	11422	73%	7.52	2089
-5°F	14121	10308	73%	8.22	1717	15003	10952	73%	8.30	1807	15444	11274	73%	8.12	1902	16768	12241	73%	7.99	2097
0°F	14832	10865	73%	8.62	1722	15745	11534	73%	8.69	1812	16201	11868	73%	8.49	1908	17570	12871	73%	8.35	2103
5°F	15666	11515	74%	8.71	1799	16616	12213	74%	8.78	1893	17091	12562	74%	8.58	1993	18515	13608	74%	8.43	2197
10°F	16816	12403	74%	9.32	1805	17813	13138	74%	9.38	1900	18311	13505	74%	9.16	2000	19806	14608	74%	8.98	2204
15°F	17179	12713	74%	9.42	1824	18175	13450	74%	9.46	1920	18673	13818	74%	9.24	2021	20167	14924	74%	9.05	2229
20°F	17536	13021	74%	9.28	1891	18538	13765	74%	9.32	1990	19039	14137	74%	9.09	2095	20542	15253	74%	8.89	2310
25°F	17802	13262	75%	9.24	1927	18805	14010	74%	9.27	2029	19306	14383	75%	9.04	2135	20811	15504	74%	8.84	2354
30°F	18114	13542	75%	9.15	1980	19099	14278	75%	9.16	2084	19592	14647	75%	8.93	2194	21071	15752	75%	8.71	2419
35°F	18480	13860	75%	9.22	2004	19453	14590	75%	9.22	2110	19939	14954	75%	8.98	2221	21398	16049	75%	8.74	2448
40°F	20269	15253	75%	9.86	2056	21315	16041	75%	9.85	2164	21838	16434	75%	9.59	2278	23407	17615	75%	9.32	2511
45°F	21137	15959	75%	9.94	2126	22207	16767	75%	9.92	2238	22742	17171	75%	9.65	2356	24348	18383	76%	9.38	2597
50°F	22109	16750	76%	10.12	2184	23195	17572	76%	10.09	2299	23737	17983	76%	9.81	2420	25365	19216	76%	9.51	2668
55°F	22624	17194	76%	10.16	2227	23702	18013	76%	10.11	2344	24240	18423	76%	9.82	2468	25856	19651	76%	9.50	2721
60°F	23381	17830	76%	10.34	2261	24462	18654	76%	10.28	2380	25003	19067	76%	9.98	2505	26625	20303	76%	9.64	2762
65°F	23685	18119	76%	10.24	2314	24750	18934	76%	10.16	2436	25282	19341	76%	9.86	2564	26879	20562	77%	9.51	2827
70°F	24380	18714	77%	10.43	2338	25428	19519	77%	10.33	2461	25953	19921	77%	10.02	2591	27525	21128	77%	9.64	2856
75°F	25146	19362	77%	10.64	2364	26183	20161	77%	10.52	2488	26701	20560	77%	10.19	2619	28256	21757	77%	9.78	2888
80°F	25396	19620	77%	10.22	2486	26428	20416	77%	10.10	2616	26943	20815	77%	9.78	2754	28490	22010	77%	9.38	3036
85°F	26113	20237	77%	10.25	2547	27157	21047	78%	10.13	2681	27679	21452	78%	9.81	2822	29246	22666	78%	9.40	3112
90°F	26578	20662	78%	10.18	2612	27674	21514	78%	10.07	2749	28222	21941	78%	9.75	2894	29866	23219	78%	9.36	3191
95°F	27260	21263	78%	10.20	2671	28420	22168	78%	10.11	2812	29000	22620	78%	9.80	2960	30740	23977	78%	9.42	3263
100°F	27139	21235	78%	9.94	2731	28326	22163	78%	9.85	2875	28919	22627	78%	9.56	3026	30698	24020	78%	9.20	3336
105°F	26389	20715	79%	9.42	2801	27575	21646	79%	9.35	2948	28168	22112	78%	9.08	3103	29947	23508	79%	8.75	3421
110°F	26235	20659	79%	9.19	2856	27434	21603	79%	9.13	3006	28034	22076	79%	8.86	3165	29833	23492	79%	8.55	3489
115°F	24556	19399	79%	8.53	2877	25698	20301	79%	8.48	3029	26269	20753	79%	8.24	3188	27982	22106	79%	7.96	3515
120°F	22952	18187	79%	8.06	2847	24065	19069	79%	7.88	3053	24621	19510	79%	7.66	3214	26290	20833	79%	7.42	3544
122°F	21473	17071	80%	7.60	2827	22560	17936	80%	7.31	3088	23104	18368	79%	7.11	3251	24735	19664	79%	6.90	3584
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



[Back to main page](#)

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	13170	9548	73%	7.85	1678	14111	10230	73%	8.14	1734	14581	10571	73%	8.02	1818	15992	11594	73%	8.17	1958
	-15°F	13761	9977	73%	7.95	1731	14694	10653	72%	8.07	1822	15160	10991	73%	7.91	1918	16560	12006	73%	7.83	2114
	-10°F	14267	10381	73%	8.23	1733	15195	11056	73%	8.33	1824	15659	11394	73%	8.16	1920	17051	12406	73%	8.05	2117
	-5°F	15338	11197	73%	8.81	1740	16296	11896	73%	8.90	1832	16776	12246	73%	8.70	1928	18214	13296	73%	8.57	2126
	0°F	16111	11802	73%	9.23	1745	17102	12528	73%	9.31	1837	17598	12891	73%	9.10	1933	19085	13980	73%	8.95	2131
	5°F	17017	12508	74%	9.33	1823	18048	13266	74%	9.41	1919	18564	13645	74%	9.19	2020	20111	14782	74%	9.03	2227
	10°F	18266	13472	74%	9.99	1829	19348	14270	74%	10.05	1925	19890	14670	74%	9.81	2027	21513	15867	74%	9.63	2234
	15°F	18660	13809	74%	10.09	1849	19742	14609	74%	10.14	1946	20283	15009	74%	9.90	2049	21906	16210	74%	9.70	2259
	20°F	19048	14144	74%	9.94	1916	20136	14952	74%	9.98	2017	20681	15356	74%	9.74	2123	22313	16568	74%	9.53	2341
	25°F	19336	14406	75%	9.90	1953	20426	15217	74%	9.94	2056	20971	15623	75%	9.69	2164	22605	16840	74%	9.47	2386
	30°F	19675	14709	75%	9.80	2007	20746	15509	75%	9.82	2112	21281	15909	75%	9.57	2224	22887	17110	75%	9.34	2451
	35°F	20073	15055	75%	9.88	2031	21130	15847	75%	9.88	2138	21658	16244	75%	9.62	2251	23243	17432	75%	9.37	2481
	40°F	22016	16568	75%	10.57	2083	23153	17423	75%	10.56	2193	23721	17851	75%	10.28	2308	25425	19134	75%	9.99	2545
	45°F	22959	17334	75%	10.66	2155	24122	18212	75%	10.64	2268	24703	18651	75%	10.35	2387	26447	19967	76%	10.05	2632
	50°F	24015	18194	76%	10.85	2214	25194	19086	76%	10.81	2330	25783	19533	76%	10.51	2453	27551	20872	76%	10.19	2704
	55°F	24575	18677	76%	10.89	2257	25745	19566	76%	10.84	2376	26330	20011	76%	10.53	2501	28085	21345	76%	10.19	2757
	60°F	25397	19367	76%	11.08	2292	26571	20262	76%	11.01	2412	27159	20710	76%	10.70	2539	28920	22053	76%	10.33	2800
	65°F	25727	19681	76%	10.97	2345	26884	20566	76%	10.89	2469	27462	21008	76%	10.57	2599	29196	22335	77%	10.19	2865
	70°F	26481	20327	77%	11.17	2370	27620	21201	77%	11.07	2495	28190	21639	77%	10.74	2626	29898	22950	77%	10.33	2895
	75°F	27313	21031	77%	11.40	2396	28440	21899	77%	11.28	2522	29003	22332	77%	10.93	2655	30692	23633	77%	10.49	2927
	80°F	27586	21311	77%	10.95	2519	28706	22176	77%	10.83	2652	29266	22609	77%	10.48	2791	30946	23907	77%	10.06	3077
85°F	28364	21982	77%	10.99	2582	29498	22861	78%	10.86	2717	30066	23301	78%	10.51	2860	31767	24620	78%	10.07	3154	
90°F	28869	22444	78%	10.91	2647	30060	23369	78%	10.79	2787	30655	23832	78%	10.45	2933	32441	25220	78%	10.03	3234	
95°F	29610	23096	78%	10.94	2708	30870	24079	78%	10.83	2850	31500	24570	78%	10.50	3000	33390	26044	78%	10.10	3308	
100°F	29479	23065	78%	10.65	2768	30767	24074	78%	10.56	2913	31412	24578	78%	10.24	3067	33345	26090	78%	9.86	3381	
105°F	28664	22501	79%	10.10	2839	29952	23512	79%	10.02	2988	30596	24018	78%	9.73	3145	32529	25535	79%	9.38	3468	
110°F	28497	22440	79%	9.84	2895	29799	23466	79%	9.78	3047	30451	23979	79%	9.49	3207	32405	25518	79%	9.16	3536	
115°F	26673	21071	79%	9.15	2916	27913	22052	79%	9.09	3070	28534	22542	79%	8.83	3231	30395	24012	79%	8.53	3563	
120°F	24931	19755	79%	8.64	2885	26139	20713	79%	8.45	3095	26744	21192	79%	8.21	3258	28557	22629	79%	7.95	3591	
122°F	23324	18543	80%	8.14	2865	24505	19482	80%	7.83	3130	25096	19951	79%	7.62	3295	26867	21360	79%	7.40	3632	
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



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	13761	8.55	1609	13348	7.97	1675	13142	7.69	1708	12627	7.25	1742
	-20°F	-20.5°F	14032	8.61	1630	13611	8.02	1697	13400	7.74	1731	12890	7.30	1765
	-15°F	-16°F	14606	8.90	1642	14168	8.29	1709	13948	8.00	1743	13432	7.56	1778
	-10°F	-11°F	15137	9.07	1668	14683	8.46	1736	14456	8.16	1771	13953	7.72	1806
	-5°F	-6°F	16096	9.61	1675	15613	8.95	1744	15372	8.64	1778	14868	8.20	1814
	0°F	-1°F	16142	9.44	1709	15658	8.80	1779	15416	8.49	1815	14934	8.07	1851
	5°F	3°F	17279	9.91	1744	16761	9.23	1815	16502	8.91	1852	16009	8.48	1889
	10°F	8°F	18666	10.49	1780	18106	9.77	1853	17826	9.43	1890	17324	8.99	1927
	15°F	13°F	19764	10.88	1816	19171	10.14	1890	18874	9.79	1928	18368	9.34	1967
	17°F	15°F	19866	10.80	1840	19270	10.06	1915	18972	9.71	1953	18486	9.28	1993
	20°F	17°F	19957	10.77	1853	19359	10.04	1929	19059	9.69	1968	18571	9.25	2007
	25°F	22°F	21140	11.18	1891	20506	10.42	1968	20189	10.06	2008	19691	9.62	2048
	30°F	27°F	21727	11.26	1930	21076	10.49	2008	20750	10.13	2049	20247	9.69	2090
	35°F	33°F	23226	11.88	1955	22530	11.07	2035	22181	10.69	2076	21653	10.23	2117
	40°F	36°F	24713	12.55	1969	23971	11.70	2049	23601	11.29	2090	23082	10.83	2132
	45°F	41°F	27405	13.64	2009	27454	13.13	2091	27030	12.67	2133	26455	12.16	2176
47°F	43°F	27600	13.46	2050	27134	12.72	2134	26790	12.31	2177	26754	12.05	2220	
50°F	46°F	28814	13.84	2082	28282	13.05	2167	27694	12.53	2210	27509	12.20	2254	
55°F	50°F	29198	13.83	2112	29193	13.28	2198	28742	12.82	2242	28131	12.30	2287	
60°F	55°F	30394	13.49	2254	30327	13.40	2264	29845	12.92	2309	29184	12.39	2355	
65°F	60°F	31199	13.42	2325	31135	13.35	2332	30653	12.89	2378	29979	12.36	2426	
70°F	64°F	30475	13.52	2254	29561	12.31	2402	29104	11.88	2450	28457	11.39	2499	
75°F	69°F	29482	13.31	2214	28598	11.56	2474	28155	11.16	2523	27523	10.69	2574	
80°F	74°F	27079	13.20	2051	26267	10.31	2548	25861	9.95	2599	25222	9.51	2651	
86°F	80°F	26866	13.19	2037	26060	10.29	2531	25657	9.94	2582	24934	9.47	2634	

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts

DB - Dry Bulb

TC - Total Capacity

SC - Total Capacity

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COP - Coefficient of Performance



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	17301	7.40	2339	16782	6.89	2434	16523	6.65	2483	15875	6.27	2533
	-20°F	-20.5°F	17642	7.44	2370	17112	6.94	2466	16848	6.70	2516	16206	6.32	2566
	-15°F	-16°F	18363	7.69	2387	17812	7.17	2484	17537	6.92	2534	16887	6.53	2584
	-10°F	-11°F	19031	7.85	2425	18460	7.31	2524	18175	7.06	2574	17543	6.68	2626
	-5°F	-6°F	20237	8.31	2435	19630	7.74	2535	19326	7.48	2585	18692	7.09	2637
	0°F	-1°F	20295	8.17	2485	19686	7.61	2586	19382	7.35	2638	18776	6.98	2691
	5°F	3°F	21724	8.57	2536	21072	7.98	2639	20747	7.71	2692	20127	7.33	2746
	10°F	8°F	23468	9.07	2587	22764	8.45	2693	22412	8.16	2747	21781	7.77	2802
	15°F	13°F	24848	9.41	2640	24102	8.77	2748	23730	8.47	2803	23093	8.08	2859
	17°F	15°F	24976	9.34	2675	24227	8.70	2784	23852	8.40	2840	23241	8.02	2897
	20°F	17°F	25091	9.31	2694	24338	8.68	2804	23962	8.38	2860	23348	8.00	2917
	25°F	22°F	26579	9.67	2749	25781	9.01	2861	25383	8.70	2918	24756	8.32	2977
	30°F	27°F	27317	9.74	2805	26497	9.08	2920	26088	8.76	2978	25455	8.38	3038
	35°F	33°F	29201	10.27	2842	28325	9.58	2958	27887	9.24	3017	27224	8.85	3078
	40°F	36°F	31070	10.85	2862	30138	10.12	2979	29672	9.76	3039	29020	9.36	3100
	45°F	41°F	34454	11.80	2921	34517	11.35	3040	33983	10.96	3101	33260	10.52	3163
	47°F	43°F	34700	11.64	2980	34114	11.00	3102	33682	10.64	3164	33637	10.42	3227
	50°F	46°F	36227	11.97	3026	35558	11.29	3149	34818	10.84	3212	34586	10.56	3277
	55°F	50°F	36709	11.96	3070	36703	11.49	3195	36136	11.09	3259	35367	10.64	3324
	60°F	55°F	38213	11.66	3276	38129	11.59	3291	37522	11.18	3357	36691	10.72	3424
65°F	60°F	39225	11.60	3380	39144	11.55	3390	38539	11.15	3457	37691	10.69	3527	
70°F	64°F	38315	11.70	3276	37165	10.64	3491	36591	10.27	3561	35778	9.85	3632	
75°F	69°F	37066	11.52	3219	35954	10.00	3596	35398	9.65	3668	34603	9.25	3741	
80°F	74°F	34045	11.42	2981	33024	8.92	3704	32513	8.61	3778	31710	8.23	3854	
86°F	80°F	33777	11.40	2962	32763	8.90	3680	32257	8.59	3754	31348	8.19	3829	

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts

DB - Dry Bulb

TC - Total Capacity

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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	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	18760	13742	73%	8.10	2316	19914	14588	73%	8.17	2438	20492	15011	73%	7.99	2566	22223	16279	73%	7.86	2829
	5°F	19815	14564	74%	8.19	2420	21016	15447	74%	8.25	2547	21617	15888	74%	8.06	2681	23418	17212	74%	7.92	2956
	10°F	21270	15688	74%	8.76	2428	22530	16617	74%	8.82	2555	23160	17082	74%	8.61	2690	25051	18476	74%	8.45	2966
	15°F	21729	16079	74%	8.85	2454	22989	17012	74%	8.90	2583	23618	17478	74%	8.69	2719	25508	18876	74%	8.51	2998
	20°F	22180	16470	74%	8.72	2543	23448	17411	74%	8.76	2677	24081	17881	74%	8.55	2818	25983	19293	74%	8.36	3107
	25°F	22516	16775	75%	8.69	2592	23785	17720	74%	8.72	2729	24419	18192	75%	8.50	2873	26322	19610	74%	8.31	3167
	30°F	22911	17128	75%	8.60	2664	24157	18060	75%	8.62	2804	24781	18526	75%	8.40	2951	26651	19924	75%	8.19	3254
	35°F	23374	17531	75%	8.67	2696	24605	18453	75%	8.67	2838	25220	18915	75%	8.44	2987	27065	20299	75%	8.22	3294
	40°F	25637	19293	75%	9.27	2765	26960	20289	75%	9.26	2911	27621	20786	75%	9.01	3064	29606	22280	75%	8.76	3378
	45°F	26735	20185	75%	9.35	2860	28088	21207	75%	9.33	3010	28765	21718	75%	9.08	3169	30796	23251	76%	8.81	3494
	50°F	27965	21185	76%	9.52	2938	29337	22225	76%	9.49	3093	30023	22745	76%	9.22	3256	32082	24304	76%	8.94	3589
	55°F	28616	21748	76%	9.55	2996	29979	22784	76%	9.51	3154	30660	23302	76%	9.24	3320	32704	24855	76%	8.94	3660
	60°F	29573	22552	76%	9.72	3042	30941	23595	76%	9.66	3202	31625	24116	76%	9.38	3370	33676	25680	76%	9.06	3716
	65°F	29958	22918	76%	9.62	3113	31304	23948	76%	9.55	3277	31978	24463	76%	9.27	3449	33997	26008	77%	8.94	3803
	70°F	30836	23670	77%	9.80	3146	32162	24688	77%	9.71	3311	32826	25197	77%	9.42	3485	34815	26724	77%	9.06	3843
	75°F	31805	24490	77%	10.00	3180	33116	25500	77%	9.89	3347	33772	26005	77%	9.58	3524	35740	27519	77%	9.20	3885
	80°F	32122	24815	77%	9.61	3344	33426	25823	77%	9.50	3520	34079	26327	77%	9.20	3705	36035	27838	77%	8.82	4085
85°F	33028	25597	77%	9.64	3427	34349	26621	78%	9.52	3607	35010	27132	78%	9.22	3797	36991	28668	78%	8.84	4186	
90°F	33617	26134	78%	9.57	3514	35003	27212	78%	9.46	3699	35696	27751	78%	9.17	3893	37775	29368	78%	8.80	4292	
95°F	34479	26894	78%	9.59	3594	35946	28038	78%	9.50	3783	36680	28610	78%	9.21	3982	38881	30327	78%	8.86	4390	
100°F	34326	26858	78%	9.34	3674	35827	28032	78%	9.26	3867	36577	28619	78%	8.99	4071	38828	30381	78%	8.65	4488	
105°F	33378	26201	79%	8.86	3768	34878	27379	79%	8.79	3966	35628	27968	78%	8.53	4175	37878	29734	79%	8.23	4603	
110°F	33183	26130	79%	8.64	3842	34700	27325	79%	8.58	4045	35458	27922	79%	8.33	4257	37734	29714	79%	8.04	4694	
115°F	31059	24537	79%	8.02	3871	32504	25678	79%	7.98	4075	33226	26248	79%	7.75	4289	35393	27960	79%	7.48	4729	
120°F	29030	23003	79%	7.58	3829	30438	24119	79%	7.41	4108	31142	24677	79%	7.20	4324	33253	26350	79%	6.98	4767	
122°F																					
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



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												
	-20°F	-20.5°F												
	-15°F	-16°F	15664	7.33	2138	15194	6.83	2226	14959	6.59	2270	14405	6.22	2315
	-10°F	-11°F	16234	7.47	2173	15747	6.96	2261	15504	6.72	2306	14965	6.36	2353
	-5°F	-6°F	17262	7.91	2182	16745	7.37	2271	16486	7.12	2316	15945	6.75	2363
	0°F	-1°F	17312	7.78	2226	16793	7.25	2317	16533	6.99	2364	16016	6.64	2411
	5°F	3°F	18531	8.16	2272	17975	7.60	2365	17697	7.34	2412	17169	6.98	2460
	10°F	8°F	20019	8.64	2318	19418	8.05	2413	19118	7.77	2461	18579	7.40	2510
	15°F	13°F	21196	8.96	2366	20560	8.35	2462	20242	8.06	2511	19699	7.69	2562
	17°F	15°F	21305	8.89	2397	20666	8.29	2494	20347	8.00	2544	19825	7.64	2595
	20°F	17°F	21403	8.87	2414	20761	8.26	2512	20440	7.98	2563	19916	7.62	2614
	25°F	22°F	22672	9.20	2463	21992	8.58	2564	21652	8.28	2615	21117	7.92	2667
	30°F	27°F	23302	9.27	2513	22603	8.64	2616	22253	8.34	2668	21714	7.98	2722
	35°F	33°F	24910	9.78	2547	24162	9.12	2650	23789	8.80	2704	23222	8.42	2758
	40°F	36°F	26504	10.33	2565	25708	9.63	2669	25311	9.30	2723	24754	8.91	2777
	45°F	41°F	29390	11.23	2617	29444	10.81	2724	28988	10.43	2778	28372	10.01	2834
	47°F	43°F	29600	11.09	2670	29100	10.47	2779	28731	10.13	2835	28693	9.92	2892
	50°F	46°F	30902	11.40	2711	30332	10.75	2822	29701	10.32	2878	29502	10.05	2936
	55°F	50°F	31313	11.38	2750	31309	10.94	2863	30825	10.56	2920	30169	10.13	2978
60°F	55°F	32597	11.11	2935	32525	11.03	2949	32007	10.64	3008	31298	10.20	3068	
65°F	60°F	33460	11.05	3028	33391	10.99	3037	32874	10.61	3098	32152	10.18	3160	
70°F	64°F	32684	11.14	2935	31703	10.13	3128	31213	9.78	3191	30519	9.38	3255	
75°F	69°F	31618	10.96	2884	30670	9.52	3222	30196	9.19	3286	29517	8.81	3352	
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



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	22043	16148	73%	9.02	2443	23400	17141	73%	9.10	2571	24078	17638	73%	8.90	2707	26113	19129	73%	8.75	2984
5°F	23284	17113	74%	9.12	2552	24695	18151	74%	9.19	2686	25400	18669	74%	8.98	2828	27517	20225	74%	8.83	3118
10°F	24992	18433	74%	9.76	2561	26474	19526	74%	9.82	2695	27214	20072	74%	9.59	2837	29436	21710	74%	9.41	3128
15°F	25532	18894	74%	9.86	2589	27012	19989	74%	9.91	2725	27752	20537	74%	9.68	2868	29972	22180	74%	9.48	3162
20°F	26062	19352	74%	9.72	2683	27552	20458	74%	9.76	2824	28296	21011	74%	9.52	2972	30530	22670	74%	9.32	3277
25°F	26457	19711	75%	9.68	2734	27948	20821	74%	9.71	2878	28693	21376	75%	9.47	3030	30929	23042	74%	9.26	3340
30°F	26921	20125	75%	9.58	2809	28386	21221	75%	9.60	2957	29118	21768	75%	9.35	3113	31316	23411	75%	9.12	3432
35°F	27465	20599	75%	9.66	2844	28911	21683	75%	9.66	2993	29634	22225	75%	9.40	3151	31802	23852	75%	9.15	3474
40°F	30124	22670	75%	10.33	2917	31679	23840	75%	10.32	3070	32456	24425	75%	10.04	3232	34788	26180	75%	9.76	3563
45°F	31414	23718	75%	10.41	3016	33005	24919	75%	10.39	3175	33800	25519	75%	10.11	3342	36186	27320	76%	9.82	3685
50°F	32859	24893	76%	10.60	3099	34472	26115	76%	10.57	3262	35278	26726	76%	10.27	3434	37697	28558	76%	9.96	3786
55°F	33624	25555	76%	10.64	3160	35226	26771	76%	10.59	3326	36026	27380	76%	10.29	3501	38428	29205	76%	9.95	3860
60°F	34749	26499	76%	10.83	3208	36356	27724	76%	10.77	3377	37160	28337	76%	10.45	3555	39570	30175	76%	10.10	3919
65°F	35202	26929	76%	10.72	3284	36784	28139	76%	10.64	3456	37575	28745	76%	10.33	3638	39948	30560	77%	9.96	4011
70°F	36233	27813	77%	10.92	3318	37792	29009	77%	10.82	3492	38571	29607	77%	10.49	3676	40909	31401	77%	10.09	4053
75°F	37372	28776	77%	11.14	3354	38913	29963	77%	11.02	3531	39683	30556	77%	10.68	3717	41995	32336	77%	10.25	4098
80°F	37744	29159	77%	10.70	3527	39277	30343	77%	10.58	3712	40043	30935	77%	10.25	3908	42342	32711	77%	9.83	4308
85°F	38809	30077	77%	10.74	3614	40361	31280	78%	10.61	3804	41137	31881	78%	10.27	4005	43466	33686	78%	9.84	4415
90°F	39500	30708	78%	10.66	3706	41129	31975	78%	10.54	3901	41944	32608	78%	10.21	4107	44387	34508	78%	9.80	4527
95°F	40514	31601	78%	10.69	3791	42238	32946	78%	10.59	3990	43100	33618	78%	10.26	4200	45686	35635	78%	9.87	4631
100°F	40334	31559	78%	10.41	3875	42098	32939	78%	10.32	4079	42979	33629	78%	10.01	4293	45624	35698	78%	9.64	4734
105°F	39220	30787	79%	9.87	3974	40982	32171	79%	9.80	4183	41864	32863	78%	9.51	4403	44508	34938	79%	9.17	4855
110°F	38991	30704	79%	9.62	4053	40773	32107	79%	9.56	4266	41664	32809	79%	9.28	4490	44338	34915	79%	8.96	4951
115°F	36495	28831	79%	8.94	4083	38193	30172	79%	8.89	4298	39041	30843	79%	8.63	4524	41587	32854	79%	8.34	4988
120°F	34111	27030	79%	8.45	4039	35765	28340	79%	8.26	4333	36592	28996	79%	8.02	4561	39073	30962	79%	7.77	5028
122°F																				
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
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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													
-20°F	-20.5°F													
-15°F	-16°F	21168	8.53	2483	20533	7.95	2584	20215	7.67	2636	19467	7.24	2688	
-10°F	-11°F	21938	8.70	2522	21280	8.11	2625	20951	7.82	2678	20222	7.40	2731	
-5°F	-6°F	23328	9.21	2533	22628	8.58	2637	22278	8.28	2689	21547	7.85	2743	
0°F	-1°F	23395	9.05	2585	22693	8.43	2690	22342	8.14	2744	21644	7.73	2799	
5°F	3°F	25042	9.49	2638	24291	8.85	2745	23915	8.54	2800	23201	8.12	2856	
10°F	8°F	27052	10.05	2692	26241	9.37	2801	25835	9.04	2857	25107	8.61	2915	
15°F	13°F	28643	10.43	2746	27784	9.72	2859	27354	9.38	2916	26620	8.95	2974	
17°F	15°F	28791	10.35	2783	27927	9.64	2896	27496	9.31	2954	26791	8.89	3013	
20°F	17°F	28924	10.32	2803	28056	9.62	2917	27622	9.28	2975	26914	8.87	3035	
25°F	22°F	30638	10.71	2860	29719	9.98	2976	29260	9.64	3036	28537	9.22	3097	
30°F	27°F	31489	10.79	2918	30544	10.06	3037	30072	9.71	3098	29343	9.29	3160	
35°F	33°F	33662	11.38	2957	32652	10.61	3077	32147	10.24	3139	31382	9.80	3202	
40°F	36°F	35816	12.03	2978	34741	11.21	3099	34204	10.82	3161	33452	10.37	3224	
45°F	41°F	39717	13.07	3038	39789	12.58	3162	39174	12.14	3226	38340	11.65	3290	
47°F	43°F	40000	12.90	3100	39324	12.19	3227	38826	11.80	3292	38774	11.55	3357	
50°F	46°F	41760	13.27	3148	40989	12.51	3276	40136	12.01	3342	39868	11.70	3409	
55°F	50°F	42315	13.25	3193	42309	12.73	3324	41655	12.29	3390	40769	11.79	3458	
60°F	55°F	44050	12.93	3408	43953	12.84	3423	43253	12.39	3492	42295	11.87	3562	
65°F	60°F	45216	12.86	3516	45123	12.80	3526	44425	12.35	3597	43448	11.84	3669	
70°F	64°F	44167	12.96	3408	42842	11.80	3632	42179	11.39	3705	41242	10.91	3779	
75°F	69°F	42727	12.76	3348	41446	11.08	3741	40805	10.69	3816	39888	10.25	3892	
80°F	74°F													
86°F	80°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





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