



EXTENDED RATINGS

Cooling Performance

FLR09

FLR09HP230V1R32AH / ENV09HP230V1R32AO / VIR09HP230V1R32AO
FLR09HP230V1R32AH / SAP09HP230V1R32AO

FLR12

FLR12HP230V1R32AH / ENV12HP230V1R32AO / VIR12HP230V1R32AO
FLR12HP230V1R32AH / SAP12HP230V1R32AO

FLR18

FLR18HP230V1R32AH / ENV18HP230V1R32AO / VIR18HP230V1R32AO
FLR18HP230V1R32AH / SAP18HP230V1R32AO

FLR24

FLR24HP230V1R32AH / ENV24HP230V1R32AO / VIR24HP230V1R32AO
FLR24HP230V1R32AH / SAP24HP230V1R32AO

FLR30

FLR30HP230V1R32AH / LIV30HP230V1R32AO

FLR36

FLR36HP230V1R32AH / LIV36HP230V1R32AO

Heating Performance

FLR09

FLR09HP230V1R32AH / ENV09HP230V1R32AO / VIR09HP230V1R32AO
FLR09HP230V1R32AH / SAP09HP230V1R32AO

FLR12

FLR12HP230V1R32AH / ENV12HP230V1R32AO / VIR12HP230V1R32AO
FLR12HP230V1R32AH / SAP12HP230V1R32AO

FLR18

FLR18HP230V1R32AH / ENV18HP230V1R32AO / VIR18HP230V1R32AO
FLR18HP230V1R32AH / SAP18HP230V1R32AO

FLR24

FLR24HP230V1R32AH / ENV24HP230V1R32AO / VIR24HP230V1R32AO
FLR24HP230V1R32AH / SAP24HP230V1R32AO

FLR30

FLR30HP230V1R32AH / LIV30HP230V1R32AO

FLR36

FLR36HP230V1R32AH / 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	6888	4994	73%	10.53	654	7380	5351	73%	10.92	676	7626	5529	73%	10.76	709	8364	6064	73%	10.96	763
	-15°F	7257	5261	73%	10.85	669	7749	5618	73%	11.00	704	7995	5796	73%	10.79	741	8733	6331	73%	10.69	817
	-10°F	7565	5503	73%	11.06	684	8057	5861	73%	11.19	720	8303	6040	73%	10.96	758	9041	6577	73%	10.82	835
	-5°F	7872	5747	73%	11.27	698	8364	6106	73%	11.38	735	8610	6285	73%	11.13	774	9348	6824	73%	10.96	853
	0°F	7995	5856	73%	11.21	713	8487	6217	73%	11.30	751	8733	6397	73%	11.05	790	9471	6938	73%	10.87	871
	5°F	8118	5967	74%	11.15	728	8610	6328	74%	11.24	766	8856	6509	74%	10.98	807	9594	7052	74%	10.79	889
	10°F	8303	6123	74%	11.18	743	8795	6486	74%	11.25	782	9041	6667	74%	10.99	823	9779	7212	74%	10.78	907
	15°F	8487	6280	74%	11.20	757	8979	6644	74%	11.26	797	9225	6827	74%	10.99	839	9963	7373	74%	10.77	925
	20°F	8610	6393	74%	11.15	772	9102	6758	74%	11.20	813	9348	6941	74%	10.93	856	10086	7489	74%	10.69	943
	25°F	8733	6506	75%	11.10	787	9225	6873	75%	11.14	828	9471	7056	75%	10.86	872	10209	7606	75%	10.62	961
	30°F	9041	6758	75%	11.28	802	9533	7126	75%	11.30	844	9779	7309	75%	11.01	888	10517	7861	75%	10.74	979
	35°F	9348	7011	75%	11.45	816	9840	7380	75%	11.45	859	10086	7565	75%	11.15	905	10824	8118	75%	10.85	997
	40°F	9533	7173	75%	11.47	831	10025	7543	75%	11.46	875	10271	7729	75%	11.15	921	11009	8284	75%	10.84	1015
	45°F	9717	7336	76%	11.49	846	10209	7708	76%	11.46	891	10455	7894	76%	11.15	937	11193	8451	76%	10.83	1033
	50°F	10025	7594	76%	11.65	861	10517	7966	76%	11.61	906	10763	8153	76%	11.28	954	11501	8712	76%	10.94	1052
	55°F	10332	7852	76%	11.80	876	10824	8226	76%	11.74	922	11070	8413	76%	11.41	970	11808	8974	76%	11.04	1070
	60°F	10640	8113	76%	11.95	890	11132	8488	76%	11.88	937	11378	8675	76%	11.53	986	12116	9238	76%	11.14	1088
	65°F	10947	8374	77%	12.10	905	11439	8751	77%	12.01	953	11685	8939	77%	11.65	1003	12423	9504	77%	11.24	1106
	70°F	11439	8779	77%	12.44	920	11931	9157	77%	12.32	968	12177	9346	77%	11.95	1019	12915	9912	77%	11.49	1124
	75°F	11931	9187	77%	12.77	935	12423	9566	77%	12.63	984	12669	9755	77%	12.23	1036	13407	10323	77%	11.74	1142
	80°F	12116	9359	77%	12.76	949	12608	9739	77%	12.62	999	12854	9929	77%	12.22	1052	13592	10499	77%	11.72	1160
85°F	12300	9533	78%	12.76	964	12792	9914	78%	12.61	1015	13038	10104	78%	12.21	1068	13776	10676	78%	11.70	1178	
90°F	11931	9276	78%	12.25	974	12423	9659	78%	12.12	1025	12669	9850	78%	11.74	1079	13407	10424	78%	11.27	1190	
95°F	11562	9018	78%	11.75	984	12054	9402	78%	11.64	1036	12300	9594	78%	11.28	1090	13038	10170	78%	10.85	1202	
100°F	11255	8807	78%	11.16	1008	11747	9192	78%	11.07	1061	11993	9384	78%	10.73	1117	12731	9962	78%	10.34	1232	
105°F	10947	8593	79%	10.60	1033	11439	8980	79%	10.52	1087	11685	9173	79%	10.21	1145	12423	9752	79%	9.85	1262	
110°F	10763	8475	79%	10.18	1058	11255	8863	79%	10.11	1113	11501	9057	79%	9.81	1172	12239	9638	79%	9.47	1292	
115°F	10578	8357	79%	9.78	1082	11070	8745	79%	9.72	1139	11316	8940	79%	9.44	1199	12054	9523	79%	9.12	1322	
120°F	10148	8042	79%	9.34	1086	10640	8432	79%	9.13	1165	10886	8627	79%	8.88	1226	11624	9212	79%	8.60	1352	
122°F	9717	7725	80%	8.91	1090	10209	8116	80%	8.57	1191	10455	8312	80%	8.34	1254	11193	8898	80%	8.10	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
 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	6210	1.53	1193	6060	1.46	1217	5910	1.40	1241	5760	1042.07	1620
	-20°F	-20.5°F	8080	1.97	1205	7794	1.86	1229	7508	1.76	1254	7222	1278.85	1655
	-15°F	-16°F	8294	2.00	1217	8008	1.89	1241	7722	1.79	1266	7436	1289.57	1690
	-10°F	-11°F	8795	2.10	1230	8509	1.99	1254	8223	1.88	1279	7937	1303.11	1785
	-5°F	-6°F	9295	2.19	1242	9009	2.08	1267	8723	1.98	1292	8437	1315.29	1880
	0°F	-1°F	9724	2.25	1267	9438	2.14	1293	9152	2.03	1318	8866	1346.36	1930
	5°F	3°F	10153	2.30	1293	9867	2.19	1319	9581	2.09	1345	9295	1368.95	1990
	10°F	8°F	10725	2.38	1320	10439	2.27	1346	10153	2.17	1373	9867	1397.03	2070
	15°F	13°F	10940	2.41	1333	10940	2.36	1360	10654	2.25	1387	10368	1413.27	2150
	17°F	15°F	11154	2.43	1346	11440	2.44	1373	11154	2.33	1401	10868	1428.35	2230
	20°F	17°F	11726	2.50	1374	11440	2.39	1401	11154	2.29	1429	10868	1461.11	2180
	25°F	22°F	12155	2.54	1402	11869	2.43	1430	11583	2.33	1459	11297	1484.74	2230
	30°F	27°F	12370	2.56	1416	12084	2.45	1445	11798	2.35	1474	11512	1502.82	2245
	35°F	33°F	12584	2.58	1431	12298	2.47	1459	12012	2.37	1488	11726	1520.66	2260
	40°F	36°F	13585	2.73	1460	13299	2.62	1489	13013	2.51	1519	12727	1547.75	2410
	45°F	41°F	14014	2.76	1490	13728	2.65	1519	13442	2.54	1550	13156	1580.25	2440
	47°F	43°F	14300	2.76	1520	14014	2.65	1550	13728	2.54	1581	13442	1614.60	2440
	50°F	46°F	14157	2.72	1528	13871	2.61	1558	13585	2.51	1589	13299	1620.67	2405
55°F	50°F	14014	2.68	1535	13728	2.57	1566	13442	2.47	1597	13156	1626.92	2370	
60°F	55°F	13871	2.62	1550	13585	2.52	1581	13299	2.42	1613	13013	1643.92	2320	
65°F	60°F	13585	2.67	1490	13299	2.57	1519	13013	2.46	1550	12727	1580.54	2360	
70°F	64°F	13442	2.66	1482	13156	2.55	1512	12870	2.45	1542	12584	1572.78	2345	
75°F	69°F	13299	2.64	1474	13013	2.54	1504	12727	2.43	1534	12441	1564.91	2330	
80°F	74°F	12155	2.49	1429	11869	2.39	1457	11583	2.28	1487	11297	1518.79	2180	
86°F	80°F	10725	2.25	1398	10439	2.14	1426	10153	2.05	1455	9867	1483.00	1950	

*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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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	8789	6372	73%	10.33	851	9417	6827	73%	10.71	879	9731	7055	72%	10.56	922	10202	7396	73%	10.58	964
-15°F	9260	6714	73%	10.64	870	9888	7169	72%	10.79	916	10202	7396	73%	10.58	964	10830	7851	72%	10.70	1012
-10°F	9652	7022	73%	10.85	889	10280	7479	73%	10.98	936	10594	7707	73%	10.75	986	11222	8164	73%	10.84	1035
-5°F	10045	7333	73%	11.06	909	10673	7791	73%	11.16	956	10987	8020	73%	10.91	1007	11614	8478	73%	10.99	1057
0°F	10202	7473	73%	11.00	928	10830	7933	73%	11.09	977	11143	8163	73%	10.84	1028	11771	8622	73%	10.90	1079
5°F	10359	7614	73%	10.94	947	10987	8075	74%	11.02	997	11300	8306	73%	10.77	1049	11928	8767	74%	10.83	1102
10°F	10594	7813	74%	10.96	966	11222	8276	74%	11.03	1017	11536	8508	74%	10.78	1071	12164	8971	74%	10.82	1124
15°F	10830	8014	74%	10.99	985	11457	8478	74%	11.05	1037	11771	8711	74%	10.78	1092	12399	9175	74%	10.82	1146
20°F	10987	8157	74%	10.94	1005	11614	8624	74%	10.98	1057	11928	8857	74%	10.72	1113	12556	9323	74%	10.74	1169
25°F	11143	8302	74%	10.88	1024	11771	8770	74%	10.92	1078	12085	9003	75%	10.65	1134	12713	9471	75%	10.67	1191
30°F	11536	8623	75%	11.06	1043	12164	9092	75%	11.08	1098	12478	9327	75%	10.80	1156	13105	9796	75%	10.80	1213
35°F	11928	8946	75%	11.23	1062	12556	9417	75%	11.23	1118	12870	9652	75%	10.94	1177	13498	10123	75%	10.92	1236
40°F	12164	9153	75%	11.25	1081	12791	9626	75%	11.24	1138	13105	9862	75%	10.94	1198	13733	10334	75%	10.92	1258
45°F	12399	9361	75%	11.27	1101	13027	9835	75%	11.24	1159	13341	10072	76%	10.94	1219	13969	10546	76%	10.91	1280
50°F	12791	9690	76%	11.42	1120	13419	10165	76%	11.38	1179	13733	10403	76%	11.07	1241	14361	10878	76%	11.02	1303
55°F	13184	10020	76%	11.58	1139	13812	10497	76%	11.52	1199	14126	10735	76%	11.19	1262	14753	11213	76%	11.13	1325
60°F	13576	10352	76%	11.72	1158	14204	10831	76%	11.65	1219	14518	11070	76%	11.31	1283	15146	11549	76%	11.24	1347
65°F	13969	10686	76%	11.86	1177	14596	11166	77%	11.78	1239	14910	11406	76%	11.43	1305	15538	11887	77%	11.34	1370
70°F	14596	11203	77%	12.20	1197	15224	11685	77%	12.09	1260	15538	11925	77%	11.72	1326	16166	12407	77%	11.61	1392
75°F	15224	11723	77%	12.52	1216	15852	12206	77%	12.39	1280	16166	12448	77%	12.00	1347	16794	12931	77%	11.87	1414
80°F	15460	11943	77%	12.52	1235	16087	12428	77%	12.38	1300	16401	12670	77%	11.99	1368	17029	13155	77%	11.85	1437
85°F	15695	12164	78%	12.51	1254	16323	12650	78%	12.36	1320	16637	12893	77%	11.97	1390	17265	13380	78%	11.83	1459
90°F	15224	11837	78%	12.02	1267	15852	12325	78%	11.89	1334	16166	12569	78%	11.52	1404	16794	13057	78%	11.39	1474
95°F	14753	11508	78%	11.53	1280	15381	11997	78%	11.42	1347	15695	12242	78%	11.07	1418	16323	12732	78%	10.96	1489
100°F	13969	10930	78%	10.86	1286	14596	11422	78%	10.78	1354	14753	11544	78%	10.35	1425	15538	12159	78%	10.38	1496
105°F	13184	10349	78%	10.20	1293	13812	10842	79%	10.15	1361	14126	11089	79%	9.86	1432	14753	11581	78%	9.81	1504
110°F	11614	9146	79%	9.40	1235	12242	9641	79%	9.42	1300	12556	9888	79%	9.18	1368	13184	10382	79%	9.18	1437
115°F	10045	7935	79%	8.53	1177	10673	8431	79%	8.61	1239	10987	8679	79%	8.42	1305	11614	9175	79%	8.48	1370
120°F	10202	8085	79%	9.01	1133	10830	8582	79%	9.08	1192	11143	8831	79%	8.88	1255	11771	9329	79%	8.93	1318
122°F	10359	8235	80%	9.52	1088	10987	8734	80%	9.59	1145	11300	8984	80%	9.38	1205	11928	9483	80%	9.43	1266
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

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	8789	6372	73%	10.33	851	9417	6827	73%	10.71	879	9731	7055	72%	10.56	922	10202	7396	73%	10.58	964
-15°F	9260	6714	73%	10.64	870	9888	7169	72%	10.79	916	10202	7396	73%	10.58	964	10830	7851	72%	10.70	1012
-10°F	9652	7022	73%	10.85	889	10280	7479	73%	10.98	936	10594	7707	73%	10.75	986	11222	8164	73%	10.84	1035
-5°F	10045	7333	73%	11.06	909	10673	7791	73%	11.16	956	10987	8020	73%	10.91	1007	11614	8478	73%	10.99	1057
0°F	10202	7473	73%	11.00	928	10830	7933	73%	11.09	977	11143	8163	73%	10.84	1028	11771	8622	73%	10.90	1079
5°F	10359	7614	73%	10.94	947	10987	8075	74%	11.02	997	11300	8306	73%	10.77	1049	11928	8767	74%	10.83	1102
10°F	10594	7813	74%	10.96	966	11222	8276	74%	11.03	1017	11536	8508	74%	10.78	1071	12164	8971	74%	10.82	1124
15°F	10830	8014	74%	10.99	985	11457	8478	74%	11.05	1037	11771	8711	74%	10.78	1092	12399	9175	74%	10.82	1146
20°F	10987	8157	74%	10.94	1005	11614	8624	74%	10.98	1057	11928	8857	74%	10.72	1113	12556	9323	74%	10.74	1169
25°F	11143	8302	74%	10.88	1024	11771	8770	74%	10.92	1078	12085	9003	75%	10.65	1134	12713	9471	75%	10.67	1191
30°F	11536	8623	75%	11.06	1043	12164	9092	75%	11.08	1098	12478	9327	75%	10.80	1156	13105	9796	75%	10.80	1213
35°F	11928	8946	75%	11.23	1062	12556	9417	75%	11.23	1118	12870	9652	75%	10.94	1177	13498	10123	75%	10.92	1236
40°F	12164	9153	75%	11.25	1081	12791	9626	75%	11.24	1138	13105	9862	75%	10.94	1198	13733	10334	75%	10.92	1258
45°F	12399	9361	75%	11.27	1101	13027	9835	75%	11.24	1159	13341	10072	76%	10.94	1219	13969	10546	76%	10.91	1280
50°F	12791	9690	76%	11.42	1120	13419	10165	76%	11.38	1179	13733	10403	76%	11.07	1241	14361	10878	76%	11.02	1303
55°F	13184	10020	76%	11.58	1139	13812	10497	76%	11.52	1199	14126	10735	76%	11.19	1262	14753	11213	76%	11.13	1325
60°F	13576	10352	76%	11.72	1158	14204	10831	76%	11.65	1219	14518	11070	76%	11.31	1283	15146	11549	76%	11.24	1347
65°F	13969	10686	76%	11.86	1177	14596	11166	77%	11.78	1239	14910	11406	76%	11.43	1305	15538	11887	77%	11.34	1370
70°F	14596	11203	77%	12.20	1197	15224	11685	77%	12.09	1260	15538	11925	77%	11.72	1326	16166	12407	77%	11.61	1392
75°F	15224	11723	77%	12.52	1216	15852	12206	77%	12.39	1280	16166	12448	77%	12.00	1347	16794	12931	77%	11.87	1414
80°F	15460	11943	77%	12.52	1235	16087	12428	77%	12.38	1300	16401	12670	77%	11.99	1368	17029	13155	77%	11.85	1437
85°F	15695	12164	78%	12.51	1254	16323	12650	78%	12.36	1320	16637	12893	77%	11.97	1390	17265	13380	78%	11.83	1459
90°F	15224	11837	78%	12.02	1267	15852	12325	78%	11.89	1334	16166	12569	78%	11.52	1404	16794	13057	78%	11.39	1474
95°F	14753	11508	78%	11.53	1280	15381	11997	78%	11.42	1347	15695	12242	78%	11.07	1418	16323	12732	78%	10.96	1489
100°F	13969	10930	78%	10.86	1286	14596	11422	78%	10.78	1354	14753	11544	78%	10.35	1425	15538	12159	78%	10.38	1496
105°F	13184	10349	78%	10.20	1293	13812	10842	79%	10.15	1361	14126	11089	79%	9.86	1432	14753	11581	78%	9.81	1504
110°F	11614	9146	79%	9.40	1235	12242	9641	79%	9.42	1300	12556	9888	79%	9.18	1368	13184	10382	79%	9.18	1437
115°F	10045	7935	79%	8.53	1177	10673	8431	79%	8.61	1239	10987	8679	79%	8.42	1305	11614	9175	79%	8.48	1370
120°F	10202	8085	79%	9.01	1133	10830	8582	79%	9.08	1192	11143	8831	79%	8.88	1255	11771	9329	79%	8.93	1318
122°F	10359	8235	80%	9.52	1088	10987	8734	80%	9.59	1145	11300	8984	80%	9.38	1205	11928	9483	80%	9.43	1266
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

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	7807	1.61	1423	7507	1.52	1452	7206	1.43	1481	6906	1.34	1510
	-20°F	-20.5°F	8032	1.64	1438	7732	1.55	1467	7431	1.46	1496	7131	1.37	1526
	-15°F	-16°F	8257	1.67	1452	7957	1.57	1481	7657	1.49	1511	7356	1.40	1541
	-10°F	-11°F	8482	1.69	1467	8182	1.60	1497	7882	1.51	1526	7582	1.43	1557
	-5°F	-6°F	8708	1.72	1482	8407	1.63	1512	8107	1.54	1542	7807	1.45	1573
	0°F	-1°F	9308	1.80	1512	9008	1.71	1542	8708	1.62	1573	8407	1.54	1605
	5°F	3°F	10059	1.91	1543	9759	1.82	1574	9458	1.73	1605	9158	1.64	1638
	10°F	8°F	11260	1.97	1674	10960	1.88	1707	10659	1.79	1741	10359	1.71	1776
	15°F	13°F	11560	2.02	1680	11560	1.98	1713	11260	1.89	1747	10960	1.80	1782
	17°F	15°F	11860	2.06	1686	12161	2.07	1719	11860	1.98	1754	11560	1.89	1789
	20°F	17°F	12386	2.11	1721	12086	2.02	1756	11785	1.93	1791	11485	1.84	1826
	25°F	22°F	12311	2.24	1614	12010	2.14	1647	11710	2.04	1680	11410	1.95	1713
	30°F	27°F	12911	2.33	1626	12611	2.23	1659	12311	2.13	1692	12010	2.04	1726
	35°F	33°F	13512	2.42	1638	13211	2.32	1671	12911	2.22	1704	12611	2.13	1738
	40°F	36°F	14262	3.67	1140	13962	3.52	1163	13662	3.38	1186	13362	3.24	1210
45°F	41°F	14713	3.71	1163	14413	3.56	1187	14112	3.42	1210	13812	3.28	1234	
47°F	43°F	15013	3.71	1187	14713	3.56	1211	14413	3.42	1235	14112	3.28	1260	
50°F	46°F	14863	3.65	1193	14563	3.51	1217	14262	3.37	1241	13962	3.23	1266	
55°F	50°F	14713	3.60	1199	14413	3.45	1223	14112	3.32	1247	13812	3.18	1272	
60°F	55°F	14563	3.53	1211	14262	3.38	1235	13962	3.25	1260	13662	3.12	1285	
65°F	60°F	14262	3.59	1163	13962	3.45	1187	13662	3.31	1210	13362	3.17	1234	
70°F	64°F	14112	3.57	1157	13812	3.43	1180	13512	3.29	1204	13211	3.15	1228	
75°F	69°F	13962	3.55	1151	13662	3.41	1174	13362	3.27	1198	13061	3.13	1222	
80°F	74°F	12761	3.35	1116	12461	3.21	1138	12161	3.07	1161	11860	2.94	1184	
86°F	80°F	11260	3.02	1092	10960	2.88	1114	10659	2.75	1136	10359	2.62	1159	

*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	7807	1.61	1423	7507	1.52	1452	7206	1.43	1481	6906	1.34	1510
	-20°F	-20.5°F	8032	1.64	1438	7732	1.55	1467	7431	1.46	1496	7131	1.37	1526
	-15°F	-16°F	8257	1.67	1452	7957	1.57	1481	7657	1.49	1511	7356	1.40	1541
	-10°F	-11°F	8482	1.69	1467	8182	1.60	1497	7882	1.51	1526	7582	1.43	1557
	-5°F	-6°F	8708	1.72	1482	8407	1.63	1512	8107	1.54	1542	7807	1.45	1573
	0°F	-1°F	9308	1.80	1512	9008	1.71	1542	8708	1.62	1573	8407	1.54	1605
	5°F	3°F	10059	1.91	1543	9759	1.82	1574	9458	1.73	1605	9158	1.64	1638
	10°F	8°F	11260	1.97	1674	10960	1.88	1707	10659	1.79	1741	10359	1.71	1776
	15°F	13°F	11560	2.02	1680	11560	1.98	1713	11260	1.89	1747	10960	1.80	1782
	17°F	15°F	11860	2.06	1686	12161	2.07	1719	11860	1.98	1754	11560	1.89	1789
	20°F	17°F	12386	2.11	1721	12086	2.02	1756	11785	1.93	1791	11485	1.84	1826
	25°F	22°F	12311	2.24	1614	12010	2.14	1647	11710	2.04	1680	11410	1.95	1713
	30°F	27°F	12911	2.33	1626	12611	2.23	1659	12311	2.13	1692	12010	2.04	1726
	35°F	33°F	13512	2.42	1638	13211	2.32	1671	12911	2.22	1704	12611	2.13	1738
	40°F	36°F	14262	3.67	1140	13962	3.52	1163	13662	3.38	1186	13362	3.24	1210
	45°F	41°F	14713	3.71	1163	14413	3.56	1187	14112	3.42	1210	13812	3.28	1234
	47°F	43°F	15013	3.71	1187	14713	3.56	1211	14413	3.42	1235	14112	3.28	1260
50°F	46°F	14863	3.65	1193	14563	3.51	1217	14262	3.37	1241	13962	3.23	1266	
55°F	50°F	14713	3.60	1199	14413	3.45	1223	14112	3.32	1247	13812	3.18	1272	
60°F	55°F	14563	3.53	1211	14262	3.38	1235	13962	3.25	1260	13662	3.12	1285	
65°F	60°F	14262	3.59	1163	13962	3.45	1187	13662	3.31	1210	13362	3.17	1234	
70°F	64°F	14112	3.57	1157	13812	3.43	1180	13512	3.29	1204	13211	3.15	1228	
75°F	69°F	13962	3.55	1151	13662	3.41	1174	13362	3.27	1198	13061	3.13	1222	
80°F	74°F	12761	3.35	1116	12461	3.21	1138	12161	3.07	1161	11860	2.94	1184	
86°F	80°F	11260	3.02	1092	10960	2.88	1114	10659	2.75	1136	10359	2.62	1159	

*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	8129	4877	60%	11.28	720	8381	5196	62%	11.40	735	8595	5415	63%	11.46	750	9197	5886	64%	11.68	788
	-15°F	8381	5112	61%	11.40	735	8640	5443	63%	11.52	750	8861	5671	64%	11.58	765	9482	6163	65%	11.80	804
	-10°F	8640	5270	61%	11.52	750	8907	5611	63%	11.64	765	9135	5847	64%	11.70	781	9775	6354	65%	11.92	820
	-5°F	8907	5433	61%	11.64	765	9182	5785	63%	11.76	781	9418	6027	64%	11.82	797	10077	6550	65%	12.04	837
	0°F	9182	5601	61%	11.76	781	9466	5964	63%	11.88	797	9709	6214	64%	11.94	813	10389	6753	65%	12.17	854
	5°F	9466	5964	63%	11.88	797	9759	6343	65%	12.00	813	10009	6606	66%	12.06	830	10710	7176	67%	12.29	871
	10°F	9759	6148	63%	12.00	813	10061	6540	65%	12.12	830	10319	6811	66%	12.19	847	11041	7398	67%	12.42	889
	15°F	10061	6338	63%	12.12	830	10372	6742	65%	12.25	847	10638	7021	66%	12.31	864	11383	7626	67%	12.55	907
	20°F	10372	6534	63%	12.25	847	10693	6950	65%	12.38	864	10967	7238	66%	12.44	882	11735	7862	67%	12.68	926
	25°F	10693	6950	65%	12.38	864	11024	7386	67%	12.50	882	11306	7688	68%	12.57	900	12098	8347	69%	12.81	945
	30°F	11024	7165	65%	12.50	882	11365	7614	67%	12.63	900	11656	7926	68%	12.70	918	12472	8606	69%	12.94	964
	35°F	11365	7387	65%	12.63	900	11716	7850	67%	12.76	918	12017	8171	68%	12.83	937	12858	8872	69%	13.07	984
	40°F	11716	7615	65%	12.76	918	12078	8093	67%	12.89	937	12388	8424	68%	12.96	956	13255	9146	69%	13.21	1004
	45°F	12078	8093	67%	12.89	937	12452	8592	69%	13.03	956	12771	8940	70%	13.09	975	13665	9702	71%	13.34	1024
	50°F	12452	8343	67%	13.03	956	12837	8858	69%	13.16	975	13166	9216	70%	13.23	995	14088	10002	71%	13.48	1045
	55°F	12837	8601	67%	13.16	975	13234	9132	69%	13.30	995	13573	9501	70%	13.36	1016	14524	10312	71%	13.62	1066
	60°F	13234	8867	67%	13.30	995	13643	9414	69%	13.43	1016	13993	9795	70%	13.50	1036	14973	10631	71%	13.76	1088
	65°F	15570	10587	68%	13.45	1157	16051	11236	70%	13.59	1181	16463	11689	71%	13.66	1205	17615	12683	72%	13.92	1265
	70°F	15887	10803	68%	13.59	1169	16379	11465	70%	13.73	1193	16799	11927	71%	13.80	1217	17975	12942	72%	14.06	1278
	75°F	16379	11138	68%	13.73	1193	16885	11820	70%	13.87	1217	17318	12296	71%	13.94	1242	18530	13342	72%	14.21	1304
	80°F	18612	12656	68%	13.57	1371	19188	13431	70%	13.71	1399	19680	13973	71%	13.78	1428	21057	15161	72%	14.05	1499
	85°F	18247	12591	69%	12.78	1428	18812	13356	71%	12.91	1457	19294	13892	72%	12.97	1487	20644	15070	73%	13.22	1562
	90°F	20735	14307	69%	11.76	1763	21377	15178	71%	11.88	1799	21925	15786	72%	11.94	1836	23460	17126	73%	12.17	1928
	95°F	20329	14027	69%	10.38	1959	20958	14880	71%	10.48	1999	21495	15476	72%	10.54	2040	23000	16790	73%	10.74	2142
100°F	19719	13606	69%	9.77	2018	20329	14434	71%	9.87	2059	20850	15012	72%	9.92	2101	22310	16286	73%	10.11	2206	
105°F	18930	13251	70%	9.02	2099	19516	14051	72%	9.11	2142	20016	14612	73%	9.16	2185	21417	15849	74%	9.33	2295	
110°F	16834	11784	70%	9.47	1777	17355	12496	72%	9.57	1813	17800	12994	73%	9.62	1850	19046	14094	74%	9.80	1943	
115°F	13804	9663	70%	9.14	1510	14231	10246	72%	9.23	1541	14596	10655	73%	9.28	1573	15618	11557	74%	9.46	1651	
120°F	12700	8890	70%	8.76	1450	13093	9427	72%	8.85	1479	13428	9803	73%	8.90	1510	14368	10633	74%	9.06	1585	
122°F	11811	8386	71%	8.49	1392	12176	8889	73%	8.57	1420	12488	9241	74%	8.62	1449	13363	10022	75%	8.78	1522	
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)
-20°F	9800	5586	57%	11.12	881	10103	5961	59%	11.23	899	10362	6217	60%	11.29	918	11088	6763	61%	11.51	964
-15°F	10103	5860	58%	11.23	899	10416	6249	60%	11.35	918	10683	6517	61%	11.41	937	11431	7087	62%	11.62	983
-10°F	10416	6041	58%	11.35	918	10738	6443	60%	11.47	937	11013	6718	61%	11.52	956	11784	7306	62%	11.74	1003
-5°F	10738	6228	58%	11.47	937	11070	6642	60%	11.58	956	11354	6926	61%	11.64	975	12149	7532	62%	11.87	1024
0°F	11070	6421	58%	11.58	956	11412	6847	60%	11.70	975	11705	7140	61%	11.76	995	12524	7765	62%	11.99	1045
5°F	11412	6733	59%	11.70	975	11765	7177	61%	11.82	995	12067	7482	62%	11.88	1015	12912	8134	63%	12.11	1066
10°F	11765	6942	59%	11.82	995	12129	7399	61%	11.95	1015	12440	7713	62%	12.01	1036	13311	8386	63%	12.24	1088
15°F	12129	7156	59%	11.95	1015	12504	7628	61%	12.07	1036	12825	7951	62%	12.13	1057	13723	8645	63%	12.36	1110
20°F	12504	7378	59%	12.07	1036	12891	7864	61%	12.19	1057	13222	8197	62%	12.26	1079	14147	8913	63%	12.49	1133
25°F	12891	7735	60%	12.19	1057	13290	8240	62%	12.32	1079	13630	8587	63%	12.38	1101	14585	9334	64%	12.62	1156
30°F	13290	7974	60%	12.32	1079	13701	8494	62%	12.45	1101	14052	8853	63%	12.51	1123	15036	9623	64%	12.75	1179
35°F	13701	8220	60%	12.45	1101	14124	8757	62%	12.57	1123	14487	9127	63%	12.64	1146	15501	9920	64%	12.88	1203
40°F	14124	8475	60%	12.57	1123	14561	9028	62%	12.70	1146	14935	9409	63%	12.77	1170	15980	10227	64%	13.01	1228
45°F	14561	8882	61%	12.70	1146	15012	9457	63%	12.84	1170	15397	9854	64%	12.90	1193	16474	10708	65%	13.15	1253
50°F	15012	9157	61%	12.84	1170	15476	9750	63%	12.97	1193	15873	10159	64%	13.03	1218	16984	11040	65%	13.28	1279
55°F	15476	9440	61%	12.97	1193	15955	10051	63%	13.10	1218	16364	10473	64%	13.17	1243	17509	11381	65%	13.42	1305
60°F	15955	9633	61%	13.10	1205	16280	10257	63%	13.23	1230	16698	10686	64%	13.30	1255	17866	11613	65%	13.56	1318
65°F	16800	10416	62%	12.82	1310	17319	11084	64%	12.95	1337	17763	11546	65%	13.02	1364	19007	12545	66%	13.27	1433
70°F	17143	10628	62%	12.95	1324	17673	11311	64%	13.09	1351	18126	11782	65%	13.15	1378	19395	12801	66%	13.40	1447
75°F	17673	10957	62%	12.82	1379	18219	11660	64%	12.95	1407	18687	12146	65%	13.02	1436	19995	13196	66%	13.26	1507
80°F	18801	11657	62%	12.55	1499	19382	12405	64%	12.68	1529	19879	12922	65%	12.74	1560	21271	14039	66%	12.98	1638
85°F	18615	11727	63%	11.92	1561	19190	12474	65%	12.05	1593	19682	12990	66%	12.11	1625	21060	14110	67%	12.34	1707
90°F	20233	12747	63%	11.67	1734	20859	13558	65%	11.79	1770	21394	14120	66%	11.85	1806	22892	15337	67%	12.07	1896
95°F	21298	13844	65%	10.31	2065	21957	14711	67%	10.42	2107	22520	15314	68%	10.47	2150	24096	16627	69%	10.67	2258
100°F	20446	13290	65%	9.61	2127	21079	14123	67%	9.71	2170	21619	14701	68%	9.76	2215	23133	15961	69%	9.95	2325
105°F	19833	13090	66%	8.97	2212	20446	13904	68%	9.06	2257	20971	14470	69%	9.11	2303	22439	15707	70%	9.28	2418
110°F	19199	12863	67%	7.27	2641	19793	13657	69%	7.34	2695	20300	14210	70%	7.38	2750	21721	15422	71%	7.52	2888
115°F	16319	10934	67%	6.64	2456	16824	11608	69%	6.71	2506	17255	12079	70%	6.75	2558	18463	13109	71%	6.88	2685
120°F	13871	9571	69%	6.42	2161	14300	10153	71%	6.48	2206	14667	10560	72%	6.52	2251	15693	11456	73%	6.64	2363
122°F	12207	8423	69%	6.01	2032	12584	8935	71%	6.07	2073	12907	9293	72%	6.10	2116	13810	10081	73%	6.22	2221
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



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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	9220	1.32	2051	8990	1.26	2092	8720	1.20	2134	8371	1.13	2176
	-20°F	-20.5°F	10132	1.40	2114	9879	1.34	2157	9583	1.28	2200	9199	1.20	2244
	-15°F	-16°F	11159	1.50	2180	10880	1.43	2223	10553	1.36	2268	10131	1.28	2313
	-10°F	-11°F	12680	1.65	2247	12363	1.58	2292	11993	1.50	2338	11513	1.41	2385
	-5°F	-6°F	14410	1.82	2317	14049	1.74	2363	13628	1.66	2410	13083	1.56	2458
	0°F	-1°F	15168	1.86	2388	14789	1.78	2436	14345	1.69	2485	13771	1.59	2534
	5°F	3°F	15800	1.90	2437	15405	1.82	2486	14943	1.73	2535	14345	1.63	2586
	10°F	8°F	14706	1.95	2205	14338	1.87	2249	13908	1.78	2294	13352	1.67	2340
	15°F	13°F	15190	2.00	2228	14811	1.91	2272	14366	1.82	2317	13792	1.71	2364
	17°F	15°F	16000	2.08	2250	15600	1.99	2295	15132	1.89	2341	14527	1.78	2388
	20°F	17°F	16160	2.13	2228	15756	2.03	2272	15283	1.93	2317	14672	1.82	2364
	25°F	22°F	18720	2.31	2372	18252	2.21	2420	17704	2.10	2468	16996	1.98	2517
	30°F	27°F	18909	2.38	2326	18436	2.28	2372	17883	2.17	2420	17168	2.04	2468
	35°F	33°F	19100	2.46	2280	18623	2.35	2326	18064	2.23	2372	17341	2.10	2420
	40°F	36°F	20543	3.32	1814	20029	3.17	1850	19428	3.02	1887	18651	2.84	1925
	45°F	41°F	21178	3.39	1832	20649	3.24	1869	20029	3.08	1906	19228	2.90	1944
47°F	43°F	21496	3.40	1850	20958	3.25	1887	20330	3.10	1925	19516	2.91	1964	
50°F	46°F	18486	3.80	1425	18024	3.64	1453	17483	3.46	1482	16784	3.25	1512	
55°F	50°F	18117	3.76	1410	17664	3.60	1439	17134	3.42	1467	16448	3.22	1497	
60°F	55°F	16305	3.72	1284	15897	3.56	1309	15420	3.38	1335	14804	3.19	1362	
65°F	60°F	15816	3.69	1258	15420	3.52	1283	14958	3.35	1309	14359	3.15	1335	
70°F	64°F	11862	3.59	969	11565	3.43	988	11218	3.26	1008	10770	3.07	1028	
75°F	69°F	11387	3.52	949	11103	3.36	968	10770	3.20	988	10339	3.01	1007	
80°F	74°F	10932	3.43	935	10659	3.28	954	10339	3.12	973	9925	2.93	992	
86°F	80°F	10385	3.32	916	10126	3.18	935	9822	3.02	953	9429	2.84	972	

*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	10011	1.12	2628	9761	1.07	2681	9468	1.01	2734	9089	0.96	2789
	-20°F	-20.5°F	11376	1.24	2696	11092	1.18	2750	10759	1.12	2805	10329	1.06	2861
	-15°F	-16°F	12640	1.35	2751	12324	1.29	2806	11955	1.22	2862	11476	1.15	2919
	-10°F	-11°F	14364	1.50	2807	14005	1.43	2863	13585	1.36	2920	13041	1.28	2979
	-5°F	-6°F	15960	1.63	2864	15561	1.56	2921	15094	1.48	2980	14490	1.40	3039
	0°F	-1°F	16625	1.69	2879	16209	1.62	2936	15723	1.54	2995	15094	1.45	3055
	5°F	3°F	17500	1.80	2850	17063	1.72	2907	16551	1.64	2965	15889	1.54	3024
	10°F	8°F	17850	1.82	2879	17404	1.74	2936	16882	1.65	2995	16206	1.55	3055
	15°F	13°F	19176	1.66	3396	18697	1.58	3464	18136	1.50	3533	17410	1.42	3604
	17°F	15°F	19788	1.69	3430	19293	1.62	3499	18715	1.54	3569	17966	1.45	3640
	20°F	17°F	20400	1.71	3500	19890	1.63	3570	19293	1.55	3641	18522	1.46	3714
	25°F	22°F	21004	1.98	3110	20479	1.89	3173	19864	1.80	3236	19070	1.69	3301
	30°F	27°F	20592	2.08	2907	20077	1.98	2965	19475	1.89	3024	18696	1.78	3085
	35°F	33°F	20800	2.14	2850	20280	2.04	2907	19672	1.94	2965	18885	1.83	3024
	40°F	36°F	24777	2.59	2800	24157	2.48	2856	23433	2.36	2913	22495	2.22	2971
	45°F	41°F	26081	2.76	2772	25429	2.64	2827	24666	2.51	2884	23679	2.36	2942
	47°F	43°F	26613	2.79	2800	25948	2.66	2856	25169	2.53	2913	24162	2.38	2971
50°F	46°F	27145	2.81	2828	26467	2.69	2885	25673	2.56	2942	24646	2.41	3001	
55°F	50°F	27688	2.91	2786	26996	2.78	2841	26186	2.65	2898	25139	2.49	2956	
60°F	55°F	24919	2.95	2479	24296	2.82	2529	23567	2.68	2579	22625	2.52	2631	
65°F	60°F	22926	2.88	2330	22353	2.76	2377	21682	2.62	2425	20815	2.47	2473	
70°F	64°F	21092	2.95	2097	20564	2.82	2139	19948	2.68	2182	19150	2.52	2226	
75°F	69°F	19826	3.08	1888	19331	2.94	1925	18751	2.80	1964	18001	2.63	2003	
80°F	74°F	17844	3.04	1718	17398	2.91	1752	16876	2.77	1787	16201	2.60	1823	
86°F	80°F	16059	3.01	1563	15658	2.88	1594	15188	2.74	1626	14581	2.58	1659	

*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

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)	
MAX OUTPUT*	-20°F	11957	8669	73%	7.32	1633	12812	9288	73%	7.59	1688	13239	9598	73%	7.48	1769	14520	10527	73%	7.62	1905
	-15°F	12494	9058	73%	7.42	1684	13341	9672	72%	7.52	1773	13764	9979	73%	7.37	1866	15035	10900	73%	7.31	2058
	-10°F	12954	9425	73%	7.68	1687	13796	10038	73%	7.77	1776	14218	10345	73%	7.61	1869	15481	11264	73%	7.51	2061
	-5°F	13926	10166	73%	8.22	1694	14796	10801	73%	8.30	1783	15231	11119	73%	8.12	1877	16537	12072	73%	7.99	2069
	0°F	14627	10715	73%	8.61	1698	15527	11374	73%	8.69	1788	15978	11704	73%	8.49	1882	17328	12693	73%	8.35	2075
	5°F	15450	11356	74%	8.71	1774	16387	12044	74%	8.77	1868	16855	12388	74%	8.57	1966	18260	13421	74%	8.42	2168
	10°F	16584	12232	74%	9.32	1780	17567	12957	74%	9.37	1874	18059	13319	74%	9.16	1972	19533	14406	74%	8.98	2175
	15°F	16942	12537	74%	9.41	1800	17925	13264	74%	9.46	1894	18416	13628	74%	9.24	1994	19889	14718	74%	9.05	2198
	20°F	17294	12842	74%	9.27	1865	18283	13575	74%	9.31	1963	18777	13942	74%	9.09	2067	20259	15043	74%	8.89	2278
	25°F	17556	13079	75%	9.23	1901	18545	13816	74%	9.27	2001	19040	14185	75%	9.04	2106	20524	15290	74%	8.84	2322
	30°F	17864	13355	75%	9.15	1953	18836	14081	75%	9.16	2056	19322	14445	75%	8.93	2164	20780	15535	75%	8.71	2386
	35°F	18225	13669	75%	9.22	1977	19185	14388	75%	9.22	2081	19664	14748	75%	8.98	2191	21103	15827	75%	8.74	2415
	40°F	19989	15043	75%	9.86	2028	21021	15819	75%	9.85	2135	21537	16208	75%	9.59	2247	23084	17372	75%	9.32	2477
	45°F	20846	15738	75%	9.94	2097	21901	16535	75%	9.92	2208	22429	16934	75%	9.65	2324	24012	18129	76%	9.37	2562
	50°F	21804	16519	76%	10.12	2155	22875	17329	76%	10.09	2268	23410	17735	76%	9.81	2387	25015	18950	76%	9.50	2632
	55°F	22312	16957	76%	10.16	2197	23375	17765	76%	10.11	2313	23906	18169	76%	9.82	2434	25500	19380	76%	9.50	2684
	60°F	23059	17584	76%	10.34	2231	24125	18397	76%	10.27	2348	24658	18804	76%	9.98	2472	26258	20023	76%	9.64	2725
	65°F	23359	17869	76%	10.23	2283	24409	18673	76%	10.16	2403	24934	19074	76%	9.86	2529	26508	20279	77%	9.51	2789
	70°F	24043	18456	77%	10.42	2307	25078	19250	77%	10.33	2428	25595	19646	77%	10.01	2556	27146	20837	77%	9.63	2818
	75°F	24799	19095	77%	10.63	2332	25821	19883	77%	10.52	2455	26333	20276	77%	10.19	2584	27867	21457	77%	9.78	2849
	80°F	25046	19349	77%	10.21	2452	26063	20135	77%	10.10	2581	26572	20528	77%	9.78	2717	28097	21706	77%	9.38	2995
	85°F	25752	19958	77%	10.25	2513	26783	20756	78%	10.13	2645	27298	21156	78%	9.80	2784	28843	22353	78%	9.40	3070
	90°F	26211	20377	78%	10.17	2577	27292	21218	78%	10.06	2712	27833	21638	78%	9.75	2855	29454	22898	78%	9.36	3148
	95°F	26884	20970	78%	10.20	2635	28028	21862	78%	10.10	2774	28600	22308	78%	9.79	2920	30316	23646	78%	9.42	3219
	100°F	26765	20942	78%	9.94	2694	27935	21857	78%	9.85	2836	28520	22315	78%	9.55	2985	30275	23688	78%	9.20	3291
	105°F	26025	20430	79%	9.42	2763	27195	21348	79%	9.35	2908	27780	21807	78%	9.07	3061	29534	23184	79%	8.75	3375
	110°F	25873	20374	79%	9.18	2818	27056	21305	79%	9.12	2966	27647	21771	79%	8.86	3122	29422	23168	79%	8.55	3442
	115°F	24217	19132	79%	8.53	2838	25344	20021	79%	8.48	2988	25907	20466	79%	8.24	3145	27596	21801	79%	7.96	3468
	120°F	22635	17936	79%	8.06	2808	23733	18806	79%	7.88	3012	24282	19241	79%	7.66	3171	25928	20545	79%	7.42	3496
	122°F	21177	16836	80%	7.59	2788	22249	17688	80%	7.30	3046	22785	18114	79%	7.11	3207	24394	19393	79%	6.90	3535
	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	13003	9427	73%	8.36	1555	13931	10100	73%	8.67	1607	14396	10437	73%	8.55	1684	15789	11447	73%	8.70	1814
	-15°F	13586	9850	73%	8.47	1604	14507	10518	72%	8.59	1688	14968	10852	73%	8.42	1777	16349	11853	73%	8.35	1959
	-10°F	14086	10249	73%	8.77	1606	15002	10916	73%	8.88	1690	15460	11249	73%	8.69	1779	16835	12249	73%	8.58	1962
	-5°F	15143	11054	73%	9.39	1612	16089	11745	73%	9.48	1697	16563	12091	73%	9.27	1787	17982	13127	73%	9.13	1970
	0°F	15906	11652	73%	9.84	1617	16885	12369	73%	9.92	1702	17374	12727	73%	9.70	1792	18842	13803	73%	9.54	1975
	5°F	16801	12349	74%	9.95	1689	17819	13097	74%	10.02	1778	18328	13471	74%	9.79	1872	19856	14594	74%	9.62	2064
	10°F	18034	13301	74%	10.64	1695	19103	14089	74%	10.71	1784	19637	14483	74%	10.46	1878	21240	15666	74%	10.26	2070
	15°F	18423	13633	74%	10.75	1713	19491	14424	74%	10.81	1804	20025	14819	74%	10.55	1898	21627	16004	74%	10.33	2093
	20°F	18806	13964	74%	10.59	1776	19881	14762	74%	10.64	1869	20418	15161	74%	10.38	1967	22030	16358	74%	10.16	2169
	25°F	19091	14223	75%	10.55	1810	20166	15024	74%	10.59	1905	20704	15425	75%	10.32	2005	22318	16627	74%	10.09	2211
	30°F	19425	14522	75%	10.45	1860	20482	15312	75%	10.46	1957	21011	15707	75%	10.20	2060	22597	16893	75%	9.95	2272
	35°F	19818	14864	75%	10.53	1882	20862	15646	75%	10.53	1981	21383	16037	75%	10.25	2086	22948	17211	75%	9.98	2299
	40°F	21737	16358	75%	11.26	1931	22859	17202	75%	11.25	2032	23420	17624	75%	10.95	2139	25102	18891	75%	10.64	2358
	45°F	22668	17114	75%	11.35	1997	23815	17981	75%	11.33	2102	24389	18414	75%	11.02	2212	26111	19714	76%	10.71	2439
	50°F	23710	17962	76%	11.56	2051	24874	18844	76%	11.52	2159	25456	19285	76%	11.20	2273	27202	20607	76%	10.86	2506
	55°F	24263	18440	76%	11.60	2092	25418	19318	76%	11.54	2202	25996	19757	76%	11.22	2318	27729	21074	76%	10.85	2555
	60°F	25074	19121	76%	11.81	2124	26234	20005	76%	11.74	2235	26814	20447	76%	11.40	2353	28553	21773	76%	11.01	2594
	65°F	25401	19431	76%	11.69	2173	26542	20305	76%	11.60	2288	27113	20741	76%	11.26	2408	28825	22051	77%	10.86	2655
	70°F	26145	20069	77%	11.91	2196	27270	20932	77%	11.80	2312	27832	21364	77%	11.44	2433	29519	22658	77%	11.00	2683
	75°F	26967	20764	77%	12.15	2220	28079	21620	77%	12.01	2337	28635	22049	77%	11.64	2460	30303	23333	77%	11.17	2712
	80°F	27235	21040	77%	11.67	2334	28341	21895	77%	11.53	2457	28894	22322	77%	11.17	2587	30553	23604	77%	10.71	2852
85°F	28004	21703	77%	11.71	2392	29124	22571	78%	11.57	2518	29684	23005	78%	11.20	2651	31364	24307	78%	10.73	2922	
90°F	28503	22159	78%	11.62	2453	29678	23072	78%	11.49	2582	30266	23529	78%	11.13	2718	32029	24900	78%	10.69	2997	
95°F	29234	22803	78%	11.65	2509	30478	23773	78%	11.54	2641	31100	24258	78%	11.19	2780	32966	25713	78%	10.76	3065	
100°F	29104	22772	78%	11.35	2565	30377	23768	78%	11.25	2700	31013	24266	78%	10.91	2842	32921	25759	78%	10.51	3133	
105°F	28300	22215	79%	10.76	2630	29572	23214	79%	10.68	2769	30208	23713	78%	10.36	2915	32116	25211	79%	9.99	3213	
110°F	28135	22155	79%	10.49	2682	29421	23168	79%	10.42	2824	30064	23674	79%	10.11	2972	31993	25194	79%	9.76	3277	
115°F	26334	20804	79%	9.74	2702	27559	21772	79%	9.69	2845	28171	22255	79%	9.41	2994	30009	23707	79%	9.09	3301	
120°F	24614	19504	79%	9.21	2674	25807	20450	79%	9.00	2868	26404	20923	79%	8.75	3019	28194	22341	79%	8.47	3328	
122°F	23028	18307	80%	8.67	2655	24194	19234	80%	8.34	2900	24777	19698	79%	8.12	3053	26526	21088	79%	7.88	3366	
125°F																					
129°F																					

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts
 DB - Dry Bulb
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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	14459	8.01	1805	14026	7.47	1879	13809	7.21	1916	13267	6.79	1955
	-22°F	-22.5°F	14744	8.06	1829	14301	7.51	1904	14080	7.25	1942	13544	6.84	1981
	-20°F	-20.5°F	15347	8.33	1842	14886	7.76	1917	14656	7.49	1955	14113	7.08	1995
	-15°F	-16°F	15905	8.50	1872	15428	7.92	1948	15190	7.65	1987	14661	7.23	2027
	-10°F	-11°F	16913	9.00	1880	16405	8.39	1956	16151	8.09	1995	15622	7.68	2035
	-5°F	-6°F	16961	8.84	1918	16452	8.24	1996	16198	7.96	2036	15692	7.56	2077
	0°F	-1°F	18156	9.28	1957	17611	8.65	2037	17339	8.35	2078	16821	7.94	2119
	5°F	3°F	19613	9.82	1997	19025	9.15	2078	18730	8.83	2120	18203	8.42	2162
	10°F	8°F	20766	10.19	2038	20143	9.50	2121	19832	9.17	2163	19299	8.75	2207
	15°F	13°F	20874	10.11	2064	20247	9.42	2149	19934	9.10	2192	19423	8.69	2236
	17°F	15°F	20970	10.08	2079	20340	9.40	2164	20026	9.07	2207	19513	8.67	2252
	20°F	17°F	22213	10.47	2122	21546	9.76	2208	21213	9.42	2253	20689	9.00	2298
	25°F	22°F	22830	10.54	2165	22145	9.83	2253	21802	9.49	2298	21274	9.07	2344
	30°F	27°F	24405	11.13	2194	23673	10.37	2283	23306	10.01	2329	22752	9.58	2375
	35°F	33°F	25966	11.75	2209	25187	10.95	2299	24798	10.57	2345	24253	10.14	2392
	40°F	36°F	28795	12.77	2254	28847	12.29	2346	28401	11.87	2393	27797	11.39	2441
	45°F	41°F	29000	12.61	2300	28510	11.91	2394	28149	11.53	2442	28111	11.29	2491
	47°F	43°F	30276	12.96	2335	29717	12.23	2431	29099	11.74	2479	28904	11.43	2529
50°F	46°F	30679	12.95	2369	30674	12.44	2466	30200	12.01	2515	29558	11.52	2566	
55°F	50°F	31936	12.63	2528	31866	12.55	2540	31358	12.10	2591	30664	11.60	2643	
60°F	55°F	32781	12.57	2609	32714	12.50	2616	32208	12.07	2669	31500	11.57	2722	
65°F	60°F	32021	12.66	2528	31060	11.53	2695	30580	11.13	2749	29901	10.67	2804	
70°F	64°F	30977	12.47	2484	30048	10.83	2776	29583	10.45	2831	28919	10.01	2888	
75°F	69°F	28453	12.37	2301	27599	9.65	2859	27172	9.32	2916	26501	8.91	2974	
80°F	74°F	28228	12.35	2286	27382	9.64	2840	26958	9.31	2897	26199	8.87	2955	
86°F	80°F													

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts

DB - Dry Bulb

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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	16080	7.64	2103	15597	7.12	2189	15356	6.88	2233	14754	6.48	2278
	-20°F	-20.5°F	16396	7.69	2131	15904	7.17	2218	15658	6.92	2262	15062	6.53	2308
	-15°F	-16°F	17066	7.95	2146	16554	7.41	2234	16298	7.15	2279	15695	6.75	2324
	-10°F	-11°F	17688	8.11	2181	17157	7.56	2270	16892	7.30	2315	16304	6.90	2361
	-5°F	-6°F	18808	8.59	2190	18244	8.00	2279	17962	7.73	2325	17373	7.33	2372
	0°F	-1°F	18862	8.44	2235	18296	7.87	2326	18013	7.59	2372	17450	7.21	2420
	5°F	3°F	20190	8.85	2280	19585	8.25	2373	19282	7.96	2421	18706	7.58	2469
	10°F	8°F	21811	9.37	2327	21157	8.74	2422	20830	8.43	2470	20243	8.03	2520
	15°F	13°F	23093	9.73	2374	22401	9.06	2471	22054	8.75	2521	21462	8.35	2571
	17°F	15°F	23213	9.65	2406	22517	8.99	2504	22168	8.68	2554	21600	8.29	2605
	20°F	17°F	23320	9.62	2423	22620	8.97	2522	22270	8.66	2572	21699	8.27	2624
	25°F	22°F	24702	9.99	2472	23961	9.31	2573	23591	8.99	2625	23008	8.59	2677
	30°F	27°F	25388	10.06	2523	24626	9.38	2626	24246	9.05	2678	23658	8.66	2732
	35°F	33°F	27140	10.62	2556	26325	9.90	2660	25918	9.55	2714	25301	9.14	2768
	40°F	36°F	28876	11.22	2574	28010	10.45	2679	27577	10.09	2733	26971	9.68	2788
	45°F	41°F	32022	12.19	2627	32080	11.73	2734	31584	11.33	2789	30912	10.87	2844
	47°F	43°F	32250	12.03	2680	31705	11.36	2790	31304	11.00	2846	31262	10.77	2902
	50°F	46°F	33669	12.37	2721	33047	11.67	2832	32360	11.20	2889	32144	10.91	2947
	55°F	50°F	34117	12.36	2761	34112	11.87	2873	33584	11.46	2931	32870	10.99	2990
60°F	55°F	35515	12.05	2946	35437	11.97	2960	34873	11.55	3019	34100	11.07	3079	
65°F	60°F	36455	11.99	3040	36380	11.93	3048	35818	11.52	3109	35030	11.04	3172	
70°F	64°F	35610	12.09	2946	34541	11.00	3140	34007	10.62	3203	33252	10.18	3267	
75°F	69°F	34449	11.90	2895	33416	10.33	3234	32899	9.97	3299	32160	9.56	3365	
80°F	74°F	31641	11.80	2681	30692	9.21	3331	30217	8.89	3398	29471	8.50	3466	
86°F	80°F	31392	11.79	2663	30450	9.20	3309	29979	8.88	3376	29135	8.46	3443	

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts

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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	18975	13900	73%	8.41	2257	20142	14755	73%	8.48	2375	20726	15183	73%	8.29	2500	22478	16466	73%	8.15	2757
5°F	20042	14731	74%	8.50	2358	21257	15624	74%	8.57	2482	21864	16070	74%	8.37	2612	23686	17409	74%	8.22	2880
10°F	21513	15867	74%	9.09	2365	22788	16807	74%	9.15	2490	23426	17278	74%	8.94	2621	25338	18688	74%	8.77	2890
15°F	21978	16264	74%	9.19	2391	23252	17206	74%	9.24	2517	23889	17678	74%	9.02	2650	25800	19092	74%	8.83	2921
20°F	22434	16658	74%	9.05	2478	23716	17610	74%	9.09	2609	24357	18086	74%	8.87	2746	26280	19514	74%	8.68	3027
25°F	22774	16967	75%	9.02	2526	24057	17923	74%	9.05	2659	24699	18400	75%	8.82	2799	26623	19834	74%	8.63	3086
30°F	23173	17324	75%	8.93	2595	24434	18266	75%	8.94	2732	25065	18738	75%	8.72	2876	26956	20152	75%	8.50	3171
35°F	23642	17731	75%	9.00	2627	24886	18665	75%	9.00	2765	25508	19131	75%	8.76	2911	27375	20531	75%	8.53	3209
40°F	25930	19514	75%	9.62	2694	27269	20521	75%	9.61	2836	27938	21024	75%	9.36	2986	29945	22535	75%	9.10	3292
45°F	27041	20416	75%	9.70	2787	28410	21450	75%	9.69	2933	29095	21966	75%	9.42	3088	31148	23517	76%	9.15	3404
50°F	28285	21428	76%	9.88	2863	29673	22479	76%	9.85	3014	30367	23005	76%	9.57	3172	32449	24583	76%	9.28	3497
55°F	28944	21997	76%	9.91	2919	30322	23045	76%	9.87	3073	31011	23568	76%	9.59	3235	33078	25140	76%	9.28	3566
60°F	29912	22810	76%	10.09	2964	31295	23865	76%	10.03	3120	31987	24392	76%	9.74	3284	34062	25974	76%	9.41	3621
65°F	30301	23180	76%	9.99	3033	31663	24222	76%	9.92	3193	32344	24743	76%	9.62	3361	34387	26306	77%	9.28	3706
70°F	31189	23941	77%	10.18	3065	32531	24971	77%	10.08	3226	33201	25485	77%	9.78	3396	35214	27030	77%	9.40	3744
75°F	32169	24770	77%	10.38	3099	33496	25792	77%	10.27	3262	34159	26302	77%	9.95	3433	36149	27835	77%	9.55	3785
80°F	32490	25100	77%	9.97	3258	33809	26119	77%	9.86	3430	34469	26628	77%	9.55	3610	36448	28157	77%	9.16	3980
85°F	33406	25890	77%	10.01	3339	34742	26925	78%	9.89	3515	35411	27443	78%	9.57	3700	37415	28997	78%	9.17	4079
90°F	34001	26433	78%	9.93	3424	35404	27524	78%	9.82	3604	36105	28069	78%	9.52	3794	38208	29704	78%	9.14	4182
95°F	34874	27202	78%	9.96	3502	36358	28359	78%	9.86	3686	37100	28938	78%	9.56	3880	39326	30674	78%	9.19	4278
100°F	34719	27166	78%	9.70	3580	36237	28353	78%	9.62	3768	36996	28947	78%	9.33	3966	39273	30729	78%	8.98	4373
105°F	33760	26501	79%	9.20	3671	35277	27692	79%	9.13	3864	36036	28288	78%	8.86	4068	38312	30075	79%	8.54	4485
110°F	33563	26429	79%	8.96	3744	35097	27638	79%	8.91	3941	35864	28242	79%	8.65	4148	38166	30054	79%	8.34	4574
115°F	31415	24818	79%	8.33	3772	32876	25972	79%	8.28	3970	33606	26549	79%	8.04	4179	35798	28280	79%	7.77	4608
120°F	29363	23267	79%	7.87	3731	30786	24395	79%	7.69	4002	31498	24959	79%	7.48	4213	33634	26651	79%	7.24	4645
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
 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	19580	6.99	2803	18993	6.51	2917	18699	6.28	2976	18007	5.93	3035
	-10°F	-11°F	20293	7.13	2848	19684	6.64	2964	19380	6.41	3023	18706	6.07	3084
	-5°F	-6°F	21578	7.54	2860	20931	7.03	2977	20607	6.79	3036	19931	6.44	3097
	0°F	-1°F	21640	7.41	2919	20991	6.91	3038	20666	6.67	3098	20020	6.33	3160
	5°F	3°F	23164	7.78	2978	22469	7.25	3100	22122	7.00	3162	21461	6.65	3225
	10°F	8°F	25024	8.23	3039	24273	7.67	3163	23897	7.41	3226	23224	7.06	3291
	15°F	13°F	26495	8.54	3101	25700	7.96	3227	25302	7.69	3292	24623	7.33	3358
	17°F	15°F	26632	8.48	3142	25833	7.90	3270	25433	7.63	3335	24781	7.28	3402
	20°F	17°F	26754	8.46	3164	25952	7.88	3293	25550	7.61	3359	24895	7.27	3426
	25°F	22°F	28340	8.78	3229	27490	8.18	3361	27065	7.90	3428	26397	7.55	3496
	30°F	27°F	29127	8.84	3295	28254	8.24	3429	27817	7.95	3498	27142	7.61	3568
	35°F	33°F	31137	9.33	3338	30203	8.69	3474	29736	8.39	3544	29028	8.03	3615
	40°F	36°F	33129	9.85	3362	32136	9.18	3499	31639	8.86	3569	30943	8.50	3640
	45°F	41°F	36738	10.71	3430	36805	10.31	3570	36236	9.95	3642	35465	9.55	3715
	47°F	43°F	37000	10.57	3500	36375	9.98	3643	35914	9.66	3716	35866	9.46	3791
	50°F	46°F	38628	10.87	3554	37915	10.25	3699	37126	9.84	3773	36878	9.58	3848
	55°F	50°F	39142	10.86	3605	39136	10.43	3753	38531	10.07	3828	37711	9.66	3904
	60°F	55°F	40746	10.59	3848	40656	10.52	3865	40009	10.15	3943	39123	9.73	4021
	65°F	60°F	41824	10.54	3970	41738	10.48	3981	41093	10.12	4061	40190	9.70	4142
70°F	64°F	40854	10.62	3848	39629	9.66	4101	39016	9.33	4183	38149	8.94	4266	
75°F	69°F	39523	10.45	3780	38337	9.08	4224	37744	8.76	4308	36896	8.40	4394	
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																				
5°F	22960	16875	74%	9.22	2491	24351	17898	74%	9.29	2622	25047	18409	74%	9.07	2760	27134	19943	74%	8.92	3043
10°F	24645	18177	74%	9.86	2500	26105	19254	74%	9.92	2631	26835	19792	74%	9.69	2770	29026	21408	74%	9.51	3053
15°F	25177	18631	74%	9.96	2527	26636	19711	74%	10.01	2660	27366	20251	74%	9.77	2800	29555	21871	74%	9.57	3087
20°F	25700	19083	74%	9.81	2619	27168	20173	74%	9.86	2757	27902	20718	74%	9.62	2902	30105	22354	74%	9.41	3199
25°F	26089	19436	75%	9.77	2669	27559	20531	74%	9.81	2810	28294	21079	75%	9.57	2958	30498	22721	74%	9.35	3261
30°F	26546	19845	75%	9.68	2743	27991	20925	75%	9.70	2887	28713	21465	75%	9.45	3039	30880	23085	75%	9.22	3350
35°F	27083	20312	75%	9.76	2776	28508	21381	75%	9.76	2922	29221	21916	75%	9.50	3076	31359	23520	75%	9.25	3391
40°F	29704	22354	75%	10.43	2847	31238	23508	75%	10.42	2997	32004	24085	75%	10.14	3155	34304	25815	75%	9.86	3478
45°F	30977	23387	75%	10.52	2945	32545	24572	75%	10.50	3100	33329	25164	75%	10.22	3263	35682	26940	76%	9.92	3597
50°F	32402	24547	76%	10.71	3025	33992	25751	76%	10.67	3184	34787	26354	76%	10.38	3352	37173	28161	76%	10.06	3696
55°F	33156	25199	76%	10.75	3085	34735	26399	76%	10.70	3247	35525	26999	76%	10.39	3418	37893	28799	76%	10.06	3768
60°F	34266	26130	76%	10.94	3132	35850	27338	76%	10.87	3297	36642	27942	76%	10.56	3470	39019	29755	76%	10.20	3826
65°F	34711	26554	76%	10.83	3205	36272	27748	76%	10.75	3374	37052	28344	76%	10.43	3552	39392	30135	77%	10.06	3916
70°F	35729	27426	77%	11.03	3239	37266	28605	77%	10.93	3409	38034	29195	77%	10.60	3589	40339	30964	77%	10.20	3956
75°F	36851	28376	77%	11.25	3274	38371	29546	77%	11.13	3447	39131	30131	77%	10.79	3628	41410	31886	77%	10.35	4000
80°F	37219	28753	77%	10.81	3443	38730	29920	77%	10.69	3624	39486	30504	77%	10.35	3815	41753	32256	77%	9.93	4206
85°F	38269	29658	77%	10.85	3528	39799	30844	78%	10.72	3714	40565	31438	78%	10.38	3909	42861	33217	78%	9.94	4310
90°F	38950	30281	78%	10.77	3618	40557	31530	78%	10.65	3808	41360	32154	78%	10.32	4009	43769	34027	78%	9.90	4420
95°F	39950	31161	78%	10.80	3700	41650	32487	78%	10.69	3895	42500	33150	78%	10.37	4100	45050	35139	78%	9.97	4520
100°F	39773	31120	78%	10.51	3783	41512	32480	78%	10.43	3982	42381	33160	78%	10.11	4191	44989	35201	78%	9.74	4621
105°F	38674	30359	79%	9.97	3879	40412	31723	79%	9.90	4084	41281	32405	78%	9.60	4298	43888	34452	79%	9.26	4739
110°F	38448	30276	79%	9.72	3956	40206	31660	79%	9.65	4164	41084	32352	79%	9.37	4384	43721	34428	79%	9.05	4833
115°F	35987	28430	79%	9.03	3986	37661	29752	79%	8.98	4195	38498	30413	79%	8.72	4416	41009	32397	79%	8.42	4869
120°F	33636	26653	79%	8.53	3943	35267	27946	79%	8.34	4229	36083	28592	79%	8.10	4452	38529	30531	79%	7.85	4908
122°F																				
125°F																				
129°F																				

MAX OUTPUT*

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts
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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												
	-20°F	-20.5°F												
	-15°F	-16°F	20003	8.47	2362	19403	7.89	2459	19103	7.62	2508	18396	7.19	2558
	-10°F	-11°F	20732	8.64	2400	20110	8.05	2498	19799	7.77	2548	19110	7.35	2599
	-5°F	-6°F	22045	9.14	2411	21383	8.52	2509	21053	8.23	2559	20362	7.80	2610
	0°F	-1°F	22108	8.99	2460	21445	8.38	2560	21113	8.08	2612	20453	7.68	2664
	5°F	3°F	23665	9.43	2510	22955	8.79	2613	22600	8.48	2665	21925	8.07	2718
	10°F	8°F	25565	9.98	2561	24798	9.30	2666	24414	8.98	2719	23726	8.55	2774
	15°F	13°F	27068	10.36	2614	26256	9.65	2720	25850	9.32	2775	25156	8.89	2830
	17°F	15°F	27208	10.28	2648	26391	9.58	2756	25983	9.24	2811	25317	8.83	2867
	20°F	17°F	27333	10.25	2667	26513	9.55	2776	26103	9.22	2831	25434	8.81	2888
	25°F	22°F	28953	10.64	2721	28085	9.92	2832	27650	9.57	2889	26967	9.15	2947
	30°F	27°F	29757	10.72	2777	28865	9.99	2890	28418	9.64	2948	27729	9.22	3007
	35°F	33°F	31810	11.31	2814	30856	10.54	2928	30379	10.17	2987	29656	9.73	3047
	40°F	36°F	33846	11.94	2834	32830	11.13	2949	32323	10.74	3008	31612	10.30	3068
	45°F	41°F	37532	12.98	2891	37600	12.49	3009	37019	12.06	3070	36232	11.57	3131
	47°F	43°F	37800	12.81	2950	37161	12.10	3071	36691	11.71	3132	36642	11.47	3195
	50°F	46°F	39463	13.17	2995	38735	12.42	3118	37928	11.93	3180	37675	11.61	3244
	55°F	50°F	39988	13.16	3039	39982	12.64	3163	39364	12.20	3226	38527	11.71	3291
60°F	55°F	41627	12.84	3243	41535	12.75	3258	40874	12.30	3323	39969	11.79	3389	
65°F	60°F	42729	12.77	3346	42641	12.71	3356	41981	12.27	3423	41059	11.76	3491	
70°F	64°F	41738	12.87	3243	40486	11.71	3456	39860	11.31	3525	38974	10.84	3596	
75°F	69°F	40377	12.67	3186	39166	11.00	3560	38560	10.62	3631	37694	10.18	3704	
80°F	74°F													
86°F	80°F													

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts

DB - Dry Bulb

TC - Total Capacity

SC - Total Capacity

SHR - Sensible Heat Ratio

COP - Coefficient of Performance





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