



EXTENDED RATINGS

Cooling Performance

CAS09

CAS09HP230V1R32AH / VIR09HP230V1R32AO / ENV09HP230V1R32AO
CAS09HP230V1R32AH / SAP09HP230V1R32AO

CAS12

CAS12HP230V1R32AH / VIR12HP230V1R32AO / ENV12HP230V1R32AO
CAS12HP230V1R32AH / SAP12HP230V1R32AO

CAS18

CAS18HP230V1R32AH / VIR18HP230V1R32AO / ENV18HP230V1R32AO
CAS18HP230V1R32AH / SAP18HP230V1R32AO

CAS24

CAS24HP230V1R32AH / VIR24HP230V1R32AO / ENV24HP230V1R32AO
CAS24HP230V1R32AH / SAP24HP230V1R32AO

CAS30

CAS30HP230V1R32AH / LIV30HP230V1R32AO

CAS36

CAS36HP230V1R32AH / LIV36HP230V1R32AO

Heating Performance

CAS09

CAS09HP230V1R32AH / VIR09HP230V1R32AO / ENV09HP230V1R32AO
CAS09HP230V1R32AH / SAP09HP230V1R32AO

CAS12

CAS12HP230V1R32AH / VIR12HP230V1R32AO / ENV12HP230V1R32AO
CAS12HP230V1R32AH / SAP12HP230V1R32AO

CAS18

CAS18HP230V1R32AH / VIR18HP230V1R32AO / ENV18HP230V1R32AO
CAS18HP230V1R32AH / SAP18HP230V1R32AO

CAS24

CAS24HP230V1R32AH / VIR24HP230V1R32AO / ENV24HP230V1R32AO
CAS24HP230V1R32AH / SAP24HP230V1R32AO

CAS30

CAS30HP230V1R32AH / LIV30HP230V1R32AO

CAS36

CAS36HP230V1R32AH / 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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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	7056	5116	73%	11.20	630	7560	5481	73%	11.61	651	8039	5828	73%	11.78	683	8568	6212	73%	11.66	735
	-15°F	7434	5390	73%	11.54	644	7938	5755	73%	11.70	678	8428	6110	73%	11.80	714	8946	6486	73%	11.36	787
	-10°F	7749	5637	73%	11.77	659	8253	6004	73%	11.90	693	8752	6367	73%	11.99	730	9261	6737	73%	11.51	805
	-5°F	8064	5887	73%	11.99	673	8568	6255	73%	12.10	708	9076	6626	73%	12.17	746	9576	6990	73%	11.65	822
	0°F	8190	5999	73%	11.92	687	8694	6368	73%	12.02	723	9206	6743	73%	12.09	761	9702	7107	73%	11.56	839
	5°F	8316	6112	74%	11.86	701	8820	6483	74%	11.95	738	9336	6862	74%	12.01	777	9828	7224	74%	11.47	857
	10°F	8505	6272	74%	11.89	715	9009	6644	74%	11.96	753	9530	7028	74%	12.02	793	10017	7388	74%	11.46	874
	15°F	8694	6434	74%	11.91	730	9198	6807	74%	11.98	768	9725	7196	74%	12.03	809	10206	7552	74%	11.45	891
	20°F	8820	6549	74%	11.86	744	9324	6923	74%	11.91	783	9854	7317	74%	11.96	824	10332	7672	74%	11.37	909
	25°F	8946	6665	75%	11.80	758	9450	7040	75%	11.84	798	9984	7438	75%	11.89	840	10458	7791	75%	11.29	926
	30°F	9261	6923	75%	11.99	772	9765	7299	75%	12.01	813	10308	7705	75%	12.05	856	10773	8053	75%	11.42	943
	35°F	9576	7182	75%	12.18	787	10080	7560	75%	12.18	828	10632	7974	75%	12.20	872	11088	8316	75%	11.54	961
	40°F	9765	7348	75%	12.19	801	10269	7727	75%	12.18	843	10827	8147	75%	12.20	887	11277	8486	75%	11.53	978
	45°F	9954	7515	76%	12.21	815	10458	7896	76%	12.19	858	11021	8321	75%	12.20	903	11466	8657	76%	11.52	996
	50°F	10269	7779	76%	12.38	829	10773	8161	76%	12.34	873	11345	8594	76%	12.35	919	11781	8924	76%	11.63	1013
	55°F	10584	8044	76%	12.55	843	11088	8427	76%	12.49	888	11669	8869	76%	12.49	935	12096	9193	76%	11.74	1030
	60°F	10899	8310	76%	12.71	858	11403	8695	76%	12.63	903	11994	9145	76%	12.62	950	12411	9463	76%	11.85	1048
	65°F	11214	8579	77%	12.86	872	11718	8964	77%	12.77	918	12318	9423	76%	12.75	966	12726	9735	77%	11.95	1065
	70°F	11718	8994	77%	13.23	886	12222	9380	77%	13.10	933	12836	9852	77%	13.07	982	13230	10154	77%	12.22	1082
	75°F	12222	9411	77%	13.58	900	12726	9799	77%	13.43	948	13355	10283	77%	13.39	998	13734	10575	77%	12.49	1100
	80°F	12411	9588	77%	13.57	914	12915	9977	77%	13.42	963	13549	10467	77%	13.37	1013	13923	10756	77%	12.46	1117
85°F	12600	9765	78%	13.57	929	13104	10156	78%	13.40	978	13744	10652	78%	13.36	1029	14112	10937	78%	12.44	1134	
90°F	12222	9503	78%	13.03	938	12726	9894	78%	12.89	988	13355	10384	78%	12.85	1040	13734	10678	78%	11.98	1146	
95°F	11844	9238	78%	12.50	948	12348	9631	78%	12.38	998	12966	10113	78%	12.35	1050	13356	10418	78%	11.54	1158	
100°F	11529	9021	78%	11.87	971	12033	9416	78%	11.77	1022	12642	9892	78%	11.75	1076	13041	10205	78%	10.99	1187	
105°F	11214	8803	79%	11.27	995	11718	9199	79%	11.19	1047	12318	9669	78%	11.17	1103	12726	9990	79%	10.47	1216	
110°F	11025	8682	79%	10.82	1019	11529	9079	79%	10.75	1072	12123	9547	79%	10.74	1129	12537	9873	79%	10.07	1244	
115°F	10836	8560	79%	10.40	1042	11340	8959	79%	10.33	1097	11929	9424	79%	10.33	1155	12348	9755	79%	9.70	1273	
120°F	10395	8238	79%	9.94	1046	10899	8637	79%	9.71	1122	11475	9094	79%	9.71	1181	11907	9436	79%	9.14	1302	
122°F	9954	7913	80%	9.48	1050	10458	8314	80%	9.12	1147	11021	8762	79%	9.13	1208	11466	9115	80%	8.61	1331	
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%	11.59	328	4076	2955	73%	12.02	339	4212	3054	73%	11.84	356	4620	3349	73%	12.06	383
	-15°F	3975	2882	73%	11.74	339	4245	3078	72%	11.91	356	4380	3175	73%	11.67	375	4784	3468	73%	11.56	414
	-10°F	4122	2999	73%	12.16	339	4390	3194	73%	12.30	357	4524	3291	73%	12.04	376	4926	3584	73%	11.89	414
	-5°F	4431	3235	73%	13.01	340	4708	3437	73%	13.14	358	4846	3538	73%	12.85	377	5262	3841	73%	12.65	416
	0°F	4654	3409	73%	13.63	341	4941	3619	73%	13.75	359	5084	3724	73%	13.44	378	5513	4039	73%	13.22	417
	5°F	4916	3613	74%	13.78	357	5214	3832	74%	13.89	375	5363	3942	74%	13.57	395	5810	4270	74%	13.33	436
	10°F	5277	3892	74%	14.75	358	5590	4123	74%	14.84	377	5746	4238	74%	14.49	397	6215	4584	74%	14.22	437
	15°F	5391	3989	74%	14.90	362	5703	4220	74%	14.98	381	5860	4336	74%	14.62	401	6328	4683	74%	14.32	442
	20°F	5503	4086	74%	14.68	375	5817	4319	74%	14.74	395	5974	4436	74%	14.38	415	6446	4786	74%	14.07	458
	25°F	5586	4162	75%	14.62	382	5901	4396	74%	14.67	402	6058	4513	75%	14.31	423	6530	4865	74%	13.99	467
	30°F	5684	4249	75%	14.48	393	5993	4480	75%	14.50	413	6148	4596	75%	14.13	435	6612	4943	75%	13.78	480
	35°F	5799	4349	75%	14.59	397	6104	4578	75%	14.59	418	6257	4693	75%	14.21	440	6715	5036	75%	13.83	486
	40°F	6360	4786	75%	15.60	408	6689	5033	75%	15.59	429	6853	5157	75%	15.17	452	7345	5527	75%	14.75	498
	45°F	6633	5008	75%	15.73	422	6969	5261	75%	15.70	444	7136	5388	75%	15.28	467	7640	5768	76%	14.83	515
	50°F	6938	5256	76%	16.02	433	7278	5514	76%	15.96	456	7449	5643	76%	15.52	480	7959	6030	76%	15.04	529
	55°F	7099	5396	76%	16.07	442	7437	5652	76%	16.00	465	7606	5781	76%	15.54	489	8114	6166	76%	15.04	540
	60°F	7337	5595	76%	16.36	448	7676	5854	76%	16.26	472	7846	5983	76%	15.79	497	8355	6371	76%	15.25	548
	65°F	7432	5686	76%	16.20	459	7766	5941	76%	16.08	483	7933	6069	76%	15.60	508	8434	6452	77%	15.05	561
	70°F	7650	5872	77%	16.50	464	7979	6125	77%	16.35	488	8144	6251	77%	15.85	514	8637	6630	77%	15.25	566
	75°F	7891	6076	77%	16.83	469	8216	6326	77%	16.65	493	8379	6452	77%	16.13	519	8867	6827	77%	15.48	573
	80°F	7969	6157	77%	16.17	493	8293	6407	77%	15.98	519	8455	6531	77%	15.48	546	8940	6906	77%	14.85	602
85°F	8194	6350	77%	16.22	505	8522	6604	78%	16.03	532	8686	6731	78%	15.52	560	9177	7112	78%	14.87	617	
90°F	8340	6484	78%	16.10	518	8684	6751	78%	15.93	545	8856	6885	78%	15.43	574	9372	7286	78%	14.81	633	
95°F	8554	6672	78%	16.15	530	8918	6956	78%	15.99	558	9100	7098	78%	15.50	587	9646	7524	78%	14.90	647	
100°F	8516	6663	78%	15.73	542	8888	6955	78%	15.59	570	9075	7100	78%	15.12	600	9633	7537	78%	14.56	662	
105°F	8281	6500	79%	14.91	555	8653	6792	79%	14.80	585	8839	6939	78%	14.36	615	9397	7377	79%	13.85	678	
110°F	8232	6483	79%	14.53	566	8609	6779	79%	14.44	596	8797	6927	79%	14.02	628	9361	7372	79%	13.53	692	
115°F	7705	6087	79%	13.50	571	8064	6370	79%	13.43	601	8243	6512	79%	13.04	632	8781	6937	79%	12.60	697	
120°F	7202	5707	79%	12.76	565	7551	5984	79%	12.47	606	7726	6122	79%	12.12	637	8250	6537	79%	11.74	703	
122°F	6738	5357	80%	12.02	561	7079	5628	80%	11.56	612	7250	5764	79%	11.25	645	7762	6171	79%	10.92	711	
125°F																					
129°F																					

*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	6105	1.71	1044	5805	1.60	1065	5505	1.49	1086	5205	0.87	1760
	-20°F	-20.5°F	6318	1.76	1054	6018	1.64	1075	5718	1.53	1097	5418	0.88	1800
	-15°F	-16°F	6523	1.80	1065	6223	1.68	1086	5923	1.57	1108	5623	0.90	1830
	-10°F	-11°F	6854	1.87	1076	6554	1.75	1097	6254	1.64	1119	5954	0.90	1940
	-5°F	-6°F	7049	1.90	1087	6749	1.78	1108	6449	1.67	1131	6149	0.88	2040
	0°F	-1°F	7455	1.97	1109	7155	1.85	1131	6855	1.74	1154	6555	0.91	2100
	5°F	3°F	7648	1.98	1132	7348	1.87	1154	7048	1.75	1177	6748	0.92	2160
	10°F	8°F	8945	2.27	1155	8645	2.15	1178	8345	2.04	1201	8045	1.05	2240
	15°F	13°F	9547	2.40	1166	9247	2.28	1190	8947	2.16	1214	8647	1.09	2330
	17°F	15°F	10608	2.64	1178	10308	2.51	1202	10008	2.39	1226	9708	1.18	2420
	20°F	17°F	11152	2.72	1202	10880	2.60	1226	10608	2.49	1251	10336	1.28	2370
	25°F	22°F	11560	2.76	1227	11288	2.64	1251	11016	2.53	1276	10744	1.30	2420
	30°F	27°F	11764	2.78	1239	11492	2.66	1264	11220	2.55	1289	10948	1.32	2440
	35°F	33°F	11968	2.80	1252	11696	2.68	1277	11424	2.57	1302	11152	1.33	2460
	40°F	36°F	12920	2.96	1277	12648	2.85	1303	12376	2.73	1329	12104	1.35	2620
	45°F	41°F	13328	3.00	1303	13056	2.88	1329	12784	2.76	1356	12512	1.38	2650
47°F	43°F	13700	3.02	1330	13328	2.88	1357	13056	2.77	1384	12784	1.41	2650	
50°F	46°F	13464	2.95	1337	13192	2.84	1363	12920	2.72	1391	12648	1.42	2610	
55°F	50°F	13328	2.91	1343	13056	2.79	1370	12784	2.68	1398	12512	1.43	2570	
60°F	55°F	13192	2.85	1357	12920	2.74	1384	12648	2.63	1411	12376	1.44	2520	
65°F	60°F	12920	2.91	1303	12648	2.79	1329	12376	2.67	1356	12104	1.39	2560	
70°F	64°F	12784	2.89	1297	12512	2.77	1323	12240	2.66	1349	11968	1.38	2550	
75°F	69°F	12648	2.87	1290	12376	2.76	1316	12104	2.64	1342	11832	1.37	2530	
80°F	74°F	11560	2.71	1250	11288	2.59	1275	11016	2.48	1301	10744	1.57	2000	
86°F	80°F	10200	2.44	1224	9928	2.33	1248	9656	2.22	1273	9384	1.30	2120	

*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	2.54	604	5078	2.37	628	5000	2.29	641	4804	2.15	654
	-20°F	-20.5°F	5338	2.56	612	5178	2.38	636	5098	2.30	649	4904	2.17	662
	-15°F	-16°F	5557	2.64	616	5390	2.46	641	5306	2.38	654	5110	2.25	667
	-10°F	-11°F	5759	2.70	626	5586	2.51	651	5500	2.43	664	5308	2.30	678
	-5°F	-6°F	6123	2.86	628	5940	2.66	654	5848	2.57	667	5656	2.44	680
	0°F	-1°F	6141	2.81	641	5957	2.62	667	5865	2.52	681	5681	2.40	694
	5°F	3°F	6574	2.94	654	6376	2.74	681	6278	2.65	695	6090	2.52	709
	10°F	8°F	7101	3.12	668	6888	2.91	695	6782	2.80	709	6591	2.67	723
	15°F	13°F	7519	3.23	681	7293	3.01	709	7180	2.91	723	6988	2.78	738
	17°F	15°F	7558	3.21	690	7331	2.99	718	7218	2.89	733	7033	2.76	747
	20°F	17°F	7592	3.20	695	7365	2.98	724	7251	2.88	738	7065	2.75	753
	25°F	22°F	8043	3.32	709	7801	3.10	738	7681	2.99	753	7491	2.86	768
	30°F	27°F	8266	3.35	724	8018	3.12	753	7894	3.01	768	7703	2.88	784
	35°F	33°F	8836	3.53	733	8571	3.29	763	8439	3.18	779	8238	3.04	794
	40°F	36°F	9402	3.73	739	9120	3.48	769	8979	3.36	784	8781	3.22	800
	45°F	41°F	10426	4.05	754	10445	3.90	784	10283	3.77	800	10064	3.61	816
47°F	43°F	10500	4.00	769	10323	3.78	800	10192	3.66	817	10178	3.58	833	
50°F	46°F	10962	4.11	781	10760	3.88	813	10536	3.72	829	10465	3.63	846	
55°F	50°F	11108	4.11	792	11106	3.95	825	10934	3.81	841	10702	3.66	858	
60°F	55°F	11563	4.01	845	11538	3.98	849	11354	3.84	866	11102	3.68	884	
65°F	60°F	11869	3.99	872	11845	3.97	875	11662	3.83	892	11405	3.67	910	
70°F	64°F	11594	4.02	845	11246	3.66	901	11072	3.53	919	10826	3.38	937	
75°F	69°F	11216	3.96	831	10879	3.44	928	10711	3.32	947	10471	3.18	965	
80°F	74°F	10302	3.92	769	9993	3.06	956	9838	2.96	975	9595	2.83	994	
86°F	80°F	10221	3.92	764	9914	3.06	950	9761	2.95	969	9486	2.81	988	

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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)	
MAX OUTPUT*	-20°F	8960	6496	73%	10.62	844	9600	6960	73%	11.01	872	9920	7192	73%	10.85	914	10400	7540	73%	10.88	956
	-15°F	9440	6844	73%	10.94	863	10080	7308	73%	11.10	908	10400	7540	73%	10.88	956	11040	8004	73%	11.00	1004
	-10°F	9840	7159	73%	11.16	882	10480	7624	73%	11.29	928	10800	7857	73%	11.05	977	11440	8323	73%	11.15	1026
	-5°F	10240	7475	73%	11.37	901	10880	7942	73%	11.47	948	11200	8176	73%	11.22	998	11840	8643	73%	11.30	1048
	0°F	10400	7618	73%	11.30	920	11040	8087	73%	11.40	968	11360	8321	73%	11.14	1019	12000	8790	73%	11.21	1070
	5°F	10560	7762	74%	11.25	939	11200	8232	74%	11.33	988	11520	8467	74%	11.07	1040	12160	8938	74%	11.13	1092
	10°F	10800	7965	74%	11.27	958	11440	8437	74%	11.34	1008	11760	8673	74%	11.08	1062	12400	9145	74%	11.12	1115
	15°F	11040	8170	74%	11.30	977	11680	8643	74%	11.36	1028	12000	8880	74%	11.08	1083	12640	9354	74%	11.12	1137
	20°F	11200	8316	74%	11.24	996	11840	8791	74%	11.29	1049	12160	9029	74%	11.02	1104	12800	9504	74%	11.04	1159
	25°F	11360	8463	75%	11.19	1015	12000	8940	75%	11.23	1069	12320	9178	75%	10.95	1125	12960	9655	75%	10.97	1181
	30°F	11760	8791	75%	11.37	1034	12400	9269	75%	11.39	1089	12720	9508	75%	11.10	1146	13360	9987	75%	11.10	1203
	35°F	12160	9120	75%	11.55	1053	12800	9600	75%	11.55	1109	13120	9840	75%	11.24	1167	13760	10320	75%	11.23	1225
	40°F	12400	9331	75%	11.56	1072	13040	9813	75%	11.55	1129	13360	10053	75%	11.25	1188	14000	10535	75%	11.22	1247
	45°F	12640	9543	76%	11.58	1091	13280	10026	76%	11.56	1149	13600	10268	76%	11.25	1209	14240	10751	76%	11.22	1270
	50°F	13040	9878	76%	11.74	1110	13680	10363	76%	11.70	1169	14000	10605	76%	11.38	1230	14640	11090	76%	11.33	1292
	55°F	13440	10214	76%	11.90	1129	14080	10701	76%	11.84	1189	14400	10944	76%	11.51	1251	15040	11430	76%	11.45	1314
	60°F	13840	10553	76%	12.05	1148	14480	11041	76%	11.98	1209	14800	11285	76%	11.63	1272	15440	11773	76%	11.56	1336
	65°F	14240	10894	77%	12.20	1167	14880	11383	77%	12.11	1229	15200	11628	77%	11.75	1294	15840	12118	77%	11.66	1358
	70°F	14880	11420	77%	12.54	1186	15520	11912	77%	12.43	1249	15840	12157	77%	12.05	1315	16480	12648	77%	11.94	1380
	75°F	15520	11950	77%	12.87	1205	16160	12443	77%	12.74	1269	16480	12690	77%	12.34	1336	17120	13182	77%	12.21	1402
	80°F	15760	12175	77%	12.87	1225	16400	12669	77%	12.72	1289	16720	12916	77%	12.32	1357	17360	13411	77%	12.19	1425
	85°F	16000	12400	78%	12.87	1244	16640	12896	78%	12.71	1309	16960	13144	78%	12.31	1378	17600	13640	78%	12.17	1447
	90°F	15520	12067	78%	12.35	1256	16160	12564	78%	12.22	1322	16480	12813	78%	11.84	1392	17120	13311	78%	11.71	1462
	95°F	15040	11731	78%	11.85	1269	15680	12230	78%	11.74	1336	16000	12480	78%	11.38	1406	16640	12979	78%	11.27	1476
	100°F	14240	11143	78%	11.17	1275	14880	11644	78%	11.08	1342	15040	11769	78%	10.64	1413	15840	12395	78%	10.68	1484
	105°F	13440	10550	79%	10.49	1282	14080	11053	79%	10.44	1349	14400	11304	79%	10.14	1420	15040	11806	79%	10.09	1491
	110°F	11840	9324	79%	9.67	1225	12480	9828	79%	9.68	1289	12800	10080	79%	9.43	1357	13440	10584	79%	9.43	1425
	115°F	10240	8090	79%	8.77	1167	10880	8595	79%	8.85	1229	11200	8848	79%	8.66	1294	11840	9354	79%	8.72	1358
120°F	10400	8242	79%	9.26	1123	11040	8749	79%	9.34	1182	11360	9003	79%	9.13	1244	12000	9510	79%	9.18	1307	
122°F	10560	8395	80%	9.79	1079	11200	8904	80%	9.86	1135	11520	9158	80%	9.64	1195	12160	9667	80%	9.69	1255	
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



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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	8960	6496	73%	10.62	844	9600	6960	73%	11.01	872	9920	7192	73%	10.85	914	10400	7540	73%	10.88	956
-15°F	9440	6844	73%	10.94	863	10080	7308	73%	11.10	908	10400	7540	73%	10.88	956	11040	8004	73%	11.00	1004
-10°F	9840	7159	73%	11.16	882	10480	7624	73%	11.29	928	10800	7857	73%	11.05	977	11440	8323	73%	11.15	1026
-5°F	10240	7475	73%	11.37	901	10880	7942	73%	11.47	948	11200	8176	73%	11.22	998	11840	8643	73%	11.30	1048
0°F	10400	7618	73%	11.30	920	11040	8087	73%	11.40	968	11360	8321	73%	11.14	1019	12000	8790	73%	11.21	1070
5°F	10560	7762	74%	11.25	939	11200	8232	74%	11.33	988	11520	8467	74%	11.07	1040	12160	8938	74%	11.13	1092
10°F	10800	7965	74%	11.27	958	11440	8437	74%	11.34	1008	11760	8673	74%	11.08	1062	12400	9145	74%	11.12	1115
15°F	11040	8170	74%	11.30	977	11680	8643	74%	11.36	1028	12000	8880	74%	11.08	1083	12640	9354	74%	11.12	1137
20°F	11200	8316	74%	11.24	996	11840	8791	74%	11.29	1049	12160	9029	74%	11.02	1104	12800	9504	74%	11.04	1159
25°F	11360	8463	75%	11.19	1015	12000	8940	75%	11.23	1069	12320	9178	75%	10.95	1125	12960	9655	75%	10.97	1181
30°F	11760	8791	75%	11.37	1034	12400	9269	75%	11.39	1089	12720	9508	75%	11.10	1146	13360	9987	75%	11.10	1203
35°F	12160	9120	75%	11.55	1053	12800	9600	75%	11.55	1109	13120	9840	75%	11.24	1167	13760	10320	75%	11.23	1225
40°F	12400	9331	75%	11.56	1072	13040	9813	75%	11.55	1129	13360	10053	75%	11.25	1188	14000	10535	75%	11.22	1247
45°F	12640	9543	76%	11.58	1091	13280	10026	76%	11.56	1149	13600	10268	76%	11.25	1209	14240	10751	76%	11.22	1270
50°F	13040	9878	76%	11.74	1110	13680	10363	76%	11.70	1169	14000	10605	76%	11.38	1230	14640	11090	76%	11.33	1292
55°F	13440	10214	76%	11.90	1129	14080	10701	76%	11.84	1189	14400	10944	76%	11.51	1251	15040	11430	76%	11.45	1314
60°F	13840	10553	76%	12.05	1148	14480	11041	76%	11.98	1209	14800	11285	76%	11.63	1272	15440	11773	76%	11.56	1336
65°F	14240	10894	77%	12.20	1167	14880	11383	77%	12.11	1229	15200	11628	77%	11.75	1294	15840	12118	77%	11.66	1358
70°F	14880	11420	77%	12.54	1186	15520	11912	77%	12.43	1249	15840	12157	77%	12.05	1315	16480	12648	77%	11.94	1380
75°F	15520	11950	77%	12.87	1205	16160	12443	77%	12.74	1269	16480	12690	77%	12.34	1336	17120	13182	77%	12.21	1402
80°F	15760	12175	77%	12.87	1225	16400	12669	77%	12.72	1289	16720	12916	77%	12.32	1357	17360	13411	77%	12.19	1425
85°F	16000	12400	78%	12.87	1244	16640	12896	78%	12.71	1309	16960	13144	78%	12.31	1378	17600	13640	78%	12.17	1447
90°F	15520	12067	78%	12.35	1256	16160	12564	78%	12.22	1322	16480	12813	78%	11.84	1392	17120	13311	78%	11.71	1462
95°F	15040	11731	78%	11.85	1269	15680	12230	78%	11.74	1336	16000	12480	78%	11.38	1406	16640	12979	78%	11.27	1476
100°F	14240	11143	78%	11.17	1275	14880	11644	78%	11.08	1342	15040	11769	78%	10.64	1413	15840	12395	78%	10.68	1484
105°F	13440	10550	79%	10.49	1282	14080	11053	79%	10.44	1349	14400	11304	79%	10.14	1420	15040	11806	79%	10.09	1491
110°F	11840	9324	79%	9.67	1225	12480	9828	79%	9.68	1289	12800	10080	79%	9.43	1357	13440	10584	79%	9.43	1425
115°F	10240	8090	79%	8.77	1167	10880	8595	79%	8.85	1229	11200	8848	79%	8.66	1294	11840	9354	79%	8.72	1358
120°F	10400	8242	79%	9.26	1123	11040	8749	79%	9.34	1182	11360	9003	79%	9.13	1244	12000	9510	79%	9.18	1307
122°F	10560	8395	80%	9.79	1079	11200	8904	80%	9.86	1135	11520	9158	80%	9.64	1195	12160	9667	80%	9.69	1255
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
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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	7280	1.51	1418	7000	1.42	1446	6720	1.34	1475	6440	1.25	1504
	-22°F	-22.5°F	7490	1.53	1432	7210	1.45	1461	6930	1.36	1490	6650	1.28	1520
	-20°F	-20.5°F	7700	1.56	1447	7420	1.47	1475	7140	1.39	1505	6860	1.31	1535
	-15°F	-16°F	7910	1.59	1461	7630	1.50	1491	7350	1.42	1520	7070	1.34	1551
	-10°F	-11°F	8120	1.61	1476	7840	1.53	1506	7560	1.44	1536	7280	1.36	1566
	-5°F	-6°F	8680	1.69	1506	8400	1.60	1536	8120	1.52	1567	7840	1.44	1598
	0°F	-1°F	10080	1.92	1537	9800	1.83	1568	9520	1.74	1599	9240	1.66	1631
	5°F	3°F	10500	2.00	1537	10220	1.91	1568	9940	1.82	1599	9660	1.74	1631
	10°F	8°F	11270	2.10	1575	11270	2.06	1607	10990	1.97	1639	10710	1.88	1671
	15°F	13°F	12040	2.19	1613	12320	2.20	1645	12040	2.10	1678	11760	2.01	1712
	17°F	15°F	11550	2.14	1581	11270	2.05	1612	10990	1.96	1644	10710	1.87	1677
	20°F	17°F	11480	2.27	1482	11200	2.17	1512	10920	2.08	1542	10640	1.98	1573
	25°F	22°F	11270	2.34	1412	10990	2.24	1440	10710	2.14	1469	10430	2.04	1498
	30°F	27°F	11060	2.42	1341	10780	2.31	1368	10500	2.21	1395	10220	2.10	1423
	35°F	33°F	13300	3.72	1047	13020	3.57	1068	12740	3.43	1089	12460	3.29	1111
	40°F	36°F	13720	3.76	1068	13440	3.61	1090	13160	3.47	1111	12880	3.33	1134
	45°F	41°F	14000	3.76	1090	13720	3.62	1112	13440	3.47	1134	13160	3.33	1157
	47°F	43°F	13860	3.71	1095	13580	3.56	1117	13300	3.42	1140	13020	3.28	1163
50°F	46°F	13720	3.65	1101	13440	3.51	1123	13160	3.37	1145	12880	3.23	1168	
55°F	50°F	13580	3.58	1112	13300	3.44	1134	13020	3.30	1157	12740	3.16	1180	
60°F	55°F	13300	3.65	1068	13020	3.50	1090	12740	3.36	1111	12460	3.22	1134	
65°F	60°F	13160	3.63	1063	12880	3.48	1084	12600	3.34	1106	12320	3.20	1128	
70°F	64°F	13020	3.61	1057	12740	3.46	1078	12460	3.32	1100	12180	3.18	1122	
75°F	69°F	11900	3.40	1025	11620	3.26	1045	11340	3.12	1066	11060	2.98	1087	
80°F	74°F	10500	3.07	1003	10220	2.93	1023	9940	2.79	1043	9660	2.66	1064	
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



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	8106	1.40	1692	7794	1.32	1726	7482	1.25	1761	7171	1.17	1796
	-20°F	-20.5°F	8340	1.43	1710	8028	1.35	1744	7716	1.27	1779	7404	1.20	1814
	-15°F	-16°F	8573	1.46	1727	8262	1.38	1761	7950	1.30	1797	7638	1.22	1833
	-10°F	-11°F	8807	1.48	1745	8495	1.40	1779	8184	1.32	1815	7872	1.25	1851
	-5°F	-6°F	9041	1.50	1762	8729	1.42	1797	8418	1.35	1833	8106	1.27	1870
	0°F	-1°F	9665	1.58	1798	9353	1.49	1834	9041	1.42	1871	8729	1.34	1908
	5°F	3°F	12003	1.92	1835	11691	1.83	1871	11379	1.75	1909	11068	1.67	1947
	10°F	8°F	11691	1.84	1861	11379	1.76	1898	11068	1.68	1936	10756	1.60	1975
	15°F	13°F	12548	1.93	1907	12548	1.89	1946	12237	1.81	1984	11925	1.73	2024
	17°F	15°F	13406	2.01	1954	13717	2.02	1993	13406	1.93	2033	13094	1.85	2073
	20°F	17°F	12860	1.97	1914	12548	1.88	1952	12237	1.80	1991	11925	1.72	2031
	25°F	22°F	12782	2.09	1795	12470	2.00	1831	12159	1.91	1868	11847	1.82	1905
	30°F	27°F	12548	2.15	1709	12237	2.06	1744	11925	1.97	1778	11613	1.88	1814
	35°F	33°F	12315	2.22	1624	12003	2.12	1656	11691	2.03	1689	11379	1.94	1723
	40°F	36°F	14809	3.42	1268	14497	3.29	1293	14185	3.15	1319	13873	3.02	1345
	45°F	41°F	15276	3.46	1294	14965	3.33	1319	14653	3.19	1346	14341	3.06	1373
47°F	43°F	15588	3.46	1320	15276	3.33	1346	14965	3.19	1373	14653	3.07	1401	
50°F	46°F	15432	3.41	1327	15120	3.28	1353	14809	3.14	1380	14497	3.02	1408	
55°F	50°F	15276	3.36	1333	14965	3.22	1360	14653	3.10	1387	14341	2.97	1415	
60°F	55°F	15120	3.29	1346	14809	3.16	1373	14497	3.03	1401	14185	2.91	1429	
65°F	60°F	14809	3.36	1294	14497	3.22	1319	14185	3.09	1346	13873	2.96	1373	
70°F	64°F	14653	3.34	1287	14341	3.20	1313	14029	3.07	1339	13717	2.94	1366	
75°F	69°F	14497	3.32	1280	14185	3.18	1306	13873	3.05	1332	13562	2.92	1359	
80°F	74°F	13250	3.13	1241	12938	3.00	1266	12626	2.87	1291	12315	2.74	1317	
86°F	80°F	11691	2.82	1214	11379	2.69	1239	11068	2.57	1263	10756	2.45	1289	

*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	7987	4553	57%	11.23	711	8234	4858	59%	11.35	725	8445	5067	60%	11.41	740	9036	5512	61%	11.63	777
	-15°F	8234	4858	59%	11.35	725	8489	5178	61%	11.47	740	8706	5398	62%	11.53	755	9316	5869	63%	11.75	793
	-10°F	8489	5008	59%	11.47	740	8751	5338	61%	11.59	755	8976	5565	62%	11.65	771	9604	6051	63%	11.87	809
	-5°F	8751	5163	59%	11.59	755	9022	5503	61%	11.71	771	9253	5737	62%	11.77	787	9901	6238	63%	11.99	826
	0°F	9022	5323	59%	11.71	771	9301	5674	61%	11.83	787	9540	5915	62%	11.89	803	10207	6431	63%	12.11	843
	5°F	9301	5674	61%	11.83	787	9589	6041	63%	11.95	803	9835	6294	64%	12.01	819	10523	6840	65%	12.24	860
	10°F	9589	5849	61%	11.95	803	9885	6228	63%	12.07	819	10139	6489	64%	12.13	836	10848	7051	65%	12.36	877
	15°F	9885	6030	61%	12.07	819	10191	6420	63%	12.20	836	10452	6689	64%	12.26	853	11184	7270	65%	12.49	895
	20°F	10191	6216	61%	12.20	836	10506	6619	63%	12.32	853	10776	6896	64%	12.38	870	11530	7494	65%	12.62	914
	25°F	10506	6619	63%	12.32	853	10831	7040	65%	12.45	870	11109	7332	66%	12.51	888	11886	7964	67%	12.75	932
	30°F	10831	6824	63%	12.45	870	11166	7258	65%	12.58	888	11452	7559	66%	12.64	906	12254	8210	67%	12.88	951
	35°F	11166	7035	63%	12.58	888	11511	7482	65%	12.71	906	11807	7792	66%	12.77	924	12633	8464	67%	13.01	971
	40°F	11511	7252	63%	12.71	906	11867	7714	65%	12.84	924	12172	8033	66%	12.90	943	13024	8726	67%	13.15	990
	45°F	11867	7951	67%	12.84	924	12234	8442	69%	12.97	943	12548	8784	70%	13.04	963	13427	9533	71%	13.28	1011
	50°F	12234	8197	67%	12.97	943	12613	8703	69%	13.10	963	12936	9055	70%	13.17	982	13842	9828	71%	13.42	1031
	55°F	12613	8451	67%	13.10	963	13003	8972	69%	13.24	982	13336	9335	70%	13.31	1002	14270	10132	71%	13.56	1052
	60°F	13003	8712	67%	13.24	982	13405	9250	69%	13.37	1002	13749	9624	70%	13.44	1023	14711	10445	71%	13.70	1074
	65°F	15298	10402	68%	13.39	1142	15771	11039	70%	13.53	1165	16175	11484	71%	13.60	1189	17307	12461	72%	13.86	1249
	70°F	15610	10615	68%	13.53	1154	16093	11265	70%	13.67	1177	16505	11719	71%	13.74	1201	17661	12716	72%	14.00	1261
	75°F	16093	10943	68%	13.67	1177	16590	11613	70%	13.81	1201	17016	12081	71%	13.88	1226	18207	13109	72%	14.15	1287
	80°F	18287	12435	68%	13.51	1353	18853	13197	70%	13.65	1381	19336	13729	71%	13.72	1409	20689	14896	72%	13.99	1479
85°F	17754	12251	69%	11.68	1520	18303	12995	71%	11.80	1551	18773	13516	72%	11.86	1583	20087	14663	73%	12.08	1662	
90°F	19091	13173	69%	10.05	1900	19681	13974	71%	10.15	1939	20186	14534	72%	10.20	1979	21599	15767	73%	10.40	2078	
95°F	18716	12914	69%	9.55	1959	19295	13700	71%	9.65	1999	19790	14249	72%	9.70	2040	21175	15458	73%	9.89	2142	
100°F	17968	12398	69%	8.90	2018	18523	13152	71%	9.00	2059	18998	13679	72%	9.04	2101	20328	14840	73%	9.21	2206	
105°F	17249	12074	70%	8.22	2099	17783	12803	72%	8.30	2142	18238	13314	73%	8.35	2185	19515	14441	74%	8.51	2295	
110°F	14281	9997	70%	7.01	2036	14723	10600	72%	7.09	2078	15100	11023	73%	7.12	2120	16157	11956	74%	7.26	2226	
115°F	11710	8197	70%	6.77	1731	12072	8692	72%	6.84	1766	12382	9039	73%	6.87	1802	13249	9804	74%	7.00	1892	
120°F	10773	7541	70%	6.48	1661	11107	7997	72%	6.55	1695	11391	8316	73%	6.58	1730	12189	9020	74%	6.71	1816	
122°F	10019	7114	71%	6.28	1595	10329	7540	73%	6.35	1628	10594	7840	74%	6.38	1661	11336	8502	75%	6.50	1744	
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



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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	8908	4721	53%	9.88	902	9184	5051	55%	9.98	920	9419	5275	56%	10.03	939	10078	5745	57%	10.22	986
-15°F	9184	4959	54%	9.98	920	9468	5302	56%	10.08	939	9710	5535	57%	10.13	958	10390	6026	58%	10.33	1006
-10°F	9468	5112	54%	10.08	939	9760	5466	56%	10.19	958	10011	5706	57%	10.24	978	10711	6213	58%	10.43	1027
-5°F	9760	5271	54%	10.19	958	10062	5635	56%	10.29	978	10320	5883	57%	10.34	998	11043	6405	58%	10.54	1048
0°F	10062	5434	54%	10.29	978	10373	5809	56%	10.40	998	10639	6064	57%	10.45	1018	11384	6603	58%	10.65	1069
5°F	10373	5705	55%	10.40	998	10694	6096	57%	10.50	1018	10969	6362	58%	10.56	1039	11736	6924	59%	10.76	1091
10°F	10694	5882	55%	10.50	1018	11025	6284	57%	10.61	1039	11308	6558	58%	10.67	1060	12099	7139	59%	10.87	1113
15°F	11025	6064	55%	10.61	1039	11366	6479	57%	10.72	1060	11657	6761	58%	10.78	1082	12473	7359	59%	10.98	1136
20°F	11366	6251	55%	10.72	1060	11718	6679	57%	10.83	1082	12018	6970	58%	10.89	1104	12859	7587	59%	11.09	1159
25°F	11718	6562	56%	10.83	1082	12080	7006	58%	10.94	1104	12390	7310	59%	11.00	1126	13257	7954	60%	11.21	1183
30°F	12080	6765	56%	10.94	1104	12454	7223	58%	11.06	1126	12773	7536	59%	11.11	1149	13667	8200	60%	11.32	1207
35°F	12454	6974	56%	11.06	1126	12839	7446	58%	11.17	1149	13168	7769	59%	11.23	1173	14090	8454	60%	11.44	1231
40°F	12839	7190	56%	11.17	1149	13236	7677	58%	11.29	1173	13575	8009	59%	11.34	1197	14525	8715	60%	11.56	1257
45°F	13236	7544	57%	11.29	1173	13645	8051	59%	11.40	1197	13995	8397	60%	11.46	1221	14975	9135	61%	11.68	1282
50°F	13645	7778	57%	11.40	1197	14067	8300	59%	11.52	1221	14428	8657	60%	11.58	1246	15438	9417	61%	11.80	1308
55°F	14067	8018	57%	11.52	1221	14502	8556	59%	11.64	1246	14874	8924	60%	11.70	1272	15915	9708	61%	11.92	1335
60°F	14354	8182	57%	11.64	1234	14798	8731	59%	11.76	1259	15178	9107	60%	11.82	1284	16240	9906	61%	12.04	1349
65°F	15270	8857	58%	11.39	1341	15743	9446	60%	11.51	1368	16146	9849	61%	11.57	1396	17277	10712	62%	11.79	1466
70°F	15582	9038	58%	11.51	1354	16064	9638	60%	11.62	1382	16476	10050	61%	11.68	1410	17629	10930	62%	11.91	1481
75°F	16064	9317	58%	11.39	1411	16561	9937	60%	11.50	1440	16986	10361	61%	11.56	1469	18174	11268	62%	11.78	1542
80°F	17089	9912	58%	11.14	1533	17618	10571	60%	11.26	1565	18070	11023	61%	11.32	1597	19335	11987	62%	11.53	1677
85°F	16920	9983	59%	10.59	1597	17444	10641	61%	10.70	1630	17891	11092	62%	10.76	1663	19143	12060	63%	10.96	1746
90°F	18392	10851	59%	10.36	1775	18960	11566	61%	10.47	1811	19447	12057	62%	10.52	1848	20808	13109	63%	10.72	1940
95°F	19360	11809	61%	9.16	2113	19958	12574	63%	9.26	2156	20470	13101	64%	9.30	2200	21903	14237	65%	9.48	2310
100°F	18585	11337	61%	8.54	2176	19160	12071	63%	8.63	2221	19651	12577	64%	8.67	2266	21027	13667	65%	8.84	2379
105°F	18028	11177	62%	7.97	2263	18585	11894	64%	8.05	2310	19062	12390	65%	8.09	2357	20396	13461	66%	8.24	2474
110°F	17875	11261	63%	7.21	2478	18428	11978	65%	7.29	2528	18900	12474	66%	7.33	2580	20223	13549	67%	7.47	2709
115°F	15193	9572	63%	6.59	2304	15663	10181	65%	6.66	2351	16065	10603	66%	6.70	2399	17190	11517	67%	6.82	2519
120°F	12914	8394	65%	6.37	2028	13314	8920	67%	6.43	2069	13655	9286	68%	6.47	2111	14611	10082	69%	6.59	2217
122°F	11365	7387	65%	5.96	1906	11716	7850	67%	6.02	1945	12017	8171	68%	6.05	1985	12858	8872	69%	6.17	2084
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)	
MAX OUTPUT*	DB	WB												
	-22°F	-22.5°F	9212	1.31	2059	8982	1.25	2100	8712	1.19	2142	8364	1.12	2185
	-20°F	-20.5°F	9697	1.37	2070	9454	1.31	2111	9171	1.25	2153	8804	1.17	2196
	-15°F	-16°F	10154	1.43	2080	9900	1.37	2122	9603	1.30	2164	9219	1.22	2207
	-10°F	-11°F	10802	1.57	2019	10532	1.50	2060	10216	1.43	2101	9807	1.34	2143
	-5°F	-6°F	11491	1.66	2030	11204	1.59	2070	10868	1.51	2112	10433	1.42	2154
	0°F	-1°F	12096	1.74	2040	11794	1.66	2081	11440	1.58	2122	10982	1.49	2165
	5°F	3°F	12600	1.80	2050	12285	1.72	2091	11916	1.64	2133	11440	1.54	2175
	10°F	8°F	13497	1.94	2044	13159	1.85	2085	12765	1.76	2126	12254	1.66	2169
	15°F	13°F	14059	1.97	2096	13708	1.88	2138	13296	1.79	2181	12765	1.68	2225
	17°F	15°F	14500	1.98	2150	14138	1.89	2193	13713	1.80	2237	13165	1.69	2282
	20°F	17°F	14645	2.06	2086	14279	1.97	2127	13851	1.87	2170	13296	1.76	2213
	25°F	22°F	15290	2.12	2112	14908	2.03	2154	14461	1.93	2197	13882	1.82	2241
	30°F	27°F	15927	2.23	2091	15529	2.13	2133	15063	2.03	2175	14461	1.91	2219
	35°F	33°F	16420	2.35	2050	16010	2.24	2091	15529	2.13	2133	14908	2.01	2175
	40°F	36°F	19564	2.97	1931	19075	2.84	1969	18503	2.70	2008	17762	2.54	2049
	45°F	41°F	20169	3.03	1950	19665	2.90	1989	19075	2.76	2029	18312	2.59	2069
47°F	43°F	20472	3.05	1970	19960	2.91	2009	19361	2.77	2049	18587	2.61	2090	
50°F	46°F	17606	3.40	1517	17165	3.25	1547	16650	3.09	1578	15984	2.91	1609	
55°F	50°F	17253	3.37	1501	16822	3.22	1531	16317	3.06	1562	15665	2.88	1593	
60°F	55°F	15528	3.33	1366	15140	3.18	1394	14686	3.03	1421	14098	2.85	1450	
65°F	60°F	15062	3.30	1339	14686	3.15	1366	14245	3.00	1393	13675	2.82	1421	
70°F	64°F	11297	3.21	1031	11014	3.07	1052	10684	2.92	1073	10256	2.75	1094	
75°F	69°F	10845	3.15	1010	10574	3.01	1031	10256	2.86	1051	9846	2.69	1072	
80°F	74°F	10411	3.07	995	10151	2.93	1015	9846	2.79	1035	9452	2.62	1056	
86°F	80°F	9890	2.97	975	9643	2.84	995	9354	2.70	1015	8980	2.54	1035	

*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)	
MAX OUTPUT*	DB	WB	10022	1.31	2250	9771	1.25	2295	9478	1.19	2341	9099	1.12	2388
	-22°F	-22.5°F	10834	1.38	2308	10564	1.32	2354	10247	1.25	2401	9837	1.18	2449
	-20°F	-20.5°F	11526	1.43	2355	11238	1.37	2402	10901	1.30	2450	10465	1.23	2499
	-15°F	-16°F	13098	1.60	2403	12770	1.53	2451	12387	1.45	2500	11892	1.37	2550
	-10°F	-11°F	14553	1.74	2452	14189	1.66	2501	13763	1.58	2551	13213	1.49	2602
	-5°F	-6°F	14850	1.77	2464	14479	1.69	2514	14044	1.61	2564	13483	1.51	2615
	0°F	-1°F	15000	1.80	2440	14625	1.72	2489	14186	1.64	2539	13619	1.54	2589
	5°F	3°F	15300	1.82	2464	14918	1.74	2514	14470	1.65	2564	13891	1.56	2615
	10°F	8°F	18330	1.41	3823	17872	1.34	3899	17336	1.28	3977	16642	1.20	4057
	15°F	13°F	18915	1.44	3861	18442	1.37	3938	17889	1.31	4017	17173	1.23	4098
	20°F	17°F	19500	1.45	3940	19013	1.39	4019	18442	1.32	4099	17704	1.24	4181
	25°F	22°F	18176	1.60	3329	17722	1.53	3395	17190	1.45	3463	16503	1.37	3533
	30°F	27°F	17820	1.68	3111	17375	1.60	3173	16853	1.53	3237	16179	1.44	3301
	35°F	33°F	18000	1.73	3050	17550	1.65	3111	17024	1.57	3173	16343	1.48	3237
	40°F	36°F	19058	2.19	2550	18581	2.09	2601	18024	1.99	2653	17303	1.87	2706
	45°F	41°F	20061	2.33	2525	19559	2.23	2575	18972	2.12	2626	18213	1.99	2679
	47°F	43°F	20470	2.35	2550	19958	2.25	2601	19360	2.14	2653	18585	2.01	2706
	50°F	46°F	20879	2.38	2576	20357	2.27	2627	19747	2.16	2680	18957	2.03	2733
55°F	50°F	21297	2.46	2537	20765	2.35	2588	20142	2.24	2639	19336	2.11	2692	
60°F	55°F	19167	2.49	2258	18688	2.38	2303	18127	2.26	2349	17402	2.13	2396	
65°F	60°F	17634	2.44	2122	17193	2.33	2165	16677	2.21	2208	16010	2.08	2252	
70°F	64°F	16223	2.49	1910	15818	2.38	1948	15343	2.26	1987	14729	2.13	2027	
75°F	69°F	15250	2.60	1719	14869	2.49	1753	14423	2.36	1789	13846	2.22	1824	
80°F	74°F	13725	2.57	1564	13382	2.46	1596	12980	2.34	1628	12461	2.20	1660	
86°F	80°F	12352	2.54	1424	12044	2.43	1452	11682	2.31	1481	11215	2.18	1511	

*Maximum Output values are not based on AHRI test conditions

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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)
MAX OUTPUT*	-20°F	11288	8184	73%	7.21	1566	12095	8769	73%	7.47	1618	12498	9061	73%	7.37	1697	13707	9938	73%	7.50	1827
	-15°F	11795	8551	73%	7.30	1615	12595	9131	72%	7.41	1700	12994	9421	73%	7.26	1790	14194	10291	73%	7.19	1973
	-10°F	12229	8898	73%	7.56	1617	13025	9477	73%	7.65	1703	13422	9766	73%	7.49	1792	14615	10634	73%	7.40	1976
	-5°F	13147	9597	73%	8.09	1624	13968	10197	73%	8.17	1710	14379	10497	73%	7.99	1800	15612	11397	73%	7.87	1984
	0°F	13809	10116	73%	8.48	1628	14659	10738	73%	8.55	1714	15084	11049	73%	8.36	1804	16358	11983	73%	8.22	1989
	5°F	14586	10721	74%	8.57	1701	15470	11370	74%	8.64	1791	15912	11695	74%	8.44	1885	17238	12670	74%	8.29	2078
	10°F	15657	11548	74%	9.17	1707	16584	12232	74%	9.23	1797	17048	12574	74%	9.01	1891	18440	13600	74%	8.84	2085
	15°F	15995	11836	74%	9.27	1726	16922	12522	74%	9.32	1817	17385	12865	74%	9.09	1912	18776	13894	74%	8.91	2108
	20°F	16327	12123	74%	9.13	1788	17260	12816	74%	9.17	1883	17726	13162	74%	8.95	1982	19126	14201	74%	8.75	2185
	25°F	16574	12348	75%	9.09	1823	17508	13043	74%	9.12	1919	17975	13391	75%	8.90	2020	19375	14435	74%	8.70	2227
	30°F	16864	12608	75%	9.00	1873	17782	13294	75%	9.02	1972	18241	13637	75%	8.79	2075	19618	14666	75%	8.57	2288
	35°F	17206	12904	75%	9.08	1896	18111	13583	75%	9.08	1996	18564	13923	75%	8.84	2101	19922	14942	75%	8.60	2316
	40°F	18871	14201	75%	9.71	1944	19845	14934	75%	9.70	2047	20332	15301	75%	9.44	2155	21793	16400	75%	9.17	2375
	45°F	19679	14858	75%	9.79	2011	20676	15610	75%	9.77	2117	21174	15986	75%	9.50	2228	22669	17115	76%	9.23	2457
	50°F	20585	15594	76%	9.96	2066	21595	16360	76%	9.93	2175	22100	16742	76%	9.65	2289	23616	17890	76%	9.36	2524
	55°F	21064	16009	76%	10.00	2107	22067	16771	76%	9.95	2218	22569	17152	76%	9.67	2334	24073	18296	76%	9.35	2574
	60°F	21769	16600	76%	10.18	2139	22775	17368	76%	10.12	2251	23279	17752	76%	9.82	2370	24789	18903	76%	9.49	2613
	65°F	22052	16870	76%	10.07	2189	23043	17628	76%	10.00	2304	23539	18007	76%	9.70	2426	25025	19144	77%	9.36	2674
	70°F	22698	17423	77%	10.26	2212	23675	18173	77%	10.17	2328	24163	18547	77%	9.86	2451	25627	19671	77%	9.48	2702
	75°F	23411	18027	77%	10.47	2236	24377	18770	77%	10.36	2354	24860	19142	77%	10.03	2478	26308	20257	77%	9.63	2732
	80°F	23645	18267	77%	10.06	2351	24605	19008	77%	9.94	2475	25085	19379	77%	9.63	2605	26525	20492	77%	9.23	2872
85°F	24312	18842	77%	10.09	2409	25284	19595	78%	9.97	2536	25770	19972	78%	9.65	2670	27229	21103	78%	9.25	2943	
90°F	24745	19237	78%	10.02	2471	25765	20031	78%	9.91	2601	26276	20427	78%	9.60	2738	27806	21617	78%	9.21	3018	
95°F	25380	19796	78%	10.04	2527	26460	20639	78%	9.95	2660	27000	21060	78%	9.64	2800	28620	22324	78%	9.27	3087	
100°F	25268	19770	78%	9.78	2583	26372	20634	78%	9.70	2719	26924	21067	78%	9.41	2862	28581	22363	78%	9.06	3156	
105°F	24569	19287	79%	9.27	2649	25673	20154	79%	9.21	2789	26225	20587	78%	8.93	2936	27882	21887	79%	8.61	3236	
110°F	24426	19234	79%	9.04	2702	25542	20114	79%	8.98	2844	26101	20553	79%	8.72	2994	27776	21872	79%	8.42	3300	
115°F	22862	18061	79%	8.40	2722	23926	18901	79%	8.35	2865	24457	19321	79%	8.11	3016	26052	20581	79%	7.84	3325	
120°F	21369	16933	79%	7.94	2693	22405	17754	79%	7.76	2888	22923	18164	79%	7.54	3040	24477	19396	79%	7.30	3352	
122°F	19992	15894	80%	7.48	2674	21005	16699	80%	7.19	2921	21511	17101	79%	7.00	3075	23029	18308	79%	6.79	3390	
125°F																					
129°F																					

*Maximum Output values are not based on AHRI test conditions

- LEGEND: W - Watts
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 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	11623	8427	73%	7.22	1611	12453	9029	73%	7.48	1664	12868	9329	73%	7.37	1745	14114	10232	73%	7.51	1879
	-15°F	12144	8805	73%	7.31	1661	12968	9402	72%	7.42	1749	13379	9700	73%	7.27	1841	14615	10596	73%	7.20	2030
	-10°F	12592	9162	73%	7.57	1664	13410	9757	73%	7.66	1751	13820	10055	73%	7.50	1843	15048	10949	73%	7.40	2032
	-5°F	13536	9881	73%	8.10	1670	14382	10499	73%	8.18	1758	14805	10808	73%	8.00	1851	16074	11734	73%	7.88	2041
	0°F	14218	10415	73%	8.49	1675	15093	11056	73%	8.56	1763	15531	11377	73%	8.37	1856	16843	12338	73%	8.23	2046
	5°F	15018	11038	74%	8.58	1750	15928	11707	74%	8.65	1842	16384	12042	74%	8.45	1939	17749	13045	74%	8.30	2138
	10°F	16120	11890	74%	9.18	1756	17076	12594	74%	9.24	1848	17553	12947	74%	9.02	1945	18986	14003	74%	8.85	2145
	15°F	16468	12187	74%	9.28	1775	17423	12893	74%	9.32	1868	17901	13246	74%	9.10	1967	19333	14306	74%	8.92	2168
	20°F	16811	12482	74%	9.14	1839	17771	13196	74%	9.18	1936	18251	13552	74%	8.95	2038	19692	14622	74%	8.76	2247
	25°F	17065	12714	75%	9.10	1875	18027	13430	74%	9.13	1974	18507	13788	75%	8.91	2078	19949	14862	74%	8.71	2291
	30°F	17364	12981	75%	9.01	1926	18309	13688	75%	9.03	2028	18782	14041	75%	8.80	2135	20199	15100	75%	8.58	2353
	35°F	17716	13287	75%	9.08	1950	18648	13986	75%	9.08	2053	19114	14336	75%	8.85	2161	20513	15385	75%	8.61	2382
	40°F	19430	14622	75%	9.72	2000	20433	15377	75%	9.71	2105	20934	15754	75%	9.45	2216	22439	16886	75%	9.18	2443
	45°F	20262	15298	75%	9.80	2068	21288	16073	75%	9.78	2177	21801	16460	75%	9.51	2292	23340	17622	76%	9.24	2527
	50°F	21195	16056	76%	9.97	2125	22235	16844	76%	9.94	2237	22755	17238	76%	9.66	2355	24315	18420	76%	9.37	2596
	55°F	21688	16483	76%	10.01	2167	22721	17268	76%	9.96	2281	23237	17660	76%	9.68	2401	24786	18838	76%	9.36	2647
	60°F	22414	17092	76%	10.19	2200	23450	17882	76%	10.13	2316	23968	18278	76%	9.83	2438	25523	19463	76%	9.50	2688
	65°F	22705	17370	76%	10.08	2252	23726	18150	76%	10.01	2370	24236	18541	76%	9.71	2495	25767	19712	77%	9.37	2751
	70°F	23371	17940	77%	10.27	2275	24376	18711	77%	10.18	2395	24879	19097	77%	9.87	2521	26386	20254	77%	9.49	2779
	75°F	24105	18561	77%	10.48	2300	25099	19326	77%	10.37	2421	25596	19709	77%	10.04	2549	27087	20857	77%	9.64	2810
	80°F	24345	18808	77%	10.07	2418	25334	19572	77%	9.95	2546	25828	19953	77%	9.64	2680	27311	21099	77%	9.24	2954
85°F	25032	19400	77%	10.10	2478	26033	20176	78%	9.98	2609	26534	20564	78%	9.66	2746	28036	21728	78%	9.26	3028	
90°F	25478	19807	78%	10.03	2541	26529	20624	78%	9.92	2675	27054	21033	78%	9.61	2816	28630	22258	78%	9.22	3105	
95°F	26132	20383	78%	10.05	2599	27244	21250	78%	9.96	2736	27800	21684	78%	9.65	2880	29468	22985	78%	9.28	3175	
100°F	26016	20356	78%	9.79	2657	27154	21246	78%	9.71	2797	27722	21691	78%	9.42	2944	29428	23026	78%	9.07	3246	
105°F	25297	19858	79%	9.28	2725	26434	20751	79%	9.22	2868	27002	21197	78%	8.94	3019	28708	22536	79%	8.62	3329	
110°F	25149	19804	79%	9.05	2779	26299	20710	79%	8.99	2925	26874	21162	79%	8.73	3079	28599	22520	79%	8.42	3395	
115°F	23540	18596	79%	8.41	2800	24635	19461	79%	8.36	2947	25182	19894	79%	8.12	3102	26824	21191	79%	7.84	3420	
120°F	22002	17434	79%	7.94	2770	23069	18280	79%	7.77	2971	23602	18703	79%	7.55	3127	25203	19971	79%	7.31	3448	
122°F	20585	16365	80%	7.48	2750	21627	17193	80%	7.20	3005	22148	17608	79%	7.00	3163	23711	18851	79%	6.80	3487	
125°F																					
129°F																					

*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	13961	6.49	2150	13542	6.05	2238	13332	5.84	2283	12810	5.50	2329
	-20°F	-20.5°F	14235	6.53	2179	13808	6.09	2268	13595	5.88	2313	13077	5.54	2359
	-15°F	-16°F	14817	6.75	2194	14373	6.29	2284	14151	6.07	2330	13627	5.73	2376
	-10°F	-11°F	15357	6.89	2230	14896	6.42	2321	14666	6.20	2367	14156	5.86	2414
	-5°F	-6°F	16329	7.29	2239	15839	6.80	2330	15595	6.56	2377	15083	6.22	2425
	0°F	-1°F	16376	7.17	2285	15885	6.68	2378	15639	6.45	2426	15151	6.12	2474
	5°F	3°F	17530	7.52	2331	17004	7.01	2427	16741	6.76	2475	16241	6.43	2525
	10°F	8°F	18937	7.96	2379	18369	7.42	2476	18085	7.16	2526	17575	6.82	2576
	15°F	13°F	20050	8.26	2428	19449	7.70	2527	19148	7.43	2577	18634	7.09	2629
	17°F	15°F	20154	8.19	2459	19549	7.64	2560	19247	7.37	2611	18754	7.04	2663
	20°F	17°F	20246	8.17	2477	19639	7.62	2578	19335	7.35	2630	18840	7.02	2682
	25°F	22°F	21447	8.48	2528	20803	7.91	2631	20482	7.63	2683	19976	7.30	2737
	30°F	27°F	22042	8.55	2579	21381	7.96	2684	21050	7.69	2738	20540	7.35	2793
	35°F	33°F	23563	9.02	2613	22856	8.40	2720	22503	8.11	2774	21967	7.76	2830
	40°F	36°F	25071	9.53	2632	24319	8.88	2739	23943	8.57	2794	23416	8.22	2850
	45°F	41°F	27802	10.35	2686	27852	9.96	2795	27421	9.62	2851	26838	9.23	2908
	47°F	43°F	28000	10.22	2740	27527	9.65	2852	27178	9.34	2909	27142	9.15	2967
	50°F	46°F	29232	10.51	2782	28692	9.91	2896	28095	9.51	2954	27908	9.26	3013
55°F	50°F	29621	10.49	2823	29617	10.08	2938	29159	9.73	2997	28538	9.34	3056	
60°F	55°F	30835	10.24	3012	30767	10.17	3026	30277	9.81	3086	29607	9.40	3148	
65°F	60°F	31651	10.18	3108	31586	10.13	3117	31097	9.78	3179	30414	9.38	3243	
70°F	64°F	30917	10.26	3012	29989	9.34	3210	29526	9.02	3274	28870	8.64	3340	
75°F	69°F	29909	10.11	2960	29012	8.77	3307	28563	8.47	3373	27922	8.12	3440	
80°F	74°F	27472	10.02	2741	26647	7.82	3406	26235	7.55	3474	25587	7.22	3543	
86°F	80°F	27255	10.01	2723	26437	7.81	3384	26029	7.54	3451	25295	7.19	3520	

*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	14260	6.44	2213	13832	6.00	2304	13618	5.80	2350	13084	5.46	2397
	-20°F	-20.5°F	14540	6.48	2242	14104	6.04	2334	13886	5.83	2381	13357	5.50	2428
	-15°F	-16°F	15135	6.70	2258	14681	6.25	2351	14454	6.03	2398	13919	5.69	2446
	-10°F	-11°F	15686	6.84	2295	15215	6.37	2388	14980	6.15	2436	14459	5.82	2485
	-5°F	-6°F	16679	7.24	2304	16179	6.75	2399	15929	6.51	2446	15406	6.17	2495
	0°F	-1°F	16727	7.11	2351	16225	6.63	2447	15974	6.40	2496	15475	6.08	2546
	5°F	3°F	17905	7.46	2399	17368	6.95	2497	17100	6.71	2547	16589	6.38	2598
	10°F	8°F	19343	7.90	2448	18762	7.36	2548	18472	7.11	2599	17952	6.77	2651
	15°F	13°F	20480	8.20	2498	19865	7.64	2600	19558	7.37	2652	19033	7.04	2705
	17°F	15°F	20586	8.13	2531	19968	7.58	2635	19659	7.32	2687	19155	6.99	2741
	20°F	17°F	20680	8.11	2549	20060	7.56	2653	19750	7.30	2707	19243	6.97	2761
	25°F	22°F	21906	8.42	2601	21249	7.85	2708	20921	7.58	2762	20404	7.24	2817
	30°F	27°F	22515	8.48	2655	21839	7.90	2763	21502	7.63	2818	20980	7.30	2874
	35°F	33°F	24068	8.95	2690	23346	8.34	2799	22985	8.05	2855	22438	7.70	2912
	40°F	36°F	25608	9.45	2709	24840	8.81	2819	24456	8.50	2876	23918	8.15	2933
	45°F	41°F	28398	10.27	2764	28449	9.89	2877	28009	9.55	2934	27413	9.16	2993
47°F	43°F	28600	10.14	2820	28117	9.58	2936	27761	9.27	2994	27724	9.08	3054	
50°F	46°F	29858	10.43	2863	29307	9.83	2980	28697	9.44	3040	28506	9.19	3101	
55°F	50°F	30255	10.41	2905	30251	10.01	3024	29783	9.66	3084	29150	9.27	3146	
60°F	55°F	31496	10.16	3100	31426	10.09	3114	30926	9.74	3177	30241	9.33	3240	
65°F	60°F	32329	10.11	3199	32263	10.06	3208	31764	9.71	3272	31066	9.31	3337	
70°F	64°F	31579	10.19	3100	30632	9.27	3304	30158	8.95	3370	29488	8.58	3437	
75°F	69°F	30550	10.03	3046	29634	8.71	3403	29175	8.41	3471	28520	8.06	3541	
80°F	74°F	28060	9.95	2821	27218	7.77	3505	26797	7.50	3575	26136	7.17	3647	
86°F	80°F	27839	9.93	2803	27004	7.75	3482	26586	7.48	3552	25837	7.13	3623	

*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	16878	12364	73%	7.64	2210	17916	13124	73%	7.70	2326	18436	13505	73%	7.53	2449	19994	14646	73%	7.41	2700
5°F	17827	13103	74%	7.72	2309	18908	13897	74%	7.78	2431	19448	14294	74%	7.60	2559	21069	15486	74%	7.47	2821
10°F	19136	14114	74%	8.26	2317	20270	14950	74%	8.31	2439	20837	15368	74%	8.12	2567	22538	16623	74%	7.96	2830
15°F	19549	14466	74%	8.35	2342	20682	15305	74%	8.39	2465	21249	15724	74%	8.19	2595	22949	16982	74%	8.02	2861
20°F	19955	14817	74%	8.22	2427	21095	15664	74%	8.26	2555	21665	16087	74%	8.06	2689	23376	17357	74%	7.88	2965
25°F	20257	15092	75%	8.19	2474	21398	15942	74%	8.22	2604	21969	16367	75%	8.01	2741	23681	17642	74%	7.84	3022
30°F	20612	15409	75%	8.11	2542	21734	16248	75%	8.12	2676	22295	16667	75%	7.92	2817	23977	17925	75%	7.72	3105
35°F	21029	15772	75%	8.17	2573	22136	16602	75%	8.17	2708	22689	17017	75%	7.96	2851	24350	18262	75%	7.75	3143
40°F	23065	17357	75%	8.74	2639	24255	18253	75%	8.73	2778	24850	18701	75%	8.50	2924	26636	20045	75%	8.26	3224
45°F	24053	18160	75%	8.81	2729	25270	19079	75%	8.80	2873	25879	19539	75%	8.56	3024	27706	20918	76%	8.31	3334
50°F	25159	19060	76%	8.97	2804	26394	19995	76%	8.94	2951	27011	20463	76%	8.69	3107	28863	21866	76%	8.43	3425
55°F	25745	19566	76%	9.00	2859	26971	20498	76%	8.96	3010	27584	20964	76%	8.71	3168	29423	22361	76%	8.42	3493
60°F	26606	20289	76%	9.17	2903	27837	21227	76%	9.11	3056	28452	21696	76%	8.85	3216	30297	23104	76%	8.54	3546
65°F	26952	20619	76%	9.07	2971	28164	21545	76%	9.01	3127	28769	22009	76%	8.74	3292	30586	23399	77%	8.43	3629
70°F	27742	21295	77%	9.24	3002	28936	22211	77%	9.16	3160	29532	22669	77%	8.88	3326	31322	24043	77%	8.54	3667
75°F	28614	22033	77%	9.43	3035	29794	22941	77%	9.33	3194	30384	23396	77%	9.04	3363	32154	24758	77%	8.67	3707
80°F	28899	22326	77%	9.06	3191	30073	23232	77%	8.95	3359	30660	23686	77%	8.67	3536	32420	25046	77%	8.32	3898
85°F	29714	23029	77%	9.09	3270	30903	23950	78%	8.98	3442	31497	24410	78%	8.69	3623	33280	25792	78%	8.33	3995
90°F	30244	23512	78%	9.02	3353	31491	24482	78%	8.92	3530	32115	24967	78%	8.64	3715	33985	26421	78%	8.30	4096
95°F	31020	24196	78%	9.05	3430	32340	25225	78%	8.96	3610	33000	25740	78%	8.68	3800	34980	27284	78%	8.35	4190
100°F	30883	24163	78%	8.81	3506	32233	25220	78%	8.73	3690	32908	25748	78%	8.47	3885	34933	27333	78%	8.16	4283
105°F	30029	23573	79%	8.35	3596	31378	24632	79%	8.29	3785	32053	25162	78%	8.05	3984	34078	26751	79%	7.76	4392
110°F	29854	23509	79%	8.14	3667	31218	24583	79%	8.09	3860	31901	25121	79%	7.85	4063	33948	26733	79%	7.58	4479
115°F	27943	22075	79%	7.56	3694	29243	23102	79%	7.52	3888	29892	23615	79%	7.30	4093	31842	25155	79%	7.06	4513
120°F	26118	20696	79%	7.15	3654	27384	21699	79%	6.99	3920	28017	22201	79%	6.79	4126	29917	23706	79%	6.58	4549
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	18257	6.91	2643	17709	6.44	2751	17436	6.21	2806	16790	5.87	2862
	-10°F	-11°F	18922	7.05	2685	18354	6.57	2795	18070	6.34	2851	17442	6.00	2908
	-5°F	-6°F	20120	7.46	2697	19516	6.95	2807	19215	6.71	2863	18585	6.36	2920
	0°F	-1°F	20178	7.33	2752	19572	6.83	2864	19270	6.60	2921	18668	6.26	2980
	5°F	3°F	21599	7.69	2808	20951	7.17	2923	20627	6.92	2981	20011	6.58	3041
	10°F	8°F	23333	8.14	2865	22633	7.59	2982	22283	7.33	3042	21655	6.98	3103
	15°F	13°F	24705	8.45	2924	23963	7.87	3043	23593	7.60	3104	22960	7.25	3166
	17°F	15°F	24832	8.38	2962	24087	7.81	3083	23715	7.54	3145	23107	7.20	3208
	20°F	17°F	24947	8.36	2983	24198	7.79	3105	23824	7.52	3167	23213	7.19	3231
	25°F	22°F	26426	8.68	3044	25633	8.09	3168	25236	7.81	3232	24613	7.47	3296
	30°F	27°F	27159	8.74	3106	26345	8.15	3233	25937	7.86	3298	25308	7.52	3364
	35°F	33°F	29033	9.22	3147	28162	8.60	3276	27727	8.30	3341	27067	7.94	3408
	40°F	36°F	30891	9.75	3170	29964	9.08	3299	29501	8.77	3365	28852	8.41	3432
	45°F	41°F	34256	10.59	3234	34318	10.19	3366	33787	9.84	3434	33068	9.44	3502
47°F	43°F	34500	10.45	3300	33917	9.87	3435	33488	9.56	3504	33443	9.36	3574	
50°F	46°F	36018	10.75	3351	35353	10.14	3488	34617	9.73	3557	34386	9.48	3629	
55°F	50°F	36497	10.74	3399	36492	10.31	3538	35928	9.96	3609	35163	9.55	3681	
60°F	55°F	37993	10.47	3628	37909	10.40	3644	37306	10.04	3717	36479	9.62	3792	
65°F	60°F	38998	10.42	3743	38918	10.37	3754	38316	10.01	3829	37474	9.60	3905	
70°F	64°F	38094	10.50	3628	36951	9.56	3866	36380	9.22	3944	35571	8.84	4023	
75°F	69°F	36852	10.34	3564	35747	8.98	3982	35194	8.66	4062	34403	8.30	4143	
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	20458	14986	73%	9.02	2268	21717	15908	73%	9.10	2388	22346	16369	73%	8.89	2513	24235	17753	73%	8.75	2771
5°F	21609	15883	74%	9.12	2370	22919	16845	74%	9.19	2495	23573	17326	74%	8.98	2626	25538	18770	74%	8.82	2895
10°F	23195	17108	74%	9.76	2378	24569	18121	74%	9.82	2503	25257	18628	74%	9.59	2634	27318	20149	74%	9.41	2905
15°F	23696	17535	74%	9.86	2404	25069	18551	74%	9.91	2530	25756	19060	74%	9.67	2663	27817	20584	74%	9.47	2936
20°F	24188	17960	74%	9.71	2491	25570	18987	74%	9.75	2622	26261	19500	74%	9.51	2760	28334	21039	74%	9.31	3043
25°F	24554	18293	75%	9.67	2539	25938	19323	74%	9.70	2673	26629	19839	75%	9.47	2813	28704	21385	74%	9.25	3102
30°F	24984	18678	75%	9.58	2609	26344	19694	75%	9.59	2746	27024	20202	75%	9.35	2891	29063	21727	75%	9.12	3187
35°F	25490	19117	75%	9.65	2641	26832	20124	75%	9.65	2780	27502	20627	75%	9.40	2926	29515	22136	75%	9.15	3226
40°F	27957	21039	75%	10.32	2708	29400	22125	75%	10.31	2851	30122	22668	75%	10.04	3001	32286	24297	75%	9.76	3309
45°F	29155	22012	75%	10.41	2801	30631	23126	75%	10.39	2948	31369	23684	75%	10.11	3104	33583	25355	76%	9.81	3422
50°F	30496	23103	76%	10.60	2878	31992	24237	76%	10.56	3029	32741	24804	76%	10.27	3189	34986	26504	76%	9.95	3515
55°F	31206	23717	76%	10.63	2934	32692	24846	76%	10.58	3089	33435	25411	76%	10.28	3251	35664	27105	76%	9.95	3585
60°F	32250	24593	76%	10.83	2979	33741	25730	76%	10.76	3136	34487	26299	76%	10.45	3301	36724	28004	76%	10.09	3639
65°F	32670	24992	76%	10.71	3049	34138	26116	76%	10.64	3209	34872	26677	76%	10.32	3378	37075	28362	77%	9.95	3725
70°F	33627	25812	77%	10.92	3081	35073	26923	77%	10.82	3243	35797	27478	77%	10.49	3414	37966	29143	77%	10.09	3763
75°F	34684	26706	77%	11.14	3115	36114	27808	77%	11.02	3279	36829	28358	77%	10.67	3451	38974	30010	77%	10.24	3805
80°F	35029	27062	77%	10.70	3275	36452	28160	77%	10.57	3447	37163	28710	77%	10.24	3629	39297	30358	77%	9.82	4001
85°F	36017	27913	77%	10.73	3356	37458	29030	78%	10.60	3533	38178	29588	78%	10.27	3719	40340	31263	78%	9.84	4100
90°F	36659	28500	78%	10.65	3441	38171	29675	78%	10.54	3623	38927	30263	78%	10.21	3813	41194	32026	78%	9.80	4204
95°F	37600	29328	78%	10.68	3520	39200	30576	78%	10.58	3705	40000	31200	78%	10.26	3900	42400	33072	78%	9.86	4300
100°F	37433	29289	78%	10.40	3598	39070	30570	78%	10.32	3787	39888	31210	78%	10.01	3987	42343	33131	78%	9.63	4395
105°F	36399	28573	79%	9.86	3690	38035	29857	79%	9.79	3884	38852	30499	78%	9.50	4089	41306	32425	79%	9.16	4508
110°F	36186	28495	79%	9.62	3763	37841	29798	79%	9.55	3961	38668	30449	79%	9.27	4170	41149	32403	79%	8.95	4597
115°F	33870	26757	79%	8.93	3791	35446	28002	79%	8.88	3991	36233	28624	79%	8.63	4201	38596	30491	79%	8.33	4631
120°F	31658	25085	79%	8.44	3751	33193	26302	79%	8.25	4023	33960	26910	79%	8.02	4235	36263	28735	79%	7.77	4669
122°F																				
125°F																				
129°F																				

MAX OUTPUT*

*Maximum Output values are not based on AHRI test conditions

- LEGEND: W - Watts
 DB - Dry Bulb
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 SC - Total Capacity
 SHR - Sensible Heat Ratio
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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	19898	7.76	2563	19301	7.24	2667	19002	6.98	2721	18299	6.59	2775	
-10°F	-11°F	20622	7.92	2604	20003	7.38	2710	19694	7.12	2764	19009	6.74	2820	
-5°F	-6°F	21928	8.39	2615	21270	7.81	2722	20941	7.54	2776	20254	7.15	2832	
0°F	-1°F	21991	8.24	2668	21331	7.68	2777	21001	7.41	2833	20345	7.04	2889	
5°F	3°F	23540	8.65	2723	22834	8.06	2834	22481	7.78	2891	21809	7.40	2948	
10°F	8°F	25429	9.15	2778	24666	8.53	2892	24285	8.23	2950	23601	7.84	3009	
15°F	13°F	26924	9.50	2835	26117	8.85	2951	25713	8.54	3010	25023	8.15	3070	
17°F	15°F	27064	9.42	2872	26252	8.78	2990	25846	8.48	3049	25183	8.10	3110	
20°F	17°F	27188	9.40	2893	26372	8.76	3011	25965	8.45	3071	25299	8.08	3133	
25°F	22°F	28800	9.76	2952	27936	9.09	3072	27504	8.78	3134	26825	8.39	3197	
30°F	27°F	29600	9.83	3012	28712	9.16	3135	28268	8.84	3198	27583	8.46	3262	
35°F	33°F	31642	10.37	3052	30693	9.66	3177	30218	9.33	3240	29499	8.93	3305	
40°F	36°F	33667	10.95	3074	32657	10.21	3199	32152	9.85	3263	31445	9.45	3328	
45°F	41°F	37334	11.90	3136	37401	11.46	3264	36823	11.06	3330	36040	10.61	3396	
47°F	43°F	37600	11.75	3200	36965	11.10	3331	36497	10.74	3398	36448	10.52	3466	
50°F	46°F	39254	12.08	3249	38530	11.39	3382	37728	10.94	3450	37476	10.65	3519	
55°F	50°F	39776	12.07	3296	39771	11.59	3431	39156	11.19	3500	38323	10.74	3570	
60°F	55°F	41407	11.77	3518	41316	11.69	3534	40658	11.28	3605	39757	10.81	3677	
65°F	60°F	42503	11.71	3630	42415	11.65	3640	41759	11.25	3713	40841	10.78	3787	
70°F	64°F	41517	11.80	3518	40271	10.74	3749	39649	10.37	3824	38768	9.94	3901	
75°F	69°F	40164	11.62	3456	38959	10.09	3862	38356	9.74	3939	37495	9.33	4018	
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

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