

COOLING PERFORMANCE

Outdoor Ambient Temperature (DB)		Return Air Temperature																			
		70°F (DB) / 59°F (WB)					75°F (DB) / 63°F (WB)					80°F (DB) / 67°F (WB)					90°F (DB) / 73°F (WB)				
		TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
MAX OUTPUT*	-20°F																				
	-15°F																				
	-10°F																				
	-5°F																				
	0°F	6695	4904	73%	9.74	687	7107	5206	73%	9.83	723	7313	5357	73%	9.61	761	7931	5809	73%	9.45	839
	5°F	6798	4997	74%	9.69	701	7210	5299	74%	9.77	738	7416	5451	74%	9.54	777	8034	5905	74%	9.38	857
	10°F	6953	5127	74%	9.72	715	7365	5431	74%	9.78	753	7571	5583	74%	9.55	793	8189	6039	74%	9.37	874
	15°F	7107	5259	74%	9.74	730	7519	5564	74%	9.79	768	7725	5717	74%	9.55	809	8343	6174	74%	9.36	891
	20°F	7210	5353	74%	9.69	744	7622	5659	74%	9.73	783	7828	5812	74%	9.50	824	8446	6271	74%	9.29	909
	25°F	7313	5448	75%	9.65	758	7725	5755	75%	9.68	798	7931	5909	75%	9.44	840	8549	6369	75%	9.23	926
	30°F	7571	5659	75%	9.80	772	7983	5967	75%	9.82	813	8189	6121	75%	9.57	856	8807	6583	75%	9.33	943
	35°F	7828	5871	75%	9.95	787	8240	6180	75%	9.95	828	8446	6335	75%	9.69	872	9064	6798	75%	9.43	961
	40°F	7983	6007	75%	9.97	801	8395	6317	75%	9.96	843	8601	6472	75%	9.69	887	9219	6937	75%	9.42	978
	45°F	8137	6143	76%	9.98	815	8549	6455	76%	9.97	858	8755	6610	76%	9.70	903	9373	7077	76%	9.41	996
	50°F	8395	6359	76%	10.12	829	8807	6671	76%	10.09	873	9013	6827	76%	9.81	919	9631	7295	76%	9.51	1013
	55°F	8652	6576	76%	10.26	843	9064	6889	76%	10.21	888	9270	7045	76%	9.92	935	9888	7515	76%	9.60	1030
	60°F	8910	6793	76%	10.39	858	9322	7108	76%	10.33	903	9528	7265	76%	10.03	950	10146	7736	76%	9.68	1048
	65°F	9167	7013	77%	10.51	872	9579	7328	77%	10.44	918	9785	7486	77%	10.13	966	10403	7958	77%	9.77	1065
	70°F	9579	7352	77%	10.81	886	9991	7668	77%	10.71	933	10197	7826	77%	10.39	982	10815	8301	77%	9.99	1082
	75°F	9991	7693	77%	11.10	900	10403	8010	77%	10.98	948	10609	8169	77%	10.64	998	11227	8645	77%	10.21	1100
	80°F	10146	7837	77%	11.09	914	10558	8156	77%	10.97	963	10764	8315	77%	10.62	1013	11382	8792	77%	10.19	1117
85°F	10300	7983	78%	11.09	929	10712	8302	78%	10.96	978	10918	8461	78%	10.61	1029	11536	8940	78%	10.17	1134	
90°F	9991	7768	78%	10.65	938	10403	8088	78%	10.53	988	10609	8249	78%	10.21	1040	11227	8729	78%	9.80	1146	
95°F	9682	7552	78%	10.22	948	10094	7873	78%	10.12	998	10300	8034	78%	9.81	1050	10918	8516	78%	9.43	1158	
100°F	9425	7375	78%	9.70	971	9837	7697	78%	9.62	1022	10043	7858	78%	9.33	1076	10661	8342	78%	8.98	1187	
105°F	9167	7196	79%	9.21	995	9579	7520	79%	9.15	1047	9785	7681	79%	8.88	1103	10403	8166	79%	8.56	1216	
110°F	9013	7097	79%	8.85	1019	9425	7422	79%	8.79	1072	9631	7584	79%	8.53	1129	10249	8071	79%	8.24	1244	
115°F	8858	6998	79%	8.50	1042	9270	7323	79%	8.45	1097	9476	7486	79%	8.20	1155	10094	7974	79%	7.93	1273	
118°F	8498	6734	79%	8.12	1046	8910	7061	79%	7.94	1122	9116	7224	79%	7.72	1181	9734	7714	79%	7.47	1302	
122°F																					
125°F																					
129°F																					

\*Maximum Output values are not based on AHRI test conditions

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

**EXTENDED RATINGS**

**TWH09AT19D6DI/TWH09AT19D6DO**

<b>HEATING PERFORMANCE</b>														
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)
<b>MAX OUTPUT*</b>	DB	WB												
	-22°F	-22.5°F												
	-20°F	-20.5°F												
	-15°F	-16°F	7619	2.15	1041	7375	2.04	1062	7356	1.99	1083	6831	1.81	1105
	-10°F	-11°F	8079	2.25	1052	7853	2.15	1073	7816	2.09	1094	7290	1.91	1116
	-5°F	-6°F	8538	2.36	1062	8331	2.25	1083	8276	2.19	1105	7750	2.02	1127
	0°F	-1°F	8933	2.42	1084	8741	2.32	1106	8670	2.25	1128	8144	2.08	1150
	5°F	3°F	9327	2.47	1106	9151	2.38	1128	9064	2.31	1151	8538	2.13	1174
	10°F	8°F	9852	2.56	1129	9697	2.47	1151	9589	2.39	1174	9064	2.22	1198
	15°F	13°F	10049	2.58	1140	10175	2.56	1163	10049	2.48	1186	9524	2.31	1210
	17°F	15°F	10246	2.61	1152	10653	2.66	1175	10509	2.57	1198	9983	2.39	1222
	20°F	17°F	10772	2.69	1175	10653	2.60	1199	10509	2.52	1223	9983	2.35	1247
	25°F	22°F	11166	2.73	1199	11063	2.65	1223	10903	2.56	1248	10377	2.39	1272
	30°F	27°F	11363	2.75	1211	11268	2.67	1236	11100	2.58	1260	10574	2.41	1285
	35°F	33°F	11560	2.77	1224	11473	2.69	1248	11297	2.60	1273	10772	2.43	1298
	40°F	36°F	12479	2.93	1249	12429	2.86	1273	12217	2.76	1299	11691	2.59	1325
	45°F	41°F	12873	2.96	1274	12839	2.90	1299	12611	2.79	1325	12085	2.62	1352
47°F	43°F	13136	2.96	1300	13112	2.90	1326	12873	2.79	1353	12348	2.62	1380	
50°F	46°F	13005	2.92	1307	12975	2.85	1333	12742	2.75	1359	12216	2.58	1386	
55°F	50°F	12873	2.87	1313	12839	2.81	1339	12611	2.71	1366	12085	2.54	1393	
60°F	55°F	12742	2.82	1326	12702	2.75	1353	12479	2.65	1380	11954	2.49	1407	
65°F	60°F	12479	2.87	1274	12429	2.80	1299	12217	2.70	1325	11691	2.53	1352	
70°F	64°F	12348	2.86	1268	12292	2.79	1293	12085	2.69	1319	11560	2.52	1345	
75°F	69°F	12217	2.84	1261	12156	2.77	1286	11954	2.67	1312	11428	2.50	1338	
80°F	74°F													
86°F	80°F													

\*Maximum Output values are not based on AHRI test conditions

**LEGEND: W - Watts**

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**TC - Total Capacity**

**SC - Total Capacity**

**SHR - Sensible Heat Ratio**

**COP - Coefficient of Performance**

