

COOLING PERFORMANCE

Outdoor Ambient Temperature (DB)	Return Air Temperature																			
	70°F (DB) / 59°F (WB)					75°F (DB) / 63°F (WB)					80°F (DB) / 67°F (WB)					90°F (DB) / 73°F (WB)				
	TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
-20°F																				
-15°F																				
-10°F																				
-5°F																				
0°F	16416	11901	73%	11.11	1478	17426	12634	73%	11.20	1556	17931	13000	73%	10.95	1638	19446	14099	73%	10.77	1806
5°F	16668	12085	73%	11.05	1509	17679	12817	73%	11.13	1588	18184	13183	73%	10.88	1672	19699	14282	73%	10.69	1843
10°F	17047	12359	73%	11.07	1539	18057	13092	73%	11.14	1620	18562	13458	73%	10.88	1706	20078	14556	73%	10.68	1880
15°F	17426	12634	73%	11.10	1570	18436	13366	73%	11.16	1652	18941	13732	73%	10.89	1739	20457	14831	73%	10.67	1918
20°F	17679	12817	73%	11.05	1600	18689	13549	73%	11.09	1685	19194	13916	73%	10.82	1773	20709	15014	73%	10.59	1955
25°F	17931	13000	73%	10.99	1631	18941	13732	73%	11.03	1717	19446	14099	73%	10.76	1807	20962	15197	73%	10.52	1992
30°F	18562	13458	73%	11.17	1662	19573	14190	73%	11.19	1749	20078	14556	73%	10.91	1841	21593	15655	73%	10.64	2030
35°F	19194	13916	73%	11.34	1692	20204	14648	73%	11.34	1781	20709	15014	73%	11.05	1875	22224	16113	73%	10.75	2067
40°F	19573	14190	73%	11.36	1723	20583	14923	73%	11.35	1813	21088	15289	73%	11.05	1909	22603	16387	73%	10.74	2105
45°F	19951	14465	73%	11.38	1753	20962	15197	73%	11.36	1846	21467	15563	73%	11.05	1943	22982	16662	73%	10.73	2142
50°F	20583	14923	73%	11.54	1784	21593	15655	73%	11.50	1878	22098	16021	73%	11.18	1977	23613	17120	73%	10.84	2179
55°F	21214	15380	73%	11.69	1814	22224	16113	73%	11.64	1910	22730	16479	73%	11.31	2011	24245	17577	73%	10.94	2217
60°F	21846	15838	73%	11.84	1845	22856	16570	73%	11.77	1942	23361	16937	73%	11.43	2044	24876	18035	73%	11.04	2254
65°F	22477	16296	73%	11.98	1876	23487	17028	73%	11.90	1974	23992	17394	73%	11.54	2078	25508	18493	73%	11.13	2291
70°F	23487	17028	73%	12.32	1906	24497	17761	73%	12.21	2007	25002	18127	73%	11.84	2112	26518	19225	73%	11.39	2329
75°F	24497	17761	73%	12.65	1937	25508	18493	73%	12.51	2039	26013	18859	73%	12.12	2146	27528	19958	73%	11.63	2366
80°F	24876	18035	73%	12.64	1967	25886	18768	73%	12.50	2071	26391	19134	73%	12.11	2180	27907	20232	73%	11.61	2403
85°F	25255	18310	73%	12.64	1998	26265	19042	73%	12.49	2103	26770	19408	73%	12.09	2214	28286	20507	73%	11.59	2441
90°F	24497	17761	73%	12.14	2018	25508	18493	73%	12.01	2125	26013	18859	73%	11.63	2236	27528	19958	73%	11.16	2466
95°F	23740	17211	73%	11.64	2039	24750	17944	73%	11.53	2146	25255	18310	73%	11.18	2259	26770	19408	73%	10.75	2491
100°F	23108	16754	73%	11.06	2090	24119	17486	73%	10.96	2200	24624	17852	73%	10.63	2315	26139	18951	73%	10.24	2553
105°F	22477	16296	73%	10.50	2141	23487	17028	73%	10.42	2253	23992	17394	73%	10.11	2372	25508	18493	73%	9.75	2615
110°F	22098	16021	73%	10.08	2192	23108	16754	73%	10.02	2307	23613	17120	73%	9.72	2428	25129	18218	73%	9.39	2677
115°F	21719	15746	73%	9.68	2243	22730	16479	73%	9.63	2361	23235	16845	73%	9.35	2485	24750	17944	73%	9.03	2740
118°F	20835	15106	73%	9.26	2251	21846	15838	73%	9.05	2414	22351	16204	73%	8.79	2541	23866	17303	73%	8.52	2802
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

EXTENDED RATINGS

TWH24AT19D6DI/TWH24AT19D6DO

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	14626	7.95	1841	14122	7.52	1878	13618	7.11	1915	13113	6.71	1954
	-10°F	-11°F	15509	8.34	1860	15005	7.91	1897	14500	7.49	1935	13996	7.09	1973
	-5°F	-6°F	16392	8.73	1878	15887	8.29	1916	15383	7.87	1954	14879	7.46	1993
	0°F	-1°F	17148	8.95	1917	16644	8.51	1955	16140	8.09	1994	15635	7.69	2034
	5°F	3°F	17905	9.15	1956	17400	8.72	1995	16896	8.30	2035	16392	7.90	2076
	10°F	8°F	18914	9.48	1996	18409	9.04	2036	17905	8.62	2076	17400	8.22	2118
	15°F	13°F	19292	9.57	2016	19292	9.38	2057	18787	8.96	2098	18283	8.55	2140
	17°F	15°F	19670	9.66	2037	20174	9.71	2077	19670	9.28	2119	19166	8.87	2161
	20°F	17°F	20679	9.95	2078	20174	9.52	2120	19670	9.10	2162	19166	8.69	2205
	25°F	22°F	21435	10.11	2121	20931	9.68	2163	20427	9.26	2206	19922	8.85	2250
	30°F	27°F	21814	10.18	2142	21309	9.75	2185	20805	9.33	2229	20300	8.93	2273
	35°F	33°F	22192	10.26	2164	21687	9.83	2207	21183	9.41	2251	20679	9.01	2296
	40°F	36°F	23957	10.85	2208	23453	10.41	2252	22948	9.99	2297	22444	9.58	2343
	45°F	41°F	24714	10.97	2253	24209	10.53	2298	23705	10.11	2344	23201	9.70	2391
47°F	43°F	25218	10.97	2299	24714	10.54	2345	24209	10.12	2392	23705	9.72	2440	
50°F	46°F	24966	10.81	2310	24461	10.38	2357	23957	9.97	2404	23453	9.57	2452	
55°F	50°F	24714	10.64	2322	24209	10.22	2368	23705	9.81	2416	23201	9.42	2464	
60°F	55°F	24461	10.43	2345	23957	10.02	2392	23453	9.61	2440	22948	9.22	2489	
65°F	60°F	23957	10.63	2253	23453	10.21	2298	22948	9.79	2344	22444	9.39	2391	
70°F	64°F	23705	10.58	2242	23201	10.15	2286	22696	9.73	2332	22192	9.33	2379	
75°F	69°F	23453	10.52	2230	22948	10.09	2275	22444	9.67	2320	21940	9.27	2367	
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

