

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	9770	6546	67%	8.41	1162	10072	6950	69%	8.49	1186	10331	7231	70%	8.54	1210	11054	7848	71%	8.70	1270
	5°F	10072	6849	68%	8.49	1186	10384	7269	70%	8.58	1210	10650	7562	71%	8.63	1235	11396	8205	72%	8.79	1296
	10°F	10384	7061	68%	8.58	1210	10705	7493	70%	8.67	1235	10979	7795	71%	8.72	1260	11748	8459	72%	8.88	1323
	15°F	10705	7279	68%	8.67	1235	11036	7725	70%	8.76	1260	11319	8037	71%	8.81	1285	12111	8720	72%	8.97	1350
	20°F	11036	7505	68%	8.76	1260	11377	7964	70%	8.85	1285	11669	8285	71%	8.90	1312	12486	8990	72%	9.07	1377
	25°F	11377	7850	69%	8.85	1285	11729	8328	71%	8.94	1312	12030	8662	72%	8.99	1338	12872	9397	73%	9.16	1405
	30°F	11729	8093	69%	8.94	1312	12092	8585	71%	9.03	1338	12402	8929	72%	9.08	1366	13270	9687	73%	9.25	1434
	35°F	12092	8343	69%	9.03	1338	12466	8851	71%	9.13	1366	12786	9206	72%	9.17	1394	13681	9987	73%	9.35	1463
	40°F	12466	8602	69%	9.13	1366	12852	9125	71%	9.22	1394	13181	9490	72%	9.27	1422	14104	10296	73%	9.45	1493
	45°F	12852	8996	70%	9.22	1394	13249	9539	72%	9.32	1422	13589	9920	73%	9.36	1451	14540	10760	74%	9.54	1524
	50°F	13249	9274	70%	9.32	1422	13659	9834	72%	9.41	1451	14009	10227	73%	9.46	1481	14990	11092	74%	9.64	1555
	55°F	13659	9561	70%	9.41	1451	14081	10138	72%	9.51	1481	14442	10543	73%	9.56	1511	15453	11435	74%	9.74	1587
	60°F	14081	9857	70%	9.51	1481	14517	10452	72%	9.61	1511	14889	10869	73%	9.66	1542	15931	11789	74%	9.84	1619
	65°F	15646	11109	71%	9.62	1627	16130	11775	73%	9.71	1660	16543	12242	74%	9.76	1694	17701	13276	75%	9.95	1779
	70°F	15965	11335	71%	9.71	1644	16459	12015	73%	9.81	1677	16881	12492	74%	9.86	1711	18063	13547	75%	10.05	1797
	75°F	16459	11686	71%	9.81	1677	16968	12387	73%	9.91	1711	17403	12878	74%	9.97	1746	18621	13966	75%	10.16	1834
	80°F	19363	13942	72%	9.93	1950	19962	14772	74%	10.03	1990	20474	15356	75%	10.08	2031	21907	16650	76%	10.27	2132
85°F	18799	13536	72%	9.45	1990	19381	14342	74%	9.54	2031	19878	14908	75%	9.59	2072	21269	16165	76%	9.78	2176	
90°F	19583	14100	72%	8.95	2187	20188	14939	74%	9.05	2231	20706	15530	75%	9.09	2277	22155	16838	76%	9.27	2391	
95°F	19199	14332	75%	8.69	2209	19793	15171	77%	8.78	2254	20300	15763	78%	8.83	2300	21721	17084	79%	8.99	2415	
100°F	17279	12441	72%	8.60	2010	17813	13182	74%	8.68	2051	18270	13703	75%	8.73	2093	19549	14857	76%	8.90	2198	
105°F	15947	11641	73%	8.93	1785	16440	12330	75%	9.02	1822	16861	12815	76%	9.07	1859	18042	13892	77%	9.24	1952	
110°F	15558	11357	73%	8.54	1822	16039	12029	75%	8.63	1859	16450	12502	76%	8.67	1897	17602	13553	77%	8.84	1992	
115°F	14624	10676	73%	7.87	1858	15076	11307	75%	7.95	1896	15463	11752	76%	7.99	1935	16545	12740	77%	8.14	2032	
118°F	10968	8007	73%	7.38	1487	11307	8480	75%	7.45	1517	11597	8814	76%	7.49	1548	12409	9555	77%	7.63	1625	
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

TWH18AT19D6DI/TWH18AT19D6DO

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	10002	1.88	1557	9752	1.80	1588	9459	1.71	1620	9081	1.61	1652
	-10°F	-11°F	10640	1.94	1605	10374	1.86	1637	10063	1.77	1670	9660	1.66	1704
	-5°F	-6°F	11319	2.00	1655	11036	1.92	1688	10705	1.82	1722	10277	1.72	1756
	0°F	-1°F	11915	2.05	1706	11617	1.96	1740	11268	1.86	1775	10818	1.75	1811
	5°F	3°F	12411	2.07	1759	12101	1.98	1794	11738	1.88	1830	11268	1.77	1867
	10°F	8°F	13533	2.30	1728	13194	2.19	1763	12798	2.09	1798	12286	1.96	1834
	15°F	13°F	14141	2.36	1754	13787	2.26	1790	13374	2.15	1825	12839	2.02	1862
	17°F	15°F	14749	2.41	1790	14380	2.31	1826	13949	2.19	1863	13391	2.07	1900
	20°F	17°F	15205	2.44	1827	14825	2.33	1863	14380	2.22	1901	13805	2.09	1939
	25°F	22°F	16155	2.30	2057	15751	2.20	2098	15278	2.09	2140	14667	1.97	2183
	30°F	27°F	16740	2.39	2055	16322	2.28	2096	15832	2.17	2138	15199	2.04	2181
	35°F	33°F	17438	2.67	1911	17002	2.56	1949	16492	2.43	1988	15832	2.29	2028
	40°F	36°F	21825	2.81	2277	21279	2.69	2323	20641	2.55	2369	19815	2.40	2416
	45°F	41°F	22500	2.87	2300	21938	2.74	2346	21279	2.61	2393	20428	2.45	2441
47°F	43°F	22838	2.88	2323	22267	2.75	2369	21599	2.62	2417	20735	2.47	2465	
50°F	46°F	19184	2.95	1905	18704	2.82	1943	18143	2.68	1982	17417	2.53	2021	
55°F	50°F	18800	2.92	1886	18330	2.79	1924	17780	2.66	1962	17069	2.50	2001	
60°F	55°F	16920	2.89	1716	16497	2.76	1750	16002	2.63	1785	15362	2.47	1821	
65°F	60°F	16412	2.86	1682	16002	2.73	1715	15522	2.60	1750	14901	2.45	1785	
70°F	64°F	13130	2.82	1362	12802	2.70	1389	12418	2.57	1417	11921	2.42	1446	
75°F	69°F	11160	2.76	1185	10881	2.64	1209	10555	2.51	1233	10133	2.36	1258	
80°F	74°F													
86°F	80°F													

*Maximum Output values are not based on AHRI test conditions

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