TOSOT

Pular
EXTENDED RATINGS



Cooling Performance
Heating Performance

- ❑ TWH09PD32AI / TWH09PD32AO
- ❑ TWH12PD32AI / TWH12PD32AO
- ❑ TWH18PD32AI / TWH18PD32AO
- ❑ TWH24PD32AI / TWH24PD32AO

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EXTENDED RATINGS	TWH09PD32AI / TWH09PD32AO

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(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)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
MAX OUTPUT*	-20°F	7,261	5,264	73%	11.10	654	7,780	5,640	73%	11.51	676	8,039	5,828	73%	11.35	709	8,817	6,392	73%	11.56	763
	-15°F	7,650	5,546	73%	11.44	669	8,169	5,922	72%	11.60	704	8,428	6,110	73%	11.37	741	9,206	6,674	73%	11.27	817
	-10°F	7,974	5,801	73%	11.66	684	8,493	6,178	73%	11.80	720	8,752	6,367	73%	11.55	758	9,530	6,933	73%	11.41	835
	-5°F	8,298	6,058	73%	11.88	698	8,817	6,436	73%	11.99	735	9,076	6,626	73%	11.73	774	9,854	7,194	73%	11.55	853
	0°F	8,428	6,173	73%	11.82	713	8,947	6,553	73%	11.92	751	9,206	6,743	73%	11.65	790	9,984	7,313	73%	11.46	871
	5°F	8,558	6,290	74%	11.76	728	9,076	6,671	74%	11.84	766	9,336	6,862	74%	11.57	807	10,113	7,433	74%	11.37	889
	10°F	8,752	6,455	74%	11.78	743	9,271	6,837	74%	11.86	782	9,530	7,028	74%	11.58	823	10,308	7,602	74%	11.36	907
	15°F	8,947	6,620	74%	11.81	757	9,465	7,004	74%	11.87	797	9,725	7,196	74%	11.59	839	10,502	7,772	74%	11.35	925
	20°F	9,076	6,739	74%	11.75	772	9,595	7,124	74%	11.80	813	9,854	7,317	74%	11.52	856	10,632	7,894	74%	11.27	943
	25°F	9,206	6,858	75%	11.70	787	9,725	7,245	74%	11.74	828	9,984	7,438	75%	11.45	872	10,762	8,018	75%	11.19	961
	30°F	9,530	7,124	75%	11.89	802	10,049	7,511	75%	11.91	844	10,308	7,705	75%	11.60	888	11,086	8,287	75%	11.32	979
	35°F	9,854	7,391	75%	12.07	816	10,373	7,780	75%	12.07	859	10,632	7,974	75%	11.75	905	11,410	8,558	75%	11.44	997
	40°F	10,049	7,562	75%	12.09	831	10,567	7,952	75%	12.08	875	10,827	8,147	75%	11.75	921	11,605	8,732	75%	11.43	1,015
	45°F	10,243	7,734	75%	12.11	846	10,762	8,125	75%	12.08	891	11,021	8,321	75%	11.76	937	11,799	8,908	76%	11.42	1,033
	50°F	10,567	8,005	76%	12.28	861	11,086	8,398	76%	12.24	906	11,345	8,594	76%	11.90	954	12,123	9,183	76%	11.53	1,052
	55°F	10,891	8,277	76%	12.44	876	11,410	8,672	76%	12.38	922	11,669	8,869	76%	12.03	970	12,447	9,460	76%	11.64	1,070
	60°F	11,216	8,552	76%	12.60	890	11,734	8,947	76%	12.52	937	11,994	9,145	76%	12.16	986	12,772	9,738	76%	11.74	1,088
	65°F	11,540	8,828	76%	12.75	905	12,058	9,225	76%	12.66	953	12,318	9,423	76%	12.28	1,003	13,096	10,018	77%	11.84	1,106
	70°F	12,058	9,255	77%	13.11	920	12,577	9,653	77%	12.99	968	12,836	9,852	77%	12.60	1,019	13,614	10,449	77%	12.12	1,124
	75°F	12,577	9,684	77%	13.46	935	13,096	10,084	77%	13.31	984	13,355	10,283	77%	12.90	1,036	14,133	10,882	77%	12.38	1,142
	80°F	12,772	9,866	77%	13.45	949	13,290	10,267	77%	13.30	999	13,549	10,467	77%	12.88	1,052	14,327	11,068	77%	12.35	1,160
	85°F	12,966	10,049	78%	13.45	964	13,485	10,451	78%	13.29	1,015	13,744	10,652	78%	12.87	1,068	14,522	11,254	78%	12.33	1,178
	90°F	12,577	9,779	78%	12.91	974	13,096	10,182	78%	12.77	1,025	13,355	10,384	78%	12.38	1,079	14,133	10,988	78%	11.88	1,190
	95°F	12,188	9,507	78%	12.39	984	12,707	9,911	78%	12.27	1,036	12,966	10,113	78%	11.90	1,090	13,744	10,720	78%	11.44	1,202
	100°F	11,864	9,283	78%	11.77	1,008	12,383	9,689	78%	11.67	1,061	12,642	9,892	78%	11.32	1,117	13,420	10,501	78%	10.89	1,232
	105°F	11,540	9,059	79%	11.17	1,033	12,058	9,466	79%	11.09	1,087	12,318	9,669	78%	10.76	1,145	13,096	10,280	79%	10.38	1,262
	110°F	11,345	8,934	79%	10.73	1,058	11,864	9,343	79%	10.66	1,113	12,123	9,547	79%	10.35	1,172	12,901	10,160	79%	9.99	1,292
	115°F	11,151	8,809	79%	10.30	1,082	11,669	9,219	79%	10.24	1,139	11,929	9,424	79%	9.95	1,199	12,707	10,038	79%	9.61	1,322
	120°F	10,697	8,477	79%	9.85	1,086	11,216	8,888	79%	9.63	1,165	11,475	9,094	79%	9.36	1,226	12,253	9,710	79%	9.06	1,352
	122°F	10,243	8,143	80%	9.40	1,090	10,762	8,556	80%	9.04	1,191	11,021	8,762	79%	8.79	1,254	11,799	9,380	80%	8.54	1,382

*Maximum Output values are not based on AHRI test conditions

LEG **W - Watts** **DB - Dry Bulb** **SHR - Sensible Heat Ratio**
TC - Total Capacity **SC - Sensible Capacity** **COP - Coeffecient of Performance**

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EXTENDED RATINGS			TWH09PD32AI / TWH09PD32AO										
HEATING PERFORMANCE													
Outdoor Ambient Temperature			Return Air Temperature										
			70°F (DB)			75°F (DB)			80°F (DB)			90°F (DB)		
	DB	WB	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*	-22°F	-22.5°F	7,257	1.78	1,193	6,957	1.68	1,217	6,657	1.57	1,241	6,356	1.47	1,266
	-20°F	-20.5°F	7,482	1.82	1,205	7,182	1.71	1,229	6,882	1.61	1,254	6,582	1.51	1,279
	-15°F	-16°F	7,708	1.86	1,217	7,407	1.75	1,241	7,107	1.64	1,266	6,807	1.54	1,292
	-10°F	-11°F	8,233	1.96	1,230	7,933	1.85	1,254	7,632	1.75	1,279	7,332	1.65	1,305
	-5°F	-6°F	8,759	2.07	1,242	8,458	1.96	1,267	8,158	1.85	1,292	8,858	1.97	1,318
	0°F	-1°F	9,209	2.13	1,267	8,909	2.02	1,293	8,608	1.91	1,318	9,308	2.03	1,345
	5°F	3°F	9,659	2.19	1,293	9,359	2.08	1,319	9,059	1.97	1,345	9,759	2.08	1,372
	10°F	8°F	11,260	2.50	1,320	10,960	2.39	1,346	10,659	2.28	1,373	10,359	2.17	1,400
	15°F	13°F	11,485	2.53	1,333	11,485	2.48	1,360	11,185	2.36	1,387	10,884	2.26	1,415
	17°F	15°F	11,710	2.55	1,346	12,010	2.56	1,373	11,710	2.45	1,401	11,410	2.34	1,429
	20°F	17°F	12,311	2.63	1,374	12,010	2.51	1,401	11,710	2.40	1,429	11,410	2.29	1,458
	25°F	22°F	12,761	2.67	1,402	12,461	2.55	1,430	12,161	2.44	1,459	11,860	2.34	1,488
	30°F	27°F	12,986	2.69	1,416	12,686	2.57	1,445	12,386	2.46	1,474	12,086	2.36	1,503
	35°F	33°F	13,211	2.71	1,431	12,911	2.59	1,459	12,611	2.48	1,488	12,311	2.38	1,518
	40°F	36°F	14,262	2.86	1,460	13,962	2.75	1,489	13,662	2.64	1,519	13,362	2.53	1,549
	45°F	41°F	14,713	2.89	1,490	14,413	2.78	1,519	14,112	2.67	1,550	13,812	2.56	1,581
	47°F	43°F	15,013	2.89	1,520	14,713	2.78	1,550	14,413	2.67	1,581	14,112	2.56	1,613
	50°F	46°F	14,863	2.85	1,528	14,563	2.74	1,558	14,262	2.63	1,589	13,962	2.52	1,621
	55°F	50°F	14,713	2.81	1,535	14,413	2.70	1,566	14,112	2.59	1,597	13,812	2.48	1,629
	60°F	55°F	14,563	2.75	1,550	14,262	2.64	1,581	13,962	2.54	1,613	13,662	2.43	1,645
	65°F	60°F	14,262	2.81	1,490	13,962	2.69	1,519	13,662	2.58	1,550	13,362	2.48	1,581
	70°F	64°F	14,112	2.79	1,482	13,812	2.68	1,512	13,512	2.57	1,542	13,211	2.46	1,573
	75°F	69°F	13,962	2.78	1,474	13,662	2.66	1,504	13,362	2.55	1,534	13,061	2.45	1,565
	80°F	74°F	12,761	2.62	1,429	12,461	2.51	1,457	12,161	2.40	1,487	11,860	2.29	1,516
	86°F	80°F	11,260	2.36	1,398	10,960	2.25	1,426	10,659	2.15	1,455	10,359	2.05	1,484

*Maximum Output values are not based on AHRI test conditions

LEGEND: **W - Watts** **DB - Dry Bulb** **SHR - Sensible Heat Ratio**

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EXTENDED RATINGS	TWH12PD32AI / TWH12PD32AO

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(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)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
MAX OUTPUT*	-20°F	8,528	6,183	72%	10.15	840	9,137	6,625	73%	10.53	868	9,442	6,845	73%	10.38	910	10,356	7,508	73%	10.57	980
	-15°F	8,985	6,514	72%	10.46	859	9,594	6,956	73%	10.61	904	9,899	7,177	73%	10.40	952	10,813	7,839	73%	10.30	1,050
	-10°F	9,366	6,814	73%	10.67	878	9,975	7,257	73%	10.79	924	10,280	7,478	73%	10.56	973	11,193	8,143	73%	10.43	1,073
	-5°F	9,747	7,115	73%	10.86	897	10,356	7,560	73%	10.97	944	10,660	7,782	73%	10.72	994	11,574	8,449	73%	10.56	1,096
	0°F	9,899	7,251	73%	10.81	916	10,508	7,697	73%	10.90	964	10,813	7,920	73%	10.65	1,015	11,726	8,590	73%	10.48	1,119
	5°F	10,051	7,388	74%	10.75	935	10,660	7,835	73%	10.83	984	10,965	8,059	74%	10.58	1,036	11,879	8,731	74%	10.40	1,142
	10°F	10,280	7,581	74%	10.78	954	10,889	8,030	74%	10.84	1,004	11,193	8,255	74%	10.59	1,057	12,107	8,929	74%	10.39	1,165
	15°F	10,508	7,776	74%	10.80	973	11,117	8,227	74%	10.86	1,024	11,422	8,452	74%	10.60	1,078	12,335	9,128	74%	10.38	1,189
	20°F	10,660	7,915	74%	10.75	992	11,269	8,368	74%	10.79	1,044	11,574	8,594	74%	10.53	1,099	12,488	9,272	74%	10.31	1,212
	25°F	10,813	8,055	75%	10.70	1,011	11,422	8,509	74%	10.73	1,064	11,726	8,736	75%	10.47	1,120	12,640	9,417	74%	10.24	1,235
	30°F	11,193	8,367	75%	10.87	1,030	11,802	8,822	75%	10.89	1,084	12,107	9,050	75%	10.61	1,141	13,021	9,733	75%	10.35	1,258
	35°F	11,574	8,681	75%	11.04	1,049	12,183	9,137	75%	11.04	1,104	12,488	9,366	75%	10.75	1,162	13,402	10,051	75%	10.46	1,281
	40°F	11,802	8,881	75%	11.05	1,068	12,412	9,340	75%	11.04	1,124	12,716	9,569	75%	10.75	1,183	13,630	10,257	75%	10.45	1,304
	45°F	12,031	9,083	76%	11.07	1,087	12,640	9,543	75%	11.05	1,144	12,945	9,773	75%	10.75	1,204	13,858	10,463	75%	10.44	1,327
	50°F	12,412	9,402	76%	11.23	1,106	13,021	9,863	76%	11.19	1,164	13,325	10,094	76%	10.88	1,225	14,239	10,786	76%	10.54	1,351
	55°F	12,792	9,722	76%	11.38	1,125	13,402	10,185	76%	11.32	1,184	13,706	10,417	76%	11.00	1,246	14,620	11,111	76%	10.64	1,374
	60°F	13,173	10,044	76%	11.52	1,143	13,782	10,509	76%	11.45	1,204	14,087	10,741	76%	11.12	1,267	15,001	11,438	76%	10.74	1,397
	65°F	13,554	10,369	76%	11.66	1,162	14,163	10,835	76%	11.57	1,224	14,468	11,068	77%	11.23	1,288	15,381	11,767	77%	10.83	1,420
	70°F	14,163	10,870	77%	11.99	1,181	14,772	11,338	77%	11.88	1,244	15,077	11,571	77%	11.52	1,309	15,990	12,273	77%	11.08	1,443
	75°F	14,772	11,375	77%	12.31	1,200	15,381	11,844	77%	12.17	1,264	15,686	12,078	77%	11.79	1,330	16,600	12,782	77%	11.32	1,466
	80°F	15,001	11,588	77%	12.30	1,219	15,610	12,059	77%	12.16	1,283	15,914	12,294	77%	11.78	1,351	16,828	13,000	77%	11.30	1,489
	85°F	15,229	11,802	78%	12.30	1,238	15,838	12,275	77%	12.15	1,303	16,143	12,511	77%	11.77	1,372	17,056	13,219	77%	11.28	1,513
	90°F	14,772	11,485	78%	11.81	1,251	15,381	11,959	78%	11.68	1,317	15,686	12,196	78%	11.32	1,386	16,600	12,906	78%	10.86	1,528
	95°F	14,315	11,166	78%	11.33	1,264	14,924	11,641	78%	11.22	1,330	15,229	11,879	78%	10.88	1,400	16,143	12,591	78%	10.46	1,544
	100°F	13,554	10,606	78%	10.67	1,270	14,163	11,083	78%	10.60	1,337	14,315	11,202	78%	10.17	1,407	15,381	12,036	78%	9.92	1,551
	105°F	12,792	10,042	78%	10.02	1,276	13,402	10,520	78%	9.98	1,343	13,706	10,759	79%	9.69	1,414	14,620	11,477	78%	9.38	1,559
	110°F	11,650	9,175	79%	9.51	1,226	12,259	9,654	79%	9.50	1,290	12,564	9,894	79%	9.25	1,358	13,478	10,614	79%	9.00	1,497
	115°F	10,508	8,301	79%	8.94	1,175	11,117	8,783	79%	8.99	1,237	11,422	9,023	79%	8.77	1,302	12,335	9,745	79%	8.59	1,435
	120°F	10,280	8,147	79%	8.66	1,188	10,889	8,629	79%	8.71	1,250	11,193	8,871	79%	8.51	1,316	12,107	9,595	79%	8.34	1,451
	122°F	10,051	7,991	80%	8.37	1,200	10,660	8,475	80%	8.44	1,264	10,965	8,717	80%	8.24	1,330	11,879	9,444	79%	8.10	1,466

*Maximum Output values are not based on AHRI test conditions

LEG **W - Watts** **DB - Dry Bulb** **SHR - Sensible Heat Ratio**
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EXTENDED RATINGS			TWH12PD32AI / TWH12PD32AO										
HEATING PERFORMANCE													
Outdoor Ambient Temperature			Return Air Temperature										
			70°F (DB)			75°F (DB)			80°F (DB)			90°F (DB)		
	DB	WB	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*	-22°F	-22.5°F	8,632	1.69	1,495	8,318	1.60	1,525	8,005	1.51	1,556	7,691	1.42	1,587
	-20°F	-20.5°F	8,868	1.72	1,510	8,554	1.63	1,541	8,240	1.54	1,572	7,926	1.45	1,603
	-15°F	-16°F	9,103	1.75	1,526	8,789	1.66	1,556	8,475	1.57	1,587	8,161	1.48	1,619
	-10°F	-11°F	9,652	1.84	1,541	9,339	1.74	1,572	9,025	1.65	1,604	8,711	1.56	1,636
	-5°F	-6°F	10,202	1.92	1,557	9,888	1.82	1,588	9,574	1.73	1,620	9,260	1.64	1,652
	0°F	-1°F	10,673	1.97	1,589	10,359	1.87	1,620	10,045	1.78	1,653	9,731	1.69	1,686
	5°F	3°F	11,144	2.01	1,621	10,830	1.92	1,653	10,516	1.83	1,687	10,202	1.74	1,720
	10°F	8°F	11,771	2.09	1,654	11,457	1.99	1,687	11,144	1.90	1,721	10,830	1.81	1,755
	15°F	13°F	12,164	2.13	1,671	12,164	2.09	1,704	11,850	2.00	1,739	11,536	1.91	1,773
	17°F	15°F	12,556	2.18	1,688	12,870	2.19	1,722	12,556	2.10	1,756	12,242	2.00	1,791
	20°F	17°F	12,870	2.19	1,722	12,556	2.09	1,757	12,242	2.00	1,792	11,928	1.91	1,828
	25°F	22°F	13,341	2.22	1,758	13,027	2.13	1,793	12,713	2.04	1,829	12,399	1.95	1,865
	30°F	27°F	13,341	2.38	1,643	13,027	2.28	1,676	12,713	2.18	1,709	12,399	2.08	1,743
	35°F	33°F	13,341	2.56	1,528	13,027	2.45	1,559	12,713	2.34	1,590	12,399	2.24	1,622
	40°F	36°F	14,910	3.50	1,248	14,596	3.36	1,273	14,283	3.23	1,298	13,969	3.09	1,324
	45°F	41°F	15,381	3.54	1,273	15,067	3.40	1,298	14,753	3.27	1,324	14,439	3.13	1,351
	47°F	43°F	15,695	3.54	1,299	15,381	3.40	1,325	15,067	3.27	1,351	14,753	3.14	1,379
	50°F	46°F	15,538	3.49	1,306	15,224	3.35	1,332	14,910	3.22	1,358	14,596	3.09	1,385
	55°F	50°F	15,381	3.44	1,312	15,067	3.30	1,338	14,753	3.17	1,365	14,439	3.04	1,392
	60°F	55°F	15,224	3.37	1,325	14,910	3.23	1,351	14,596	3.10	1,379	14,283	2.98	1,406
	65°F	60°F	14,910	3.43	1,273	14,596	3.30	1,298	14,283	3.16	1,324	13,969	3.03	1,351
	70°F	64°F	14,753	3.41	1,267	14,439	3.28	1,292	14,126	3.14	1,318	13,812	3.01	1,344
	75°F	69°F	14,596	3.40	1,260	14,283	3.26	1,285	13,969	3.12	1,311	13,655	2.99	1,337
	80°F	74°F	13,341	3.20	1,221	13,027	3.07	1,245	12,713	2.93	1,270	12,399	2.80	1,296
	86°F	80°F	11,771	2.89	1,195	11,457	2.75	1,219	11,144	2.63	1,243	10,830	2.50	1,268

*Maximum Output values are not based on AHRI test conditions

LEGEND: **W - Watts** **DB - Dry Bulb** **SHR - Sensible Heat Ratio**

TC - Total Capacity **SC - Sensible Capacity** **COP - Coeffecient of Performance**

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EXTENDED RATINGS	TWH18PD32AI / TWH18PD32AO

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(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)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
MAX OUTPUT*	**-20°F**	15,073	10,928	73%	10.81	1,394	16,150	11,708	73%	11.21	1,440	16,688	12,099	73%	11.05	1,510	18,303	13,270	73%	11.26	1,626
	-15°F	15,880	11,513	73%	11.14	1,426	16,957	12,294	73%	11.30	1,501	17,495	12,684	73%	11.08	1,580	19,110	13,855	73%	10.97	1,742
	-10°F	16,553	12,001	73%	11.36	1,457	17,630	12,782	73%	11.49	1,534	18,168	13,172	73%	11.25	1,614	19,783	14,343	73%	11.11	1,780
	-5°F	17,226	12,489	73%	11.57	1,489	18,303	13,270	73%	11.68	1,567	18,841	13,660	73%	11.42	1,649	20,456	14,831	73%	11.25	1,818
	0°F	17,495	12,684	73%	11.51	1,520	18,572	13,465	73%	11.61	1,600	19,110	13,855	73%	11.35	1,684	20,725	15,026	73%	11.16	1,857
	5°F	17,765	12,879	73%	11.45	1,551	18,841	13,660	73%	11.54	1,633	19,380	14,050	73%	11.27	1,719	20,994	15,221	73%	11.08	1,895
	10°F	18,168	13,172	73%	11.48	1,583	19,245	13,953	73%	11.55	1,666	19,783	14,343	73%	11.28	1,754	21,398	15,514	73%	11.07	1,934
	15°F	18,572	13,465	73%	11.50	1,614	19,649	14,245	73%	11.56	1,699	20,187	14,636	73%	11.29	1,789	21,802	15,806	73%	11.06	1,972
	20°F	18,841	13,660	73%	11.45	1,646	19,918	14,440	73%	11.50	1,732	20,456	14,831	73%	11.22	1,824	22,071	16,002	73%	10.98	2,010
	25°F	19,110	13,855	73%	11.39	1,677	20,187	14,636	73%	11.43	1,765	20,725	15,026	73%	11.15	1,858	22,340	16,197	73%	10.90	2,049
	30°F	19,783	14,343	73%	11.58	1,709	20,860	15,123	73%	11.60	1,799	21,398	15,514	73%	11.30	1,893	23,013	16,685	73%	11.03	2,087
	35°F	20,456	14,831	73%	11.76	1,740	21,533	15,611	73%	11.76	1,832	22,071	16,002	73%	11.45	1,928	23,686	17,172	73%	11.14	2,126
	40°F	20,860	15,123	73%	11.77	1,772	21,937	15,904	73%	11.76	1,865	22,475	16,294	73%	11.45	1,963	24,090	17,465	73%	11.13	2,164
	45°F	21,264	15,416	73%	11.79	1,803	22,340	16,197	73%	11.77	1,898	22,879	16,587	73%	11.45	1,998	24,494	17,758	73%	11.12	2,203
	50°F	21,937	15,904	73%	11.96	1,834	23,013	16,685	73%	11.92	1,931	23,552	17,075	73%	11.59	2,033	25,166	18,246	73%	11.23	2,241
	55°F	22,609	16,392	73%	12.12	1,866	23,686	17,172	73%	12.06	1,964	24,224	17,563	73%	11.72	2,067	25,839	18,734	73%	11.34	2,279
	60°F	23,282	16,880	73%	12.27	1,897	24,359	17,660	73%	12.20	1,997	24,897	18,051	73%	11.84	2,102	26,512	19,221	73%	11.44	2,318
	65°F	23,955	17,368	73%	12.42	1,929	25,032	18,148	73%	12.33	2,030	25,570	18,538	73%	11.96	2,137	27,185	19,709	73%	11.54	2,356
	70°F	25,032	18,148	73%	12.77	1,960	26,109	18,929	73%	12.65	2,063	26,647	19,319	73%	12.27	2,172	28,262	20,490	73%	11.80	2,395
	75°F	26,109	18,929	73%	13.11	1,992	27,185	19,709	73%	12.97	2,097	27,723	20,100	73%	12.56	2,207	29,338	21,270	73%	12.06	2,433
	80°F	26,512	19,221	73%	13.10	2,023	27,589	20,002	73%	12.95	2,130	28,127	20,392	73%	12.55	2,242	29,742	21,563	73%	12.03	2,471
	85°F	26,916	19,514	73%	13.10	2,055	27,993	20,295	73%	12.94	2,163	28,531	20,685	73%	12.53	2,277	30,146	21,856	73%	12.01	2,510
	90°F	26,109	18,929	73%	12.58	2,076	27,185	19,709	73%	12.44	2,185	27,723	20,100	73%	12.05	2,300	29,338	21,270	73%	11.57	2,535
	95°F	25,301	18,343	73%	12.07	2,097	26,378	19,124	73%	11.95	2,207	26,916	19,514	73%	11.59	2,323	28,531	20,685	73%	11.14	2,561
	100°F	24,628	17,855	73%	11.46	2,149	25,705	18,636	73%	11.36	2,262	26,243	19,026	73%	11.02	2,381	27,858	20,197	73%	10.61	2,625
	105°F	23,955	17,368	73%	10.88	2,201	25,032	18,148	73%	10.80	2,317	25,570	18,538	73%	10.48	2,439	27,185	19,709	73%	10.11	2,689
	110°F	23,552	17,075	73%	10.45	2,254	24,628	17,855	73%	10.38	2,372	25,166	18,246	73%	10.08	2,497	26,781	19,417	73%	9.73	2,753
	115°F	23,148	16,782	73%	10.04	2,306	24,224	17,563	73%	9.98	2,428	24,763	17,953	73%	9.69	2,555	26,378	19,124	73%	9.36	2,817
	120°F	22,206	16,099	73%	9.59	2,315	23,282	16,880	73%	9.38	2,483	23,821	17,270	73%	9.11	2,613	25,436	18,441	73%	8.83	2,881
	122°F	21,264	15,416	73%	9.15	2,323	22,340	16,197	73%	8.80	2,538	22,879	16,587	73%	8.56	2,671	24,494	17,758	73%	8.32	2,945

*Maximum Output values are not based on AHRI test conditions

LEG **W - Watts** **DB - Dry Bulb** **SHR - Sensible Heat Ratio**

TC - Total Capacity **SC - Sensible Capacity** **COP - Coeffecient of Performance**

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EXTENDED RATINGS			TWH18PD32AI / TWH18PD32AO										
HEATING PERFORMANCE													
Outdoor Ambient Temperature			Return Air Temperature										
			70°F (DB)			75°F (DB)			80°F (DB)			90°F (DB)		
	DB	WB	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*	-22°F	-22.5°F	14,559	7.38	1,974	14,029	6.97	2,013	13,500	6.57	2,053	12,970	6.19	2,094
	-20°F	-20.5°F	14,956	7.50	1,994	14,426	7.09	2,034	13,897	6.70	2,074	13,367	6.32	2,116
	-15°F	-16°F	15,353	7.62	2,014	14,823	7.22	2,054	14,294	6.82	2,095	13,764	6.44	2,137
	-10°F	-11°F	16,279	8.00	2,034	15,750	7.59	2,075	15,220	7.19	2,117	14,691	6.80	2,159
	-5°F	-6°F	17,206	8.37	2,055	16,676	7.96	2,096	16,147	7.55	2,138	15,617	7.16	2,181
	0°F	-1°F	18,000	8.58	2,097	17,470	8.17	2,139	16,941	7.77	2,182	16,411	7.38	2,225
	5°F	3°F	18,794	8.78	2,140	18,264	8.37	2,182	17,735	7.97	2,226	17,206	7.58	2,271
	10°F	8°F	19,853	9.09	2,183	19,323	8.68	2,227	18,794	8.27	2,272	18,264	7.88	2,317
	15°F	13°F	20,250	9.18	2,206	20,250	9.00	2,250	19,720	8.59	2,295	19,191	8.20	2,341
	17°F	15°F	20,647	9.27	2,228	21,176	9.32	2,272	20,647	8.91	2,318	20,117	8.51	2,364
	20°F	17°F	21,705	9.55	2,273	21,176	9.13	2,319	20,647	8.73	2,365	20,117	8.34	2,413
	25°F	22°F	22,500	9.70	2,320	21,970	9.29	2,366	21,441	8.88	2,413	20,911	8.49	2,462
	30°F	27°F	22,897	9.77	2,343	22,367	9.36	2,390	21,838	8.96	2,438	21,308	8.57	2,487
	35°F	33°F	23,294	9.84	2,367	22,764	9.43	2,414	22,235	9.03	2,463	21,705	8.64	2,512
	40°F	36°F	25,147	10.41	2,415	24,617	9.99	2,464	24,088	9.59	2,513	23,558	9.19	2,563
	45°F	41°F	25,941	10.52	2,465	25,411	10.11	2,514	24,882	9.70	2,564	24,352	9.31	2,616
	47°F	43°F	26,470	10.52	2,515	25,941	10.11	2,565	25,411	9.71	2,617	24,882	9.32	2,669
	50°F	46°F	26,205	10.37	2,528	25,676	9.96	2,578	25,147	9.56	2,630	24,617	9.18	2,682
	55°F	50°F	25,941	10.21	2,540	25,411	9.81	2,591	24,882	9.42	2,643	24,352	9.03	2,696
	60°F	55°F	25,676	10.01	2,565	25,147	9.61	2,617	24,617	9.22	2,669	24,088	8.85	2,722
	65°F	60°F	25,147	10.20	2,465	24,617	9.79	2,514	24,088	9.39	2,564	23,558	9.01	2,616
	70°F	64°F	24,882	10.15	2,452	24,352	9.74	2,501	23,823	9.34	2,551	23,294	8.95	2,602
	75°F	69°F	24,617	10.09	2,440	24,088	9.68	2,488	23,558	9.28	2,538	23,029	8.90	2,589
	80°F	74°F	22,500	9.52	2,364	21,970	9.11	2,411	21,441	8.72	2,460	20,911	8.34	2,509
	86°F	80°F	19,853	8.58	2,314	19,323	8.19	2,360	18,794	7.81	2,407	18,264	7.44	2,455

*Maximum Output values are not based on AHRI test conditions

LEGEND: **W - Watts** **DB - Dry Bulb** **SHR - Sensible Heat Ratio**

TC - Total Capacity **SC - Sensible Capacity** **COP - Coeffecient of Performance**

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EXTENDED RATINGS		TWH24PD32AI / TWH24PD32AO																			
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(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)	TC (Btu/h)	SC (Btu/h)	SHR	EER(Btu/(h·W))	Power Input (W)
MAX OUTPUT*	-20°F	17,180	12,456	73%	11.64	1,475	18,407	13,345	73%	12.07	1,525	19,021	13,790	73%	11.90	1,598	20,862	15,125	73%	12.12	1,721
	-15°F	17,433	12,639	73%	11.46	1,522	18,615	13,496	73%	11.62	1,602	19,206	13,924	73%	11.39	1,686	20,979	15,210	73%	11.29	1,859
	-10°F	18,030	13,119	73%	11.83	1,524	19,203	13,972	73%	11.97	1,604	19,789	14,398	73%	11.72	1,688	21,548	15,678	73%	11.58	1,862
	-5°F	18,621	13,594	73%	12.17	1,530	19,785	14,443	73%	12.28	1,611	20,367	14,868	73%	12.01	1,695	22,113	16,142	73%	11.83	1,869
	0°F	19,366	14,187	73%	12.62	1,534	20,558	15,060	73%	12.73	1,615	21,154	15,496	73%	12.44	1,700	22,942	16,806	73%	12.24	1,874
	5°F	19,391	14,253	74%	12.10	1,603	20,566	15,116	74%	12.19	1,687	21,154	15,548	74%	11.91	1,776	22,917	16,844	74%	11.70	1,958
	10°F	19,427	14,329	74%	12.08	1,608	20,578	15,178	74%	12.16	1,693	21,154	15,602	74%	11.87	1,782	22,881	16,876	74%	11.65	1,965
	15°F	20,014	14,810	74%	12.31	1,626	21,174	15,669	74%	12.37	1,711	21,754	16,098	74%	12.08	1,802	23,494	17,386	74%	11.83	1,986
	20°F	20,112	14,934	74%	11.94	1,685	21,261	15,787	74%	11.99	1,774	21,836	16,214	74%	11.70	1,867	23,560	17,494	74%	11.45	2,058
	25°F	20,134	15,000	75%	11.72	1,717	21,269	15,845	75%	11.76	1,808	21,836	16,268	75%	11.47	1,903	23,538	17,535	75%	11.22	2,098
	30°F	20,188	15,092	75%	11.44	1,765	21,287	15,913	75%	11.46	1,857	21,836	16,324	75%	11.17	1,955	23,484	17,556	75%	10.89	2,156
	35°F	20,346	15,259	75%	11.39	1,786	21,417	16,062	75%	11.39	1,880	21,952	16,464	75%	11.09	1,979	23,558	17,669	75%	10.80	2,182
	40°F	20,426	15,371	75%	11.15	1,832	21,480	16,165	75%	11.14	1,928	22,007	16,561	75%	10.84	2,030	23,588	17,751	75%	10.54	2,238
	45°F	20,454	15,442	76%	10.80	1,895	21,489	16,224	76%	10.78	1,994	22,007	16,615	76%	10.48	2,099	23,560	17,788	76%	10.18	2,314
	50°F	20,498	15,529	76%	10.53	1,946	21,504	16,291	76%	10.50	2,049	22,007	16,672	76%	10.20	2,157	23,516	17,815	76%	9.89	2,378
	55°F	21,829	16,590	76%	11.00	1,985	22,868	17,380	76%	10.95	2,089	23,388	17,775	76%	10.63	2,199	24,947	18,960	76%	10.29	2,425
	60°F	21,856	16,667	76%	10.85	2,015	22,867	17,437	76%	10.78	2,121	23,372	17,823	76%	10.47	2,233	24,888	18,979	76%	10.11	2,462
	65°F	22,852	17,482	77%	11.08	2,062	23,879	18,268	77%	11.00	2,171	24,393	18,661	77%	10.67	2,285	25,934	19,839	77%	10.29	2,519
	70°F	23,718	18,206	77%	11.38	2,084	24,738	18,989	77%	11.28	2,194	25,248	19,380	77%	10.93	2,309	26,778	20,555	77%	10.52	2,546
	75°F	24,261	18,681	77%	11.52	2,107	25,262	19,451	77%	11.39	2,218	25,762	19,837	77%	11.04	2,334	27,263	20,992	77%	10.59	2,574
	80°F	26,372	20,373	77%	11.90	2,215	27,443	21,200	77%	11.77	2,332	27,978	21,614	77%	11.40	2,455	29,584	22,855	77%	10.93	2,706
	85°F	26,394	20,456	78%	11.63	2,270	27,450	21,274	78%	11.49	2,390	27,978	21,683	78%	11.12	2,515	29,562	22,910	78%	10.66	2,773
	90°F	26,348	20,484	78%	11.32	2,328	27,435	21,328	78%	11.20	2,450	27,978	21,751	78%	10.85	2,579	29,608	23,018	78%	10.41	2,844
	95°F	26,301	20,515	78%	11.05	2,381	27,420	21,388	78%	10.94	2,506	27,980	21,824	78%	10.61	2,638	29,659	23,134	78%	10.20	2,908
	100°F	26,185	20,488	78%	10.76	2,434	27,329	21,383	78%	10.67	2,562	27,902	21,831	78%	10.35	2,697	29,619	23,175	78%	9.96	2,973
	105°F	25,857	20,298	79%	10.36	2,496	27,019	21,210	79%	10.28	2,627	27,600	21,666	79%	9.98	2,766	29,343	23,034	79%	9.62	3,049
	110°F	25,735	20,265	79%	10.11	2,545	26,912	21,192	79%	10.04	2,679	27,500	21,655	79%	9.75	2,820	29,265	23,045	79%	9.41	3,110
	115°F	23,692	18,717	79%	9.24	2,564	24,794	19,587	79%	9.19	2,699	25,345	20,023	79%	8.92	2,841	26,998	21,328	79%	8.62	3,133
	120°F	22,145	17,547	79%	8.73	2,537	23,218	18,398	79%	8.53	2,721	23,755	18,824	79%	8.29	2,864	25,366	20,100	79%	8.03	3,158
	122°F	19,978	15,882	80%	7.93	2,519	20,989	16,686	80%	7.63	2,752	21,495	17,089	80%	7.42	2,897	23,012	18,295	80%	7.21	3,194

*Maximum Output values are not based on AHRI test conditions

LEG **W - Watts** **DB - Dry Bulb** **SHR - Sensible Heat Ratio**

TC - Total Capacity **SC - Sensible Capacity** **COP - Coeffecient of Performance**

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EXTENDED RATINGS			TWH24PD32AI / TWH24PD32AO										
HEATING PERFORMANCE													
Outdoor Ambient Temperature			**Return Air Temperature**										
			70°F (DB)			**75°F (DB)**			**80°F (DB)**			**90°F (DB)**		
	DB	**WB**	**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*	**-22°F**	**-22.5°F**	19,107	5.62	3,400	13,542	6.19	2,189	13,332	5.97	2,233	12,810	5.62	2,278
	-20°F	**-20.5°F**	20,120	5.85	3,440	13,808	6.23	2,218	13,595	6.01	2,262	13,077	5.67	2,308
	-15°F	**-16°F**	21,519	6.22	3,460	14,373	6.43	2,234	14,151	6.21	2,279	13,627	5.86	2,324
	-10°F	**-11°F**	22,007	6.32	3,480	14,896	6.56	2,270	14,666	6.33	2,315	14,156	5.99	2,361
	-5°F	**-6°F**	22,100	6.31	3,500	15,839	6.95	2,279	15,595	6.71	2,325	15,083	6.36	2,372
	0°F	**-1°F**	22,519	6.40	3,520	15,885	6.83	2,326	15,639	6.59	2,372	15,151	6.26	2,420
	5°F	**3°F**	23,681	6.49	3,650	17,004	7.16	2,373	16,741	6.92	2,421	16,241	6.58	2,469
	10°F	**8°F**	24,000	6.56	3,660	18,369	7.58	2,422	18,085	7.32	2,470	17,575	6.98	2,520
	15°F	**13°F**	24,000	6.52	3,680	19,449	7.87	2,471	19,148	7.60	2,521	18,634	7.25	2,571
	17°F	**15°F**	24,000	6.59	3,640	19,549	7.81	2,504	19,247	7.54	2,554	18,754	7.20	2,605
	20°F	**17°F**	24,000	6.63	3,620	19,639	7.79	2,522	19,335	7.52	2,572	18,840	7.18	2,624
	25°F	**22°F**	24,151	6.94	3,480	20,803	8.08	2,573	20,482	7.80	2,625	19,976	7.46	2,677
	30°F	**27°F**	24,252	7.18	3,380	21,381	8.14	2,626	21,050	7.86	2,678	20,540	7.52	2,732
	35°F	**33°F**	24,952	7.82	3,190	22,856	8.59	2,660	22,503	8.29	2,714	21,967	7.94	2,768
	40°F	**36°F**	25,378	8.54	2,970	24,319	9.08	2,679	23,943	8.76	2,733	23,416	8.40	2,788
	45°F	**41°F**	27,802	9.72	2,860	27,852	10.19	2,734	27,421	9.83	2,789	26,838	9.44	2,844
	47°F	**43°F**	28,000	10.45	2,680	27,527	9.87	2,790	27,178	9.55	2,846	27,142	9.35	2,902
	50°F	**46°F**	25,656	9.72	2,640	28,692	10.13	2,832	28,095	9.72	2,889	27,908	9.47	2,947
	55°F	**50°F**	28,560	10.98	2,600	29,617	10.31	2,873	29,159	9.95	2,931	28,538	9.55	2,990
	60°F	**55°F**	25,999	10.08	2,580	30,767	10.40	2,960	30,277	10.03	3,019	29,607	9.61	3,079
	65°F	**60°F**	27,210	10.97	2,480	31,586	10.36	3,048	31,097	10.00	3,109	30,414	9.59	3,172
	70°F	**64°F**	24,975	10.15	2,460	29,989	9.55	3,140	29,526	9.22	3,203	28,870	8.84	3,267
	75°F	**69°F**	26,645	10.88	2,450	29,012	8.97	3,234	28,563	8.66	3,299	27,922	8.30	3,365
	80°F	**74°F**	23,576	9.70	2,430	26,647	8.00	3,331	26,235	7.72	3,398	25,587	7.38	3,466
	86°F	**80°F**	23,000	9.54	2,410	26,437	7.99	3,309	26,029	7.71	3,376	25,295	7.35	3,443

*Maximum Output values are not based on AHRI test conditions

LEGEND: W - Watts **DB - Dry Bulb** **SHR - Sensible Heat Ratio**

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