TOSOT

Charmo EXTENDED RATINGS



Cooling Performance
Heating Performance

- ❑ TWH09CA32AI & TWH09CA32AO
- ❑ TWH12CA32AI & TWH12CA32AO
- ❑ TWH09CD32AI & TWH09CD32AO
- ❑ TWH12CD32AI & TWH12CD32AO
- ❑ TWH18CD32AI & TWH18CD32AO
- ❑ TWH24CD32AI & TWH24CD32AO
- ❑ TWH30CD32AI & TWH30CD32AO
- ❑ TWH36CD32AI & TWH36CD32AO

Thank you for choosing our product.
Please go through this Extended Ratings to design your project and retain it for future reference.

To download an electric version visit
www.TOSOT.com

EXTENDED RATINGS	TWH09CA32AI / TWH09CA32AO

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°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-10°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-5°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	125°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	129°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS			TWH09CA32AI / TWH09CA32AO										
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	/	/	/	/	/	/	/	/	/	/	/	/
	-20°F	-20.5°F	/	/	/	/	/	/	/	/	/	/	/	/
	-15°F	-16°F	7,714	1.88	1,201	7,448	1.78	1,225	7,375	1.73	1,250	6,916	1.59	1,275
	-10°F	-11°F	8,180	1.98	1,213	7,914	1.87	1,238	7,853	1.82	1,262	7,382	1.68	1,288
	-5°F	-6°F	8,645	2.07	1,226	8,379	1.96	1,250	8,331	1.91	1,275	7,847	1.77	1,301
	0°F	-1°F	9,044	2.12	1,251	8,778	2.02	1,276	8,741	1.97	1,301	8,246	1.82	1,327
	5°F	3°F	9,443	2.17	1,276	9,177	2.07	1,302	9,151	2.02	1,328	8,645	1.87	1,354
	10°F	8°F	9,975	2.25	1,302	9,709	2.14	1,328	9,697	2.10	1,355	9,177	1.95	1,382
	15°F	13°F	10,175	2.27	1,315	10,175	2.22	1,342	10,175	2.18	1,369	9,643	2.02	1,396
	17°F	15°F	10,374	2.29	1,329	10,640	2.30	1,355	10,653	2.26	1,382	10,108	2.10	1,410
	20°F	17°F	10,906	2.36	1,356	10,640	2.25	1,383	10,653	2.21	1,411	10,108	2.06	1,439
	25°F	22°F	11,305	2.39	1,384	11,039	2.29	1,411	11,063	2.25	1,439	10,507	2.10	1,468
	30°F	27°F	11,505	2.41	1,398	11,239	2.31	1,426	11,268	2.27	1,454	10,707	2.12	1,483
	35°F	33°F	11,704	2.43	1,412	11,438	2.33	1,440	11,473	2.29	1,469	10,906	2.13	1,498
	40°F	36°F	12,635	2.57	1,441	12,369	2.47	1,469	12,429	2.43	1,499	11,837	2.27	1,529
	45°F	41°F	13,034	2.60	1,470	12,768	2.50	1,499	12,839	2.46	1,529	12,236	2.30	1,560
	47°F	43°F	13,300	2.60	1,500	13,034	2.50	1,530	13,112	2.46	1,561	12,502	2.30	1,592
	50°F	46°F	13,167	2.56	1,508	12,901	2.46	1,538	12,975	2.42	1,568	12,369	2.27	1,600
	55°F	50°F	13,034	2.52	1,515	12,768	2.42	1,545	12,839	2.39	1,576	12,236	2.23	1,608
	60°F	55°F	12,901	2.47	1,530	12,635	2.37	1,561	12,702	2.34	1,592	12,103	2.18	1,624
	65°F	60°F	12,635	2.52	1,470	12,369	2.42	1,499	12,429	2.38	1,529	11,837	2.22	1,560
	70°F	64°F	12,502	2.51	1,463	12,236	2.40	1,492	12,292	2.37	1,522	11,704	2.21	1,552
	75°F	69°F	12,369	2.49	1,455	12,103	2.39	1,484	12,156	2.35	1,514	11,571	2.20	1,544
	80°F	74°F	/	/	/	/	/	/	/	/	/	/	/	/
	86°F	80°F	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS		TWH12CA32AI / TWH12CA32AO																			
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°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-10°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-5°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	0°F	8,650	6,336	73%	10.58	818	9,182	6,726	73%	10.66	861	9,448	6,921	73%	942.50	906	10,246	7,505	73%	10.26	999
	5°F	8,783	6,455	74%	10.52	835	9,315	6,846	73%	10.60	879	9,581	7,042	73%	962.00	925	10,379	7,629	73%	10.18	1,020
	10°F	8,982	6,624	74%	10.55	852	9,515	7,017	74%	10.61	897	9,781	7,213	74%	981.50	944	10,579	7,802	74%	10.17	1,040
	15°F	9,182	6,795	74%	10.57	869	9,714	7,188	74%	10.62	914	9,980	7,385	74%	1001.00	963	10,779	7,976	74%	10.16	1,061
	20°F	9,315	6,916	74%	10.52	886	9,847	7,312	74%	10.56	932	10,113	7,509	74%	1020.50	981	10,912	8,102	74%	10.09	1,082
	25°F	9,448	7,039	75%	10.47	903	9,980	7,435	75%	10.51	950	10,246	7,634	74%	1040.00	1,000	11,045	8,228	74%	10.02	1,103
	30°F	9,781	7,311	75%	10.64	919	10,313	7,709	75%	10.66	968	10,579	7,908	75%	1059.50	1,019	11,377	8,505	75%	10.13	1,123
	35°F	10,113	7,585	75%	10.80	936	10,646	7,984	75%	10.80	986	10,912	8,184	75%	1079.00	1,038	11,710	8,783	75%	10.24	1,144
	40°F	10,313	7,760	75%	10.82	953	10,845	8,161	75%	10.81	1,003	11,111	8,361	75%	1098.50	1,056	11,910	8,962	75%	10.23	1,165
	45°F	10,513	7,937	75%	10.84	970	11,045	8,339	75%	10.81	1,021	11,311	8,540	76%	1118.00	1,075	12,109	9,143	75%	10.22	1,185
	50°F	10,845	8,215	76%	10.99	987	11,377	8,618	76%	10.95	1,039	11,644	8,820	76%	1137.50	1,094	12,442	9,425	76%	10.32	1,206
	55°F	11,178	8,495	76%	11.13	1,004	11,710	8,900	76%	11.08	1,057	11,976	9,102	76%	1157.00	1,113	12,775	9,709	76%	10.42	1,227
	60°F	11,511	8,777	76%	11.27	1,021	12,043	9,183	76%	11.21	1,075	12,309	9,386	76%	1176.50	1,131	13,107	9,994	76%	10.51	1,247
	65°F	11,843	9,060	76%	11.41	1,038	12,376	9,467	77%	11.33	1,093	12,642	9,671	76%	1196.00	1,150	13,440	10,282	76%	10.60	1,268
	70°F	12,376	9,498	77%	11.73	1,055	12,908	9,907	77%	11.63	1,110	13,174	10,111	77%	1215.50	1,169	13,972	10,724	77%	10.84	1,289
	75°F	12,908	9,939	77%	12.04	1,072	13,440	10,349	77%	11.91	1,128	13,706	10,554	77%	1235.00	1,188	14,505	11,169	77%	11.08	1,309
	80°F	13,107	10,125	77%	12.04	1,089	13,640	10,537	77%	11.90	1,146	13,906	10,742	77%	1254.50	1,206	14,704	11,359	77%	11.06	1,330
	85°F	13,307	10,313	78%	12.04	1,106	13,839	10,725	77%	11.89	1,164	14,105	10,932	77%	1274.00	1,225	14,904	11,550	78%	11.04	1,351
	90°F	12,908	10,036	78%	11.56	1,117	13,440	10,450	78%	11.43	1,176	13,706	10,657	78%	1287.00	1,238	14,505	11,277	78%	10.63	1,364
	95°F	12,509	9,757	78%	11.09	1,128	13,041	10,172	78%	10.98	1,188	13,307	10,379	78%	1300.00	1,250	14,105	11,002	78%	10.24	1,378
	100°F	12,176	9,528	78%	10.53	1,156	12,708	9,944	78%	10.44	1,217	12,974	10,152	78%	1332.50	1,281	13,773	10,777	78%	9.75	1,413
	105°F	11,843	9,297	79%	10.00	1,185	12,376	9,715	79%	9.93	1,247	12,642	9,924	79%	1365.00	1,313	13,440	10,550	78%	9.29	1,447
	110°F	11,644	9,169	79%	9.60	1,213	12,176	9,589	79%	9.54	1,277	12,442	9,798	79%	1397.50	1,344	13,240	10,427	79%	8.94	1,481
	115°F	11,444	9,041	79%	9.22	1,241	11,976	9,461	79%	9.17	1,306	12,242	9,672	79%	1430.00	1,375	13,041	10,302	79%	8.60	1,516
	120°F	10,978	8,700	79%	8.81	1,245	11,511	9,122	79%	8.62	1,336	11,777	9,333	79%	1462.50	1,406	12,575	9,966	79%	8.11	1,550
	122°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	125°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	129°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS			TWH12CA32AI / TWH12CA32AO										
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	/	/	/	/	/	/	/	/	/	/	/	/
	-20°F	-20.5°F	/	/	/	/	/	/	/	/	/	/	/	/
	-15°F	-16°F	8,030	1.85	1,271	7,738	1.75	1,296	7,446	1.65	1,322	7,154	1.55	1,349
	-10°F	-11°F	8,249	1.88	1,284	7,957	1.78	1,309	7,665	1.68	1,336	7,373	1.59	1,362
	-5°F	-6°F	8,468	1.91	1,297	8,176	1.81	1,323	7,884	1.71	1,349	7,592	1.62	1,376
	0°F	-1°F	8,614	1.91	1,323	8,322	1.81	1,350	8,030	1.71	1,377	7,738	1.62	1,404
	5°F	3°F	8,760	1.90	1,350	8,468	1.80	1,377	8,176	1.71	1,405	7,884	1.61	1,433
	10°F	8°F	9,490	2.02	1,378	9,198	1.92	1,405	8,906	1.82	1,433	8,614	1.73	1,462
	15°F	13°F	9,928	2.09	1,392	9,928	2.05	1,420	9,636	1.95	1,448	9,344	1.85	1,477
	17°F	15°F	10,366	2.16	1,406	10,658	2.18	1,434	10,366	2.08	1,463	10,074	1.98	1,492
	20°F	17°F	10,512	2.15	1,435	10,220	2.05	1,463	9,928	1.95	1,493	9,636	1.86	1,522
	25°F	22°F	11,242	2.25	1,464	10,950	2.15	1,493	10,658	2.05	1,523	10,366	1.96	1,553
	30°F	27°F	11,461	2.34	1,437	11,169	2.23	1,466	10,877	2.13	1,495	10,585	2.03	1,525
	35°F	33°F	11,680	2.43	1,410	11,388	2.32	1,438	11,096	2.22	1,467	10,804	2.12	1,496
	40°F	36°F	13,140	2.99	1,290	12,848	2.86	1,316	12,556	2.74	1,342	12,264	2.63	1,369
	45°F	41°F	13,578	3.02	1,316	13,286	2.90	1,342	12,994	2.78	1,369	12,702	2.66	1,397
	47°F	43°F	14,600	3.19	1,343	14,308	3.06	1,370	14,016	2.94	1,397	13,724	2.82	1,425
	50°F	46°F	14,454	3.14	1,350	14,162	3.01	1,377	13,870	2.89	1,404	13,578	2.78	1,432
	55°F	50°F	14,308	3.09	1,356	14,016	2.97	1,384	13,724	2.85	1,411	13,432	2.74	1,439
	60°F	55°F	14,162	3.03	1,370	13,870	2.91	1,397	13,578	2.79	1,425	13,286	2.68	1,454
	65°F	60°F	13,870	3.09	1,316	13,578	2.97	1,342	13,286	2.84	1,369	12,994	2.73	1,397
	70°F	64°F	13,724	3.07	1,309	13,432	2.95	1,336	13,140	2.83	1,362	12,848	2.71	1,390
	75°F	69°F	13,578	3.05	1,303	13,286	2.93	1,329	12,994	2.81	1,355	12,702	2.69	1,382
	80°F	74°F	/	/	/	/	/	/	/	/	/	/	/	/
	86°F	80°F	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS		TWH09CD32AI / TWH09CD32AO																			
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°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-10°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-5°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	0°F	6,695	4,904	73%	9.74	687	7,107	5,206	73%	9.83	723	7,313	5,357	73%	9.61	761	7,931	5,809	73%	9.45	839
	5°F	6,798	4,997	74%	9.69	701	7,210	5,299	74%	9.77	738	7,416	5,451	74%	9.54	777	8,034	5,905	74%	9.38	857
	10°F	6,953	5,127	74%	9.72	715	7,365	5,431	74%	9.78	753	7,571	5,583	74%	9.55	793	8,189	6,039	74%	9.37	874
	15°F	7,107	5,259	74%	9.74	730	7,519	5,564	74%	9.79	768	7,725	5,717	74%	9.55	809	8,343	6,174	74%	9.36	891
	20°F	7,210	5,353	74%	9.69	744	7,622	5,659	74%	9.73	783	7,828	5,812	74%	9.50	824	8,446	6,271	74%	9.29	909
	25°F	7,313	5,448	75%	9.65	758	7,725	5,755	75%	9.68	798	7,931	5,909	75%	9.44	840	8,549	6,369	75%	9.23	926
	30°F	7,571	5,659	75%	9.80	772	7,983	5,967	75%	9.82	813	8,189	6,121	75%	9.57	856	8,807	6,583	75%	9.33	943
	35°F	7,828	5,871	75%	9.95	787	8,240	6,180	75%	9.95	828	8,446	6,335	75%	9.69	872	9,064	6,798	75%	9.43	961
	40°F	7,983	6,007	75%	9.97	801	8,395	6,317	75%	9.96	843	8,601	6,472	75%	9.69	887	9,219	6,937	75%	9.42	978
	45°F	8,137	6,143	76%	9.98	815	8,549	6,455	76%	9.97	858	8,755	6,610	76%	9.70	903	9,373	7,077	76%	9.41	996
	50°F	8,395	6,359	76%	10.12	829	8,807	6,671	76%	10.09	873	9,013	6,827	76%	9.81	919	9,631	7,295	76%	9.51	1,013
	55°F	8,652	6,576	76%	10.26	843	9,064	6,889	76%	10.21	888	9,270	7,045	76%	9.92	935	9,888	7,515	76%	9.60	1,030
	60°F	8,910	6,793	76%	10.39	858	9,322	7,108	76%	10.33	903	9,528	7,265	76%	10.03	950	10,146	7,736	76%	9.68	1,048
	65°F	9,167	7,013	77%	10.51	872	9,579	7,328	77%	10.44	918	9,785	7,486	77%	10.13	966	10,403	7,958	77%	9.77	1,065
	70°F	9,579	7,352	77%	10.81	886	9,991	7,668	77%	10.71	933	10,197	7,826	77%	10.39	982	10,815	8,301	77%	9.99	1,082
	75°F	9,991	7,693	77%	11.10	900	10,403	8,010	77%	10.98	948	10,609	8,169	77%	10.64	998	11,227	8,645	77%	10.21	1,100
	80°F	10,146	7,837	77%	11.09	914	10,558	8,156	77%	10.97	963	10,764	8,315	77%	10.62	1,013	11,382	8,792	77%	10.19	1,117
	85°F	10,300	7,983	78%	11.09	929	10,712	8,302	78%	10.96	978	10,918	8,461	78%	10.61	1,029	11,536	8,940	78%	10.17	1,134
	90°F	9,991	7,768	78%	10.65	938	10,403	8,088	78%	10.53	988	10,609	8,249	78%	10.21	1,040	11,227	8,729	78%	9.80	1,146
	95°F	9,682	7,552	78%	10.22	948	10,094	7,873	78%	10.12	998	10,300	8,034	78%	9.81	1,050	10,918	8,516	78%	9.43	1,158
	100°F	9,425	7,375	78%	9.70	971	9,837	7,697	78%	9.62	1,022	10,043	7,858	78%	9.33	1,076	10,661	8,342	78%	8.98	1,187
	105°F	9,167	7,196	79%	9.21	995	9,579	7,520	79%	9.15	1,047	9,785	7,681	79%	8.88	1,103	10,403	8,166	79%	8.56	1,216
	110°F	9,013	7,097	79%	8.85	1,019	9,425	7,422	79%	8.79	1,072	9,631	7,584	79%	8.53	1,129	10,249	8,071	79%	8.24	1,244
	115°F	8,858	6,998	79%	8.50	1,042	9,270	7,323	79%	8.45	1,097	9,476	7,486	79%	8.20	1,155	10,094	7,974	79%	7.93	1,273
	120°F	8,498	6,734	79%	8.12	1,046	8,910	7,061	79%	7.94	1,122	9,116	7,224	79%	7.72	1,181	9,734	7,714	79%	7.47	1,302
	122°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	125°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	129°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS			TWH09CD32AI / TWH09CD32AO										
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	/	/	/	/	/	/	/	/	/	/	/	/
	-20°F	-20.5°F	/	/	/	/	/	/	/	/	/	/	/	/
	-15°F	-16°F	7,619	2.15	1,041	7,375	2.04	1,062	7,356	1.99	1,083	6,831	1.81	1,105
	-10°F	-11°F	8,079	2.25	1,052	7,853	2.15	1,073	7,816	2.09	1,094	7,290	1.91	1,116
	-5°F	-6°F	8,538	2.36	1,062	8,331	2.25	1,083	8,276	2.19	1,105	7,750	2.02	1,127
	0°F	-1°F	8,933	2.42	1,084	8,741	2.32	1,106	8,670	2.25	1,128	8,144	2.08	1,150
	5°F	3°F	9,327	2.47	1,106	9,151	2.38	1,128	9,064	2.31	1,151	8,538	2.13	1,174
	10°F	8°F	9,852	2.56	1,129	9,697	2.47	1,151	9,589	2.39	1,174	9,064	2.22	1,198
	15°F	13°F	10,049	2.58	1,140	10,175	2.56	1,163	10,049	2.48	1,186	9,524	2.31	1,210
	17°F	15°F	10,246	2.61	1,152	10,653	2.66	1,175	10,509	2.57	1,198	9,983	2.39	1,222
	20°F	17°F	10,772	2.69	1,175	10,653	2.60	1,199	10,509	2.52	1,223	9,983	2.35	1,247
	25°F	22°F	11,166	2.73	1,199	11,063	2.65	1,223	10,903	2.56	1,248	10,377	2.39	1,272
	30°F	27°F	11,363	2.75	1,211	11,268	2.67	1,236	11,100	2.58	1,260	10,574	2.41	1,285
	35°F	33°F	11,560	2.77	1,224	11,473	2.69	1,248	11,297	2.60	1,273	10,772	2.43	1,298
	40°F	36°F	12,479	2.93	1,249	12,429	2.86	1,273	12,217	2.76	1,299	11,691	2.59	1,325
	45°F	41°F	12,873	2.96	1,274	12,839	2.90	1,299	12,611	2.79	1,325	12,085	2.62	1,352
	47°F	43°F	13,136	2.96	1,300	13,112	2.90	1,326	12,873	2.79	1,353	12,348	2.62	1,380
	50°F	46°F	13,005	2.92	1,307	12,975	2.85	1,333	12,742	2.75	1,359	12,216	2.58	1,386
	55°F	50°F	12,873	2.87	1,313	12,839	2.81	1,339	12,611	2.71	1,366	12,085	2.54	1,393
	60°F	55°F	12,742	2.82	1,326	12,702	2.75	1,353	12,479	2.65	1,380	11,954	2.49	1,407
	65°F	60°F	12,479	2.87	1,274	12,429	2.80	1,299	12,217	2.70	1,325	11,691	2.53	1,352
	70°F	64°F	12,348	2.86	1,268	12,292	2.79	1,293	12,085	2.69	1,319	11,560	2.52	1,345
	75°F	69°F	12,217	2.84	1,261	12,156	2.77	1,286	11,954	2.67	1,312	11,428	2.50	1,338
	80°F	74°F	/	/	/	/	/	/	/	/	/	/	/	/
	86°F	80°F	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS		TWH12CD32AI / TWH12CD32AO																			
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°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-10°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-5°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	0°F	8,650	6,336	73%	10.58	818	9,182	6,726	73%	10.66	861	9,448	6,921	73%	942.50	906	10,246	7,505	73%	10.26	999
	5°F	8,783	6,455	74%	10.52	835	9,315	6,846	73%	10.60	879	9,581	7,042	73%	962.00	925	10,379	7,629	73%	10.18	1,020
	10°F	8,982	6,624	74%	10.55	852	9,515	7,017	74%	10.61	897	9,781	7,213	74%	981.50	944	10,579	7,802	74%	10.17	1,040
	15°F	9,182	6,795	74%	10.57	869	9,714	7,188	74%	10.62	914	9,980	7,385	74%	1001.00	963	10,779	7,976	74%	10.16	1,061
	20°F	9,315	6,916	74%	10.52	886	9,847	7,312	74%	10.56	932	10,113	7,509	74%	1020.50	981	10,912	8,102	74%	10.09	1,082
	25°F	9,448	7,039	75%	10.47	903	9,980	7,435	75%	10.51	950	10,246	7,634	74%	1040.00	1,000	11,045	8,228	74%	10.02	1,103
	30°F	9,781	7,311	75%	10.64	919	10,313	7,709	75%	10.66	968	10,579	7,908	75%	1059.50	1,019	11,377	8,505	75%	10.13	1,123
	35°F	10,113	7,585	75%	10.80	936	10,646	7,984	75%	10.80	986	10,912	8,184	75%	1079.00	1,038	11,710	8,783	75%	10.24	1,144
	40°F	10,313	7,760	75%	10.82	953	10,845	8,161	75%	10.81	1,003	11,111	8,361	75%	1098.50	1,056	11,910	8,962	75%	10.23	1,165
	45°F	10,513	7,937	75%	10.84	970	11,045	8,339	75%	10.81	1,021	11,311	8,540	76%	1118.00	1,075	12,109	9,143	75%	10.22	1,185
	50°F	10,845	8,215	76%	10.99	987	11,377	8,618	76%	10.95	1,039	11,644	8,820	76%	1137.50	1,094	12,442	9,425	76%	10.32	1,206
	55°F	11,178	8,495	76%	11.13	1,004	11,710	8,900	76%	11.08	1,057	11,976	9,102	76%	1157.00	1,113	12,775	9,709	76%	10.42	1,227
	60°F	11,511	8,777	76%	11.27	1,021	12,043	9,183	76%	11.21	1,075	12,309	9,386	76%	1176.50	1,131	13,107	9,994	76%	10.51	1,247
	65°F	11,843	9,060	76%	11.41	1,038	12,376	9,467	77%	11.33	1,093	12,642	9,671	76%	1196.00	1,150	13,440	10,282	76%	10.60	1,268
	70°F	12,376	9,498	77%	11.73	1,055	12,908	9,907	77%	11.63	1,110	13,174	10,111	77%	1215.50	1,169	13,972	10,724	77%	10.84	1,289
	75°F	12,908	9,939	77%	12.04	1,072	13,440	10,349	77%	11.91	1,128	13,706	10,554	77%	1235.00	1,188	14,505	11,169	77%	11.08	1,309
	80°F	13,107	10,125	77%	12.04	1,089	13,640	10,537	77%	11.90	1,146	13,906	10,742	77%	1254.50	1,206	14,704	11,359	77%	11.06	1,330
	85°F	13,307	10,313	78%	12.04	1,106	13,839	10,725	77%	11.89	1,164	14,105	10,932	77%	1274.00	1,225	14,904	11,550	78%	11.04	1,351
	90°F	12,908	10,036	78%	11.56	1,117	13,440	10,450	78%	11.43	1,176	13,706	10,657	78%	1287.00	1,238	14,505	11,277	78%	10.63	1,364
	95°F	12,509	9,757	78%	11.09	1,128	13,041	10,172	78%	10.98	1,188	13,307	10,379	78%	1300.00	1,250	14,105	11,002	78%	10.24	1,378
	100°F	12,176	9,528	78%	10.53	1,156	12,708	9,944	78%	10.44	1,217	12,974	10,152	78%	1332.50	1,281	13,773	10,777	78%	9.75	1,413
	105°F	11,843	9,297	79%	10.00	1,185	12,376	9,715	79%	9.93	1,247	12,642	9,924	79%	1365.00	1,313	13,440	10,550	78%	9.29	1,447
	110°F	11,644	9,169	79%	9.60	1,213	12,176	9,589	79%	9.54	1,277	12,442	9,798	79%	1397.50	1,344	13,240	10,427	79%	8.94	1,481
	115°F	11,444	9,041	79%	9.22	1,241	11,976	9,461	79%	9.17	1,306	12,242	9,672	79%	1430.00	1,375	13,041	10,302	79%	8.60	1,516
	120°F	10,978	8,700	79%	8.81	1,245	11,511	9,122	79%	8.62	1,336	11,777	9,333	79%	1462.50	1,406	12,575	9,966	79%	8.11	1,550
	122°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	125°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	129°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS			TWH12CD32AI / TWH12CD32AO										
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	/	/	/	/	/	/	/	/	/	/	/	/
	-20°F	-20.5°F	/	/	/	/	/	/	/	/	/	/	/	/
	-15°F	-16°F	8,030	1.85	1,271	7,738	1.75	1,296	7,446	1.65	1,322	7,154	1.55	1,349
	-10°F	-11°F	8,249	1.88	1,284	7,957	1.78	1,309	7,665	1.68	1,336	7,373	1.59	1,362
	-5°F	-6°F	8,468	1.91	1,297	8,176	1.81	1,323	7,884	1.71	1,349	7,592	1.62	1,376
	0°F	-1°F	8,614	1.91	1,323	8,322	1.81	1,350	8,030	1.71	1,377	7,738	1.62	1,404
	5°F	3°F	9,052	1.96	1,350	8,760	1.86	1,377	8,468	1.77	1,405	8,176	1.67	1,433
	10°F	8°F	9,490	2.02	1,378	9,198	1.92	1,405	8,906	1.82	1,433	8,614	1.73	1,462
	15°F	13°F	9,928	2.09	1,392	9,928	2.05	1,420	9,636	1.95	1,448	9,344	1.85	1,477
	17°F	15°F	10,366	2.16	1,406	10,658	2.18	1,434	10,366	2.08	1,463	10,074	1.98	1,492
	20°F	17°F	10,512	2.15	1,435	10,220	2.05	1,463	9,928	1.95	1,493	9,636	1.86	1,522
	25°F	22°F	11,242	2.25	1,464	10,950	2.15	1,493	10,658	2.05	1,523	10,366	1.96	1,553
	30°F	27°F	11,461	2.34	1,437	11,169	2.23	1,466	10,877	2.13	1,495	10,585	2.03	1,525
	35°F	33°F	11,680	2.43	1,410	11,388	2.32	1,438	11,096	2.22	1,467	10,804	2.12	1,496
	40°F	36°F	13,140	2.99	1,290	12,848	2.86	1,316	12,556	2.74	1,342	12,264	2.63	1,369
	45°F	41°F	13,578	3.02	1,316	13,286	2.90	1,342	12,994	2.78	1,369	12,702	2.66	1,397
	47°F	43°F	14,600	3.19	1,343	14,308	3.06	1,370	14,016	2.94	1,397	13,724	2.82	1,425
	50°F	46°F	14,454	3.14	1,350	14,162	3.01	1,377	13,870	2.89	1,404	13,578	2.78	1,432
	55°F	50°F	14,308	3.09	1,356	14,016	2.97	1,384	13,724	2.85	1,411	13,432	2.74	1,439
	60°F	55°F	14,162	3.03	1,370	13,870	2.91	1,397	13,578	2.79	1,425	13,286	2.68	1,454
	65°F	60°F	13,870	3.09	1,316	13,578	2.97	1,342	13,286	2.84	1,369	12,994	2.73	1,397
	70°F	64°F	13,724	3.07	1,309	13,432	2.95	1,336	13,140	2.83	1,362	12,848	2.71	1,390
	75°F	69°F	13,578	3.05	1,303	13,286	2.93	1,329	12,994	2.81	1,355	12,702	2.69	1,382
	80°F	74°F	/	/	/	/	/	/	/	/	/	/	/	/
	86°F	80°F	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS		TWH18CD32AI / TWH18CD32AI																			
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°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-10°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-5°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	0°F	9,770	6,546	67%	8.41	1,162	10,072	6,950	69%	8.49	1,186	10,331	7,231	70%	8.54	1,210	11,054	7,848	71%	8.70	1,270
	5°F	10,072	6,849	68%	8.49	1,186	10,384	7,269	70%	8.58	1,210	10,650	7,562	71%	8.63	1,235	11,396	8,205	72%	8.79	1,296
	10°F	10,384	7,061	68%	8.58	1,210	10,705	7,493	70%	8.67	1,235	10,979	7,795	71%	8.72	1,260	11,748	8,459	72%	8.88	1,323
	15°F	10,705	7,279	68%	8.67	1,235	11,036	7,725	70%	8.76	1,260	11,319	8,037	71%	8.81	1,285	12,111	8,720	72%	8.97	1,350
	20°F	11,036	7,505	68%	8.76	1,260	11,377	7,964	70%	8.85	1,285	11,669	8,285	71%	8.90	1,312	12,486	8,990	72%	9.07	1,377
	25°F	11,377	7,850	69%	8.85	1,285	11,729	8,328	71%	8.94	1,312	12,030	8,662	72%	8.99	1,338	12,872	9,397	73%	9.16	1,405
	30°F	11,729	8,093	69%	8.94	1,312	12,092	8,585	71%	9.03	1,338	12,402	8,929	72%	9.08	1,366	13,270	9,687	73%	9.25	1,434
	35°F	12,092	8,343	69%	9.03	1,338	12,466	8,851	71%	9.13	1,366	12,786	9,206	72%	9.17	1,394	13,681	9,987	73%	9.35	1,463
	40°F	12,466	8,602	69%	9.13	1,366	12,852	9,125	71%	9.22	1,394	13,181	9,490	72%	9.27	1,422	14,104	10,296	73%	9.45	1,493
	45°F	12,852	8,996	70%	9.22	1,394	13,249	9,539	72%	9.32	1,422	13,589	9,920	73%	9.36	1,451	14,540	10,760	74%	9.54	1,524
	50°F	13,249	9,274	70%	9.32	1,422	13,659	9,834	72%	9.41	1,451	14,009	10,227	73%	9.46	1,481	14,990	11,092	74%	9.64	1,555
	55°F	13,659	9,561	70%	9.41	1,451	14,081	10,138	72%	9.51	1,481	14,442	10,543	73%	9.56	1,511	15,453	11,435	74%	9.74	1,587
	60°F	14,081	9,857	70%	9.51	1,481	14,517	10,452	72%	9.61	1,511	14,889	10,869	73%	9.66	1,542	15,931	11,789	74%	9.84	1,619
	65°F	15,646	11,109	71%	9.62	1,627	16,130	11,775	73%	9.71	1,660	16,543	12,242	74%	9.76	1,694	17,701	13,276	75%	9.95	1,779
	70°F	15,965	11,335	71%	9.71	1,644	16,459	12,015	73%	9.81	1,677	16,881	12,492	74%	9.86	1,711	18,063	13,547	75%	10.05	1,797
	75°F	16,459	11,686	71%	9.81	1,677	16,968	12,387	73%	9.91	1,711	17,403	12,878	74%	9.97	1,746	18,621	13,966	75%	10.16	1,834
	80°F	19,363	13,942	72%	9.93	1,950	19,962	14,772	74%	10.03	1,990	20,474	15,356	75%	10.08	2,031	21,907	16,650	76%	10.27	2,132
	85°F	18,799	13,536	72%	9.45	1,990	19,381	14,342	74%	9.54	2,031	19,878	14,908	75%	9.59	2,072	21,269	16,165	76%	9.78	2,176
	90°F	19,583	14,100	72%	8.95	2,187	20,188	14,939	74%	9.05	2,231	20,706	15,530	75%	9.09	2,277	22,155	16,838	76%	9.27	2,391
	95°F	19,199	14,332	75%	8.69	2,209	19,793	15,171	77%	8.78	2,254	20,300	15,763	78%	8.83	2,300	21,721	17,084	79%	8.99	2,415
	100°F	17,279	12,441	72%	8.60	2,010	17,813	13,182	74%	8.68	2,051	18,270	13,703	75%	8.73	2,093	19,549	14,857	76%	8.90	2,198
	105°F	15,947	11,641	73%	8.93	1,785	16,440	12,330	75%	9.02	1,822	16,861	12,815	76%	9.07	1,859	18,042	13,892	77%	9.24	1,952
	110°F	15,558	11,357	73%	8.54	1,822	16,039	12,029	75%	8.63	1,859	16,450	12,502	76%	8.67	1,897	17,602	13,553	77%	8.84	1,992
	115°F	14,624	10,676	73%	7.87	1,858	15,076	11,307	75%	7.95	1,896	15,463	11,752	76%	7.99	1,935	16,545	12,740	77%	8.14	2,032
	120°F	10,968	8,007	73%	7.38	1,487	11,307	8,480	75%	7.45	1,517	11,597	8,814	76%	7.49	1,548	12,409	9,555	77%	7.63	1,625
	122°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	125°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	129°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS			TWH18CD32AI / TWH18CD32AI										
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	/	/	/	/	/	/	/	/	/	/	/	/
	-20°F	-20.5°F	/	/	/	/	/	/	/	/	/	/	/	/
	-15°F	-16°F	10,002	1.88	1,557	9,752	1.80	1,588	9,459	1.71	1,620	9,081	1.61	1,652
	-10°F	-11°F	10,640	1.94	1,605	10,374	1.86	1,637	10,063	1.77	1,670	9,660	1.66	1,704
	-5°F	-6°F	11,319	2.00	1,655	11,036	1.92	1,688	10,705	1.82	1,722	10,277	1.72	1,756
	0°F	-1°F	11,915	2.05	1,706	11,617	1.96	1,740	11,268	1.86	1,775	10,818	1.75	1,811
	5°F	3°F	12,411	2.07	1,759	12,101	1.98	1,794	11,738	1.88	1,830	11,268	1.77	1,867
	10°F	8°F	13,533	2.30	1,728	13,194	2.19	1,763	12,798	2.09	1,798	12,286	1.96	1,834
	15°F	13°F	14,141	2.36	1,754	13,787	2.26	1,790	13,374	2.15	1,825	12,839	2.02	1,862
	17°F	15°F	14,749	2.41	1,790	14,380	2.31	1,826	13,949	2.19	1,863	13,391	2.07	1,900
	20°F	17°F	15,205	2.44	1,827	14,825	2.33	1,863	14,380	2.22	1,901	13,805	2.09	1,939
	25°F	22°F	16,155	2.30	2,057	15,751	2.20	2,098	15,278	2.09	2,140	14,667	1.97	2,183
	30°F	27°F	16,740	2.39	2,055	16,322	2.28	2,096	15,832	2.17	2,138	15,199	2.04	2,181
	35°F	33°F	17,438	2.67	1,911	17,002	2.56	1,949	16,492	2.43	1,988	15,832	2.29	2,028
	40°F	36°F	21,825	2.81	2,277	21,279	2.69	2,323	20,641	2.55	2,369	19,815	2.40	2,416
	45°F	41°F	22,500	2.87	2,300	21,938	2.74	2,346	21,279	2.61	2,393	20,428	2.45	2,441
	47°F	43°F	22,838	2.88	2,323	22,267	2.75	2,369	21,599	2.62	2,417	20,735	2.47	2,465
	50°F	46°F	19,184	2.95	1,905	18,704	2.82	1,943	18,143	2.68	1,982	17,417	2.53	2,021
	55°F	50°F	18,800	2.92	1,886	18,330	2.79	1,924	17,780	2.66	1,962	17,069	2.50	2,001
	60°F	55°F	16,920	2.89	1,716	16,497	2.76	1,750	16,002	2.63	1,785	15,362	2.47	1,821
	65°F	60°F	16,412	2.86	1,682	16,002	2.73	1,715	15,522	2.60	1,750	14,901	2.45	1,785
	70°F	64°F	13,130	2.82	1,362	12,802	2.70	1,389	12,418	2.57	1,417	11,921	2.42	1,446
	75°F	69°F	11,160	2.76	1,185	10,881	2.64	1,209	10,555	2.51	1,233	10,133	2.36	1,258
	80°F	74°F	/	/	/	/	/	/	/	/	/	/	/	/
	86°F	80°F	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS		TWH24CD32AI / TWH24CD32AO																			
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°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-10°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-5°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	0°F	16,416	11,901	73%	11.11	1,478	17,426	12,634	73%	11.20	1,556	17,931	13,000	73%	10.95	1,638	19,446	14,099	73%	10.77	1,806
	5°F	16,668	12,085	73%	11.05	1,509	17,679	12,817	73%	11.13	1,588	18,184	13,183	73%	10.88	1,672	19,699	14,282	73%	10.69	1,843
	10°F	17,047	12,359	73%	11.07	1,539	18,057	13,092	73%	11.14	1,620	18,562	13,458	73%	10.88	1,706	20,078	14,556	73%	10.68	1,880
	15°F	17,426	12,634	73%	11.10	1,570	18,436	13,366	73%	11.16	1,652	18,941	13,732	73%	10.89	1,739	20,457	14,831	73%	10.67	1,918
	20°F	17,679	12,817	73%	11.05	1,600	18,689	13,549	73%	11.09	1,685	19,194	13,916	73%	10.82	1,773	20,709	15,014	73%	10.59	1,955
	25°F	17,931	13,000	73%	10.99	1,631	18,941	13,732	73%	11.03	1,717	19,446	14,099	73%	10.76	1,807	20,962	15,197	73%	10.52	1,992
	30°F	18,562	13,458	73%	11.17	1,662	19,573	14,190	73%	11.19	1,749	20,078	14,556	73%	10.91	1,841	21,593	15,655	73%	10.64	2,030
	35°F	19,194	13,916	73%	11.34	1,692	20,204	14,648	73%	11.34	1,781	20,709	15,014	73%	11.05	1,875	22,224	16,113	73%	10.75	2,067
	40°F	19,573	14,190	73%	11.36	1,723	20,583	14,923	73%	11.35	1,813	21,088	15,289	73%	11.05	1,909	22,603	16,387	73%	10.74	2,105
	45°F	19,951	14,465	73%	11.38	1,753	20,962	15,197	73%	11.36	1,846	21,467	15,563	73%	11.05	1,943	22,982	16,662	73%	10.73	2,142
	50°F	20,583	14,923	73%	11.54	1,784	21,593	15,655	73%	11.50	1,878	22,098	16,021	73%	11.18	1,977	23,613	17,120	73%	10.84	2,179
	55°F	21,214	15,380	73%	11.69	1,814	22,224	16,113	73%	11.64	1,910	22,730	16,479	73%	11.31	2,011	24,245	17,577	73%	10.94	2,217
	60°F	21,846	15,838	73%	11.84	1,845	22,856	16,570	73%	11.77	1,942	23,361	16,937	73%	11.43	2,044	24,876	18,035	73%	11.04	2,254
	65°F	22,477	16,296	73%	11.98	1,876	23,487	17,028	73%	11.90	1,974	23,992	17,394	73%	11.54	2,078	25,508	18,493	73%	11.13	2,291
	70°F	23,487	17,028	73%	12.32	1,906	24,497	17,761	73%	12.21	2,007	25,002	18,127	73%	11.84	2,112	26,518	19,225	73%	11.39	2,329
	75°F	24,497	17,761	73%	12.65	1,937	25,508	18,493	73%	12.51	2,039	26,013	18,859	73%	12.12	2,146	27,528	19,958	73%	11.63	2,366
	80°F	24,876	18,035	73%	12.64	1,967	25,886	18,768	73%	12.50	2,071	26,391	19,134	73%	12.11	2,180	27,907	20,232	73%	11.61	2,403
	85°F	25,255	18,310	73%	12.64	1,998	26,265	19,042	73%	12.49	2,103	26,770	19,408	73%	12.09	2,214	28,286	20,507	73%	11.59	2,441
	90°F	24,497	17,761	73%	12.14	2,018	25,508	18,493	73%	12.01	2,125	26,013	18,859	73%	11.63	2,236	27,528	19,958	73%	11.16	2,466
	95°F	23,740	17,211	73%	11.64	2,039	24,750	17,944	73%	11.53	2,146	25,255	18,310	73%	11.18	2,259	26,770	19,408	73%	10.75	2,491
	100°F	23,108	16,754	73%	11.06	2,090	24,119	17,486	73%	10.96	2,200	24,624	17,852	73%	10.63	2,315	26,139	18,951	73%	10.24	2,553
	105°F	22,477	16,296	73%	10.50	2,141	23,487	17,028	73%	10.42	2,253	23,992	17,394	73%	10.11	2,372	25,508	18,493	73%	9.75	2,615
	110°F	22,098	16,021	73%	10.08	2,192	23,108	16,754	73%	10.02	2,307	23,613	17,120	73%	9.72	2,428	25,129	18,218	73%	9.39	2,677
	115°F	21,719	15,746	73%	9.68	2,243	22,730	16,479	73%	9.63	2,361	23,235	16,845	73%	9.35	2,485	24,750	17,944	73%	9.03	2,740
	120°F	20,835	15,106	73%	9.26	2,251	21,846	15,838	73%	9.05	2,414	22,351	16,204	73%	8.79	2,541	23,866	17,303	73%	8.52	2,802
	122°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	125°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	129°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS			TWH24CD32AI / TWH24CD32AO										
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	/	/	/	/	/	/	/	/	/	/	/	/
	-20°F	-20.5°F	/	/	/	/	/	/	/	/	/	/	/	/
	-15°F	-16°F	14,626	7.95	1,841	14,122	7.52	1,878	13,618	7.11	1,915	13,113	6.71	1,954
	-10°F	-11°F	15,509	8.34	1,860	15,005	7.91	1,897	14,500	7.49	1,935	13,996	7.09	1,973
	-5°F	-6°F	16,392	8.73	1,878	15,887	8.29	1,916	15,383	7.87	1,954	14,879	7.46	1,993
	0°F	-1°F	17,148	8.95	1,917	16,644	8.51	1,955	16,140	8.09	1,994	15,635	7.69	2,034
	5°F	3°F	17,905	9.15	1,956	17,400	8.72	1,995	16,896	8.30	2,035	16,392	7.90	2,076
	10°F	8°F	18,914	9.48	1,996	18,409	9.04	2,036	17,905	8.62	2,076	17,400	8.22	2,118
	15°F	13°F	19,292	9.57	2,016	19,292	9.38	2,057	18,787	8.96	2,098	18,283	8.55	2,140
	17°F	15°F	19,670	9.66	2,037	20,174	9.71	2,077	19,670	9.28	2,119	19,166	8.87	2,161
	20°F	17°F	20,679	9.95	2,078	20,174	9.52	2,120	19,670	9.10	2,162	19,166	8.69	2,205
	25°F	22°F	21,435	10.11	2,121	20,931	9.68	2,163	20,427	9.26	2,206	19,922	8.85	2,250
	30°F	27°F	21,814	10.18	2,142	21,309	9.75	2,185	20,805	9.33	2,229	20,300	8.93	2,273
	35°F	33°F	22,192	10.26	2,164	21,687	9.83	2,207	21,183	9.41	2,251	20,679	9.01	2,296
	40°F	36°F	23,957	10.85	2,208	23,453	10.41	2,252	22,948	9.99	2,297	22,444	9.58	2,343
	45°F	41°F	24,714	10.97	2,253	24,209	10.53	2,298	23,705	10.11	2,344	23,201	9.70	2,391
	47°F	43°F	25,218	10.97	2,299	24,714	10.54	2,345	24,209	10.12	2,392	23,705	9.72	2,440
	50°F	46°F	24,966	10.81	2,310	24,461	10.38	2,357	23,957	9.97	2,404	23,453	9.57	2,452
	55°F	50°F	24,714	10.64	2,322	24,209	10.22	2,368	23,705	9.81	2,416	23,201	9.42	2,464
	60°F	55°F	24,461	10.43	2,345	23,957	10.02	2,392	23,453	9.61	2,440	22,948	9.22	2,489
	65°F	60°F	23,957	10.63	2,253	23,453	10.21	2,298	22,948	9.79	2,344	22,444	9.39	2,391
	70°F	64°F	23,705	10.58	2,242	23,201	10.15	2,286	22,696	9.73	2,332	22,192	9.33	2,379
	75°F	69°F	23,453	10.52	2,230	22,948	10.09	2,275	22,444	9.67	2,320	21,940	9.27	2,367
	80°F	74°F	/	/	/	/	/	/	/	/	/	/	/	/
	86°F	80°F	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS	TWH30CD32AI / TWH30CD32AO

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°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-10°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-5°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	0°F	17,954	13,152	73%	7.99	2,248	19,059	13,961	73%	8.05	2,366	19,611	14,366	73%	7.87	2,491	21,268	15,580	73%	7.75	2,746
	5°F	18,964	13,939	74%	8.07	2,349	20,113	14,783	74%	8.14	2,472	20,688	15,206	74%	7.95	2,602	22,412	16,473	74%	7.81	2,869
	10°F	20,356	15,014	74%	8.64	2,356	21,562	15,903	74%	8.69	2,480	22,165	16,348	74%	8.49	2,611	23,975	17,682	74%	8.33	2,878
	15°F	20,795	15,389	74%	8.73	2,382	22,001	16,281	74%	8.77	2,507	22,604	16,727	74%	8.56	2,639	24,412	18,065	74%	8.39	2,910
	20°F	21,227	15,762	74%	8.60	2,469	22,440	16,663	74%	8.64	2,599	23,047	17,113	74%	8.43	2,735	24,866	18,464	74%	8.25	3,016
	25°F	21,549	16,054	75%	8.56	2,516	22,763	16,958	74%	8.59	2,649	23,370	17,411	75%	8.38	2,788	25,191	18,767	74%	8.19	3,074
	30°F	21,926	16,392	75%	8.48	2,585	23,120	17,284	75%	8.50	2,721	23,716	17,730	75%	8.28	2,865	25,506	19,068	75%	8.08	3,158
	35°F	22,370	16,777	75%	8.55	2,617	23,547	17,661	75%	8.55	2,755	24,136	18,102	75%	8.32	2,900	25,902	19,427	75%	8.10	3,197
	40°F	24,535	18,464	75%	9.14	2,684	25,802	19,417	75%	9.13	2,825	26,435	19,893	75%	8.89	2,974	28,334	21,323	75%	8.64	3,279
	45°F	25,586	19,317	75%	9.22	2,776	26,882	20,296	75%	9.20	2,922	27,529	20,785	75%	8.95	3,076	29,473	22,252	76%	8.69	3,391
	50°F	26,763	20,275	76%	9.38	2,852	28,077	21,270	76%	9.35	3,002	28,733	21,768	76%	9.09	3,160	30,704	23,260	76%	8.81	3,484
	55°F	27,386	20,814	76%	9.42	2,908	28,690	21,805	76%	9.37	3,061	29,343	22,300	76%	9.11	3,222	31,299	23,787	76%	8.81	3,552
	60°F	28,303	21,583	76%	9.59	2,952	29,611	22,581	76%	9.53	3,108	30,266	23,080	76%	9.25	3,271	32,229	24,577	76%	8.94	3,607
	65°F	28,671	21,933	76%	9.49	3,022	29,959	22,919	76%	9.42	3,181	30,604	23,412	76%	9.14	3,348	32,537	24,890	77%	8.81	3,691
	70°F	29,511	22,653	77%	9.67	3,053	30,780	23,627	77%	9.58	3,214	31,415	24,114	77%	9.29	3,383	33,319	25,576	77%	8.93	3,730
	75°F	30,438	23,438	77%	9.86	3,087	31,694	24,404	77%	9.75	3,249	32,321	24,887	77%	9.45	3,420	34,204	26,337	77%	9.07	3,771
	80°F	30,742	23,749	77%	9.47	3,246	31,990	24,714	77%	9.36	3,416	32,614	25,196	77%	9.07	3,596	34,487	26,642	77%	8.70	3,965
	85°F	31,609	24,497	77%	9.50	3,326	32,873	25,477	78%	9.39	3,501	33,505	25,967	78%	9.09	3,685	35,402	27,437	78%	8.71	4,063
	90°F	32,172	25,011	78%	9.43	3,411	33,499	26,043	78%	9.33	3,590	34,162	26,559	78%	9.04	3,779	36,152	28,106	78%	8.68	4,166
	95°F	32,998	25,738	78%	9.46	3,488	34,402	26,833	78%	9.37	3,672	35,104	27,381	78%	9.08	3,865	37,210	29,024	78%	8.73	4,261
	100°F	32,852	25,704	78%	9.21	3,566	34,288	26,828	78%	9.13	3,753	35,006	27,390	78%	8.86	3,951	37,160	29,075	78%	8.53	4,356
	105°F	31,943	25,076	79%	8.73	3,657	33,379	26,203	79%	8.67	3,850	34,097	26,766	78%	8.41	4,052	36,250	28,457	79%	8.11	4,467
	110°F	31,757	25,007	79%	8.52	3,729	33,209	26,151	79%	8.46	3,926	33,935	26,722	79%	8.21	4,132	36,112	28,437	79%	7.93	4,556
	115°F	29,724	23,482	79%	7.91	3,757	31,107	24,575	79%	7.87	3,955	31,798	25,121	79%	7.64	4,163	33,872	26,759	79%	7.38	4,590
	120°F	27,783	22,015	79%	7.47	3,717	29,130	23,083	79%	7.31	3,987	29,803	23,616	79%	7.10	4,197	31,824	25,218	79%	6.88	4,627
	122°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	125°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	129°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS			TWH30CD32AI / TWH30CD32AO										
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	/	/	/	/	/	/	/	/	/	/	/	/
	-20°F	-20.5°F	/	/	/	/	/	/	/	/	/	/	/	/
	-15°F	-16°F	17,932	5.49	3,269	17,394	5.11	3,402	17,125	4.93	3,471	16,491	4.66	3,540
	-10°F	-11°F	18,584	5.60	3,322	18,027	5.21	3,457	17,748	5.03	3,526	17,131	4.76	3,597
	-5°F	-6°F	19,761	5.92	3,336	19,169	5.52	3,472	18,872	5.33	3,541	18,253	5.05	3,612
	0°F	-1°F	19,818	5.82	3,404	19,224	5.43	3,543	18,926	5.24	3,614	18,335	4.97	3,686
	5°F	3°F	21,214	6.11	3,473	20,578	5.69	3,615	20,259	5.49	3,687	19,655	5.23	3,761
	10°F	8°F	22,917	6.47	3,544	22,229	6.03	3,689	21,886	5.82	3,763	21,269	5.54	3,838
	15°F	13°F	24,264	6.71	3,617	23,536	6.25	3,764	23,172	6.04	3,839	22,550	5.76	3,916
	17°F	15°F	24,390	6.66	3,664	23,658	6.20	3,814	23,292	5.99	3,890	22,695	5.72	3,968
	20°F	17°F	24,502	6.64	3,690	23,767	6.19	3,841	23,399	5.97	3,918	22,799	5.71	3,996
	25°F	22°F	25,954	6.89	3,766	25,176	6.42	3,919	24,786	6.20	3,998	24,174	5.93	4,078
	30°F	27°F	26,675	6.94	3,842	25,875	6.47	3,999	25,475	6.24	4,079	24,857	5.97	4,161
	35°F	33°F	28,516	7.32	3,893	27,660	6.83	4,052	27,232	6.59	4,133	26,584	6.31	4,216
	40°F	36°F	30,340	7.74	3,921	29,430	7.21	4,081	28,975	6.96	4,163	28,338	6.67	4,246
	45°F	41°F	33,645	8.41	4,001	33,706	8.09	4,164	33,185	7.81	4,247	32,479	7.50	4,332
	47°F	43°F	33,885	8.30	4,082	33,313	7.84	4,249	32,891	7.59	4,334	32,847	7.43	4,421
	50°F	46°F	35,376	8.53	4,145	34,723	8.05	4,314	34,000	7.73	4,400	33,773	7.52	4,488
	55°F	50°F	35,846	8.52	4,205	35,841	8.19	4,377	35,287	7.90	4,464	34,536	7.58	4,553
	60°F	55°F	37,316	8.32	4,487	37,234	8.26	4,508	36,641	7.97	4,598	35,829	7.64	4,690
	65°F	60°F	38,303	8.27	4,630	38,225	8.23	4,643	37,633	7.95	4,736	36,806	7.62	4,831
	70°F	64°F	37,415	8.34	4,487	36,293	7.59	4,783	35,731	7.32	4,878	34,937	7.02	4,976
	75°F	69°F	36,196	8.21	4,409	35,110	7.13	4,926	34,567	6.88	5,025	33,790	6.59	5,125
	80°F	74°F	/	/	/	/	/	/	/	/	/	/	/	/
	86°F	80°F	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS	TWH36CD32AI / TWH36CD32AO

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°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-10°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	-5°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	0°F	19,001	13,919	73%	10.52	1,806	20,170	14,775	73%	10.61	1,901	20,755	15,204	73%	10.37	2,001	22,509	16,488	73%	10.20	2,207
	5°F	20,070	14,751	74%	10.63	1,887	21,286	15,645	74%	10.72	1,987	21,894	16,092	74%	10.47	2,091	23,719	17,433	74%	10.29	2,305
	10°F	21,543	15,889	74%	11.38	1,893	22,819	16,831	74%	11.45	1,993	23,458	17,301	74%	11.18	2,098	25,373	18,714	74%	10.97	2,313
	15°F	22,008	16,286	74%	11.50	1,914	23,284	17,230	74%	11.56	2,015	23,922	17,702	74%	11.28	2,121	25,835	19,118	74%	11.05	2,338
	20°F	22,465	16,681	74%	11.32	1,984	23,749	17,634	74%	11.37	2,088	24,391	18,111	74%	11.10	2,198	26,316	19,541	74%	10.86	2,423
	25°F	22,805	16,990	75%	11.28	2,022	24,090	17,947	74%	11.32	2,128	24,733	18,426	75%	11.04	2,240	26,660	19,862	74%	10.79	2,470
	30°F	23,205	17,348	75%	11.17	2,078	24,468	18,292	75%	11.19	2,187	25,099	18,764	75%	10.90	2,302	26,993	20,180	75%	10.64	2,538
	35°F	23,674	17,756	75%	11.26	2,103	24,920	18,690	75%	11.26	2,214	25,543	19,158	75%	10.96	2,330	27,412	20,559	75%	10.67	2,569
	40°F	25,966	19,541	75%	12.04	2,157	27,306	20,549	75%	12.03	2,270	27,976	21,053	75%	11.71	2,390	29,986	22,566	75%	11.38	2,635
	45°F	27,078	20,444	75%	12.14	2,231	28,449	21,479	75%	12.12	2,348	29,135	21,997	75%	11.79	2,472	31,191	23,549	76%	11.45	2,725
	50°F	28,324	21,457	76%	12.36	2,292	29,714	22,510	76%	12.32	2,412	30,409	23,037	76%	11.98	2,539	32,494	24,616	76%	11.61	2,799
	55°F	28,983	22,027	76%	12.40	2,337	30,364	23,076	76%	12.34	2,460	31,054	23,601	76%	11.99	2,589	33,124	25,174	76%	11.60	2,855
	60°F	29,953	22,841	76%	12.63	2,373	31,338	23,897	76%	12.55	2,497	32,031	24,426	76%	12.18	2,629	34,108	26,010	76%	11.77	2,898
	65°F	30,343	23,212	76%	12.50	2,428	31,706	24,255	76%	12.41	2,556	32,388	24,777	76%	12.04	2,690	34,434	26,342	77%	11.61	2,966
	70°F	31,232	23,974	77%	12.73	2,453	32,575	25,005	77%	12.61	2,583	33,247	25,520	77%	12.23	2,718	35,262	27,067	77%	11.77	2,997
	75°F	32,213	24,804	77%	12.99	2,480	33,542	25,827	77%	12.85	2,611	34,206	26,339	77%	12.45	2,748	36,198	27,873	77%	11.95	3,030
	80°F	32,534	25,134	77%	12.47	2,608	33,856	26,155	77%	12.33	2,745	34,516	26,665	77%	11.94	2,890	36,498	28,196	77%	11.46	3,186
	85°F	33,452	25,925	77%	12.52	2,673	34,790	26,962	78%	12.37	2,813	35,459	27,481	78%	11.97	2,961	37,466	29,036	78%	11.48	3,265
	90°F	34,048	26,470	78%	12.42	2,741	35,452	27,561	78%	12.29	2,885	36,154	28,107	78%	11.91	3,037	38,260	29,745	78%	11.43	3,348
	95°F	34,922	27,239	78%	12.46	2,803	36,408	28,398	78%	12.34	2,951	37,151	28,978	78%	11.96	3,106	39,380	30,716	78%	11.50	3,424
	100°F	34,767	27,203	78%	12.13	2,865	36,287	28,392	78%	12.03	3,016	37,047	28,987	78%	11.67	3,175	39,327	30,771	78%	11.24	3,500
	105°F	33,806	26,538	79%	11.50	2,939	35,326	27,731	79%	11.42	3,093	36,085	28,327	78%	11.08	3,256	38,364	30,116	79%	10.69	3,590
	110°F	33,609	26,466	79%	11.21	2,997	35,145	27,676	79%	11.14	3,155	35,914	28,280	79%	10.82	3,321	38,218	30,095	79%	10.44	3,661
	115°F	31,458	24,852	79%	10.42	3,019	32,921	26,008	79%	10.36	3,178	33,652	26,585	79%	10.06	3,345	35,847	28,319	79%	9.72	3,688
	120°F	29,403	23,299	79%	9.84	2,987	30,829	24,429	79%	9.62	3,204	31,541	24,993	79%	9.35	3,372	33,680	26,688	79%	9.06	3,718
	122°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	125°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	129°F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com

EXTENDED RATINGS			TWH36CD32AI / TWH36CD32AO										
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	/	/	/	/	/	/	/	/	/	/	/	/
	-20°F	-20.5°F	/	/	/	/	/	/	/	/	/	/	/	/
	-15°F	-16°F	17,986	9.27	1,940	17,446	8.64	2,019	17,176	8.34	2,060	16,540	7.87	2,101
	-10°F	-11°F	18,640	9.46	1,971	18,081	8.81	2,052	17,802	8.51	2,093	17,182	8.05	2,135
	-5°F	-6°F	19,821	10.01	1,980	19,226	9.33	2,060	18,929	9.01	2,102	18,308	8.54	2,144
	0°F	-1°F	19,878	9.84	2,020	19,281	9.17	2,102	18,983	8.85	2,145	18,390	8.41	2,187
	5°F	3°F	21,278	10.32	2,061	20,640	9.62	2,145	20,320	9.29	2,188	19,714	8.83	2,232
	10°F	8°F	22,986	10.93	2,103	22,296	10.18	2,189	21,951	9.83	2,233	21,333	9.37	2,278
	15°F	13°F	24,337	11.34	2,146	23,607	10.57	2,234	23,242	10.20	2,279	22,618	9.73	2,324
	17°F	15°F	24,463	11.25	2,174	23,729	10.48	2,263	23,362	10.12	2,308	22,763	9.67	2,355
	20°F	17°F	24,576	11.22	2,190	23,838	10.46	2,279	23,470	10.09	2,325	22,868	9.64	2,372
	25°F	22°F	26,033	11.65	2,235	25,252	10.86	2,326	24,861	10.48	2,372	24,247	10.02	2,420
	30°F	27°F	26,756	11.73	2,280	25,953	10.93	2,373	25,552	10.55	2,421	24,932	10.10	2,469
	35°F	33°F	28,601	12.38	2,311	27,743	11.54	2,405	27,314	11.14	2,453	26,664	10.66	2,502
	40°F	36°F	30,432	13.08	2,327	29,519	12.19	2,422	29,062	11.76	2,470	28,423	11.28	2,520
	45°F	41°F	33,746	14.21	2,374	33,808	13.68	2,471	33,285	13.20	2,521	32,577	12.67	2,571
	47°F	43°F	33,987	14.03	2,423	33,413	13.25	2,522	32,990	12.83	2,572	32,946	12.56	2,624
	50°F	46°F	35,482	14.42	2,460	34,827	13.60	2,560	34,102	13.06	2,611	33,875	12.72	2,664
	55°F	50°F	35,954	14.41	2,496	35,949	13.84	2,597	35,393	13.36	2,649	34,640	12.82	2,702
	60°F	55°F	37,428	14.05	2,663	37,346	13.96	2,675	36,751	13.47	2,729	35,937	12.91	2,783
	65°F	60°F	38,419	13.98	2,748	38,340	13.91	2,756	37,747	13.43	2,811	36,917	12.88	2,867
	70°F	64°F	37,528	14.09	2,663	36,402	12.83	2,838	35,839	12.38	2,895	35,042	11.87	2,953
	75°F	69°F	36,304	13.87	2,617	35,215	12.05	2,923	34,671	11.63	2,982	33,892	11.14	3,041
	80°F	74°F	/	/	/	/	/	/	/	/	/	/	/	/
	86°F	80°F	/	/	/	/	/	/	/	/	/	/	/	/

*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**

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All Rights reserved.

www.TOSOT.com