



**OIL FIRED TANK - TYPE WATER HEATERS - MANIFOLDED** **TABLE 1 hr. D**

Model	One Heater		Two Heaters		Three Heaters		Four Heaters	
	Gallons Storage	Gallons Available	Gallons Storage	Gallons Available	Gallons Storage	Gallons Available	Gallons Storage	Gallons Available
COF-199	86	253	172	506	258	760	344	1013
COF-245	86	298	172	596	258	895	344	1193
COF-315	84	364	168	728	252	1091	336	1455
COF-385	75	426	150	851	225	1277	300	1702
COF-455	75	494	150	987	225	1481	300	1974
COF-700	69	727	138	1455	207	2182	276	2909

**METHOD OF CALCULATION:**  
70% of Heater Tank Volume  
+100% Recovery at 100° Rise

**OIL FIRED TANK - TYPE WATER HEATERS WITH AUXILIARY STORAGE TANK** **TABLE 1 hr. E**

Model	Heaters Tank Size In Gallons	Storage Tank Sizes In U.S. Gallons*								
		T-80	T-120	T-140	T-200	T-350	T-400	T-500	T-750	T-1000
COF-199	86	304	336	352	400	520	560	640	840	1040
COF-245	86	346	378	394	442	562	602	682	882	1082
COF-315	84	410	442	458	506	626	666	746	946	1146
COF-385	75	462	494	510	558	678	718	798	998	1198
COF-455	75	526	558	574	622	742	782	862	1062	1262
COF-700	69	749	781	797	845	965	1005	1085	1285	1485

**METHOD OF CALCULATION:**  
80% of Storage Tank Volume  
+70% of Heater Tank Volume  
+100% Recovery at 100° Rise

**COMMERCIAL ELECTRIC BOOSTER WITH AUXILIARY STORAGE TANKS** **TABLE 1 hr. F**

No. of Heaters	Total KW	Storage Tank Size in U. S. Gallons**								
		T-80	T-120	T-140	T-200	T-350	T-400	T-500	T-750	T-1000
1 CMC-6	6	88	120	136	---	---	---	---	---	---
1 CMC-9	9	101	133	149	197	---	---	---	---	---
1 CMC-12	12	113	145	161	209	---	---	---	---	---
1 CMC-15	15	125	157	173	221	341	381	---	---	---
1 CMC-18	18	138	170	186	234	354	394	---	---	---
1 CMC-20	20	146	178	194	242	362	402	482	---	---
1 CMC-24	24	162	194	210	258	378	418	498	---	---
1 CMC-30	30	187	219	235	283	403	443	523	723	---
1 CMC-36	36	211	243	259	307	427	467	547	747	---
1 CMC-45	45	248	280	296	344	464	504	584	784	984
1 CMC-54	54	285	317	333	381	501	541	621	821	1021
2 CMC-30	60	310	342	358	406	526	566	646	846	1046
2 CMC-36	72	359	391	407	455	575	615	695	895	1095
2 CMC-45	90	433	465	481	529	649	689	769	969	1169
2 CMC-54	108	507	539	555	603	723	763	843	1043	1243

**METHOD OF CALCULATION:**  
80% of Storage Tank Volume  
\*100% Recovery at 100° Rise

\*\*For complete selection of storage tanks such as TJ-80 ASME, etc., see AOSTT35100 or AOSTT35200 for insulated tanks.

**COPPER HEAT EXCHANGER TYPE WATER HEATERS WITH AUXILIARY STORAGE TANKS** **TABLE 1 hr. A**

Model	Storage Tank Size in U. S. Gallons*								
	T-80	T-120	T-140	T-200	T-350	T-400	T-500	T-750	T-1000
HW-120M	173	205	221	269	389	429	509	---	---
HW-160M	209	241	257	305	425	465	545	---	---
HW-200M	246	278	294	342	462	502	582	782	---
HW-225M	269	301	317	365	485	525	605	805	1005
HW-300	355	387	403	451	571	611	691	891	1091
HW-399	451	483	499	547	667	707	787	987	1187
HW-420	471	503	519	567	687	727	807	1007	1207
HW-520	568	600	616	664	784	824	904	1104	1304
HW-670	714	746	762	810	930	970	1050	1250	1450

These and other systems are available as factory assembled skid mounted units. See A. O. Smith specifications sheet A 015.0 and A 018.1 for details.

**METHOD OF CALCULATION:**  
80% of Storage Tank Volume  
+100% Recovery at 100° Rise

**GAS FIRED TANK-TYPE WATER HEATERS - MANIFOLDED** **TABLE 1 hr. B**

Model	GPH Recovery	One Heater		Two Heaters		Three Heaters		Four Heaters	
		Gallons Storage	Gallons Available	Gallons Storage	Gallons Available	Gallons Storage	Gallons Available	Gallons Storage	Gallons Available
BT-65	55	48	93	96	187	144	280	192	374
BT-80	68	75	128	150	256	225	384	300	512
BTR-80	80	75	140	150	280	225	420	300	560
BT-100	68	100	148	200	296	300	444	400	592
BTR-100	95	100	175	200	350	300	525	400	700
BTR-120	116	75	176	150	352	225	528	300	704
BTP-139	136	86	205	172	410	258	614	344	819
BTR-154	149	89	220	178	440	267	661	356	881
BTR-179	174	86	243	172	486	258	728	344	971
BTR-197	191	100	271	200	542	300	813	400	1,084
BTR-199	184	84	251	168	502	252	753	336	1,004
BTP-199	193	86	262	172	524	258	785	344	1,047
BTR-200	193	100	273	200	546	300	819	400	1,092
BTR-240	233	100	313	200	626	300	939	400	1,252
BTR-250	242	100	322	200	644	300	966	400	1,288
BTR-251	236	75	296	150	592	225	888	300	1,184
BTP-270	262	86	331	172	662	258	992	344	1,323
BTR-275	267	100	347	200	694	300	1,041	400	1,388
BTR-305	296	75	356	150	712	225	1,068	300	1,424
BTR-365	354	69	409	138	818	207	1,228	276	1,637
BTP-370	359	75	419	150	838	225	1,257	300	1,676
BTR-400	377	100	457	200	914	300	1,371	400	1,828
BTR-500	467	69	522	138	1,044	207	1,567	276	2,089
BTP-540	524	69	579	138	1,158	207	1,738	276	2,317
BTP-700	679	69	734	138	1,468	207	2,203	276	2,937

**METHOD OF CALCULATION:** 80% of Storage Tank Volume +100% Recovery at 100° Rise.

**GAS FIRED TANK-TYPE WATER HEATERS WITH AUXILIARY STORAGE TANKS** **TABLE 1 hr. C**

Model	GPH Recovery	Heaters Tank Size in Gallons	Storage Tank Sizes in U. S. Gallons*								
			T-80	T-120	T-140	T-200	T-350	T-400	T-500	T-750	T-1000
BT-65	55	48	157	189	205	253	373	413	493	---	---
BT-80	68	75	192	224	240	288	408	448	528	---	---
BTR-80	80	75	204	236	252	300	420	460	540	---	---
BT-100	68	100	212	244	260	308	428	468	548	---	---
BTR-100	95	100	239	271	287	335	455	495	575	---	---
BTR-120	116	75	240	272	288	336	456	496	576	---	---
BTP-139	136	86	269	301	317	365	485	525	605	---	---
BTR-154	149	89	284	316	332	380	500	540	620	---	---
BTR-179	174	86	307	339	355	403	523	563	643	843	---
BTR-197	191	100	335	367	383	431	551	591	671	871	---
BTR-199	184	84	315	347	363	411	531	571	651	851	---
BTP-199	193	86	326	358	374	422	542	582	662	862	---
BTR-200	193	100	337	369	385	433	553	593	673	873	---
BTR-240	233	100	377	409	425	473	593	633	713	913	1,113
BTR-250	242	100	386	418	434	482	602	642	722	922	1,122
BTR-251	236	75	360	392	408	456	576	616	696	896	1,096
BTP-270	262	86	395	427	443	491	611	651	731	931	1,131
BTR-275	267	100	411	443	459	507	627	667	747	947	1,147
BTR-305	296	75	420	452	468	516	636	676	756	956	1,156
BTR-365	354	69	473	505	521	569	689	729	809	1,009	1,209
BTP-370	359	75	483	515	531	579	699	739	819	1,019	1,219
BTR-400	377	100	521	553	569	617	737	777	857	1,057	1,257
BTR-500	467	69	586	618	634	682	802	842	922	1,122	1,322
BTP-540	524	69	643	675	691	739	859	899	979	1,179	1,379
BTP-700	679	69	798	830	846	894	1,014	1,054	1,134	1,334	1,534

\*For complete selection of storage tanks such as TJ-80 ASME, etc., see AOSTT35100 or AOSTT35200 for insulated tanks

**METHOD OF CALCULATION:**  
80% of Storage Tank Volume  
+100% Recovery at 100° Rise

