



THREE HOUR AVAILABILITY
TABLE - GALLONS

COPPER HEAT EXCHANGER TYPE WATER HEATERS WITH AUXILIARY STORAGE TANKS

TABLE 3 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	391	423	439	487	607	647	727		
HW-160M	499	531	547	595	715	755	835		
HW-200M	610	642	658	706	826	866	946	1,146	
HW-225M	679	711	727	775	895	935	1,015	1,215	1,415
HW-300	937	969	985	1,033	1,153	1,193	1,273	1,473	1,673
HW-399	1,225	1,257	1,273	1,321	1,441	1,481	1,561	1,761	1,961
HW-420	1,285	1,317	1,333	1,381	1,501	1,541	1,621	1,821	2,021
HW-520	1,576	1,608	1,624	1,672	1,792	1,832	1,912	2,112	2,312
HW-670	2,014	2,046	2,062	2,110	2,230	2,270	2,350	2,550	2,750

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

METHOD OF CALCULATION: 80% of heater/tank volume plus 3 x 100% recovery at 100° Rise.

GAS FIRED TANK - TYPE WATER HEATERS - MANIFOLDED

TABLE 3 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	203	96	407	144	610	192	814
BT-80	68	75	264	150	528	225	792	300	1,056
BTC-80	80	75	300	150	600	225	900	300	1,200
BT-100	68	100	284	200	568	300	852	400	1,136
BTC-100	95	100	365	200	730	300	1,095	400	1,460
BTC-120	116	75	408	150	816	225	1,224	300	1,632
BTP-139	136	86	477	172	954	258	1,430	344	1,907
BTC-154	149	89	518	178	1,036	267	1,555	356	2,073
BTH-150/BTC-179	174	86	591	172	1,182	258	1,772	344	2,363
BTC-197	191	100	653	200	1,306	300	1,959	400	2,612
BTC-199	184	84	619	168	1,238	252	1,858	336	2,477
BTP-199	193	86	648	172	1,296	258	1,943	344	2,591
BTC-200	193	100	659	200	1,318	300	1,977	400	2,636
BTH-199/BTC-240	233	100	779	200	1,558	300	2,337	400	3,116
BTC-250	242	100	806	200	1,612	300	2,418	400	3,224
BTC-251	236	75	768	150	1,536	225	2,304	300	3,072
BTP-270	262	86	855	172	1,710	258	2,564	344	3,419
BTH-250/BTC-275	267	100	881	200	1,762	300	2,643	400	3,524
BTC-305	296	75	948	150	1,896	225	2,844	300	3,792
BTC-365	354	69	1,117	138	2,234	207	3,352	276	4,469
BTP-370	359	75	1,137	150	2,274	225	3,411	300	4,548
BTC-400	377	100	1,211	200	2,422	300	3,633	400	4,844
BTC-500	467	69	1,456	138	2,912	207	4,369	276	5,825
BTP-540	524	69	1,627	138	3,254	207	4,882	276	6,509
BTP-700	679	69	2,092	138	4,184	207	6,277	276	8,369

METHOD OF CALCULATION: 70% of heater/tank volume plus 3 x 100% recovery at 100° Rise.

GAS FIRED TANK-TYPE WATER HEATERS WITH AUXILIARY STORAGE TANKS

TABLE 3 hr. C

Model	GPH Recovery	Gallons Storage	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	267	299	315	363	483	523	603		
BT-80	68	75	328	360	376	424	544	584	664		
BTC-80	80	75	364	396	412	460	580	620	700		
BT-100	68	100	348	380	396	444	564	604	684		
BTC-100	95	100	429	461	477	525	645	685	765		
BTC-120	116	75	472	504	520	568	688	728	808		
BTP-139	136	86	541	573	589	637	757	797	877		
BTC-154	149	89	582	614	630	678	798	838	918		
BTH-150/BTC-179	174	86	655	687	703	751	871	911	991		
BTC-197	191	100	717	749	765	813	933	973	1,053		
BTC-199	184	84	683	715	731	779	899	939	1,019		
BTP-199	193	86	712	744	760	808	928	968	1,048		
BTC-200	193	100	723	755	771	819	939	979	1,059		
BTH-199/BTC-240	233	100	843	875	891	939	1,059	1,099	1,179		
BTC-250	242	100	870	902	918	966	1,086	1,126	1,206		
BTC-251	236	75	832	864	880	928	1,048	1,088	1,168		
BTP-270	262	86	919	951	967	1,015	1,135	1,175	1,255		
BTH-250/BTC-275	267	100	945	977	993	1,041	1,161	1,201	1,281		
BTC-305	296	75	1,012	1,044	1,060	1,108	1,228	1,268	1,348		
BTC-365	354	69	1,181	1,213	1,229	1,277	1,397	1,437	1,517	1,717	
BTP-370	359	75	1,201	1,233	1,249	1,297	1,417	1,457	1,537	1,737	
BTC-400	377	100	1,275	1,307	1,323	1,371	1,491	1,531	1,611	1,811	
BTC-500	467	69	1,520	1,552	1,568	1,616	1,736	1,776	1,856	2,056	2,256
BTP-540	524	69	1,691	1,723	1,739	1,787	1,907	1,947	2,027	2,227	2,427
BTP-700	679	69	2,156	2,188	2,204	2,252	2,372	2,412	2,492	2,692	2,892

*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 plus 70% of heater tank storage plus 3 x 100% recovery at 100° rise.



METHOD OF CALCULATION:
 80% of heater/tank volume
 plus 3x100% recovery @ 100° rise

COMMERCIAL ELECTRIC STORAGE TYPE WATER HEATERS
 (US GALLONS)

Model Number		DRE-52	DRE-80				DRE-120				DVE-52	DVE-80				
Storage Capacity		52	80	160	240	320	119	238	357	476	52	80	160	240	320	
Number of Heaters		1	1	2	3	4	1	2	3	4	1	1	2	3	4	
KW EACH HEATER	6	---	---	---	---	---	---	---	---	---	115	138	276	414	552	
	9	152	175	350	525	700	207	414	621	828	152	175	350	525	700	
	12	188	211	422	633	844	243	486	729	972	188	211	422	633	844	
	13.5	---	---	---	---	---	---	---	---	---	207	230	460	690	920	
	15	226	248	496	744	922	280	560	840	1120	226	248	496	744	922	
	18	262	285	570	855	1140	317	634	951	1268	262	285	570	855	1140	
	24	336	359	718	1077	1436	391	782	1173	1564	336	359	718	1077	1436	
	27	373	396	792	1188	1584	428	856	1284	1712	373	396	792	1188	1584	
	30	411	433	866	1299	1732	465	930	1395	1860	411	433	866	1299	1732	
	36	484	507	1014	1521	2028	539	1078	1617	2156	484	507	1014	1521	2028	
	40.5		562	1124	1686	2248	594	1188	1782	2376	539	562	1124	1686	2248	
	45		617	1234	1851	2468	649	1298	1947	2596	595	617	1234	1851	2468	
	54		728	1456	2184	2912	760	1520	2280	3040	705	728	1456	2184	2912	
	60															
	75															
	90															
	105															
	120															
	150															
	180															
	210															
	240															
	270															
	300															
	330															
	360															
	390															
	420															
	460															
	480															
510																
540																
570																
600																
630																
660																
690																
720																
780																
800																
840																
900																
990																
1000																
1080																
1200																

THREE HOUR AVAILABILITY
TABLE - GALLONS

TABLE 3 hr. G

DVE-120				DVE-150	DVE-200	DVE-250	DVE-300 or DHE-300	DVE-350 or DHE-350	DVE-400 or DHE-400	DVE-500 or DHE-500	DVE-600 or DHE-600	DVE-700 or DHE-700	DVE-800 or DHE-800	DVE-1000 or DHE-1000
119	238	357	476	150	200	250	300	350	400	500	600	700	800	1000
1	2	3	4	1	1	1	1	1	1	1	1	1	1	1
170	340	510	680											
207	414	621	828											
243	486	729	972											
262	524	786	1048											
280	560	840	1120											
317	634	951	1268											
391	782	1173	1564											
428	856	1284	1712											
465	930	1395	1860	489	529	569								
539	1078	1617	2156	563	603	643	683							
594	1188	1782	2376											
649	1298	1947	2596	673	713	753	793	833	873	953				
760	1520	2280	3040											
				858	898	938	978	1018	1058	1138	1218	1298		
				1042	1082	1122	1162	1202	1242	1322	1402	1482	1562	
				1227	1267	1307	1347	1387	1427	1507	1587	1667	1747	1907
				1411	1451	1491	1531	1571	1611	1691	1771	1851	1931	2091
				1596	1636	1676	1716	1756	1796	1876	1956	2036	2116	2276
				1965	2005	2045	2085	2125	2165	2245	2325	2405	2485	2645
				2334	2374	2414	2454	2494	2534	2614	2694	2774	2854	3014
						2783	2823	2863	2903	2983	3063	3143	3223	3383
						3152	3192	3232	3272	3352	3432	3512	3592	3752
							3561	3601	3641	3721	3801	3881	3961	4121
							3930	3970	4010	4090	4170	4250	4330	4490
									4379	4459	4539	4619	4699	4859
									4748	4828	4908	4988	5068	5228
									5117	5197	5277	5357	5437	5597
									5566	5646	5726	5806	5966	
									6058	6138	6218	6298	6458	
									6304	6384	6464	6544	6704	
										6753	6833	6913	7073	
										7122	7202	7282	7442	
										7491	7571	7651	7811	
										7860	7940	8020	8180	
											8309	8389	8549	
											8678	8758	8918	
											9047	9127	9287	
												9496	9656	
													10394	
													10640	
													11132	
													11870	
													12977	
													13100	
													14084	
													15560	

**THREE HOUR AVAILABILITY
TABLE - GALLONS**

OIL FIRED TANK - TYPE WATER HEATERS - MANIFOLDED

TABLE 3 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	639	172	1278	258	1918	344	2557
COF-245	86	774	172	1548	258	2323	344	3097
COF-315	84	974	168	1948	252	2921	336	3895
COF-385	75	1172	150	2343	225	3515	300	4686
COF-455	75	1376	150	2751	225	4127	300	5502
COF-700	69	2085	138	4171	207	6256	276	8341

METHOD OF CALCULATION:
70% of Heater Tank Volume
Plus 3 x 100% Recovery at 100° Rise

**OIL FIRED TANK - TYPE WATER HEATERS
WITH AUXILIARY STORAGE TANK**

TABLE 3 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	703	735	751	799	919	959	1039	1239	1439
COF-245	86	838	870	886	934	1054	1094	1174	1374	1574
COF-315	84	1038	1071	1087	1135	1255	1295	1375	1575	1775
COF-385	75	1236	1275	1291	1339	1459	1499	1579	1779	1979
COF-455	75	1440	1479	1495	1543	1663	1703	1783	1983	2183
COF-700	69	2149	2193	2209	2257	2377	2417	2497	2697	2897

METHOD OF CALCULATION:
80% of Storage Tank Volume
Plus 70% of Heater Tank Volume
Plus 3 x 100% at 100° Rise

**COMMERCIAL ELECTRIC BOOSTER
WITH AUXILIARY STORAGE TANKS**

TABLE 3 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	138	170	186						
1 CMC-9	9	175	207	223	271					
1 CMC-12	12	211	243	259	307					
1 CMC-15	15	248	280	296	344	464	504			
1 CMC-18	18	285	317	333	381	501	541			
1 CMC-20	20	310	342	358	406	526	566	646		
1 CMC-24	24	359	391	407	455	575	615	695		
1 CMC-30	30	433	465	481	529	649	689	769		
1 CMC-36	36	507	539	555	603	723	763	843		
1 CMC-45	45	617	649	665	713	833	873	953		
1 CMC-54	54	728	760	776	824	944	984	1064		
2 CMC-30	60	801	833	849	897	1012	1057	1137	1337	1537
2 CMC-36	72	949	981	997	1045	1165	1205	1285	1485	1685
2 CMC-45	90	1170	1202	1218	1266	1386	1426	1506	1706	1906
2 CMC-54	108	1392	1424	1440	1488	1608	1648	1728	1928	2128

METHOD OF CALCULATION:
80% of Storage Tank Volume
Plus 3 x 100% Recovery at 100° Rise

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