

# Selection Table For "A" Steam-To-Water Heaters

Tables 1-4 show typical selections for applications for with four different temperature rises and with seven different steam pressures.

NOTE: Valve in inches follows the letter in the designation. The trap size in inches follows the hyphen.

**50—120 deg F (70 degree) Water Temperature Rise**

**TABLE 1A**

ELGE Model	HW GPM	MBH /HR	Steam 5 psi In / 1 psi Out				10 psi in / 2 psi out				15 psi In / 5 psi Out				25 psi In / 10 psi Out			
			PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap
A11	10	350	364	S1.25	P1.25	T1-0.75	367	S1.25	P1.25	T1-0.75	370	S1.25	P1.25	T1-0.75	375	S1.00	P1.00	T2-0.75
A21	15	525	546	S1.50	P1.50	T1-0.75	551	S1.50	P1.50	T1-0.75	555	S1.50	P1.50	T1-0.75	562	S1.25	P1.25	T2-1.00
A31	20	700	729	S1.50	P1.50	T1-1.00	735	S1.50	P1.50	T1-1.00	740	S2.00	P2.00	T1-1.00	750	S1.50	P1.50	T2-1.25
A41	30	1050	1093	S2.00	P2.00	T1-1.25	1102	S2.00	P2.00	T1-1.25	1111	S2.00	P2.00	T1-1.25	1125	S2.00	P2.00	T2-1.50
A51	40	1400	1458	S2.50	P2.50	T1-1.50	1470	S2.50	P2.50	T1-1.50	1481	S2.50	P2.50	T1-1.50	1500	S2.00	P2.00	T2-2.00
A61	50	1750	1822	S3.00	P3.00	T1-2.00	1838	S3.00	P2.50	T1-1.50	1851	S3.00	P3.00	T1-1.50	1875	S2.50	P2.50	T2-2.00
A71	60	2100	2187	S3.00	P3.00	T1-2.00	2205	S3.00	P3.00	T1-2.00	2222	S3.00	P3.00	T1-2.00	2250	S2.50	P2.50	T2-2.00
A81	80	2800	2917	S4.00	P4.00	T1-2.00	2941	S4.00	P4.00	T1-2.00	2963	S4.00	P4.00	T1-2.00	3001	S3.00	P3.00	T2-2.00

**50—140 deg F (90 degree) Water Temperature Rise**

**TABLE 2A**

ELGE Model	HW GPM	MBH /HR	Steam 5 psi In / 1 psi Out				10 psi in / 2 psi out				15 psi In / 5 psi Out				25 psi In / 10 psi Out			
			PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap
A11	10	450	468	S1.50	P1.50	T1-0.75	472	S1.25	P1.25	T1-0.75	476	S1.25	P1.25	T1-0.75	482	S1.25	P1.25	T2-0.75
A21	15	675	703	S2.00	P2.00	T1-1.00	709	S1.50	P1.50	T1-1.00	714	S1.50	P1.50	T1-1.00	562	S1.25	P1.25	T2-1.00
A31	20	900	937	S2.00	P2.00	T1-1.00	945	S2.00	P2.00	T1-1.00	952	S2.00	P2.00	T1-1.00	750	S1.50	P1.50	T2-1.00
A41	30	1350	1406	S2.50	P2.50	T1-1.25	1418	S2.50	P2.50	T1-1.00	1428	S2.50	P2.50	T1-1.00	1125	S2.00	P2.00	T2-1.25
A51	40	1800	1875	S2.50	P2.50	T1-1.50	1890	S2.50	P2.50	T1-1.50	1904	S2.50	P2.50	T1-1.25	1500	S2.00	P2.00	T2-1.50
A61	50	2250	2343	S3.00	P3.00	T1-1.50	2363	S2.50	P2.50	T1-1.50	2381	S2.50	P2.50	T1-1.25	1875	S2.50	P2.50	T2-1.50
A71	60	2700	2812	S3.00	P3.00	T1-2.00	2836	S3.00	P3.00	T1-1.50	2857	S2.50	P2.50	T1-1.50	2250	S2.50	P2.50	T2-2.00
A81	80	3600	3750	S4.00	P4.00	T1-2.00	3781	S4.00	P4.00	T1-2.00	3809	S3.00	P3.00	T1-1.50	3001	S3.00	P3.00	T2-2.00

**40—120 deg F (80 degree) Water Temperature Rise**

**TABLE 3A**

ELGE Model	HW GPM	MBH /HR	Steam 5 psi In / 1 psi Out				10 psi in / 2 psi out				15 psi In / 5 psi Out				25 psi In / 10 psi Out			
			PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap
A11	10	400	416	S1.25	P1.25	T1-0.75	418	S1.00	P1.00	T1-0.75	423	S1.00	P1.00	T1-0.75	428	S1.00	P1.00	T2-0.75
A21	15	600	625	S1.50	P1.50	T1-0.75	630	S1.25	P1.25	T1-0.75	634	S1.25	P1.25	T1-1.00	643	S1.25	P1.25	T2-1.00
A31	20	800	834	S1.50	P1.50	T1-1.00	840	S1.50	P1.50	T1-1.00	846	S1.50	P1.50	T1-1.00	857	S1.50	P1.50	T2-1.00
A41	30	1200	1250	S2.00	P2.00	T1-1.25	1260	S2.00	P2.00	T1-1.00	1269	S2.00	P2.00	T1-1.00	1286	S2.00	P2.00	T2-1.25
A51	40	1600	1667	S2.50	P2.50	T1-1.25	1680	S2.00	P2.00	T1-1.25	1693	S2.00	P2.00	T1-1.25	1714	S2.00	P2.00	T2-1.25
A61	50	2000	2083	S2.50	P2.50	T1-1.50	2100	S2.50	P2.50	T1-1.50	2116	S2.50	P2.50	T1-1.25	2143	S2.50	P2.50	T2-1.50
A71	60	2400	2500	S3.00	P3.00	T1-2.00	2521	S2.50	P2.50	T1-1.50	2539	S2.50	P2.50	T1-1.50	2572	S2.50	P2.50	T2-2.00
A81	80	3200	3334	S4.00	P4.00	T1-2.00	3361	S3.00	P3.00	T1-2.00	3386	S3.00	P3.00	T1-2.00	3429	S3.00	P3.00	T2-2.00

**40—140 deg F (100 degree) Water Temperature Rise**

**TABLE 4A**

ELGE Model	HW GPM	MBH /HR	Steam 5 psi In / 1 psi Out				10 psi in / 2 psi out				15 psi In / 5 psi Out				25 psi In / 10 psi Out			
			PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap
A11	10	500	520	S1.25	P1.25	T1-0.75	525	S1.25	P1.25	T1-0.75	529	S1.25	P1.25	T1-1.25	535	S1.25	P1.25	T2-0.75
A21	15	750	781	S1.50	P1.50	T1-1.00	787	S1.50	P1.50	T1-1.00	794	S1.50	P1.50	T1-1.25	803	S1.50	P1.50	T2-1.00
A31	20	1000	1042	S2.00	P2.00	T1-1.00	1049	S1.50	P1.50	T1-1.00	1058	S1.50	P1.50	T1-1.50	1071	S2.00	P2.00	T2-1.00
A41	30	1500	1562	S2.50	P2.50	T1-1.25	1574	S2.00	P2.00	T1-1.25	1587	S2.00	P2.00	T1-1.50	1606	S2.00	P2.00	T2-1.25
A51	40	2000	2083	S2.50	P2.50	T1-1.50	2099	S2.50	P2.50	T1-1.50	2116	S2.50	P2.50	T1-1.50	2141	S2.50	P2.50	T2-1.25
A61	50	2500	2603	S3.00	P3.00	T1-1.50	2623	S2.50	P2.50	T1-1.50	2646	S2.50	P2.50	T1-1.50	2677	S2.50	P2.50	T2-1.50
A71	60	3000	3124	S3.00	P3.00	T1-2.00	3149	S3.00	P3.00	T1-2.00	3175	S3.00	P3.00	T1-2.00	3212	S3.00	P3.00	T2-1.50
A81	80	3500	4166	S4.00	P4.00	T1-2.00	4199	S4.00	P4.00	T1-2.00	4238	S4.00	P4.00	T1-2.00	4283	S3.00	P3.00	T2-2.00

NOTE: All capacities are based on a fouling factor of .0003 or a minimum of 20% addition capacity (oversized).

# Selection Table For "A" Steam-To-Water Heaters

Tables 1-4 show typical selections for applications for with four different temperature rises and with seven different steam pressures.

NOTE: Valve in inches follows the letter in the designation. The trap size in inches follows the hyphen.

**50—120 deg F (70 degree) Water Temperature Rise**

**TABLE 1B**

50 psi In/ 15 psi Out				75 psi In / 25 psi Out				100 psi In / 50 psi Out				PD psi	HW GPM	ELGE Model
PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap			
384	S0.75	P0.75	T3-0.75	391	S0.50	P0.50	T3-0.75	398	S0.50	P0.50	T4-0.75	2.6	10	A11
576	S0.75	P0.75	T3-1.00	587	S0.75	P0.75	T3-1.00	597	S0.50	P0.50	T4-0.75	3.3	15	A21
768	S1.00	P1.00	T3-1.00	783	S0.75	P0.75	T3-1.00	796	S0.75	P0.75	T4-1.00	3.1	20	A31
1152	S1.25	P1.25	T3-1.25	1174	S1.00	P1.00	T3-1.25	1194	S0.75	P0.75	T4-1.25	3.1	30	A41
1536	S1.50	P1.50	T3-1.50	1566	S1.25	P1.25	T3-1.50	1592	S1.00	P1.00	T4-1.50	2.6	40	A51
1920	S2.00	P2.00	T3-1.50	1957	S1.25	P1.25	T3-1.50	1990	S1.25	P1.25	T4-1.50	2.4	50	A61
2305	S2.00	P2.00	T3-2.00	2349	S1.50	P1.50	T3-2.00	2389	S1.25	P1.25	T4-1.50	1.8	60	A71
3073	S2.00	P2.00	T3-2.00	3132	S2.00	S2.00	T3-2.00	3185	S1.50	P1.50	T4-2.00	2.0	80	A81

**50—140 deg F (90 degree) Water Temperature Rise**

**TABLE 2B**

50 psi In/ 15 psi Out				75 psi In / 25 psi Out				100 psi In / 50 psi Out				PD psi	HW GPM	ELGE Model
PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap			
493	S0.75	P0.75	T3-0.75	503	S0.50	P0.50	T3-0.75	511	S0.50	P0.50	T4-0.75	2.6	10	A11
740	S1.00	P1.00	T3-1.00	755	S0.75	P0.75	T3-1.00	767	S0.75	P0.75	T4-0.75	3.3	15	A21
987	S1.25	P1.25	T3-1.25	1006	S1.00	P1.00	T3-1.00	1023	S0.75	P0.75	T4-1.00	3.1	20	A31
1482	S1.50	P1.50	T3-1.50	1510	S1.25	P1.25	T3-1.25	1535	S1.00	P1.00	T4-1.50	3.1	30	A41
1975	S2.00	P2.00	T3-1.50	2013	S1.25	P1.25	T3-1.50	2047	S1.25	P1.25	T4-1.50	2.6	40	A51
2469	S2.00	P2.00	T3-2.00	2516	S1.50	P1.50	T3-1.50	2559	S1.25	P1.25	T4-2.00	2.4	50	A61
2963	S2.00	P2.00	T3-2.00	3020	S2.00	P2.00	T3-2.00	3071	S1.50	P1.50	T4-2.00	1.8	60	A71
3951	S2.50	P2.50	T3-2.00	4026	S2.00	P2.00	T3-2.00	4095	S2.00	P2.00	T4-2.00	2.0	80	A81

**40—120 deg F (80 degree) Water Temperature Rise**

**TABLE 3A**

50 psi In/ 15 psi Out				75 psi In / 25 psi Out				100 psi In / 50 psi Out				PD psi	HW GPM	ELGE Model
PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap			
439	S0.75	P0.75	T3-0.75	447	S0.50	P0.50	T3-0.75	455	S0.50	P0.50	T4-0.75	2.6	10	A11
658	S0.75	P0.75	T3-1.00	671	S0.75	P0.75	T3-1.00	682	S0.75	P0.75	T4-1.25	3.3	15	A21
878	S1.00	P1.00	T3-1.25	894	S0.75	P0.75	T3-1.00	910	S0.75	P0.75	T4-1.25	3.1	20	A31
1317	S1.25	F1.25	T3-1.50	1342	S1.00	P1.00	T3-1.25	1365	S1.00	P1.00	T4-1.50	3.1	30	A41
1756	S1.50	P1.50	T3-1.25	1789	S1.25	P1.25	T3-1.50	1820	S1.25	P1.25	T4-1.50	2.6	40	A51
2195	S2.00	P2.00	T3-1.50	2237	S1.50	P1.50	T3-1.50	2275	S1.25	P1.25	T4-2.00	2.4	50	A61
2634	S2.00	P2.00	T3-2.00	2684	S1.50	P1.50	T3-2.00	2730	S1.50	S1.50	T4-2.00	1.8	60	A71
3512	S2.50	P2.50	T3-2.00	3579	S2.00	P2.00	T3-2.00	3640	S2.00	P2.00	T4-2.00	2.0	80	A81

**40—140 deg F (100 degree) Water Temperature Rise**

**TABLE 4B**

50 psi In/ 15 psi Out				75 psi In / 25 psi Out				100 psi In / 50 psi Out				PD psi	HW GPM	ELGE Model
PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap	PPH	S valve	P valve	Trap			
548	S0.75	P0.75	T3-1.25	559	S0.75	P0.75	T3-1.00	568	S0.50	P0.50	T4-0.75	2.6	10	A11
822	S1.00	P1.00	T3-1.25	838	S1.00	P1.00	T3-1.00	852	S0.75	P0.75	T4-1.25	3.3	15	A21
1096	S1.25	P1.25	T3-1.25	1117	S1.00	P1.00	T3-1.25	1136	S0.75	P0.75	T4-1.50	3.1	20	A31
1645	S1.50	P1.50	T3-1.25	1676	S1.00	P1.00	T3-1.25	1705	S1.00	P1.00	T4-1.50	3.1	30	A41
2193	S2.00	P2.00	T3-2.00	2235	S1.25	P1.25	T3-2.00	2273	S1.25	P1.25	T4-2.00	2.6	40	A51
2741	S2.00	P2.00	T3-2.00	2793	S1.25	P1.25	T3-2.00	2841	S1.50	P1.50	T4-2.00	2.4	50	A61
3289	S2.00	P2.00	T3-1.50	3352	S1.50	P1.50	T3A-2.00	3409	S1.50	P1.50	T4A-2.00	1.8	60	A71
4390	S2.50	P2.50	T3-1.50	4469	S2.00	P2.00	T3A-2.00	4550	S2.00	S2.00	T4A-2.00	2.0	80	A81



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