

# 23 52 Heating Boilers

## 23 52 13 – Electric Boilers

### 23 52 13.10 Electric Boilers, ASME

		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs Labor	Equipment	Total	Total Incl O&P
0010	<b>ELECTRIC BOILERS, ASME</b> , Standard controls and trim									
1000	Steam, 6 KW, 20.5 MBH	Q-19	1.20	20	Ea.	4,500	1,275		5,775	6,900
1160	60 KW, 205 MBH		1	24		7,150	1,550		8,700	10,200
1220	112 KW, 382 MBH		.75	32		9,900	2,050		11,950	14,000
1280	222 KW, 758 MBH	↓	.55	43.636		24,900	2,800		27,700	31,600
1380	518 KW, 1,768 MBH	Q-21	.36	88.889		32,600	5,850		38,450	44,500
1480	814 KW, 2,778 MBH		.25	128		45,800	8,425		54,225	63,000
1600	2,340 KW, 7,984 MBH	↓	.16	200		103,000	13,200		116,200	132,500
2000	Hot water, 7.5 KW, 25.6 MBH	Q-19	1.30	18.462		5,150	1,175		6,325	7,425
2100	90 KW, 307 MBH		1.10	21.818		6,150	1,400		7,550	8,850
2220	296 KW, 1,010 MBH	↓	.55	43.636		16,200	2,800		19,000	22,100
2500	1,036 KW, 3,536 MBH	Q-21	.34	94.118		36,400	6,200		42,600	49,300
2680	2,400 KW, 8,191 MBH		.25	128		72,500	8,425		80,925	92,500
2820	3,600 KW, 12,283 MBH	↓	.16	200	↓	100,000	13,200		113,200	129,500

## 23 52 23 – Cast-Iron Boilers

### 23 52 23.20 Gas-Fired Boilers

0010	<b>GAS-FIRED BOILERS</b> , Natural or propane, standard controls, packaged									
1000	Cast iron, with insulated jacket									
2000	Steam, gross output, 81 MBH	Q-7	1.40	22.857	Ea.	3,150	1,525		4,675	5,725
2080	203 MBH		.90	35.556		4,125	2,375		6,500	8,100
2180	400 MBH	↓	.56	56.838	↓	5,800	3,800		9,600	12,100
2240	765 MBH	Q-7	.43	74.419	Ea.	11,600	4,975		16,575	20,200
2320	1,875 MBH		.30	107		29,000	7,150		36,150	42,600
2440	4,720 MBH		.15	208		61,500	13,900		75,400	88,000
2480	6,100 MBH		.13	246		87,000	16,500		103,500	120,000
2540	6,970 MBH		.10	320		96,500	21,400		117,900	138,500
3000	Hot water, gross output, 80 MBH		1.46	21.918		2,850	1,475		4,325	5,350
3140	320 MBH		.80	40		4,225	2,675		6,900	8,650
3260	1,088 MBH		.40	80		14,700	5,350		20,050	24,100
3360	2,856 MBH		.20	160		30,700	10,700		41,400	49,800
3380	3,264 MBH		.18	180		32,600	12,000		44,600	54,000
3480	6,100 MBH		.13	250		119,000	16,700		135,700	156,000
3540	6,970 MBH	↓	.09	360		129,000	24,100		153,100	178,000
7000	For tankless water heater, add				↓	10%				

### 23 52 23.30 Gas/Oil Fired Boilers

0010	<b>GAS/OIL FIRED BOILERS</b> , Combination with burners and controls, packaged									
1000	Cast iron with insulated jacket									
2000	Steam, gross output, 720 MBH	Q-7	.43	74.074	Ea.	16,100	4,950		21,050	25,100
2080	1,600 MBH		.30	107		20,000	7,175		27,175	32,700
2140	2,700 MBH		.19	166		26,200	11,100		37,300	45,400
2280	5,520 MBH		.14	235		99,000	15,800		114,800	132,000
2340	6,390 MBH		.11	296		106,000	19,800		125,800	146,000
2380	6,970 MBH	↓	.09	372	↓	112,000	24,900		136,900	160,500
2900	Hot water, gross output									
2910	200 MBH	Q-6	.62	39.024	Ea.	11,700	2,575		14,275	16,700
2920	300 MBH		.49	49.080		11,700	3,225		14,925	17,700
2930	400 MBH		.41	57.971		13,700	3,800		17,500	20,800
2940	500 MBH	↓	.36	67.039		14,800	4,400		19,200	22,900
3000	584 MBH	Q-7	.44	72.072		14,900	4,825		19,725	23,500
3060	1,460 MBH		.28	113		30,800	7,575		38,375	45,200
3160	4,088 MBH		.16	195		68,500	13,100		81,600	95,000
3300	13,500 MBH, 403.3 BHP	↓	.04	727	↓	212,500	48,700		261,200	306,000