

**STANDARD FEATURES AND EQUIPMENT**

- ☆ National boiler pressure vessel supervise regulations
- ☆ Hot water boiler safety technology supervise regulations
- ☆ According to ASME temperature / pressure safety relief valve(s)
- ☆ Automatic, manual reset high limit temperature controller
- ☆ Integral electric control panel with key-locked door
- ☆ Preheat switch (above 240KW) with pilot light
- ☆ Heavy duty steel boiler vessel housing
- ☆ High performance magnetic contactors
- ☆ According to UL834 regulations of USA
- ☆ 120 volt fused control transformer
- ☆ Electric remote temperature controller
- ☆ Temperature /pressure readout
- ☆ Status pilot light for each step
- ☆ Internal branch circuit fuse in
- ☆ Probe-type low water cut-off
- ☆ Power switch and pilot light
- ☆ 75mm fiberglass insulation
- ☆ Flanged inlet and outlet
- ☆ SLC step load controller
- ☆ Pressure gauge with cock
- ☆ Main supply circuit lugs
- ☆ Structural steel base
- ☆ Quick drain valve
- ☆ Incoloy sheathed elements(magnesium oxide power and nickel-chromium 80 resistance wire, temperature-resistant 1500F° /85WSI)



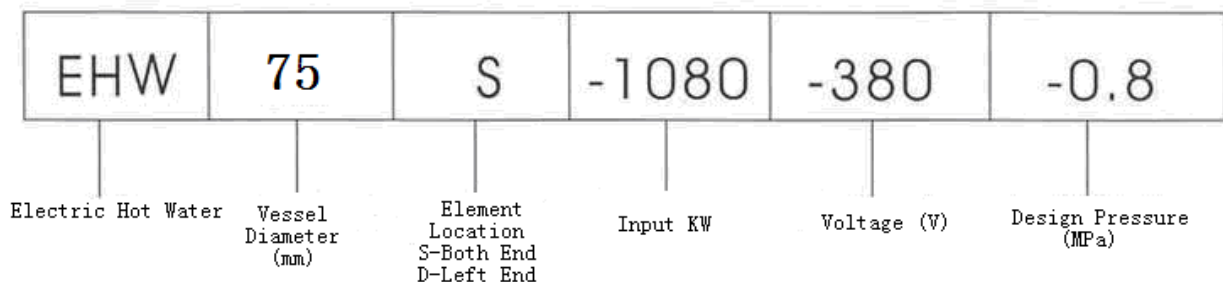
**OPTIONAL EQUIPMENT**

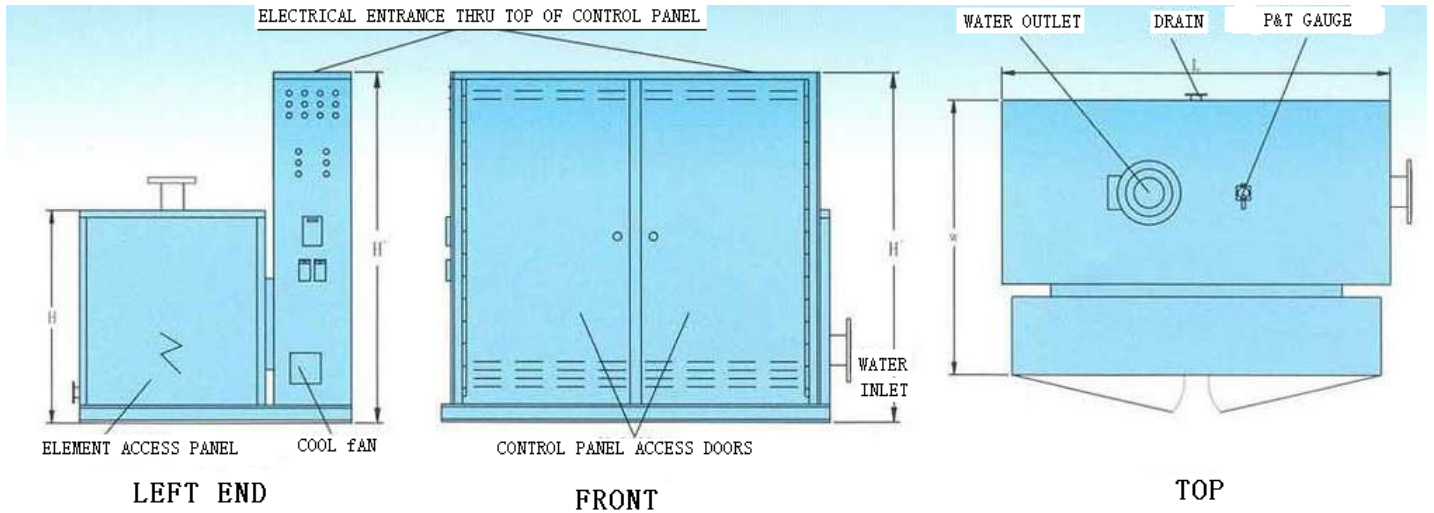
1. Auxiliary Low Water Cut-off (Float or Probe Type) (Manual or Auto Reset)
2. Fused Disconnect or Automatic Breaker Ammeter
3. Building Automation System Interface
4. Alarm Buzzer with Silencing Switch
5. Outsize Inlet/Outlet Connections
6. Low Temperature Switch/Alarm
7. Time Clock (24 hour or 7 day)
8. Ground Fault Detection System
9. Outdoor Reset Control
10. Stainless Steel Construction
11. Auto air Vent (Installed)
12. Main Power Disconnect
13. Safe Door Interlock
14. Flow Switch(Installed)
15. Watt-hour meter
16. Voltmeter

**DIMENSIONAL DATA**

型号	Max Input KW	Output Energy 10 <sup>4</sup> /kcal	Max # of Elements	In/Out Flange	Max Flow (T/h)	Drain (DN)	Tank Data		Dimensions				Weights	
							Dims (mm)	Volume (L)	L	W	H	H'	Ship	Oper
EHW40D	180	13	10	80	35	40	400×1000	117	1350	930	660	980	370	487
EHW40S	210	18	14	80	35	40	400×1000	117	1350	930	660	980	390	507
EHW50D	270	21	16	100	50	40	500×1050	177	1450	990	760	1270	440	617
EHW50S	390	34	26	100	65	40	500×1050	177	1450	990	760	1270	480	657
EHW60D	450	60	30	100	150	40	600×1100	280	1450	1130	890	1370	540	850
EHW60S	690	60	46	150	150	40	600×1100	280	1450	1130	890	1370	580	890
EHW75S	1200	103	80	150	210	40	750×1150	410	1500	1270	1080	1830	860	1440
EHW90S	1500	129	100	200	250	50	900×1250	710	1650	1520	1380	1880	1160	1790
EHW100S	1860	160	124	200	250	50	1000×1250	880	1600	1580	1260	2150	1360	2260
EHW110S	2280	196	152	250	350	50	1100×1300	1090	2000	1780	1480	2200	1630	2830
EHW120S	2640	227	176	250	400	50	1200×1400	1390	1800	1700	1600	2280	2080	3480
EHW130S	3000	258	200	250	400	50	1300×1500	1480	1900	1800	1700	2280	2490	4240

**HOW TO SELECT A MODEL NUMBER**



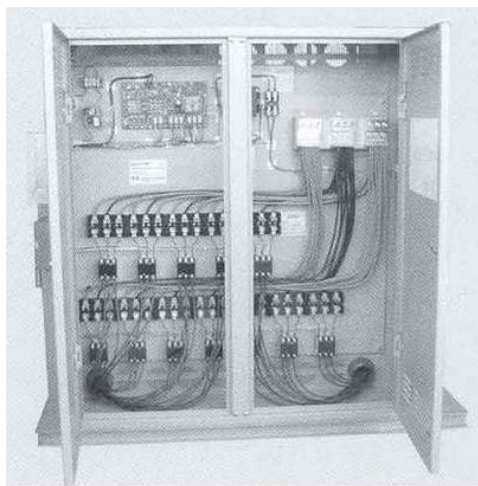


**380 VOLT RATINGS**

Model Number	Elements		Rating (KW)	Numbers of:		Amps 380/3	Model Number	Elements		Rating (KW)	Numbers of:		Amps 380/3
	KW	QTY		Cirs	Steps@KW			KW	QTY		Cirs	Steps@KW	
EHW40D-150	15	11	150	5	1@60 3@30	228	EHW75S-1080	15	72	1080	36	12@90	1642
EHW40D-180	15	12	180	6	6@30	274	EHW75S-1140	15	76	1140	38	4@60 10@9	1733
EHW40S-210	15	14	210	7	1@60 5@30	320	EHW75S-1200	15	80	1200	40	2@60 12@90	1824
EHW50D-240	15	16	240	8	8@30	365	EHW90S-1260	15	84	1260	42	14@90	1915
EHW50D-270	15	18	270	9	1@60 7@30	411	EHW90S-1320	15	88	1320	44	4@60 12@90	2006
EHW50S-300	15	20	300	10	2@60 6@30	457	EHW90S-1380	15	92	1380	46	2@60 14@90	2098
EHW50S-330	15	22	330	11	3@60 5@30	502	EHW90S-1440	15	96	1440	48	16@90	2189
EHW50S-360	15	24	360	12	4@60 4@30	548	EHW90S-1500	15	100	1500	50	4@60 14@90	2280
EHW50S-390	15	26	390	13	5@60 3@30	593	EHW100S-1560	15	104	1560	52	2@60 16@90	2371
EHW60D-420	15	28	420	14	6@60 2@30	639	EHW100S-1620	15	108	1620	54	18@90	2462
EHW60D-450	15	30	450	15	7@60 1@30	685	EHW100S-1680	15	112	1680	56	4@60 16@90	2554
EHW60S-480	15	32	480	16	8@60	730	EHW100S-1740	15	116	1740	58	2@60 18@90	2645
EHW60S-510	15	34	510	17	7@60 3@30	776	EHW100S-1800	15	120	1800	60	20@90	2736
EHW60S-540	15	36	540	18	8@60 2@30	821	EHW100S-1860	15	124	1860	62	4@60 18@90	2827
EHW60S-570	15	38	570	19	9@60 1@30	867	EHW110S-1920	15	128	1920	64	2@60 20@90	2918
EHW60S-600	15	40	600	20	10@60	912	EHW110S-1980	15	132	1980	66	22@90	3009
EHW60S-630	15	42	630	21	3@30 9@60	958	EHW110S-2040	15	136	2040	68	4@60 20@90	3101
EHW60S-660	15	44	660	22	2@30 10@60	1004	EHW110S-2100	15	140	2100	70	2@60 22@90	3192
EHW60S-690	15	46	690	23	1@30 11@60	1409	EHW110S-2160	15	144	2160	72	24@90	3283
EHW75S-720	15	48	720	24	12@60	1095	EHW110S-2220	15	148	2220	74	2@120 22@90	3374
EHW75S-750	15	50	750	25	11@60 1@90	1140	EHW110S-2280	15	152	2280	76	4@120 20@90	3465
EHW75S-780	15	52	780	26	10@60 2@90	1186	EHW120S-2340	15	156	2340	78	6@90 18@90	3556
EHW75S-810	15	54	810	27	9@60 3@90	1231	EHW120S-2400	15	160	2400	80	8@90 16@90	3674
EHW75S-840	15	56	840	28	8@60 4@90	1277	EHW120S-2460	15	164	2460	82	10@120 14@90	3739
EHW75S-870	15	58	870	29	7@60 5@90	1323	EHW120S-2520	15	168	2520	84	12@120 12@90	3830
EHW75S-900	15	60	900	30	6@60 6@90	1368	EHW120S-2580	15	172	2580	86	14@120 10@90	3921
EHW75S-930	15	62	930	31	5@60 7@90	1414	EHW120S-2640	15	176	2640	88	16@120 8@120	4012
EHW75S-960	15	64	960	32	4@60 8@90	1460	EHW130S-2700	15	180	2700	90	18@120 6@90	4103
EHW75S-990	15	66	990	33	3@60 9@90	1505	EHW130S-2760	15	184	2760	92	20@120 4@120	4194
EHW75S-1020	15	68	1020	34	2@60 10@90	1551	EHW130S-2820	15	188	2820	94	22@120 2@90	4285
EHW75S-1050	15	70	1050	35	1@60 11@90	1596	EHW130S-2880	15	192	2880	96	24@120	4377

**Conversion Factors**

Usual Conversion Table		Saturated Steam: Pressure & Temperature	
1KgF=9.8N	$KW=LPH \times \Delta T(^{\circ}C) \div 862$	0Mpa=0bar=99.6 $^{\circ}$ C	0.6Mpa=6bar=165.0 $^{\circ}$ C
1KWH=860Kcal	1m <sup>3</sup> =1000L	0.1Mpa=1bar=120.2 $^{\circ}$ C	0.7Mpa=7bar=170.4 $^{\circ}$ C
1inch=25.4mm	1PSI=6.895Kpa	0.2Mpa=2bar=133.6 $^{\circ}$ C	0.8Mpa=8bar=175.4 $^{\circ}$ C
$^{\circ}C=(^{\circ}F-32) \times 5/9$	$^{\circ}F=^{\circ}C \times 9/5+32$	0.3Mpa=3bar=143.6 $^{\circ}$ C	0.9Mpa=9bar=180.0 $^{\circ}$ C
Apms (3phase)= $KW \times 1000 \div (Volts \times 1.732)$		0.4Mpa=4bar=151.9 $^{\circ}$ C	1Mpa=10bar=184.1 $^{\circ}$ C
Apms (1phase)= $KW \times 1000 \div Volts$		0.5Mpa=5bar=158.8 $^{\circ}$ C	



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