

## High Pressure Electric Steam Boilers

Type GHPES - 12 KW to 102 KW  
Trimmed at 250 PSIG

### APPLICATIONS

- Laboratory use, steam for tanks, storage tanks, reactions and distillations, autoclaves, dyestuffs, food products, jacketed vessels for processing waxes, paraffins, glues, resins, and varnishes.

### LISTINGS

- Built in accordance with Code S of ASME Boiler and Pressure Vessel Code and is UL Listed.

### AVAILABILITY

- Most sizes in eight (8) to ten (10) weeks.

### STANDARD FEATURES

- Liquid Level / LWCO Electronic controller automatically maintains proper water level and powers down the boiler when water supply in the boiler drops below a safe operating level.
- Water Level Sight Glass allows constant observation of water level while boiler is operating.
- Main ON-OFF switch and Pilot Light mounted through cabinet front.
- Integrally mounted and wired magnetic contactors.
- Manual Reset Pressure Control provides high limit pressure shut down with manual
- Blowdown / Drain Valve facilitates the emptying of the pressure vessel during blowdown/drain sequence.
- Electric Heating Elements have stainless steel sheath material and are welded construction.
- Operating Pressure Control maintains proper steam pressure within steam boiler.
- ASME Coded Steam Safety Valve automatically opens should excess steam pressure develop inside boiler.
- Steam Pressure Gauge allows visual observation of steam pressure.
- Fully insulated pressure vessel minimizes heat loss and maximizes energy savings.
- Rugged construction makes steam boiler suitable for most industrial applications.



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Bhp	Condensate (Lbs./Hr.)	Gaumer Catalog Number	kW:	Volts	Quantity Circuits	Quantity Switches	Width (in.)	Length (in.)	Height (in.)	Net Wt. (lbs.)
1.224	36.2	<b>GHPES12-208</b>	12	208	1	1	24	33	45	420
1.224	36.2	<b>GHPES12-240</b>	12	240	1	1	24	33	45	420
1.224	36.2	<b>GHPES12-480</b>	12	480	1	1	24	33	45	420
1.734	51.2	<b>GHPES18-208</b>	17	208	1	1	24	33	45	430
1.734	51.2	<b>GHPES18-240</b>	17	240	1	1	24	33	45	430
1.734	51.2	<b>GHPES18-480</b>	17	480	1	1	24	33	45	430
2.448	72.3	<b>GHPES24-208</b>	24	208	2	1	27	33	45	525
2.448	72.3	<b>GHPES24-240</b>	24	240	2	1	27	33	45	525
2.448	72.3	<b>GHPES24-480</b>	24	480	1	1	27	33	45	525
2.958	87.4	<b>GHPES30-208</b>	29	208	2	1	27	33	45	525
2.958	87.4	<b>GHPES30-240</b>	29	240	2	1	27	33	45	525
2.958	87.4	<b>GHPES30-480</b>	29	480	1	1	27	33	45	525
3.468	102.5	<b>GHPES36-208</b>	34	208	2	1	27	33	45	525
3.468	102.5	<b>GHPES36-240</b>	34	240	2	1	27	33	45	525
3.468	102.5	<b>GHPES36-480</b>	34	480	1	1	27	33	45	525
4.692	138.7	<b>GHPES48-208</b>	46	208	4	1	27	33	45	635
4.692	138.7	<b>GHPES48-240</b>	46	240	3	1	27	33	45	635
4.692	138.7	<b>GHPES48-480</b>	46	480	2	1	27	33	45	635
5.916	174.8	<b>GHPES60-208</b>	58	208	4	1	27	33	45	645
5.916	174.8	<b>GHPES60-240</b>	58	240	3	1	27	33	45	645
5.916	174.8	<b>GHPES60-480</b>	58	480	2	1	27	33	45	645
6.936	205	<b>GHPES72-208</b>	68	208	4	1	27	33	45	645
6.936	205	<b>GHPES72-240</b>	68	240	4	1	27	33	45	645
6.936	205	<b>GHPES72-480</b>	68	480	2	1	27	33	45	645
10.404	307	<b>GHPES100-208</b>	102	208	6	2	31	33	62	1260
10.404	307	<b>GHPES100-240</b>	102	240	6	2	31	33	62	1260
10.404	307	<b>GHPES100-480</b>	102	480	3	2	31	33	62	1260

## FACTORY INSTALLED OPTIONS

- Single Phase Wiring - Available on GHPES12 - GHPES24. Please Specify.
- Control Transformer with fused primary and fused/grounded secondary
- SCR Stepless Control with 100% turndown capability. Contact Gaumer for options.
- Ammeter or Voltmeter - Contact Gaumer for options.
- Auxiliary Low Water Cut-off (Use GHPES81017) utilizes an amplifier with solid state (SCR) switching for control of automatic low water cutoff. When water level falls below a safe operation level the boiler is de-energized. A sensing device detects current flow between a submerged probe and the shell. The unit is available as a backup to the primary mechanical type low water cutoff control.

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## OPTIONAL EQUIPMENT

- Automatic Blowdown System (Use GHPES81025) automatically cycles boiler through daily shutdown, blowdown, and startup sequences. Consists of a brass body, motor driven, straight thru, self cleaning ball valve with Teflon seats. It handles particles and dirty fluid without the use of an upstream strainer or any other cleaning device. An electronic unit and timer controls the ball valve and boiler. Pilot lights indicate status of drain valve and boiler. If so equipped the blowdown function cannot be done manually.
- High Pressure Vacuum Breaker (Use GHPES89369) prevents the boiler from flooding as a result of the steam condensing internally and creating a vacuum after boiler shutdown. The breaker allows air to enter the shell breaking the vacuum. The Vacuum Breaker is required with a condensate return system and consists of a spring loaded disc and associated piping. It is plumbed to the boiler at the factory.
- Modulating proportional sequencer with operating mode indicator lights. check Gaumer for details.
- Condensate Return System should be used whenever condensate can be collected and reused in the boiler. A significant amount of energy can be saved by reusing the condensate. Also returned condensate is free of minerals and deposits found in most water supplies. Type GHPES12-GHPES180 (Use GHPES38047). Each system consists of a condensate return tank, a motor and pump, and necessary plumbing. A 1/2 inch inlet is located on the tank to accept make-up water. A vent fitting is located on the top of the condensate tank for atmospheric venting. The return fitting is to be plumbed to the trapped condensate return line coming from the process. the tank as a ball check valve internally mounted and a floating arm and float ball that mechanically allows water to enter the tank as the original supply is used. The pump discharge outlet is connected to the boiler check valve. Pump motor must be wired to the boiler.
- Motor Starter with thermal overload protection for use with Models GHPES38046 \_GHPES38047, factory mounted and wired.
- Blowdown Separator prevents live steam from escaping during blowdown. Unit is ASME Code Stamped and accepts flash steam and effluent from the boiler blowdown valve, reduces the temperature and the pressure prior to discharge. Requires separate plumbing in the field to blowdown valve and a cold water supply. Check Gaumer for proper model selection.