HURST ♦ BOILER & WELDING CO., INC.

AVAILABLE WITH LOW NOX

HURST SERIES 45

3-PASS FIREBOX DESIGN
All Steel Wetback Construction

LOW PRESSURE BOILER
Capacities from 8.5 to 813 BHP.
285 to 27215 MBTU/HR.

STEAM
Pressure 15 max PSI.

HOT WATER
Section IV
30, 60, 100 PSI.

“Large Furnace Volume for Ultimate Combustion Efficiency.”

SKID MOUNTED
MODULAR PACKAGED

HURST PERFORMANCE SERIES BOILERS
### Specifications

<table>
<thead>
<tr>
<th>Series 45 Model No.</th>
<th>S45</th>
<th>S46</th>
<th>S45</th>
<th>S46</th>
<th>S45</th>
<th>S46</th>
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<th>S46</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boiler Horsepower</strong></td>
<td>75</td>
<td>87.5</td>
<td>87.5</td>
<td>100</td>
<td>100</td>
<td>114.5</td>
<td>114.5</td>
<td>128.3</td>
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<tr>
<td><strong>Steam Output</strong></td>
<td>2092</td>
<td>2352</td>
<td>2092</td>
<td>2551</td>
<td>2092</td>
<td>2352</td>
<td>2092</td>
<td>2551</td>
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<tr>
<td><strong>Firing Rate, Gas</strong></td>
<td>1000 BTU</td>
<td>140,000 BTU</td>
<td>1000 BTU</td>
<td>140,000 BTU</td>
<td>1000 BTU</td>
<td>140,000 BTU</td>
<td>1000 BTU</td>
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<tr>
<td><strong>Firing Rate, Oil</strong></td>
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<tr>
<td><strong>Firing Rate, Heavy Oil</strong></td>
<td>150,000 BTU</td>
<td>140,000 BTU</td>
<td>150,000 BTU</td>
<td>140,000 BTU</td>
<td>150,000 BTU</td>
<td>140,000 BTU</td>
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<tr>
<td><strong>Total Heating Surface</strong></td>
<td>37</td>
<td>37</td>
<td>37</td>
<td>37</td>
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<tr>
<td><strong>Radiant Heating Surface</strong></td>
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<tr>
<td><strong>Furnace Volume</strong></td>
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<tr>
<td><strong>Furnace Heat Release</strong></td>
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</table>

**Cutaway View**

- Fully Trimmed & Piped
- Discharge Nozzle
- Safety Relief Valve
- Fully Automated Force Draft Burner
- Hinged Access Doors
- Water Backed Furnace
- Inspection Man Way W/ Flame Site Port (50 HP. & UP)
- Return Nozzle

**Note:** Connections up to 4" size are NPT, Thread. Connections 6" & above are 150# ANSI flange.

**Note:** 458 SQ.FT. and larger has 12" x 16" Manway.

**Designed, constructed and stamped in accordance with the requirements of the ASME Boiler Codes.**

**Inspected and registered with the National Board of Boiler & Pressure Vessel Inspectors.**

**Specifications**

- **Firing Rate, Heavy Oil**
- **Firing Rate, #2 Oil**
- **Firing Rate, Gas**
- **Gross Output**
- **Exhaust Stack Dia.**
- **Stack Height**
- **Refractory Box Depth**
- **Front Smokebox Depth**
- **Normal Water Line Size**
- **Water Volume**
- **Shipping Weight Approx.**
- **Boiler Horsepower**

**Boiler & Pressure National Board of the requirements constructed and stamped in accordance with the ASME**

**Cut Away View**

**Fully Trimmed & Piped**

**Discharge Nozzle**

**Safety Relief Valve**

**Fully Automated Force Draft Burner**

**Hinged Access Doors**

**Water Backed Furnace**

**Inspection Man Way W/ Flame Site Port (50 HP. & UP)**

**Return Nozzle**

**Note:** Connections up to 4" size are NPT, Thread. Connections 6" & above are 150# ANSI flange.

**Note:** 458 SQ.FT. and larger has 12" x 16" Manway.
Efficient 3-Pass Design
Flexibility – Gas, Oil, Heavy Oil, and Combination Gas/Oil
ASME Code Constructed & Stamped for 15 PSI Steam / 30-100 PSI Water
Registered with the National Board of Boiler Inspectors
Competitively Priced, Easily Maintained, Designed for Efficiency
Large Furnace Volume for Ultimate Combustion Efficiency
Unified Refractory Base Floor
Steel Skids and Lifting Eyes
Low Heat Release
Factory Insulated – 2” Mineral Wool
Factory Jacketed & Painted
Easy Access to Fireside Surfaces
Ample Waterside Clean-Out Openings
Fully Automatic Operation
U.L. Listed, Forced Draft Burners
Wet Back Construction
U.L. Listed Controls & Trim
Factory Test Fired
Flame Observation Ports Front & Rear

All units are factory packaged with operating controls, relief valves, burner and fuel train. Installation is made simple in that only service connections are needed to place in operation. Flexible burner systems are available for firing natural gas, LP gas, #2 oil, heavy oil, or combinations. High density 2” mineral wool insulation assures lower radiant heat loss. In addition to meeting the requirements of U.L., burner systems are optionally available to meet the requirements of FM, IRI, MILITARY and others.

Standard Steam Trim
- Operating & high limit pressure control
- Modulating pressure control (when appl.)
- Water column with gauge glass, combination low water cut-off & pump control
- Probe Aux, L.W.C.O. w/ Manual Reset
- Steam pressure gauge, syphon & test cock
- Water column drain valve
- Safety relief valve(s) per ASME Code

Standard Water Trim
- Operating & high limit temperature control
- Modulating temperature control (when appl.)
- Probe type low water cut-off control w/ Manual Reset
- Combination pressure & temperature gauge
- Hot water return baffle for shock resistance
- Safety relief valve(s) per ASME Code