# Bryan "Flexible Water Tube" D Series Steam Boilers

# 250,000 to 650,000 BTUH Forced draft gas, oil or dual fuel fired

#### **Construction Features**

- Heavy steel boiler frame, built and stamped in accordance with the A.S.M.E. Boiler Code. Constructed as standard for operating pressures of 15 psi or 150 psi. Also available for higher operating pressures. Large steam release area for dry steam.
- 2. Water leg downcomers to insure rapid internal circulation and temperature equalization.
- 3. Bryan flexible water tubes, easily replaceable, requiring no welding or rolling.
- 4. Access panel, interior of boiler easily accessible for service and inspection.
- Boiler tube access panel bolted tightly and sealed to boiler frame. Constructed of high temperature insulation in steel framework. Tubes installed from one side.
- 6. Boiler frame insulated with 1½" thick insulating refractory.
- 7. Boiler jacket, heavy gauge, zinc-coated, rust resistant primer and attractive enamel.
- 8. All controls, gauges and relief valve are on boiler top for ease in servicing.
- Flange mounted forced draft gas, oil or dual fuel fired burner.
- 10. All controls factory installed and wired.

All Bryan D series steam boilers are available from stock for immediate shipment. Consult your local Bryan representative for delivery information.

### **Specifications**

BOILER MODEL NUMBER	Input		Nominal Output		Lbs. Steam	Heating	Shipping
	МВН	Oil Gallons Per Hour	MBH	Boiler H.P.	Per Hour From & At 212°F	Surface Sq. Ft.	Weight (Pounds)
D-250-S	250	1.75	200	6	206	22	850
D-450-S	450	3.25	360	10	370	40	1,080
D-650-S	650	4.50	520	15	535	58	1,400



## Bryan D Series Gas, Oil or Dual Fuel Fired Steam Boilers

#### **Efficient Water Tube Design**

The Bryan Flexible Water Tube provides for extremely fast internal circulation for maximum heat transfer and operating efficiency. Flexible—no thermal shock.

#### **Easily Replaceable Tubes**

Tubes are easily removable and replaceable without welding or rolling. Require little service space.

#### Steam Release Area

Large, full-size steam drum provides for dry steam and stable water level.

#### **Natural Internal Circulation**

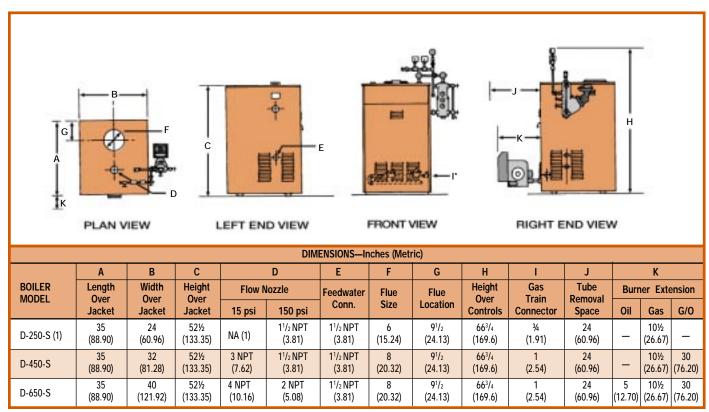
The water tube design and the large water leg downcomers provide adequate internal circulation. Low pressure drop through boiler.

#### Compact—Minimum Floor Space

Requires less floor space than most boilers—minimum boiler room size. Shipped completely assembled and wired.

#### **High or Low Pressure Construction**

Boiler is constructed as standard for either 15 psi or 150 psi maximum working pressure. Also available for higher pressures.



\*Gas train and control location dimensions will vary depending on job specifications and conditions. Dimensions and specifications are subject to change without notice. Consult factory for certified dimensions. (1) Not available in 15 psi construction.

#### Standard Equipment Furnished

#### Gas fired, forced draft

Combination low water cut-off and pump control, auxiliary low water cut-off, high limit pressure control, ASME-rated safety valve, water glass set, electronic pilot safety controls, automatic operating gas valve, safety gas valve, pilot solenoid valve, flame rod and pilot ignition assembly, main manual shut-off valve, pilot cock, pilot and main gas pressure regulators, air safety switch, steam pressure gauge, steam pressure control, heavy ga. jacket, all controls mounted and wired to terminal strip.



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#### Oil fired, forced draft

Combination low water cut-off and pump control. auxiliary low water cut-off, high limit pressure control, ASME-rated safety valve, water glass set, electronic combustion safety control, oil valve, oil ignition transformer, two-stage fuel unit, oil ignition and nozzle assembly, steam pressure gauge, steam pressure control, heavy ga. jacket, all con-trols mounted and wired to terminal strip.

#### Combination gas-oil forced draft

Combination low water cut-off and pump control, auxiliary low water cut-off, high limit pressure control, ASME-rated safety valve, water glass set, electronic combustion safety control, automatic operating gas valve, safety gas valve, pilot solenoid valve, flame rod and pilot ignition assembly, main manual gas shut-off valve, pilot cock, pilot and main gas pressure regulators, air safety switch,

manual fuel selector switch, oil valve, oil ignition transformer, two-stage fuel unit, oil ignition and nozzle assembly, steam pressure gauge, steam pressure control, heavy ga. jacket, all controls mounted and wired to terminal strip

#### Optional Equipment, Extra Cost

Consult factory

#### When ordering, please specify

- 1. Electric power voltage and frequency.
- Low pressure 15 psi, or high pressure, 150 psi construction.
- Type of fuel, BTU content, specific gravity and pressure(s) available.
- Optional extra equipment or construction and special approvals required (FM, IRI, CSD-1,etc.)