

Commercial Flue Damper Electronic Ignition Gas Water Heater



Photo is of
D-75T-125-3N

FEATURING:

THE BRADFORD WHITE
ICON^{HD}
COMMERCIAL CONTROL SYSTEM



The Commercial Flue Damper Models feature:

- **ICON HD™**—Intelligent proven design combines temperature control, diagnostic codes, and system ignition functions into a single control board with a digital LCD display. Control panel cover tilts down for ease of wiring and service.
- **Operation Mode**—Two different digitally displayed operation modes have the capability of adjusting the temperature setting up to 180°F (82°C), and adjusting the degree setting (°F to °C, or °C to °F).
- **Service Mode**—Eight different digitally displayed service modes can be easily cycled through by pressing the select button. There is the capability of adjusting the temperature setting up to 180°F (82°C), adjusting the degree setting (°F to °C, or °C to °F), locking the maximum temperature setting that can be adjusted in operation mode, displaying the average water temperature (if water heater has two sensors), displaying the upper temperature sensor, displaying the lower temperature sensor, displaying the flame current of the pilot flame, and displaying diagnostic codes.
- **Electronic Ignition**—High voltage, low current electricity is sent to the pilot electrode initiating a spark to ignite the pilot gas. This results in savings of pilot gas during stand-by periods because the pilot flame only operates when there's a call for heat.
- **Automatic Flue Damper**—Reduces stand-by loss, saving gas consumption and improving overall efficiency.
- **Factory Installed Hydrojet® Sediment Reduction System**—Cold water inlet sediment reducing device helps prevent sediment build up in the tank.
- **Vitraglas® Lining**—An exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitraglas®) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- **Insulation System**—Non-CFC foam covers the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity.
- **Water Connections**—3/4" (19mm) NPT factory-installed true dielectric fittings extend water heater life and simplify water line connections.
- **Hand Hole Cleanout**—Allows inspection of tank interior and facilitates the removal of sediment deposits.
- **E.C.O.**—An automatic re-set Energy Cut Off (E.C.O) shuts off all gas in event of an overheat condition. This automatically re-sets when operation conditions are back to normal.
- **Protective Magnesium Anode Rods**—Provide added protection against corrosion for long-term, trouble-free service.
- **Sanitizing Capability**—Temperature setting up to 180°F (82°C).
- **ASME Code Available on all Models Above 200,000 BTU/Hr.**
- **NSF Construction Available.**
- **Low NOx Construction Available.**
- **North Carolina Code Compliant.**
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.
- **Design certified by CSA International.**

3 or 5-Year Limited Tank Warranties / 1-Year Limited Warranty on Component Parts.

For more information on warranty, please visit www.bradfordwhite.com

For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,666; 7,634,976; 5,660,165; 5,954,492; 6,056,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,684,821; 6,442,178; 7,334,419; 7,866,168; 7,270,087; 7,007,748; 5,596,952; 6,142,216; 7,699,026; 5,341,770; 7,337,517; 7,665,211; 7,665,210; 7,063,132; 7,063,133; 7,559,293; 7,900,589; 5,943,984; 8,082,888; 5,988,117; 7,621,238; 7,650,859; 5,761,379; 7,409,925; 5,277,171; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,845; 2,504,824; 2,108,186; 2,143,031; 2,409,271; 2,548,958; 2,112,515; 2,476,685; 2,239,007; 2,092,105; 2,107,012. Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.

Commercial Gas Water Heater

Electronic Ignition Models
NATURAL GAS AND LIQUID PROPANE GAS
Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed

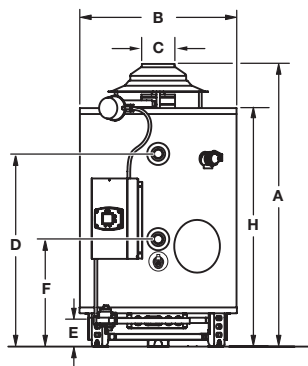
Table with 23 columns: Model Number, Capacity (U.S. Gal., Imp. Gal., Nat. BTU/Hr. Input, LP BTU/Hr. Input), GPH Recovery at Degree Rise* (40°F, 100°F, 140°F), A Top Vent Height in., B Jacket Dia. in., C Vent Dia. in., D Front Hot Water Conn. in., E Floor to Gas Conn. in., F Front Cold Water Conn. in., H Floor to Top of Heater in., J Floor to Top Water Conn. in., Water Conn. in., Depth in., Gas Conn. Dia., Relief Valve Open. in., and Approx. Shipping Weight (lbs.) (Std., ASME).

Table with 23 columns: Model Number, Capacity (Liters, Nat. kW/Hr. Input, LP kW/Hr. Input), LPH Recovery at Degree Rise* (22°C, 56°C, 78°C), A Top Vent Height mm., B Jacket Dia. mm., C Vent Dia. mm., D Front Hot Water Conn. mm., E Floor to Gas Conn. mm., F Front Cold Water Conn. mm., H Floor to Top of Heater mm., J Floor to Top Water Conn. mm., Water Conn. mm., Depth mm., Gas Conn. Dia., Relief Valve Open. mm., and Approx. Shipping Weight (kg.) (Std., ASME).

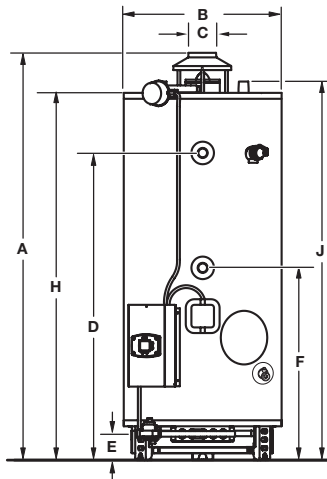
(A) = ASME Code Available
(F) = Front Water Connection
(T) = Top Water Connection
** = Available in Natural Gas Only
+ = Fiberglass Insulation
For Propane (LP) Gas models change suffix "N" to "X".
220V/50Hz Available - Consult factory.

* Recoveries are based on Natural Gas Input and 80% Thermal Efficiency.
Low NOx models are not available for inputs over 399,999 BTU/Hr.
For Low NOx compliance, place an "E" following the BTU input identifier of the model number.
Example: D-75T-125E-3N
Amperage Draw = .5 for damper models/less than 4 for induced draft models.
Power Vent Kits - available for inputs from 125,000 to 505,000 BTU/Hr.
For 5 year models change suffix from "3" to "5".

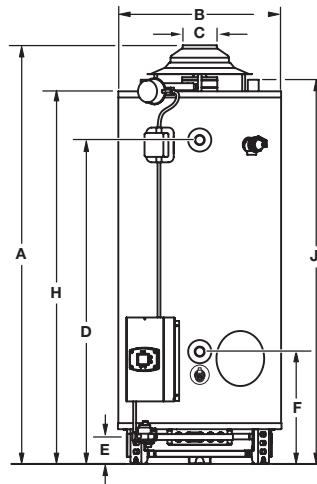
Commercial Gas Water Heater



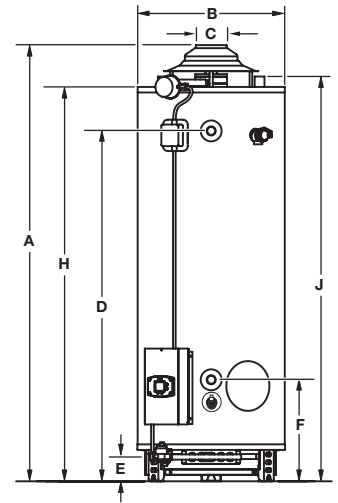
Model D-38T-155



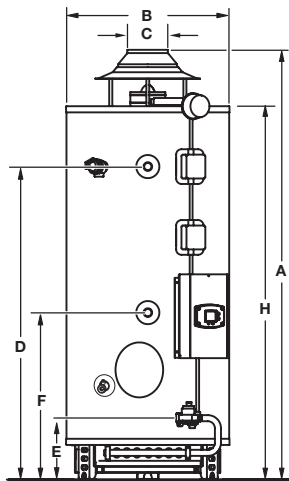
Model D-75T-(125,160)



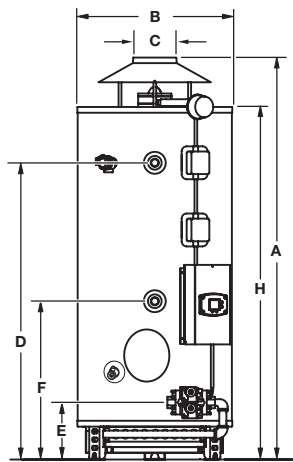
Model D-80T-(180,199,250)



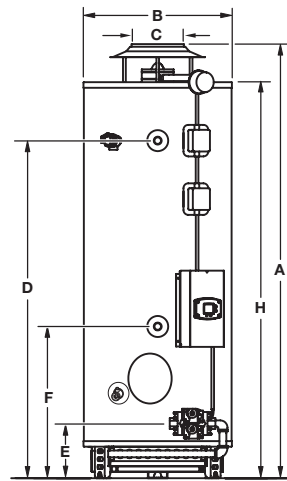
Model D-100T-(199,250)



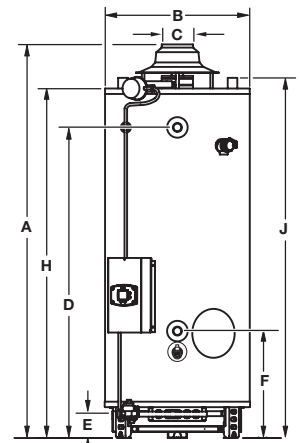
Model D-75T-300



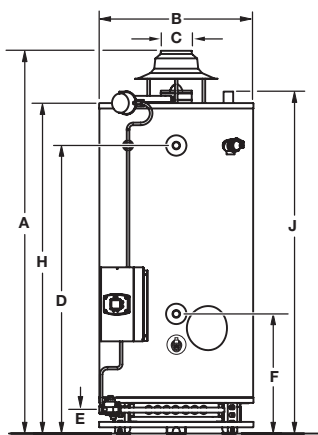
Model D-65T-(370,399)



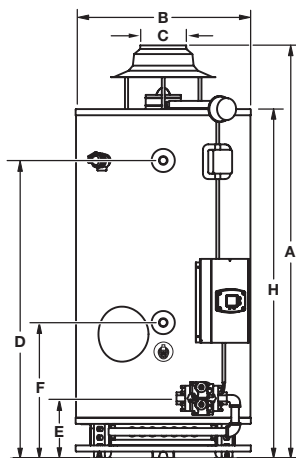
Model D-80T-(425,505)



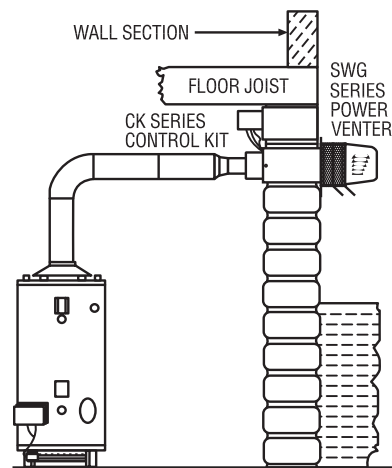
Model D-100S-(199,250)



Model D-100L-(199,250,270,300)



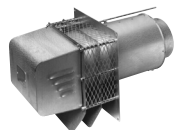
Model D-80L-(399,450,505)



TYPICAL APPLICATIONS

Optional Power Vent Kits – available for inputs from 125,000 to 505,000 BTU/Hr.

BTU Input Range	Kit Number
125,000 to 290,000 BTU/Hr.:	239-81764-00
300,000 to 399,999 BTU/Hr.:	239-81766-00
425,000 to 505,000 BTU/Hr.:	239-82148-00



Commercial Gas Water Heater

Sample Specification

The water heater shall be a Bradford White model with a rated storage capacity of not less than _____ gallons (_____ liters), a minimum gas input of _____ BTU/Hr. (_____ kW), a minimum recovery of _____ GPH (_____ LPH). The tank shall be Vitraglas® lined and have a bolted hand hole cleanout. A digital LCD display shall be integrated into the front control box, and the control shall be an adjustable electronic thermostat to any temperature up to 180°F (85°C) must have an automatic re-set Energy Cut-off (E.C.O), which shuts off all gas in an event of a overheat condition. The tank shall have _____ magnesium anode rods installed in separate tank head couplings. The heater shall have Non-CFC foam insulation, electronic ignition, and come equipped with an ASME rated T&P relief valve, a cold water inlet Hydrojet® Sediment Reduction System, and a automatic flue damper (115V AC required). It shall be design certified by CSA International for 180°F (82°C) application, either with or without a separate storage tank, and comply with state and local codes and ordinances.

General

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All models are design certified by CSA International (formerly AGA/CGA), ANSI standard Z-21.10.3, for up to 180°F (82°C) application as an Automatic Storage Heater, and an Automatic Circulating Tank Heater. As an Automatic Storage Heater, all models are complete, self-contained water heating systems. It needs no separate storage tank, pump, wiring or elaborate piping network. When equipped with a mixing valve, it will supply 180°F (82°C) sanitizing and lower temperature general purpose hot water simultaneously. These models can be used either as a single unit or in multiples connected in series or parallel (recommended).

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.



Ambler, PA

For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089

International: Telephone 215-641-9400 • Telefax 215-641-9750 / www.bradfordwhite.com

 **BRADFORD WHITE-CANADA® INC.** Sales / Technical Support 866-690-0961 / 905-238-0100 • Fax 905-238-0105 / www.bradfordwhite.com

Built to be the Best™

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