

## Commercial Flue Damper Millivolt-Powered Gas Water Heater



Photo is of  
DM-100T-199-3N

### *The Commercial Flue Damper Models feature:*

- **Automatic Flue Damper**—Reduces stand-by loss, saving gas consumption and improving overall efficiency.
- **Hand Hole Cleanout**—Allows inspection of the tank interior and facilitates the removal of sediment deposits.
- **Millivolt-Powered Control**—No external electrical source is required for operation. An adjustable thermostat can be set up to 180°F (82°C).
- **Factory Installed Hydrojet<sup>®</sup> Sediment Reduction System**—Cold water inlet sediment reducing device helps prevent sediment build up in the tank.
- **Vitraglas<sup>®</sup> Lining**—An exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitraglas<sup>®</sup>) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- **Water Connections**—Factory-installed true dielectric fittings extend water heater life and simplify water line connections.
- **E.C.O.**—An automatic reset Energy Cut Out (E.C.O.) shuts off all gas in event of an overheat condition. This automatically resets when operation conditions are back to normal.
- **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.
- **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).
- **Low NOx Construction Available.**
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.
- **NSF construction available.**
- **North Carolina Code Compliant.**
- **ASME code available on all models above 200,000 BTU/Hr.**



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

For more information on warranty, please visit [www.bradfordwhite.com](http://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; 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<sup>®</sup> and Hydrojet<sup>®</sup> are registered trademarks of Bradford White<sup>®</sup> Corporation.

# Commercial Flue Damper Millivolt-Powered Gas Water Heater

## Millivolt Powered Models

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed

NATURAL GAS AND LIQUID PROPANE GAS

Model Number	Nominal Gal. Capacity		BTU/Hr. Input	LP BTU/Hr. Input	GPH Recovery at Degree Rise*			Model Number	Nominal Liter Capacity	kW Input	LP kW Input	LPH Recovery at Degree Rise*		
	U.S. Gal.	Imp. Gal.			40°F	100°F	140°F					22°C	56°C	78°C
DM-80T-199-3N	80	67	199,999	190,000	485	194	139	DM-80T-199-3N	303	58.6	55.7	1836	734	526
DM-100T-199-3N	98	82	199,999	199,999	485	194	139	DM-100T-199-3N	371	58.6	58.6	1836	734	526

Model Number	A	B	C	D	E	F	G	J	K	L	M	R	S	Approx. Shipping Weight (lbs.)	
	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Floor to T&P Conn. in.	Floor to Gas Conn. in.	Floor to Top of Heater in.	Floor to Water Conn. in.	C/L of Water Conn. in.	Floor to Space Heating Inlet in.	Floor to Space Heating Outlet in.	Water Conn. NPT in.	Space Heating Conn. Size in.	Gas Conn. Size in.	Std.	ASME
DM-80T-199-3N	76 <sup>3</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>4</sub>	6	59 <sup>15</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>8</sub>	68 <sup>3</sup> / <sub>8</sub>	70	19	23 <sup>1</sup> / <sub>2</sub>	59 <sup>15</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1/2	540	N/A
DM-100T-199-3N	88 <sup>15</sup> / <sub>16</sub>	28 <sup>1</sup> / <sub>4</sub>	6	70 <sup>15</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>8</sub>	79 <sup>5</sup> / <sub>16</sub>	81 <sup>7</sup> / <sub>16</sub>	19	23 <sup>1</sup> / <sub>2</sub>	70 <sup>15</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1/2	610	N/A

Model Number	A	B	C	D	E	F	G	J	K	L	M	R	S	Approx. Shipping Weight (kg.)	
	Floor to Vent Conn. mm.	Jacket Dia. mm.	Vent Size mm.	Floor to T&P Conn. mm.	Floor to Gas Conn. mm.	Floor to Top of Heater mm.	Floor to Water Conn. mm.	C/L of Water Conn. mm.	Floor to Space Heating Inlet mm.	Floor to Space Heating Outlet mm.	Water Conn. NPT mm.	Space Heating Conn. Size mm.	Gas Conn. Size mm.	Std.	ASME
DM-80T-199-3N	1940	718	152	1522	219	1737	1778	483	597	1522	38	38	13	245	N/A
DM-100T-199-3N	2259	718	152	1802	219	2015	2069	483	597	1802	38	38	13	277	N/A

\*Recoveries based on Thermal Efficiencies of 80%.

(A) = ASME Code Available

For Propane Gas (LP) models change suffix "N" to "X".

**For LowNOx compliance to meet SCAQMD requirements, place an "E" following the BTU Input identifier of the model number.**

Example: DM-80T-199E-3N

### Sample Specification

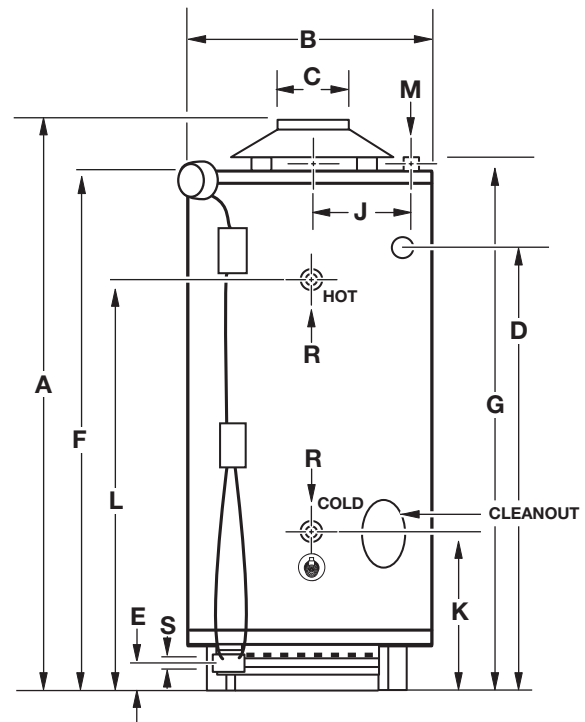
The water heater shall be a Bradford White model with a rated storage capacity of not less than \_\_\_\_\_ gallons (\_\_\_\_\_ liters), a minimum gas input of \_\_\_\_\_ BTU/Hr. (\_\_\_\_\_ kW), a minimum recovery of \_\_\_\_\_ GPH (\_\_\_\_\_ LPH). The tank shall be Vitraglas® lined and have a bolted hand hole cleanout. A millivolt-powered control shall be an adjustable electronic thermostat to any temperature up to 180°F (82°C) must have an automatic re-set Energy Cut-off (E.C.O), which shuts off all gas in an event of an overheat condition. The tank shall have \_\_\_\_\_ magnesium anode rods installed in separate tank head couplings. The heater shall have Non-CFC foam insulation, standing pilot, and come equipped with an ASME rated T&P relief valve, a cold water inlet Hydrojet® Sediment Reduction System, and a automatic flue damper (no electricity 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 Z21.10.3, 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.**

Water Connections  
Top and Front



— BRADFORD WHITE IS —



For field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 ■ Fax 215-641-1612

Technical Support 800-334-3393 ■ Email [techserv@bradfordwhite.com](mailto:techserv@bradfordwhite.com)

Warranty 800-531-2111 ■ Email [warranty@bradfordwhite.com](mailto:warranty@bradfordwhite.com)

International: Telephone 1-215-641-9400 ■ Email [international@bradfordwhite.com](mailto:international@bradfordwhite.com) / [www.bradfordwhite.com](http://www.bradfordwhite.com)

**Built to be the Best™**