

Commercial Flue Damper Millivolt-Powered Gas Water Heater



Photo is of
DM-100T-250-3N

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® 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).
- **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

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® and Hydrojet® are registered trademarks of Bradford White® Corporation.

Commercial Flue Damper Millivolt-Powered Gas Water Heater

Millivolt Powered Models

NATURAL GAS AND LIQUID PROPANE GAS

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

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-38T-155-3N+	38	31	155,000	155,000	368	147	107	DM-38T-155-3N+	144	45.4	45.6	1391	556	397
DM-75T-125-3N	75	62	125,000	125,000	303	121	86	DM-75T-125-3N	284	36.6	36.6	1147	458	326
DM-75T-160-3N	75	62	160,000	155,000	378	151	108	DM-75T-160-3N	284	46.8	45.6	1431	572	409
DM-80T-180-3N	80	67	180,000	180,000	436	175	124	DM-80T-180-3N	303	52.7	52.8	1650	662	469
DM-80T-250-3N(A)	80	67	250,000	235,000	606	242	173	DM-80T-250-3N(A)	303	73.2	68.9	2294	916	655
DM-100T-250-3N(A)	98	82	250,000	235,000	606	242	173	DM-100T-250-3N(A)	371	73.2	68.9	2294	916	655
DM-100L-199-3N	100	83	199,999	199,999	485	194	139	DM-100L-199-3N	379	58.6	58.6	1836	734	526
DM-100L-250-3N(A)	100	83	250,000	250,000	606	242	173	DM-100L-250-3N(A)	379	73.2	73.3	2294	916	655
DM-100L-270-3N(A)**	100	83	270,000	N/A	655	262	187	DM-100L-270-3N(A)**	379	79.0	N/A	2479	992	708
DM-100S-199-3N	100	83	199,999	199,999	485	194	139	DM-100S-199-3N	379	58.6	58.6	1836	734	526
DM-100S-250-3N(A)	100	83	250,000	250,000	606	242	173	DM-100S-250-3N(A)	379	73.2	73.3	2294	916	655

Model Number	A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight (lbs.)	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	Std.	ASME
DM-38T-155-3N+	55 ¹ / ₈	28 ¹ / ₄	6	38 ³ / ₄	8 ⁵ / ₈	47 ¹ / ₈	N/A	N/A	23 ⁵ / ₈	38 ³ / ₄	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	438	N/A
DM-75T-125-3N	76 ³ / ₈	28 ¹ / ₄	5	58 ⁹ / ₈	8 ¹¹ / ₈	69 ¹ / ₈	70	14 ¹ / ₂	37 ¹⁵ / ₈	58 ⁵ / ₈	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	520	N/A
DM-75T-160-3N	76 ³ / ₈	28 ¹ / ₄	6	58 ⁹ / ₈	8 ⁵ / ₈	69 ¹ / ₈	69 ¹³ / ₈	14 ¹ / ₂	37 ¹⁵ / ₈	58 ⁵ / ₈	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	520	N/A
DM-80T-180-3N	76 ³ / ₈	28 ¹ / ₄	6	59 ¹⁵ / ₈	8 ⁵ / ₈	68 ³ / ₈	70	19	23 ¹ / ₂	59 ¹⁵ / ₈	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	540	N/A
DM-80T-250-3N(A)	76 ³ / ₈	28 ¹ / ₄	6	59 ¹⁵ / ₈	8 ¹¹ / ₈	68 ³ / ₈	70	19	23 ¹ / ₂	59 ¹⁵ / ₈	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	540	590
DM-100T-250-3N(A)	88 ¹⁵ / ₈	28 ¹ / ₄	6	70 ¹⁵ / ₈	8 ⁵ / ₈	79 ⁵ / ₈	81 ⁷ / ₈	19	23 ¹ / ₂	70 ¹⁵ / ₈	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	610	690
DM-100L-199-3N	78 ⁹ / ₈	30 ¹ / ₄	6	60 ³ / ₈	8 ¹¹ / ₈	68 ¹⁵ / ₈	70 ⁹ / ₈	23	27 ³ / ₈	60 ³ / ₈	1 ¹ / ₂ (T&F)	1 ¹ / ₂	1 ¹ / ₂	725	N/A
DM-100L-250-3N(A)	78 ⁹ / ₈	30 ¹ / ₄	6	60 ³ / ₈	8 ¹¹ / ₈	68 ¹⁵ / ₈	70 ⁹ / ₈	23	27 ³ / ₈	60 ³ / ₈	1 ¹ / ₂ (T&F)	1 ¹ / ₂	1 ¹ / ₂	725	765
DM-100L-270-3N(A)**	78 ⁹ / ₈	30 ¹ / ₄	6	60 ³ / ₈	8 ¹¹ / ₈	68 ¹⁵ / ₈	70 ⁹ / ₈	23	27 ³ / ₈	60 ³ / ₈	1 ¹ / ₂ (T&F)	1 ¹ / ₂	1 ¹ / ₂	725	765
DM-100S-199-3N	79 ¹ / ₂	28 ¹ / ₄	6	64 ³ / ₈	8 ⁵ / ₈	72	73 ¹ / ₂	21	24 ³ / ₄	64 ³ / ₈	1 ¹ / ₂ (T&F)	1 ¹ / ₂	1 ¹ / ₂	667	N/A
DM-100S-250-3N(A)	79 ¹ / ₂	28 ¹ / ₄	6	64 ³ / ₈	8 ⁵ / ₈	72	73 ¹ / ₂	21	24 ³ / ₄	64 ³ / ₈	1 ¹ / ₂ (T&F)	1 ¹ / ₂	1 ¹ / ₂	667	702

Model Number	A Floor to Vent Conn. mm.	B Jacket Dia. mm.	C Vent Size mm.	D Floor to T&P Conn. mm.	E Floor to Gas Conn. mm.	F Floor to Top of Heater mm.	G Floor to Water Conn. mm.	J C/L of Water Conn. mm.	K Floor to Space Heating Inlet mm.	L Floor to Space Heating Outlet mm.	M Water Conn. NPT mm.	R Space Heating Conn. Size mm.	S Gas Conn. Size mm.	Approx. Shipping Weight (kg.)	
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	Std.	ASME
DM-38T-155-3N+	1400	718	152	984	219	1197	N/A	N/A	592	984	38	38	13	199	N/A
DM-75T-125-3N	1935	718	127	1481	221	1754	1778	368	964	1481	38	38	13	236	N/A
DM-75T-160-3N	1935	718	152	1481	219	1754	1773	368	964	1481	38	38	13	236	N/A
DM-80T-180-3N	1940	718	152	1522	219	1737	1778	483	597	1522	38	38	13	245	N/A
DM-80T-250-3N(A)	1940	718	152	1522	221	1737	1778	483	597	1522	38	38	13	245	268
DM-100T-250-3N(A)	2259	718	152	1802	219	2015	2069	483	597	1802	38	38	13	277	313
DM-100L-199-3N	1995	768	152	1534	221	1751	1792	584	695	1534	38 (T&F)	38	13	329	N/A
DM-100L-250-3N(A)	1995	768	152	1534	221	1751	1792	584	695	1534	38 (T&F)	38	13	329	347
DM-100L-270-3N(A)**	1995	768	152	1534	221	1751	1792	584	695	1534	38 (T&F)	38	13	329	347
DM-100S-199-3N	2019	718	152	1635	219	1829	1867	533	229	1635	38 (T&F)	38	13	302	N/A
DM-100S-250-3N(A)	2019	718	152	1635	219	1829	1867	533	229	1635	38 (T&F)	38	13	302	318

*Recoveries based on Thermal Efficiencies of 80%.

(A) = ASME Code Available

(F) = Front Water Connection

(T) = Top Water Connection

† = Fiberglass Insulation

** = Available in Natural Gas Only

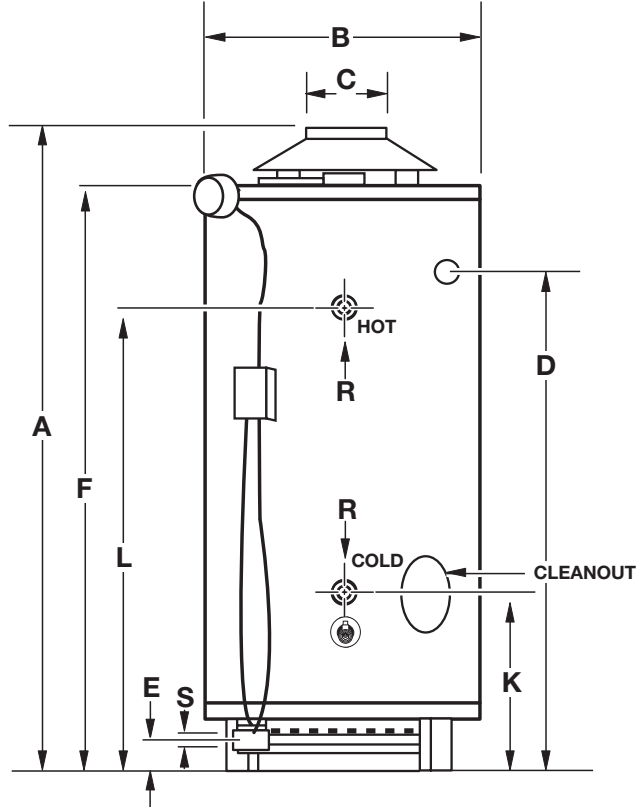
For Propane Gas (LP) models change suffix “N” to “X”.

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

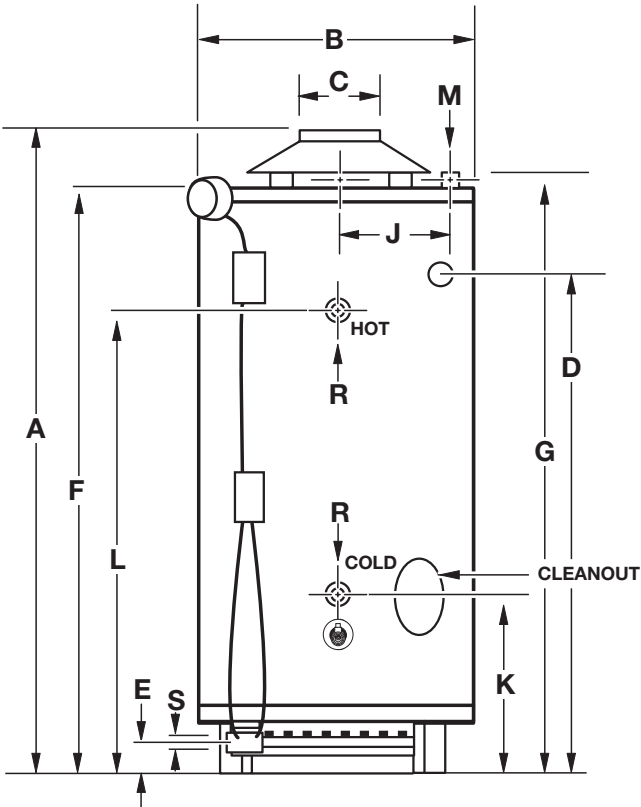
Example: DM-75T-125E-3N

Commercial Flue Damper Millivolt-Powered Gas Water Heater

Water Connections
Front
DM38T155



Water Connections
Top and Front
DM80T180, 250
DM100T250
DM75T125, 160
Top and Front
DM100L199, 250, 270
DM100S199, 250



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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 a 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.

— 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

Warranty 800-531-2111 ■ Email warranty@bradfordwhite.com

International: Telephone 1-215-641-9400 ■ Email international@bradfordwhite.com / www.bradfordwhite.com

Built to be the Best™