



# BRADFORD WHITE®

Commercial Energy Saver Gas\* Models  
75T-125, 38T-155, 75T-160, 75T-300,  
80T-180, 80T-199, 80T-250,  
100T-199, 100T-250,  
65T-370, 65T-399, 80T-425, 80T-505



Where Applicable

## Features:



Bradford White is ISO registered to the 9001 standard.

- **2" Non-CFC foam insulation.** (38T-155 use high density fiberglass)
- **Vitraglas® lined tank**—water heater tanks are protected from the corrosive effects of hot water by an exclusive ceramic porcelain-like coating. Our Vitraglas® lining provides a tough interior surface for water heater tanks, which must withstand the wearing effects of high volume and high temperature hot water.
- **Factory installed Hydrojet® Sediment Reduction System**—cold inlet sediment reduction device. Helps prevent sediment build up in tank.
- **Multiple magnesium anode rods**—employed to provide an extra measure of corrosion prevention for longer life.
- **Hand hole cleanout**—allows inspection of tank interior.
- **Controls**—standing pilot Millivolt System – self contained power source (thermopile) to operate control system (no external electric supply required). Adjustable thermostat up to 180°F (82°C). Energy Cut-Off (E.C.O.) shuts off all gas in event of an overheat condition.
- **Brass drain valve.**
- **T&P relief valve installed.**
- **ASME tank construction available**—on models over 200,000 BTUH input (58.6 KW).
- **Three year limited warranty**—protects your investment in a quality glass lined heater. If the tank leaks for reasons of faulty materials, workmanship, or corrosion within the warranty period, the heater will be replaced with a comparable heater of our manufacture. (Exclusive of all shipping and reinstallation costs.) Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.
- **One year limited parts warranty**—these quality components are manufactured for us by industry leaders and will be replaced in the event of failure during the parts warranty period (exclusive of shipping and reinstallation costs.)

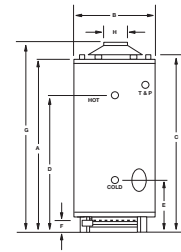
MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385; 6,684,821; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165; 5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983; 4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968; 4,672,919; Re. 34,534. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 1,272,914; 1,280,043; 1,289,832; 2,045,862; 2,112,515; 2,108,186; 2,107,012, 2,092,105.

\* Not for use with manufactured gas or town gas. Consult factory for those applications.



**Commercial  
Energy Saver  
Gas-Models**

75T-125, 38T-155, 75T-160, 75T-300, 80T-180, 80T-199,  
80T-250, 100T-199, 100T-250, 65T-370, 65T-399, 80T-425, 80T-505



**ENERGY SAVER MODELS** Includes Installed T&P valve. All models meet or exceed the Thermal Efficiency Requirements of ASHRAE 90.1b 1992.

M	MODEL NUMBER	NAT. & LP INPUT BTU/H	1ST HOUR DEL. GAL. AT 100°F. RISE	RECOVERY GPH AT DEGREE RISE			STG. CAP. U.S. GAL.	DIMENSIONS IN INCHES											WEIGHT (LBS.)	
				40°F	100°F	140°F		A HT.	B DIA.	C TOP WTR. CONN.	D FRONT HW CONN.	E FRONT CW CONN.	F FLOOR TO GAS CONN.	G TOP VENT HT.	H VENT DIA.	I WTR. CONN.	J GAS CONN. DIA.	K RELIEF VALVE OPEN.	STD.	ASME
M	▲ 38T-155-3N	155,000	174	368	147	105	38	43	28 3/4	-	34 3/4	19 3/8	4 3/8	49	6	1 1/2	3/4	3/4	438	-
M	▲ 75T-125-3N	125,000	174	303	121	85	75	65	28 3/4	66 3/4	54 1/4	34	4 3/4	70	5	1 1/2	3/4	3/4	514	-
M	75T-160-3N(LP)	160,000	204	378	151	108	75	65	28 3/4	66 3/4	54 1/4	34	4 3/4	70	6	1 1/2	3/4	3/4	514	-
M	▲ 75T-300-3N(A)	300,000	344	728	291	208	75	64 3/4	28 3/4	-	54 1/4	29	10 1/2	72	7	1 1/2	3/4	1	584	689
M	▲ 80T-180-3N	180,000	231	436	175	125	80	64 3/4	28 3/4	66 3/4	56	19 1/2	4 3/4	70 3/4	6	1 1/2	3/4	3/4	534	-
M	▲ 80T-199-3N(LP)	199,999	250	485	194	139	80	64 3/4	28 3/4	66 3/4	56	19 1/2	4 3/4	70 3/4	6	1 1/2	3/4	3/4	534	-
M	▲ 80T-250-3N(LP) (A)	250,000	298	605	242	173	80	64 3/4	28 3/4	66 3/4	56	19 1/2	4 3/4	70 3/4	6	1 1/2	3/4	1	534	584
M	▲ 100T-199-3N	199,999	263	485	194	139	98	75 1/2	28 3/4	77 1/4	67	19 1/2	4 3/4	81 1/2	6	1 1/2	3/4	3/4	604	-
M	▲ 100T-250-3N(LP) (A)	250,000	311	605	242	173	98	75 1/2	28 3/4	77 1/4	67	19 1/2	4 3/4	81 1/2	6	1 1/2	3/4	1	604	684
M	▲ 65T-370-3N(A)	370,000	405	898	359	256	65	64 3/4	28 3/4	-	54 1/4	29	10 1/2	72	8	1 1/2	3/4 (LP)	1	659	714
M	▲ 65T-399-3N* (A)	399,999	424	970	388	277	65	64 3/4	28 3/4	-	54 1/4	29	10 1/2	72	8	1 1/2	1	1	659	714
M	▲ 80T-425-3N (A)	425,000	468	1030	412	294	80	75 1/2	28 3/4	-	64 3/4	29	10 1/2	81	10	1 1/2	3/4 (LP)	1	750	800
M	80T-505-3N (A)	505,000	527	1178	471	337	80	75 1/2	28 3/4	-	64 3/4	29	10 1/2	81	10	1 1/2	3/4 (LP)	1	750	800

M	MODEL NUMBER	NAT. & LP KW INPUT	1ST HOUR DEL. LTR. AT 56°C. RISE	RECOVERY LPH AT DEGREE RISE			STG. CAP. LITERS	DIMENSIONS IN MILLIMETERS											WEIGHT (KG)	
				22°C	56°C	78°C		A HT.	B DIA.	C TOP WTR. CONN.	D FRONT HW CONN.	E FRONT CW CONN.	F FLOOR TO GAS CONN.	G TOP VENT HT.	H VENT DIA.	I WTR. CONN.	J GAS CONN. DIA.	K RELIEF VALVE OPEN.	STD.	ASME
M	▲ 38T-155-3N	45.4	659	1429	556	408	144	1092	718	-	885	492	117	1245	152	38	19	17	199	-
M	▲ 75T-125-3N	36.6	659	1145	458	327	284	1651	718	1695	1378	864	121	1778	127	38	19	19	234	-
M	75T-160-3N(LP)	46.9	772	1429	556	408	284	1651	718	1695	1378	864	121	1778	152	38	19	19	234	-
M	▲ 75T-300-3N(A)	87.9	1302	2754	1101	787	284	1635	718	-	1378	737	264	1829	203	38	19	25	265	290
M	▲ 80T-180-3N	52.8	874	1656	662	473	303	1638	718	1683	1422	492	121	1788	152	38	19	19	243	-
M	▲ 80T-199-3N(LP)	58.6	946	1836	734	524	303	1638	718	1683	1422	492	121	1788	152	38	19	19	243	-
M	▲ 80T-250-3N(LP) (A)	73.3	1128	2290	916	654	303	1638	718	1683	1422	492	121	1788	152	38	19	25	243	265
M	▲ 100T-199-3N	58.6	995	1836	734	524	371	1915	718	1962	1702	492	121	2061	152	38	19	19	275	-
M	▲ 100T-250-3N(LP) (A)	73.3	1177	2290	916	654	371	1915	718	1962	1702	492	121	2061	152	38	19	25	275	311
M	▲ 65T-370-3N(A)	108.4	1533	3397	1359	971	246	1635	718	-	1378	737	267	1829	203	38	25 (N) 19 (LP)	25	300	325
M	▲ 65T-399-3N* (A)	117.2	1605	3671	1469	1049	246	1635	718	-	1378	737	267	1829	203	38	25	25	300	325
M	▲ 80T-425-3N (A)	124.5	1771	3899	1559	1113	303	1918	718	-	1632	737	267	2057	254	38	25 (N) 19 (LP)	25	340	363
M	80T-505-3N (A)	148.0	1995	4459	1783	1276	303	1918	718	-	1632	737	267	2057	254	38	25 (N) 19 (LP)	25	340	363

For LP models change suffix "N" to "X"  
M - Millivolt  
▲ - 80% Thermal Efficient  
(A) - ASME  
\* Available with Natural Gas only

Recoveries and First Hour Delivery Rating are based on Thermal Efficiencies ranging up to 80%. Recovery figures shown on water heater rating plates are based on 75% Thermal Efficiency in compliance with ANSI Z-21.10.3 requirements.

Power Vent Kits (Millivolt) available for inputs from 125,000 (36.6 KW) to 399,999 (117.2 KW).

**Part No.**  
239-81765-00 up to 290,000 BTUH/85.0 KW  
239-81767-00 up to 399,999 BTUH/117.2 KW

For more information, please reference specification sheet number 2140-B.

(LP) Propane Gas Inputs

Model	1ST HR. DEL. GAL. @ 100°F RISE/ LITER @ 56°C RISE	199/753	RECOVERY @ DEGREE RISE GPH/LPH	
			40°F/22°C	100°F/56°C 140°F/78°C
75T-160	155,000BTU/H/45.4KW	199/753	368/1391	147/556 105/397
80T-199	190,000BTU/H/55.7KW	240/908	460/1741	184/696 131/497
80T-250	235,000BTU/H/68.9KW	284/1075	570/2157	228/863 163/616
100T-250	235,000BTU/H/68.9KW	297/1124	570/2157	228/863 163/616

These models meet or exceed the Thermal Efficiency Requirements of ASHRAE 90.1b 1992.

All models are design certified 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 140°F (60°C) general purpose hot water simultaneously. These models can be used either as a single unit or in multiples connected in parallel.

**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 \_\_\_\_\_ BTUH (KW), and a minimum recovery of \_\_\_\_\_ GPH (LPH) at 100°F (56°C) temperature rise. It shall be design certified for 180°F (82°C) application, either with or without a separate storage tank. The tank shall be lined with Vitraglas® vitreous enamel and shall have a bolted hand hole cleanout. The tank shall have at least two extruded magnesium anode rods installed in separate head couplings and extended to within three inches of the bottom. The heater shall be insulated with not less than 2" (51mm) of Non-CFC foam insulation. This water heater shall be equipped with an ASME rated T&P relief valve. The entire installation shall be made in compliance with state and local codes and ordinances.

**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 800-538-2931 • 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 / Fax on Demand 888-538-7833 / www.bradfordwhite.com

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For Everything Hot Water