



## Commercial Energy Saver Gas Electronic Ignition

### Features:



Bradford White is ISO registered to the 9001 standard.

- **Non-CFC foam insulation.**
- **Vitraglas® lined tank**—Bradford White water heater tanks are protected from the corrosive effects of hot water by an exclusive ceramic porcelain-like coating. The Bradford White high silica 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 made of stainless steel for increased durability. Helps prevent sediment build up in tank.
- **Flue damper**—automatic flue damper reduces stand-by loss, saving money and fuel.
- **Electronic ignition**—pilot does not burn while water heater is in standby mode. (115V/60Hz or 220V/50Hz required to heater). Ignition system operates off of 24 volts.
- **Magnesium anode rods**—employed to provide an extra measure of corrosion prevention for longer life.
- **Hand hole cleanout**—allows inspection of tank interior and facilitates removal of water heater's principal deterrent to long life—accumulated lime and sediment deposits.
- **Controls**—adjustable electronic thermostat to any temperature up to 180°F (82°C). A recycling Energy Cut-Off (E.C.O.) shuts off all gas in event of an overheat condition.
- **NSF construction available.**
- **Brass drain valve.**
- **T&P relief valve installed.**
- **ASME code available** on all models above 200,000 BTUH (58.6KW).
- **Three year limited warranty**—protects your investment in a quality glass lined water heater. If the tank leaks for reasons of faulty materials, workmanship, or corrosion within the warranty period, the water heater will be replaced with a comparable water heater of our manufacture. (Exclusive of all shipping and reinstallation costs.) See complete copy of the warranty included with the water 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.)
- **Design certified by CSA International (formerly AGA/CGA).**
- **North Carolina Code Compliant.**

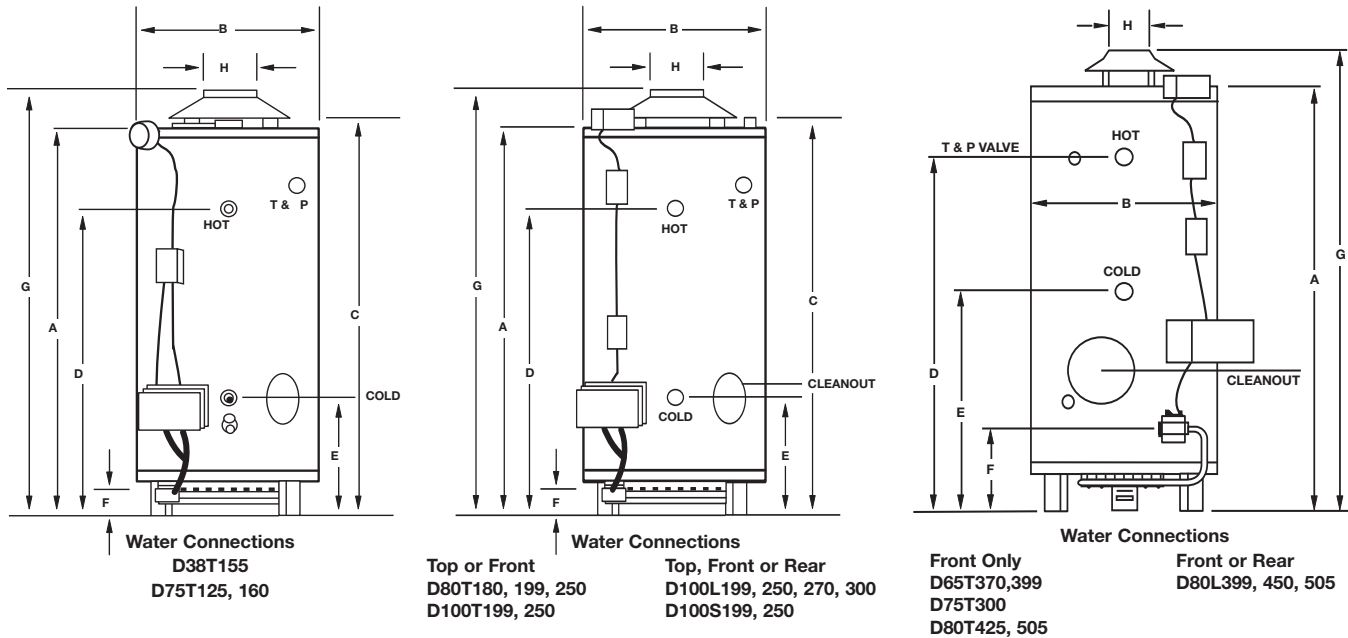
MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165; 5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983; 4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968; 4,672,919; Re. 34,534; 7,270,087 B2. 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; 2,409,271.

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



# Dimensions

## Commercial Energy Saver Gas Models— Electronic Ignition



All models are design certified by CSA International (formerly AGA and CGA) 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 by CSA International (formerly AGA and CGA 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 \_\_\_\_\_ extruded magnesium anode rods installed in separate head couplings and extended to within three inches (76mm) of the bottom. The heater shall be insulated with a Non-CFC foam. This water heater shall be equipped with an ASME rated T&P relief valve, electronic ignition system (115V/60Hz or 220V/50Hz required) and flue damper. 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.*

# Commercial Energy Saver Gas Electronic Ignition Dimensions in Inches

**ENERGY SAVER MODELS** Includes installed T&P Valve and Flue Damper with Electronic Ignition.

V	●	▲	★	MODEL NUMBER	NAT. & LP INPUT BTU	1ST HR. DEL. GAL. AT 100°F RISE	RECOVERY GPH AT DEGREE RISE			STG. CAP. U.S. GAL.	DIMENSIONS IN INCHES										WEIGHT		
							40°	100°	140°		A HT.	B DIA.	C TOP WTR. CONN.	D REAR/ FRONT HW CONN.	E REAR/ FRONT CW CONN.	F HT. TO GAS CONN.	G TOP VENT HT.	H VENT DIA.	WTR. CONN. DIA.	GAS CONN. DIA.	RELIEF VALVE OPEN.	STD.	ASME
V	●	▲	★	D-38T-155-3N	155,000	174	368	147	105	38	43	28½	—	34½	19½	4½	51	6	1½	¾	¾	438	—
V	●	▲	★	D-75T-125-3N	125,000	174	303	121	86	75	65	28½	67½	54½	34	4½	72½	5	1½	¾	¾	520	—
V	●	▲	★	D-75T-160-3N <sup>(LP)</sup>	160,000	204	378	151	108	75	65	28½	67½	54½	34	4½	72½	6	1½	¾	¾	520	—
V	●	▲	★	D-80T-180-3N	180,000	231	436	175	124	80	64½	28½	66½	56	19½	4½	72½	6	1½	¾	¾	540	—
V	●	▲	★	D-80T-199-3N <sup>(LP)</sup>	199,999	250	485	194	139	80	64½	28½	66½	56	19½	4½	72½	6	1½	¾	¾	540	—
V	●	▲	★	D-80T-250-3N(A) <sup>(LP)</sup>	250,000	298	606	242	173	80	64½	28½	66½	56	19½	4½	72½	6	1½	¾	1	540	590
V	●	▲	★	D-100T-199-3N	199,999	263	485	194	139	98	75½	28½	77½	67	19½	4½	83½	6	1½	¾	¾	610	—
V	●	▲	★	D-100T-250-3N(A) <sup>(LP)</sup>	250,000	311	606	242	173	98	75½	28½	77½	67	19½	4½	83½	6	1½	¾	1	610	690
V	●	▲	★	D-75T-300-3N (A)	300,000	344	727	291	208	75	64½	28½	—	54½	29	10½	72½	7	1½	¾	1	590	645
V	●	▲	★	D-65T-370-3N (A)	370,000	405	897	359	256	65	64½	28½	—	54½	29	10½	73½	8	1½	1(N) ¾(LP)	1	665	720
V	●	▲	★	D-65T-399-3N (A) *	399,999	424	970	388	277	65	64½	28½	—	54½	29	10½	73½	8	1½	1 (N)	1	665	720
V	●	▲	★	D-80T-425-3N (A)	425,000	468	1030	412	294	80	75½	28½	—	64½	29	10½	82½	10	1½	¾	1	750	800
V	●	▲	★	D-80T-505-3N (A)	505,000	527	1178	471	337	80	75½	28½	—	64½	29	10½	82½	10	1½	¾	1	750	800
V	●	▲	★	D-80L-399-3N(A) <sup>(LP)</sup>	399,999	444	970	388	277	80	60	30¼	—	51½	23½	10½	71½	8	1½	¾(LP)	1	800	835
V	●	▲	★	D-80L-450-3N(A) <sup>(LP)</sup>	450,000	492	1091	436	312	80	60	30¼	—	51½	23½	10½	69½	10	1½	¾(LP)	1	800	835
V	●	▲	★	D-80L-505-3N(A) <sup>(LP)</sup>	505,000	545	1224	489	350	80	60	30¼	—	51½	23½	10½	69½	10	1½	¾(LP)	1	800	835
V	●	▲	★	D-100L-199-3N(A)	199,999	264	485	194	139	100	65	30¼	67	56½	23½	4½	75	6	1½	¾	¾	725	—
V	●	▲	★	D-100L-250-3N(A)	250,000	312	606	242	173	100	65	30¼	67	56½	23½	4½	75	6	1½	¾	¾	725	765
V	●	▲	★	D-100L-270-3N(A) *	270,000	332	655	262	187	100	65	30¼	67	56½	23½	4½	75	6	1½	¾	¾	725	765
V	●	▲	★	D-100L-300-3N(A)	300,000	361	727	291	208	100	65	30¼	67	56½	23½	4½	75½	7	1½	¾	¾	725	765
V	●	▲	★	D-100S-199-3N(A)	199,999	264	485	194	139	100	72½	28½	75	60½	20½	4½	76½	6	1½	¾	¾	667	—
V	●	▲	★	D-100S-250-3N(A)	250,000	312	606	242	173	100	72½	28½	75	60½	20½	4½	76½	6	1½	¾	¾	667	702

For LP models change suffix "N" to "X".

V - 115V/60Hz or 220V/50Hz Required

● - Electronic Ignition

▲ - 80% Thermal Efficient

★ - Listed with California Energy Commission

\* - Available with Natural Gas Only

(A) - ASME

T - Top Water Connection

R - Rear Water Connection

F - Front Water Connection

NSF Available

**For LowNOx compliance to meet SCAQMD requirements, place an "E" following the BTU Input identifier of the model number.**  
**Example: D-75T-125E-3N**

These models meet or exceed the Thermal Efficiency and Standby Loss Requirements of ASHRAE 90.1b (current standard).

Energy Saver Series feature Hand Hole Cleanout on all models.

Recoveries listed on the rating plates are based on actual thermal efficiency.

Recoveries and First Hour Delivery Rating are based on Thermal Efficiencies ranging up to 80%.

150 PSI (1034 kPa) Working Pressure, 300 PSI (2068 kPa) Test Pressure.

(LP) Propane Gas Inputs	1ST HR. DEL. GAL. 100°F RISE	RECOVERY GPH			
		40°F	100°F	140°F	
D-75T-160	155,000 BTU/H	199	366	147	105
D-80T-199	190,000 BTU/H	240	461	184	132
D-80T-250	235,000 BTU/H	284	570	228	163
D-100T-250	235,000 BTU/H	297	570	228	163
D-80L-399	375,000 BTU/H	420	909	364	260
D-80L-450	425,000 BTU/H	468	1030	412	294
D-80L-505	475,000 BTU/H	517	1152	461	329

# Commercial Energy Saver Gas Electronic Ignition Dimensions in Millimeters

**ENERGY SAVER MODELS** Includes installed T&P Valve and Flue Damper with Electronic Ignition.

V	●	▲	★	MODEL NUMBER	KW INPUT	1ST HR. DEL. LTR. AT 56°C RISE	RECOVERY LPH AT DEGREE RISE			STORAGE LITERS	DIMENSIONS IN MILLIMETERS										WEIGHT		
							22°	56°	78°		A HT.	B DIA.	C TOP WTR. CONN.	D REAR/FRONT HW CONN.	E REAR/FRONT CW CONN.	F HT. TO GAS CONN.	G TOP VENT HT.	H VENT DIA.	WTR. CONN. DIA.	GAS CONN. DIA.	RELIEF VALVE OPEN.	STD WT. (KG)	ASME WT. (KG)
V	●	▲	★	D-38T-155-3N	45.4	659	1391	556	397	144	1092	718	—	883	492	117	1295	152	38	19	19	199	—
V	●	▲	★	D-75T-125-3N	36.6	659	1147	458	326	284	1651	718	1705	1384	864	121	1835	127	38	19	19	236	—
V	●		★	D-75T-160-3N(LP)	46.8	772	1431	572	409	284	1651	718	1705	1384	864	121	1835	152	38	19	19	236	—
V	●	▲	★	D-80T-180-3N	52.7	874	1650	662	469	303	1638	718	1683	1422	495	121	1838	152	38	19	19	245	—
V	●	▲	★	D-80T-199-3N(LP)	58.6	946	1836	734	526	303	1638	718	1683	1422	495	121	1838	152	38	19	19	245	—
V	●	▲	★	D-80T-250-3N(A)(LP)	73.2	1128	2294	916	655	303	1638	718	1683	1422	495	121	1838	152	38	19	25	245	268
V	●	▲	★	D-100T-199-3N	58.6	995	1836	734	526	371	1918	718	1962	1702	495	121	2118	152	38	19	19	277	—
V	●	▲	★	D-100T-250-3N(A)(LP)	73.2	1177	2294	916	655	371	1918	718	1962	1702	495	121	2118	152	38	19	25	277	313
V	●	▲	★	D-75T-300-3N (A)	87.9	1302	2752	1101	787	284	1638	718	—	1378	737	267	1851	178	38	19	25	268	293
V	●	▲	★	D-65T-370-3N (A)	108.4	1533	3395	1359	969	246	1638	718	—	1378	737	267	1864	203	38	25(N) 19(LP)	25	302	327
V	●	▲	★	D-65T-399-3N (A) *	117.2	1605	3671	1469	1048	246	1638	718	—	1378	737	267	1864	203	38	25	25	302	327
V	●	▲	★	D-80T-425-3N (A)	124.5	1771	3899	1559	1113	303	1918	718	—	1632	737	267	2102	254	38	25(N) 19(LP)	25	340	363
V	●		★	D-80T-505-3N (A)	148.0	1995	4459	1783	1276	303	1918	718	—	1632	737	267	2102	254	38	25(N) 19(LP)	25	340	363
V	●	▲	★	D-80L-399-3N(A) (LP)	117.2	1681	3671	1469	1048	303	1524	768	—	1308	597	267	1816	203	38(T&F) 51(R)	25(N) 19(LP)	25	363	379
V	●	▲	★	D-80L-450-3N(A) (LP)	131.8	1862	4129	1650	1181	303	1524	768	—	1308	597	267	1762	254	38(T&F) 51(R)	25(N) 19(LP)	25	363	379
V	●	▲	★	D-80L-505-3N(A) (LP)	148.0	2063	4633	1851	1325	303	1524	768	—	1308	597	267	1762	254	38(T&F) 51(R)	25(N) 19(LP)	25	363	379
V	●	▲	★	D-100L-199-3N	58.6	999	1836	734	526	379	1651	768	1702	1435	597	114	1905	152	38(T&F) 51(R)	19	19	329	—
V	●	▲	★	D-100L-250-3N(A)	73.2	1181	2294	916	655	379	1651	768	1702	1435	597	114	1905	152	38(F) 51(R)	19	25	329	347
V	●	▲	★	D-100L-270-3N(A) *	79.0	1257	2479	992	708	379	1651	768	1702	1435	597	114	1905	152	38(F) 51(R)	19	25	329	347
V	●	▲	★	D-100L-300-3N(A)	87.9	1366	2752	1101	787	379	1651	768	1702	1435	597	114	1921	178	38(F) 51(R)	19	25	329	347
V	●	▲	★	D-100S-199-3N(A)	58.6	999	1836	734	526	379	1851	718	1905	1537	527	114	1949	152	38(T&F) 51(R)	19	19	302	—
V	●	▲	★	D-100S-250-3N(A)	73.2	1181	2294	916	655	379	1851	718	1905	1537	527	114	1949	152	38(T&F) 51(R)	19	25	302	318

For LP models change suffix "N" to "X".

V - 115V/60Hz or 220V/50Hz Required

● - Electronic Ignition

▲ - 80% Thermal Efficient

★ - Listed with California Energy Commission

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These models meet or exceed the Thermal Efficiency and Standby Loss Requirements of ASHRAE 90.1b (current standard).

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150 PSI (1034 kPa) Working Pressure, 300 PSI (2068 kPa) Test Pressure.

(LP) Propane Gas Inputs	1ST HR. DEL. LTR	RECOVERY LPH			
		56°C	22°C	56°C	78°C
D-75T-160	45.4 KW/H	753	1385	556	397
D-80T-199	55.7 KW/H	908	1745	696	500
D-80T-250	68.9 KW/H	1075	2157	863	616
D-100T-250	68.9 KW/H	1124	2157	863	616
D-80L-399	109.9 KW/H	1590	1147	1378	984
D-80L-450	124.5 KW/H	1771	3899	1559	1113
D-80L-505	139.2 KW/H	1957	4360	1745	1245



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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