

Commercial Electronic Ignition Energy Saver Water Heater



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

The Commercial Electronic Ignition Models feature:

- **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 AC required to heater). Ignition system operates off of 24 volts.
- **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.
- **Factory Installed Hydrojet® Sediment Reduction System**—Cold water inlet sediment reducing device helps prevent sediment build up in tank. Increases first hour delivery of hot water while minimizing temperature build up in tank.
- **Vitraglas® Lining**—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 our hot water tanks.
- **Non-CFC Foam Insulation**—Covers the sides and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.
- **Magnesium Anode Rods**—Provide added protection against corrosion for long trouble-free service.
- **T&P Relief Valve**—Included.
- **Brass Drain Valve.**
- **NSF construction available.**
- **Design certified by CSA International (formerly AGA/CGA).**
- **North Carolina Code Compliant.**
- **ASME code available on all models above 200,000 BTU/Hr. (58.6KW).**



3-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: 5,954,492; 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. Solar Saver®, Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.

Electronic Ignition Series Water Heater

Dimensions are in inches.

Electronic Ignition Energy Saver Models

NATURAL GAS AND LIQUID PROPANE GAS

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

Model Number	Capacity		Nat. BTU/Hr. Input	LP BTU/Hr. Input	1st Hour Delivery Rating at 100°F Rise	GPH Recovery at Degree Rise*			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.	Gas Conn. Dia. in.	Relief Valve Open. in.	Approx. Shipping Weight (lbs.)	
	U.S. Gal.	Imp. Gal.				40°F	100°F	140°F												Std.	ASME
D-38T-155-3N+	38	—	155,000	—	177	376	150	107	51	28 1/4	6	34 3/4	4 5/8	19 3/8	43	—	1 1/2	3/4	3/4	438	—
D-75T-125-3N	75	—	125,000	—	174	303	121	86	72 1/4	28 1/4	5	54 1/2	4 3/4	34	65	67 1/8	1 1/2	3/4	3/4	520	—
D-75T-160-3N(LP)	75	—	160,000	—	208	389	155	111	72 1/4	28 1/4	6	54 1/2	4 3/4	34	65	67 1/8	1 1/2	3/4	3/4	520	—
D-80T-180-3N	80	—	180,000	—	231	436	175	124	72 3/8	28 1/4	6	56	4 3/4	19 1/2	64 1/2	66 1/4	1 1/2	3/4	3/4	540	—
D-80T-199-3N	80	—	199,999	—	250	485	194	139	72 3/8	28 1/4	6	56	4 3/4	19 1/2	64 1/2	66 1/4	1 1/2	3/4	3/4	540	—
D-80T-250-3N(A)(LP)	80	—	250,000	—	298	606	242	173	72 3/8	28 1/4	6	56	4 3/4	19 1/2	64 1/2	66 1/4	1 1/2	3/4	1	540	590
D-100T-199-3N	98	—	199,999	—	263	485	194	139	83 3/8	28 1/4	6	67	4 3/4	19 1/2	75 1/2	77 1/4	1 1/2	3/4	3/4	610	—
D-100T-250-3N(A)(LP)	98	—	250,000	—	311	606	242	173	83 3/8	28 1/4	6	67	4 3/4	19 1/2	75 1/2	77 1/4	1 1/2	3/4	1	610	690
D-75T-300-3N(A)	75	—	300,000	—	344	727	291	208	72 3/8	28 1/4	7	54 1/4	10 1/2	29	64 1/2	—	1 1/2	3/4	1	590	645
D-65T-370-3N(A)	65	—	370,000	—	405	897	359	256	73 3/8	28 1/4	8	54 1/4	10 1/2	29	64 1/2	—	1 1/2	3/4	1	665	720
D-65T-399-3N(A)**	65	—	399,999	—	424	970	388	277	73 3/8	28 1/4	8	54 1/4	10 1/2	29	64 1/2	—	1 1/2	1(N)	1	665	720
D-80T-425-3N(A)	80	—	425,000	—	468	1030	412	294	82 3/4	28 1/4	10	64 1/4	10 1/2	29	75 1/2	—	1 1/2	1(N)	1	750	800
D-80T-505-3N(A)	80	—	505,000	—	527	1178	471	337	82 3/4	28 1/4	10	64 1/4	10 1/2	29	75 1/2	—	1 1/2	1(N)	1	750	800
D-100S-199-3N	100	—	199,999	—	264	485	94	139	76 3/4	28 1/4	6	60 1/2	4 1/2	20 3/4	72 7/8	75	1 1/2 (T&P)	3/4	3/4	667	—
D-100S-250-3N(A)	100	—	250,000	—	312	606	242	173	76 3/4	28 1/4	6	60 1/2	4 1/2	20 3/4	72 7/8	75	1 1/2 (T&P)	3/4	1	667	702
D-100L-199-3N	100	—	199,999	—	264	485	194	139	75	30 1/4	6	56 1/2	4 1/2	23 1/2	65	67	1 1/2 (T&P)	3/4	3/4	725	—
D-100L-250-3N(A)	100	—	250,000	—	312	606	242	173	75	30 1/4	6	56 1/2	4 1/2	23 1/2	65	67	1 1/2 (T&P)	3/4	1	725	765
D-100L-270-3N(A)**	100	—	270,000	—	332	655	262	187	75	30 1/4	6	56 1/2	4 1/2	23 1/2	65	67	1 1/2 (T&P)	3/4	1	725	765
D-100L-300-3N(A)	100	—	300,000	—	361	727	291	208	75 5/8	30 1/4	7	56 1/2	4 1/2	23 1/2	65	67	1 1/2 (T&P)	3/4	1	725	765
D-80L-399-3N(A)(LP)	80	—	399,999	—	444	970	388	277	71 1/2	30 1/4	8	51 1/2	10 1/2	23 1/2	60	—	1 1/2 (T&P)	1(N)	1	800	835
D-80L-450-3N(A)(LP)	80	—	450,000	—	492	1091	436	312	69 3/8	30 1/4	10	51 1/2	10 1/2	23 1/2	60	—	1 1/2 (T&P)	1(N)	1	800	835
D-80L-505-3N(A)(LP)	80	—	505,000	—	545	1224	489	350	69 3/8	30 1/4	10	51 1/2	10 1/2	23 1/2	60	—	1 1/2 (T&P)	1(N)	1	800	835
D-65T-625-3N(A)	65	—	625,000	—	651	1515	606	433	68 7/8	28 1/4	8	54 1/8	10 1/2	28 7/8	69 3/8	—	1 1/2	3/4	1	720	775
D-80T-725-3N(A)	80	—	725,000	—	759	1757	703	502	79 1/8	28 1/4	8	64 1/4	10 1/2	28 7/8	79 3/8	—	1 1/2	3/4	1	800	880

(A) = ASME Code Available

(F) = Front Water Connection

(R) = Rear Water Connection

(T) = Top Water Connection

** = Available in Natural Gas Only

+ = Fiberglass Insulation

For Propane Gas models change suffix "N" to "X".

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

Low NOx models are not available for inputs over 399,999

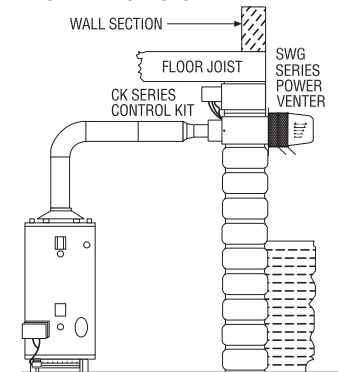
For Low NOx compliance to meet SCAQMD requirements place an "E" following the BTU input identifier of the model number.

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.

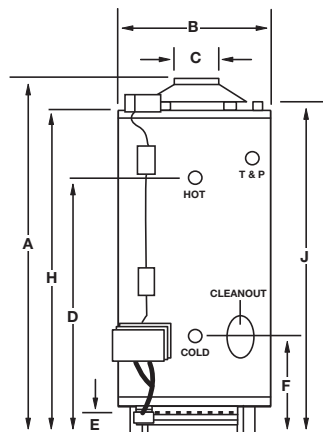
TYPICAL APPLICATIONS



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

BTU Input Range
 125,000 to 290,000 BTU's: 239-81764-00
 300,000 to 399,999 BTU's: 239-81766-00
 425,000 to 505,000 BTU's: 239-82148-00

Kit Number
 239-81764-00
 239-81766-00
 239-82148-00



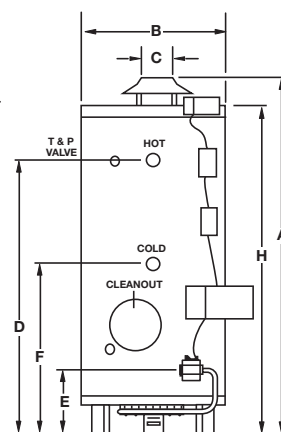
Water Connections

Top or Front

D75T125, 160
 D80T180, 199, 250
 D100T199, 250

Front or Rear

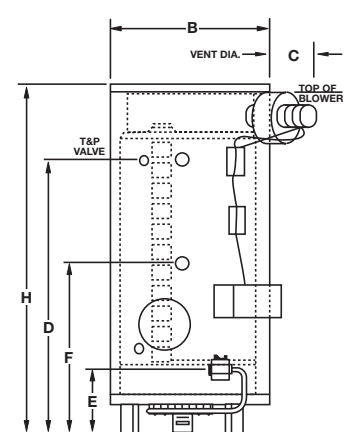
D38T155
 Top, Front or Rear
 D100L199, 250, 270, 300
 D100S199, 250



Water Connections

Front Only

D65T370, 399
 D75T300
 D80T425, 505
 Front or Rear
 D80L399, 450, 505



Water Connections

Front Only

D65T625
 D80T725

Electronic Ignition Series Water Heater

Dimensions are in millimeters.

Electronic Ignition Energy Saver Models

NATURAL GAS AND LIQUID PROPANE GAS

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

Model Number	Capacity Liters	Nat. kW/Hr. Input	LP kW/Hr. Input	1st Hour Delivery Rating at 56°C Rise	LPH Recovery at Degree Rise*			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.	Gas Conn. Dia. mm.	Relief Valve Open. mm.	Approx. Shipping Weight (kg.)	
					22°C	56°C	78°C												Std.	ASME
D-38T-155-3N+	—	45.4	—	659	1391	556	397	1295	718	152	883	117	492	1092	—	38	19	19	199	—
D-75T-125-3N	—	36.6	—	659	1147	458	326	1835	718	127	1384	121	864	1651	1705	38	19	19	236	—
D-75T-160-3N(LP)	—	46.8	—	772	1431	572	409	1835	718	152	1384	121	864	1651	1705	38	19	19	236	—
D-80T-180-3N	—	52.7	—	874	1650	662	469	1838	718	152	1422	121	495	1638	1683	38	19	19	245	—
D-80T-199-3N	—	58.6	—	946	1836	734	526	1838	718	152	1422	121	495	1638	1683	38	19	19	245	—
D-80T-250-3N(A)(LP)	—	73.2	—	1128	2294	916	655	1838	718	152	1422	121	495	1638	1683	38	19	25	245	268
D-100T-199-3N	—	58.6	—	995	1836	734	526	2118	718	152	1702	121	495	1918	1962	38	19	19	277	—
D-100T-250-3N(A)(LP)	—	73.2	—	1177	2294	916	655	2118	718	152	1702	267	495	1918	1962	38	19	25	277	313
D-75T-300-3N(A)	—	87.9	—	1302	2752	1101	787	1851	718	178	1378	267	737	1638	—	38	19	25	268	393
D-65T-370-3N(A)	—	108.4	—	1533	3395	1359	969	1864	718	203	1378	267	737	1638	—	38	25	25	302	327
D-65T-399-3N(A)**	—	117.2	—	1605	3671	1469	1048	1864	718	203	1378	267	737	1638	—	38	25	25	302	327
D-80T-425-3N(A)	—	124.5	—	1771	3899	1559	1113	2102	718	254	1632	267	737	1918	—	38	25	25	340	363
D-80T-505-3N(A)	—	148.0	—	1995	4459	1783	1276	2102	718	254	1632	267	737	1918	—	38	25	25	340	363
D-100S-199-3N	—	58.6	—	999	1836	734	526	1949	718	152	1537	114	527	1851	1905	38 (T&P) 51 (R)	19	19	302	—
D-100S-250-3N(A)	—	73.2	—	1181	2294	916	655	1949	718	152	1537	114	527	1851	1905	38 (T&P) 51 (R)	19	25	302	318
D-100L-199-3N	—	58.6	—	999	1836	734	526	1905	768	152	1435	114	597	768	1702	38 (T&P) 51 (R)	19	19	329	—
D-100L-250-3N(A)	—	73.2	—	1181	2294	916	655	1905	768	152	1435	114	597	768	1702	38 (T&P) 51 (R)	19	25	329	347
D-100L-270-3N(A)**	—	79.0	—	1257	2479	992	708	1905	768	152	1435	114	597	768	1702	38 (T&P) 51 (R)	19	25	329	347
D-100L-300-3N(A)	—	87.9	—	1366	2752	1101	787	1921	768	178	1435	114	597	768	1702	38 (T&P) 51 (R)	19	25	329	347
D-80L-399-3N(A)(LP)	—	117.2	—	1681	3671	1469	1048	1816	768	203	1308	267	597	768	—	38 (T&P) 51 (R)	25	25	363	379
D-80L-450-3N(A)(LP)	—	131.8	—	1862	4129	1650	1181	1762	768	254	1308	267	597	768	—	38 (T&P) 51 (R)	25	25	363	379
D-80L-505-3N(A)(LP)	—	148.0	—	2063	4633	1851	1325	1762	768	254	1308	267	597	768	—	38 (T&P) 51 (R)	25	25	363	379
D-65T-625-3N(A)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
D-80T-725-3N(A)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(A) = ASME Code Available

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(R) = Rear Water Connection

(T) = Top Water Connection

** = Available in Natural Gas Only

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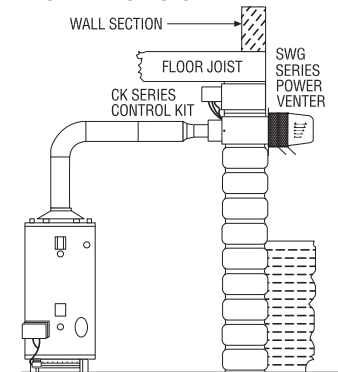
For Low NOx compliance to meet SCAQMD requirements place an "E" following the BTU input identifier of the model number.

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

Amperage Draw = .5 for damper models/less than 4 for induced draft models.

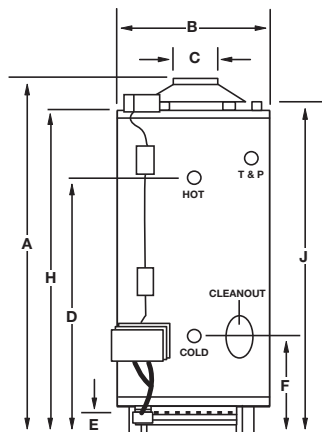
Power Vent Kits – available for inputs from 125,000 to 505,000.

TYPICAL APPLICATIONS



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

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



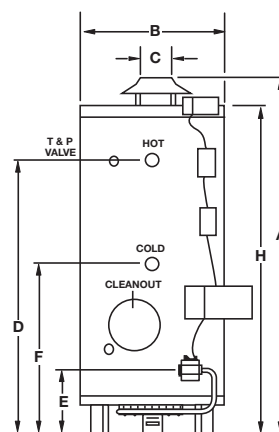
Water Connections

Top or Front

D75T125, 160
D80T180, 199, 250
D100T199, 250

Front or Rear

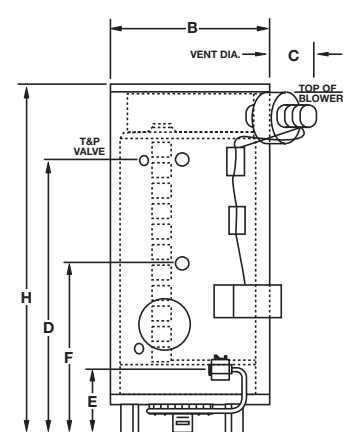
D38T155
Top, Front or Rear
D100L199, 250, 270, 300
D100S199, 250



Water Connections

Front Only

D65T370, 399
D75T300
D80T425, 505
Front or Rear
D80L399, 450, 505



Water Connections

Front Only

D65T625
D80T725

Electronic Ignition Series Water Heater

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 AC required) and flue damper. The entire installation shall be made in compliance with state and local codes and ordinances.

General

All electric water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All potable water and electrical connections are 3/4" NPT (19mm) on 8" (203mm) centers. All models UL listed.

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

Suitable for Water (Potable) Heating and Space Heating.

Toxic chemicals, such as those used for boiler treatment, shall NEVER be introduced into the potable side of this system. The potable side may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance.



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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