www.bradfordwhite.com

Commercial Water Heaters

Built To Be The Best™

MADE IN AMERICA

BRADFORD WHITE®
WATER HEATERS

THE BRADFORD WHITE MAGNUM SERIES SOLUTION

Bradford White's MAGNUM Series® is an extensive line of commercial water heaters that are used by specifiers, architects, engineers, mechanical contractors and building owners for practically every type of commercial installation. This all-inclusive line provides solutions to the multitude of challenges faced when specifying, buying and installing commercial water heating products.

Most importantly, the water heaters showcased in this catalog incorporate features and design characteristics that result in greater durability, more reliable and energy efficient performance, exceptional installation flexibility, and cost savings.

Hotels, motels, restaurants, medical centers, schools, universities, public buildings, apartments, health clubs, stadiums, prisons, office buildings, shopping centers, laundromats and more - no matter what the call for hot water, there's a MAGNUM Series® solution.

THE MOST EXTENSIVE LINE OF COMMERC

COMMERCIAL GAS MODELS

COMMERCIAL ELECTRIC MODELS

COMMERCIAL OIL MODELS

COMMERCIAL INDIRECT MODELS

COMMERCIAL STORAGE TANKS

RCIAL WATER HEATERS IN THE INDUSTRY.

INNOVATION AN

RightSpec® Commercial Product Sizing Program

When the industry needed a tool to make sure they sized the right water heater for the job, Bradford White brought out the first user-friendly electronic sizing program. It is the most

comprehensive and intuitive program of its kind. You get real time solutions to any commercial installation and more. You can feel confident that when you use RightSpec®, you are specifying it right the first time! Specifiers can also find Revit drawings of our commercial products on AutoDesk® Seek and SmartBIM®.

Hydrojet® Total Performance System

The Hydrojet® Total Performance System is a cold-water inlet tube engineered to reduce costly sediment buildup, create more thorough mixing of incoming water with stored water, and reduce extreme temperature differences throughout the tank. Water Heaters with the Hydrojet Total Performance System don't have to work as hard or as often to maintain a maximum supply of hot water at the desired temperature. They heat water faster and use less energy to do it.

Bradford White ICON System™ Intelligent Gas Control

Bradford White's exclusive gas control technology offers numerous benefits including Advanced Temperature Control for consistent and accurate water temperature levels, Performance Software for enhanced First Hour Delivery ratings and tighter temperature differentials, Intelligent Diagnostics to assist in troubleshooting, and Pilot-On-Indication. The ICON System™ is another competitive advantage for specifiers, professional installers, and wholesalers. Best of all, it's provided at no extra cost.

Bradford White ICON HD™ Integrated Commercial Control System

Bradford White's ICON HD is an intelligent Honeywell® Integrated Control that offers improved reliability and reduced downtime. It combines temperature control, diagnostic codes, and system functions and status into a single digital LCD interface. Available only from Bradford White, it comes standard on our entire line of heavy duty electronic ignition commercial water heaters.

The Defender Safety System® and Eco-Defender Safety System®

The Defender Safety System® and Eco-Defender Safety System® are proven combustion technologies that resist the ignition of flammable vapors outside the water heater. They offer outstanding efficiency and a long service life while providing virtually maintenance free operation. The Eco-Defender uses a radiant burner and an advanced control to cut normal NOx emission by 75% over standard models.

Commercial Programmable Setback Control

Designed to work with the ICON HD control system, the setback control kit offers full 7-day, 4 period/day programming of the water heater and the ability to adjust the stored water set point temperature. A setback feature lowers the set point temperature to save energy when hot water is not required.

ND RESOURCES

Phone Apps

Bradford White's RightSpec® Cross Reference, Warranty Check, and eF Series® Efficiency Calculator Apps are available for both Android™ and iOS platform devices. They are intuitive and easy-to-use and help save valuable time in the field. Visit Bradfordwhite.com for full details and download links.

Bradford White OnGuard RMT™

The OnGuard RMT™ water heater management system can help keep your customer's business up and running.

Once the OnGuard system is activated, Bradford White technicians monitor the water heater 24/7. Bradford White will contact the owner if the water heater indicates a fault or requires service and will also contact an authorized service contractor to perform any required repair or maintenance.

Bradford White ICON System™ Accessory Packages

ICON System™ accessories offer more hot water for the money, higher efficiency, greater energy savings, leak protection and full 7-day programmability. All Bradford White ICON System accessory packages have been design certified by Bradford White Water Heaters and engineered to rigorous safety performance criteria. ICON System Accessories integrate seamlessly with the Bradford White ICON System and make a great water heater even better.

24/7 Technical Support Center

Expert support, 24 hours a day, 7 days a week. Our Technical Service and Warranty Support personnel are U.S.-based, right inside our Technical Support facilities in Middleville, Michigan. Each technician goes through a rigorous training program before they take your call. Call Technical Support at 800-334-3393 and Warranty Support at 800-531-2111.

iTEC® – The International Technical Excellence Center

Bradford White's International Technical Excellence Center (iTEC) is an 18,500 sq. ft. state-of-the-art LEED certified training facility located adjacent to the company's manufacturing facilities in Middleville, MI. The iTEC facility hosts product and sales training events throughout the year for contractors, engineers, wholesale distributors and sales representatives from across the United States and Canada.

Certified Low Lead

Bradford White recognizes that our products are an integral part of a residential or commercial water system. We have therefore voluntarily had our products tested and certified by CSA International to the federal low lead requirements of the Safe Drinking Water Act.

BRADFORD WHITE®
WATER HEATERS

COMMERCIAL GAS MODELS

LIGHT DUTY ATMOSPHERIC VENT

Light Duty Atmospheric Vent models are perfect for smaller commercial applications that require more recovery than a residential water heater, but not as much as a larger commercial unit. Each of these models combines energy saving performance with the durability to withstand the day-to-day demands of commercial water heating. Light Duty Atmospheric Vent models are also available in Ultra Low NOx Eco-Defender Safety System® versions.

APPLICATIONS:

Fast food restaurants and office buildings

FEATURES:

full descriptions are available in glossary beginning on page 33

- **ICON System™ Control**
- **ICON System™ Accessory Package Compatible**
- **OnGuard RMT™ System Compatible – Accessory Module Required**
- **Defender Safety System®**
- **Hydrojet® Total Performance System**
- **Vitraglas® Lining**
- **¾" NPT Dielectric Waterway Fittings**
- **Max Temp - 180˚F**
- **NSF Construction Available**
- **Side Connections**
- **Factory Installed Heat Traps**
- **Snap Lock Draft Diverter**
- **Protective Magnesium Anode Rod**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **2" Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty–can be upgraded to 5–Year at additional cost**

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery at 100°F Rise* Nat. U.S. GPH	Recovery at 100°F Rise* LP U.S. GPH	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
50T-65FB-3N	48	65,000	61,000	63	59	59¼	22	4	164
65T-65FB-3N	65	65,000	63,000	63	61	63	24	4	205

These models are not recommended for sanitation purposes.
For Propane (LP) models change suffix "B" to "S" and "N" to "X" (Example: 50T-65FS-3X)
*Based on manufacturers rated recovery efficiency.

LIGHT DUTY ATMOSPHERIC VENT HIGH INPUT

These Light Duty models are atmospherically vented and offer larger gallon capacities and higher recovery rates. This translates to an increased amount of hot water available at a usable temperature in less time than normal input models. They are perfect for applications that demand larger volumes of water. Light Duty Atmospheric Vent High Input models are also available in Ultra Low NOx versions.

APPLICATIONS:

Small apartment buildings or small motels

FEATURES:

full descriptions are available in glossary beginning on page 33

- **ICON System™ Control**
- **ICON System™ Accessory Package Compatible**
- **OnGuard RMT™ System Compatible– Accessory Module Required**
- **Hydrojet®2 Total Performance System**
- **Vitraglas® Lining**
- **¾" NPT Dielectric Waterway Fittings**
- **Max Temp - 180˚F**
- **Pedestal Base (75T-80 only)**
- **Hand Hole Cleanout (Optional on 75T-80)**
- **Side Connections**
- **Snap Lock Draft Diverter**
- **Protective Magnesium Anode Rod (100–gallon model has two Anode Rods)**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **2" Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery at 100°F Rise* Nat. U.S. GPH	Recovery at 100°F Rise* LP U.S. GPH	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
75T-80B-3N	75	76,000	76,000	74	74	62 3/8	26	4	247
100T-88B-3N	100	85,000	88,000	82	85	69 1/32	28 1/4	4	420

These models are not recommended for sanitation purposes.
For Propane (LP) models change suffix "B" to "S" and "N" to "X" (Example: 75T-80S-3X)
*Based on manufacturers rated recovery efficiency.

LIGHT DUTY HIGH PERFORMANCE SERIES™ ATMOSPHERIC VENT

With incredible performance and unprecedented first hour delivery volumes, this High Performance model generates more than enough hot water for mop sinks, wash tubs and large wash sinks in addition to standard commercial duty.

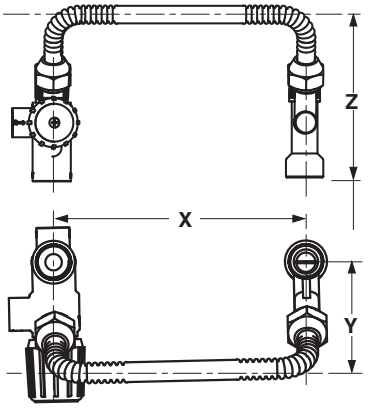
APPLICATIONS:

Large utility areas, wash tubs, and large wash sinks

FEATURES:

full descriptions are available in glossary beginning on page 33

- High Input Combustion System
- Integrated Mixing Device (see detail below)
- Helical Fin Flue
- Hydrojet®2 Total Performance System
- Vitraglas® Lining
- ¾" NPT Dielectric Waterway Fittings
- Max Temp - 180˚F
- Side Connections
- Snap Lock Draft Diverter
- Two Protective Magnesium Anode Rods
- Low Restriction Brass Drain Valve
- T&P Relief Valve Installed
- Non-CFC Foam Insulation
- 3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost



Integrated Mixing Device (IMD)
(Installation required for operation on High Performance Models)

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery at 100°F Rise* Nat. U.S. GPH	Recovery at 100°F Rise* LP U.S. GPH	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
55X-80B-3N	55	80,000	78,000	78	76	59⅝	22	4	200

These models are not recommended for sanitation purposes.
For Propane (LP) models change suffix "B" to "S" and "N" to "X" (Example: 55X-80B-3X)
*Based on manufacturers rated recovery efficiency.

IMD Dimensions

Model Number	X Distance Between Centers in.	Y Depth of Mixing Device in.	Z Height to Center of Pipe in.
55X-80B-3N	8	2½	6

Helical Fin Flue maximizes heat exchange capabilities to help raise thermal efficiency up to 82%.

LIGHT DUTY TTW® HIGH PERFORMANCE SERIES™ POWER VENT

Light Duty TTW® (Through-the-Wall) High Performance models provide maximum hot water deliverability from a space saving package. These models are perfect for applications where venting and space are a concern and if the required hot water demand is more than one standard water heater can provide.

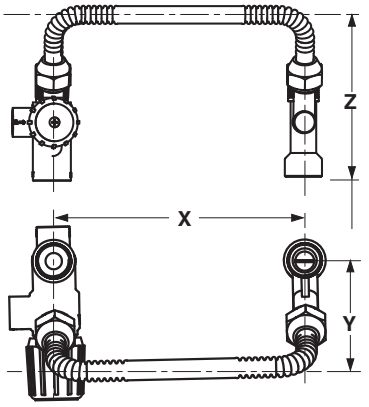
APPLICATIONS:

Small commercial kitchens and motels

FEATURES:

full descriptions are available in glossary beginning on page 33

- ICON System™ Control
- ICON System™ Accessory Package Compatible
- OnGuard RMT™ System Compatible– Accessory Module Required
- High Input Combustion System
- Electronic Ignition
- Integrated Mixing Device (see detail below)
- Helical Fin Flue
- Powerful and Quiet Blower Motor
- Horizontal and Vertical Venting
- Hydrojet®2 Total Performance System
- Vitraglas® Lining
- ¾" NPT Dielectric Waterway Fittings
- Max Temp - 180˚F
- Pedestal Base
- Side Connections
- Two Protective Magnesium Anode Rods
- Low Restriction Brass Drain Valve
- T&P Relief Valve Installed
- 2" Non-CFC Foam Insulation
- 3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost



Integrated Mixing Device (IMD)
(Installation required for operation on High Performance Models)

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery at 100°F Rise* Nat. U.S. GPH	Recovery at 100°F Rise* LP U.S. GPH	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
TW-55X-78B-3N	55	78,000	78,000	77	77	63¾	22	3	215

These models are not recommended for sanitation purposes.
For Propane (LP) models change suffix "B" to "S" and "N" to "X" (Example: TW-55X-78B-3X)
*Based on manufacturers rated recovery efficiency.
†Consult I&O Manual when using four or more elbows.

IMD Dimensions

Model Number	X Distance Between Centers in.	Y Depth of Mixing Device in.	Z Height to Center of Pipe in.
55X-80B-3N	8	2½	6

Helical Fin Flue maximizes heat exchange capabilities to help raise thermal efficiency up to 82%.

Venting Dimensions

TW-55X-78B-3N		3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length		†60 ft.	†180 ft.
Min. Equivalent Length		7 ft.	15 ft.
Number	1	55 ft.	175 ft.
of	2	50 ft.	170 ft.
90° Elbows	3	45 ft.	165 ft.

Subtract 5ft. for each additional 90° elbow.
†For high altitude installations, consult the installation instructions.

COMMERCIAL GAS MODELS

LIGHT DUTY TTW®

Light Duty TTW® (Through-the-Wall) units are perfect for applications where installation flexibility is as important as meeting hot water demands. Power vented for positive exhaust, these units can be vented horizontally and vertically up to 180 feet. These extremely long vent lengths solve difficult ventilation challenges. Light Duty TTW® models are also available in Ultra Low NOx versions.

APPLICATIONS:

Small commercial kitchens and strip malls

FEATURES:

full descriptions are available in glossary beginning on page 33

- ICON System™ Control
- ICON System™ Accessory Package Compatible
- OnGuard RMT™ System Compatible– Accessory Module Required
- Defender Safety System® (50 and 65-gallon models only)
- Electronic Ignition
- Powerful and Quiet Blower Motor
- Horizontal and Vertical Venting
- Hydrojet®2 Total Performance System (TW4-75S has Hydrojet® Total Performance System)
- Vitraglas® Lining
- ¾" NPT Dielectric Waterway Fittings
- Factory Installed Heat Traps
- Max Temp - 180˚F
- NSF Construction Available
- Side Connections
- Protective Magnesium Anode Rod
- Low Restriction Brass Drain Valve
- T&P Relief Valve Installed
- 2" Non-CFC Foam Insulation
- 3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery at 100°F Rise* Nat. U.S. GPH	Recovery at 100°F Rise* LP U.S. GPH	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size Min. in.	Approx. Shipping Weight lbs.
TW4-50S-67FB-3N	48	67,000	60,000	65	58	65 7/8	22	3	188
TW4-65S-70FB-3N	65	70,000	63,000	68	61	69	24	3	222
TW4-75S-76B-3N	75	76,000	75,500	74	73	68 3/8	26	3	257

These models are not recommended for sanitation purposes.
For Propane (LP) models change suffix "B" to "S" and "N" to "X" (Example: TW4-50S-67FS-3X)
*Based on manufacturers rated recovery efficiency.

Venting Dimensions

TW4-50S-67 TW4-65S-70 TW4-75S-76		3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length		†60 ft.**	†180 ft.
Min. Equivalent Length		7 ft.	15 ft.
Number	1	55 ft.	175 ft.
of	2	50 ft.	170 ft.
90° Elbows	3	45 ft.	165 ft.

Subtract 5ft. for each additional 90° elbow
†For high altitude installations, consult the installation instructions.
**TW4-75S Max. 3" vent length is 50ft.

LIGHT DUTY HIGH INPUT DIRECT VENT

Light Duty High Input Direct Vent models are the solution for air tight installations. Utilizing a closed combustion and co-axial concentric (pipe inside a pipe) direct venting system, they are perfect for installations that lack sufficient air for combustion. They require no electrical power yet still offer sidewall venting. For installation flexibility, venting options include a solid telescoping extension that can accommodate up to eight feet vertically and eight feet horizontally and a flexible vent kit that allows installations from 44" to 100" in total length. Light Duty High Input Direct Vent models are also available in Ultra Low NOx Eco-Defender Safety System® versions.

APPLICATIONS:

Beauty salons, small utility rooms, and closet installations

FEATURES:

full descriptions are available in glossary beginning on page 33

- **ICON System™ Control**
- **ICON System™ Accessory Package Compatible**
- **OnGuard RMT™ System Compatible–Accessory Module Required**
- **Defender Safety System®**
- **No Electric Power Necessary**
- **Optional Vent Kits**
- **Hydrojet® Total Performance System**
- **Vitraglas® Lining**
- **¾" NPT Dielectric Waterway Fittings**
- **Factory Installed Heat Traps**
- **Max Temp - 180˚F**
- **Cast Aluminum Air Intake Boot**
- **Pedestal Base**
- **Side Connections**
- **Protective Magnesium Anode Rod**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **1" Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Telescoping Solid Vent Kit (-SOLID), or Flexible Vent Kit (-FLEX) is shipped with the water heater.
Ex: DH-50T-50FB-3N-SOLID.
Ex: DH-50T-50FB-3N-FLEX.
When a Vent Kit is not needed or is required to be shipped separately add (-ONLY) to the model number.
EX: DH-50T-50FB-3N-ONLY.
Solid Vent Kit shipped separately P/N 239-48914-00. Flexible Vent Kit shipped separately P/N 239-48915-00.

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery at 100°F Rise* Nat. U.S. GPH	Recovery at 100°F Rise* LP U.S. GPH	Floor to Center Line of Vent in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
DH-50T-50FB-3N	48	50,000	48,000	47	45	75 1/4	20	4/6	190
DH-65T-55FB-3N	65	55,000	55,000	51	51	78 1/4	22	4/6	226
DH-75T-60FB-3N	75	60,000	57,000	56	53	75 1/2	24	4/6	261

These models are not recommended for sanitation purposes.
For LP Gas models, replace the suffix "B" with "S" and change the "N" to "X". (ExampleDH-50T-50FS-3X)
*Based on manufacturers rated recovery efficiency.

Circulating Loop Installation Kit (Optional — Not included with the water heater) 243-43103-00 (Dielectric Unions, Isolation Valves and Extended Nipples).
Optional vent kit : Kit "F" Telescopes from 4¾" to 5 1/16" Part No. 243-42516-00
Kit "G" Telescopes from 6½" to 9 3/16" Part No. 243-42517-00
Kit "H" Telescopes from 13¾" to 23 1/16" Part No. 243-42514-00
Kit "I" Telescopes from 49 13/16" to 95 13/16" Part No. 243-42512-00
Horizontal Vent Termination Only.

LIGHT DUTY POWER DIRECT VENT

Light Duty Power Direct Vent models are the solution for installations that lack sufficient combustion air or where an outside wall for ventilation is not readily accessible. All models can vent vertically or horizontally and are also approved for unbalanced, direct-vent closed combustion applications. Unbalanced venting means the air intake pipe doesn't have to be vented on the same external building surface as the exhaust vent. Light Duty Power Direct Vent models are also available in Ultra Low NOx Eco-Defender Safety System® versions.

APPLICATIONS:

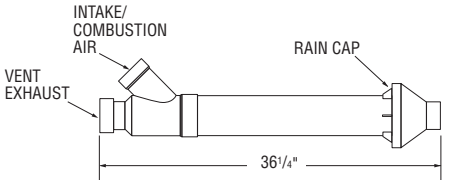
Office buildings, small apartments, and motels

FEATURES:

full descriptions are available in glossary beginning on page 33

- **ICON System™ Control**
- **ICON System™ Accessory Package Compatible**
- **OnGuard RMT™ System Compatible–Accessory Module Required**
- **Defender Safety System®**
- **Electronic Ignition**
- **Closed Combustion Venting System**
- **Powerful Blower Motor**
- **Horizontal and Vertical Venting**
- **Optional Concentric Vent Terminal Kit**
- **Hydrojet® Total Performance System**
- **Vitraglas® Lining**
- **Max Temp - 180˚F**
- **NSF Construction Available**
- **¾" NPT Dielectric Waterway Fittings**
- **Side Connections**
- **Protective Magnesium Anode Rod**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **2" Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Concentric Vent Terminal Kit



P/N 239-44069-01

(When using the Concentric Vent Terminal the maximum vent length is reduced by 10ft.)

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery at 100°F Rise* Nat. U.S. GPH	Recovery at 100°F Rise* LP U.S. GPH	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
PDX-50S-60FB-3N	48	60,000	60,000	58	58	68	22	3	303
PDX-65S-65FB-3N	65	65,000	60,000	63	58	71¼	24	3	330
PDX-75S-70FB-3N	75	70,000	65,000	68	63	71	26	3	375

These models are not recommended for sanitation purposes.
For LP Gas models, replace the suffix "B" with "S" and change the "N" to "X". (ExamplePDX-50S-60FS-3X)
*Based on manufacturers rated recovery efficiency.

Venting Dimensions

3" Vent Pipe		PDX-50S PDX-65S	PDX-75S
Max. Intake Length		60 ft.	50ft.
Max. Exhaust Length		60 ft.	50ft.
Min. Vent Length		7 ft.	7ft.
Number	1	55 ft.	45ft
of	2	50 ft.	40ft
90° Elbows†	3	45 ft.	35ft.

4" Vent Pipe		PDX-50S PDX-65S	PDX-75S
Max. Intake Length		100 ft.	90ft.
Max. Exhaust Length		100 ft.	90ft.
Min. Vent Length		7 ft.	7ft.
Number	1	95 ft.	85ft.
of	2	90 ft.	80ft.
90° Elbows†	3	85 ft.	75ft.

Subtract 5ft. for each additional 90° elbow.
†Consult I&O Manual when using four or more elbows.

EVERHOT® AND EVERHOT® HE CONDENSING TANKLESS

These tankless gas models offer the temperature, output and BTU/Hr. ranges to meet almost any demand for hot water. Stand-by heat loss is eliminated for optimal energy savings and the option to mount these units indoors and outdoors saves premium floor and room space. They offer variable, digital control of the water temperature while monitoring and maintaining efficiency. They can be manifolded together to serve even higher demands.

APPLICATIONS:

Small restaurants and office buildings

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Integrated Primary Control (Indoor)**
- **Remote Primary Control Included (Outdoor)**
- **A Commercial Controller (p/n 239-47805-00 for TG) and (p/n 239-48789-00 for TGHE) is Required for Commercial Applications**
- **96°-185°F Temperature Range**
- **Indoor or Outdoor Installation**
- **Natural Gas or Propane Gas**
- **Freeze Protection to -30˚F**
- **¾" NPT Dielectric Waterway Fittings**
- **Limited 5–Year Warranty on Heat Exchanger and Parts**

OPTIONAL FEATURES

- **All Venting is Optional (Must be ordered as separate line item product)**
- **Standard Horizontal or Vertical Venting Kits are Available**
- **Roof Flashing Assembly for Flat or Pitched Roofs**
- **Condensate Collector**
- **Pipe-cover Enclosure**
- **Indoor Models are Available with Vertical or Horizontal Discharge Adapters**
- **Recessed Wall Box Available**

ASK ABOUT ENERGY STAR

(TG-199I-N, TG-199E-N, TGHE-160I-N, TGHE-160E-N, TGHE-199I-N & TGHE-199E-N)

EverHot®

Model Number	Installation	Input Minimum Maximum Nat. BTU/Hr.	Maximum Hot Water Capacity Rise 35°F GPM	65°F GPM	100°F GPM	Height in.	Width in.	Depth in.	Approx. Shipping Weight lbs.
TG-150I-N	Indoor	15,000-150,000	5.0	4.2	2.5	23	14	9 1/2	50
TG-150E-N	Outdoor	15,000-150,000	5.0	4.2	2.5	20	14	7	37
TG-180I-N	Indoor	15,000-180,000	7.5	4.6	3.0	23	14	9 1/2	50
TG-180E-N	Outdoor	15,000-180,000	7.5	4.6	3.0	23	14	10	46
TG-199I-N	Indoor	15,000-199,000	9.4	5.0	3.3	23	14	9 1/2	50
TG-199E-N	Outdoor	15,000-199,000	9.4	5.0	3.3	23	14	10	46

Check local codes if installation is for sanitation purposes.

EverHot® HE Condensing

Model Number	Installation	Input Minimum Maximum Nat. BTU/Hr.	Maximum Hot Water Capacity Rise 35°F GPM	65°F GPM	100°F GPM	Height in.	Width in.	Depth in.	Approx. Shipping Weight lbs.
TGHE-160I-N	Indoor	9,500-157,000	8.0	4.6	3.0	26 13/32	18 1/2	10 7/64	64
TGHE-160E-N	Outdoor	9,500-157,000	8.0	4.6	3.0	26 13/32	18 1/2	10 7/64	64
TGHE-199I-N	Indoor	9,500-199,000	9.8	5.8	3.8	26 13/32	18 1/2	10 7/64	71
TGHE-199E-N	Outdoor	9,500-199,000	9.8	5.8	3.8	26 13/32	18 1/2	10 7/64	71

Check local codes if installation is for sanitation purposes.
For Propane (LP) Models change suffix "N" to "X". (ExampleTG-150I-X) Requires AC 120 Volts - 60 Hz.
Indoor models supplied with a 120 Volt power cord.

ADDITIONAL MODELS AVAILABLE SOON

ULTRA LOW NOx ATMOSPHERIC VENT COMMANDER SERIES™

The Commander Series™ of atmospherically vented, Ultra Low NOx water heaters offers class leading features from top to bottom. First is its overall compact design. The smaller footprint and shorter height allow installation in tighter spaces or where existing venting restricts vertical space. An advanced down-fired, premix power burner automatically regulates for optimum combustion and efficiency. With 82% thermal efficiency and the ICON HD™ Commercial Control System, The Commander Series™ is an excellent solution for an unlimited number of commercial gas installations.

APPLICATIONS:

Apartments, hotels, schools, and restaurants

FEATURES:

full descriptions are available in glossary beginning on page 33

- 82% Thermal Efficiency
- ICON HD™ Commercial Control System
- OnGuard RMT™ System Compatible
- Direct Spark Ignition
- Two Pass Heat Exchanger System
- Pre-Mix Power Burner
- Submerged Combustion Chamber
- Hydrojet® Sediment Reduction System
- Vitraglas® Lining
- Zero Inch Clearance to Combustibles
- Integrated Exhaust System
- Optional Air Intake Ducting
- Hand Hole Cleanout
- Max Temp - 180˚F
- NSF Construction Available
- 1 ½" NPT Dielectric Waterway Fittings
- Top and Side Water Connections
- Complies with Current Ultra Low NOx Requirements
- All Models Listed with California Energy Commission
- Low Restriction Brass Drain Valve
- T&P Relief Valve Installed – Built-in Alternate T&P Location
- Three Protective Magnesium Anode Rods
- Non-CFC Foam Insulation
- 3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost

Model Number	Capacity U.S. Gal.	Input Nat./LP BTU/Hr.	Recovery GPH at Degree Rise 40˚F	100˚F	140˚F	Thermal Efficiency	Floor to Vent Conn. in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
UCG-100H-199-3N	100	199,999	493	197	141	82.0	73 1/4	28 1/4	632
UCG-100H-270-3N	100	270,000	665	266	190	82.0	73 1/4	28 1/4	632

Model	2" PVC, ABS, or CPVC	3" PVC, ABS, or CPVC	4" PVC, ABS, or CPVC
UCG-100H-199-3(N,X)	20 ft.	50 ft.	75 ft.
UCG-100H-270-3(N,X)	20 ft.	50 ft.	75 ft.

Footnotes:
Check local codes if installation is for sanitation purposes.
For Propane (LP) Models change suffix "N" to "X". (Example: UCG-100H-199-3X) Natural gas models comply with the latest Ultra Low NOx requirements (14 ng/J or less).
Amp Draw range = 1.0 to 1.8 amps.

ASME & NON-ASME ELECTRONIC IGNITION

ASME and Non-ASME Electronic Ignition models, featuring the ICON HD™ Commercial Control System, provide solutions to applications with various demands for hot water. With capacities ranging from 38 – 100 gallons and with inputs from 125,000 - 505,000 BTU/Hr., there's a model that will meet most any requirement. Power Vent kits are available for all models.

APPLICATIONS:

Apartments, cafeterias, and restaurants

FEATURES:

full descriptions are available in glossary beginning on page 33

- **ICON HD™ Commercial Control System**
- **OnGuard RMT™ System Compatible**
- **Electronic Ignition**
- **Hydrojet® Sediment Reduction System**
- **Vitraglas® Lining**
- **Max Temp - 180˚F**
- **Energy Cut-Off (E.C.O.)**
- **Hand Hole Cleanout**
- **NSF Construction Available**
- **ASME Construction Available on all Models Over 199,999 BTU/Hr.**
- **1 ½" NPT Dielectric Waterway Fittings**
- **Low NOx Models Available**
- **Protective Magnesium Anode Rod**
- **T&P Relief Valve Installed**
- **Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery* GPH at Degree Rise 40°F	100°F	140°F	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs. STD.	ASME
D-38T-155-3N+	38	155,000	155,000	376	150	107	51	28 1/4	6	438	–
D-75T-125-3N	75	125,000	125,000	303	121	86	72 1/4	28 1/4	5	520	–
D-75T-160-3N	75	160,000	155,000	389	155	111	72 1/4	28 1/4	6	520	–
D-80T-180-3N	80	180,000	180,000	436	175	124	71 7/8	28 1/4	6	540	–
D-80T-199-3N	80	199,999	199,999	485	194	139	71 7/8	28 1/4	6	540	–
D-80T-250-3N(A)	80	250,000	235,000	606	242	173	71 3/8	28 1/4	6	540	590
D-100T-199-3N	98	199,999	199,999	485	194	139	83 3/8	28 1/4	6	610	–
D-100T-250-3N(A)	98	250,000	235,000	606	242	173	83 3/8	28 1/4	6	610	690
D-75T-300-3N(A)	75	300,000	300,000	727	291	208	74 3/8	28 1/4	7	590	645
D-65T-370-3N(A)	65	370,000	370,000	897	359	256	73 1/4	28 1/4	8	665	720
D-65T-399-3N(A)**	65	399,999	399,999	970	388	277	73 1/4	28 1/4	8	665	720
D-80T-425-3N(A)	80	425,000	425,000	1030	412	294	82 3/4	28 1/4	10	750	800
D-80T-505-3N(A)	80	505,000	505,000	1178	471	337	82 3/4	28 1/4	10	750	800
D-100S-199-3N	100	199,999	199,999	485	194	139	76 3/4	28 1/4	6	667	–
D-100S-250-3N(A)	100	250,000	250,000	606	242	173	76 3/4	28 1/4	6	667	702
D-100L-199-3N	100	199,999	199,999	485	194	139	75	30 1/4	6	725	–
D-100L-250-3N(A)	100	250,000	250,000	606	242	173	75	30 1/4	6	725	765
D-100L-270-3N(A)**	100	270,000	270,000	655	262	187	75	30 1/4	6	725	765
D-100L-300-3N(A)	100	300,000	300,000	727	291	208	75 3/8	30 1/4	7	725	765
D-80L-399-3N(A)	80	399,999	375,000	970	388	277	71 1/2	30 1/4	8	800	835
D-80L-450-3N(A)	80	450,000	425,000	1091	436	312	69	30 1/4	10	800	835
D-80L-505-3N(A)	80	505,000	475,000	1224	489	350	69	30 1/4	10	800	835

Check local codes if installation is for sanitation purposes.

(A)= ASME Available
** = Available in Natural Gas Only
+ = Fiberglass Insulation
For Propane (LP) Gas models change suffix "N" to "X". (Example D-75T-125-3X)
220V/50Hz Available - Consult factory.

* Recoveries are based on Natural Gas Input and 80% Thermal Efficiency.
Low NOx models are not available for inputs over 399,999 BTU/Hr.
For Low NOx compliance 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.
For 5 year models change suffix from "3" to "5".

COMMERCIAL GAS MODELS

ASME & NON-ASME MILLIVOLT

ASME & Non-ASME models with Millivolt technology provide high-powered performance while making installations easier and less complicated. Using self-generated power from the pilot and thermopile assembly to operate the flue damper, there's no need to hard wire one for electricity or to locate it near an outlet. The continuous pilot ignition system eliminates "lockout" situations and utilizes a simplified control system for easier operation.

APPLICATIONS:

Hotels, dairy barns, and campgrounds

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Millivolt Powered Ignition – No External Electric Source is Required for Water Heater Operation**
- **Piezo Igniter**
- **Hydrojet® Sediment Reduction System**
- **Vitraglas® Lining**
- **Max Temp - 180°F**
- **Energy Cut-Off (E.C.O.)**
- **Hand Hole Cleanout**
- **NSF Construction Available**
- **ASME Construction Available on all Models Over 199,999 BTU/Hr.**
- **1 ½" NPT Dielectric Waterway Fittings**
- **Low NOx Models Available**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **Protective Magnesium Anode Rod**
- **Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery GPH at Degree Rise 40°F	100°F	140°F	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs. STD.	ASME
DM-38T-155-3N	38	155,000	155,000	368	147	107	51	28 1/4	6	438	-
DM-75T-125-3N	75	125,000	125,000	303	121	86	72 1/4	28 1/4	5	520	-
DM-75T-160-3N	75	160,000	155,000	378	151	108	72 1/4	28 1/4	6	520	-
DM-80T-180-3N	80	180,000	180,000	436	175	124	72 3/8	28 1/4	6	540	-
DM-80T-199-3N	80	199,999	190,000	485	194	139	72 3/8	28 1/4	6	540	-
DM-80T-250-3N(A)	80	250,000	235,000	606	242	173	72 3/8	28 1/4	6	540	590
DM-100T-199-3N	98	199,999	199,999	485	194	139	83 3/8	28 1/4	6	610	-
DM-100T-250-3N(A)	98	250,000	235,000	606	242	173	83 3/8	28 1/4	6	610	690
DM-100L-199-3N	100	199,999	199,999	485	194	139	75	30 1/4	6	725	-
DM-100L-250-3N(A)	100	250,000	250,000	606	242	173	75	30 1/4	6	725	765
DM-100L-270-3N(A)*	100	270,000	-	655	262	187	75	30 1/4	6	725	765
DM-100S-199-3N	100	199,999	199,999	485	194	139	76 3/4	30 1/4	6	667	-
DM-100S-250-3N(A)	100	250,000	250,000	606	242	173	76 3/4	30 1/4	6	667	702

Check local codes if installation is for sanitation purposes.
For Low NOx compliance place an "E" following the BTU input identifier of the model number. (Example: D-75T-125E-3N)
For LP Gas models, change suffix "N" to "X". (Example DM-75T-125-3X)
* Available with natural gas only.
(A)= ASME Available

HLW

ASME & NON-ASME ULTRA HIGH EFFICIENCY eF SERIES®

The eF Series® utilizes exclusive designs for unsurpassed reliability, efficiency, installation flexibility and quiet operation. With thermal efficiencies as high as 99.1%, these units are the most efficient of their kind. All models can vent vertically or horizontally and are also approved for unbalanced, direct-vent closed combustion applications or those applications that require inside air for combustion. Unbalanced venting means the air intake pipe doesn't have to be vented on the same external building surface as the exhaust vent. Foam core pipe is also permitted on the entire venting system. Last but not least, the eF Series® is quiet, a feature building owners, managers and occupants will appreciate.

ASK ABOUT ENERGY STAR

(EF-60T-125E-3N, EF-100T-150E-3N, EF-100T-199E-3N, EF-100T-250E-3N, EF-100T-399E-3N)

APPLICATIONS:

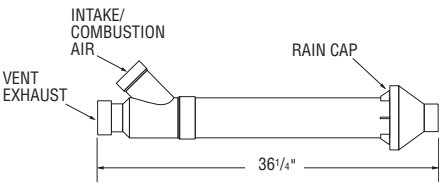
Apartments, hotels, and commercial kitchens

FEATURES:

full descriptions are available in glossary beginning on page 33

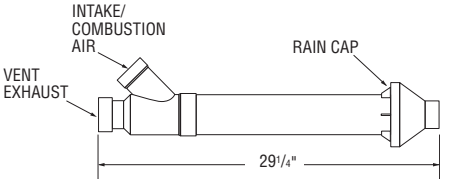
- Up to 99.1% Thermal Efficiency
- ICON HD™ Commercial Control System
- OnGuard RMT™ System Compatible
- Direct Spark Ignition
- Three Pass Heat Exchanger System
- Pre-Mix Power Burner
- Submerged Combustion Chamber
- Hydrojet® Sediment Reduction System
- Vitraglas® Lining
- Zero Inch Clearance to Combustibles
- Unbalanced Venting
- Optional Concentric Vent Terminal Kit
- Hand Hole Cleanout
- Max Temp - 180˚F
- NSF Construction Available
- ASME Construction Available
- 1 ½" NPT Dielectric Waterway Fittings
- Complies with Current Ultra Low NOx Requirements
- All Models Listed with California Energy Commission
- Low Restriction Brass Drain Valve
- T&P Relief Valve Installed
- Four Protective Magnesium Anode Rods, (EF-100T-399, has Two Powered Anode Rods and One Magnesium Anode Rod)
- Non-CFC Foam Insulation
- 3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost

3" Concentric Vent Terminal Kit



P/N 239-44069-01

2" Concentric Vent Terminal Kit



P/N 239-44069-02
(can only be used when venting with 2" on models 199,999 BTU/Hr. or less)

Model Number	Capacity U.S. Gal.	Input Nat./LP BTU/Hr.	Recovery GPH at Degree Rise 40°F	100°F	140°F	Thermal Efficiency %	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
EF-60T-125E-3N(A)	60	125,000	364	145	104	96.0	57	28¼	570
EF-60T-150E-3N(A)	60	150,000	423	169	121	93.0	57	28¼	570
EF-60T-199E-3N(A)	60	199,999	558	223	159	92.0	57	28¼	570
EF-100T-150E-3N(A)	100	150,000	450	180	129	99.1	77⅝	28¼	900
EF-100T-199E-3N(A)	100	199,999	597	239	171	98.5	77⅝	28¼	900
EF-100T-250E-3N(A)	100	250,000	735	294	210	97.0	77⅝	28¼	900
EF-100T-300E-3N(A)	100	300,000	836	335	239	92.0	77⅝	28¼	900
EF-100T-399E-3N(A)	100	399,999	1127	451	322	94.0	77⅝	28¼	950

HLW

Check local codes if installation is for sanitation purposes.
For LP Gas models change suffix "N" to "X" and remove "E" from the model number. (Example EF-100T-150-3X). (A) ASME available.
NOTE: The weight is the same for both ASME and Non-ASME models.

COMMERCIAL GAS MODELS

ASME & NON-ASME POWER DIRECT VENT

Power Direct Vent ASME and Non-ASME models utilize a co-axial concentric (pipe inside a pipe) venting system that draws air in for combustion through one pipe and exhausts products of combustion out the other. They are ideal for installations with a negative air pressure or corrosive air supply.

APPLICATIONS:

Restaurants, laundromats, hospitals, and tightly constructed buildings

FEATURES:

full descriptions are available in glossary beginning on page 33

- **ICON HD™ Commercial Control System**
- **OnGuard RMT™ System Compatible**
- **Electronic Ignition**
- **Hydrojet® Sediment Reduction System**
- **Vitraglas® Lining**
- **Co-axial (Pipe Inside Pipe) Venting System with a Heavy-duty Aluminum Inner Wall and Galvanized Outer Wall**
- **Venting up to 21 Feet Vertically or Horizontally**
- **Hand Hole Cleanout**
- **Max Temp - 180˚F**
- **NSF Construction Available**
- **ASME Construction Available**
- **1 ½" NPT Dielectric Waterway Fittings**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **Protective Magnesium Anode Rods**
- **1 ⅛" Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Model Number	Capacity U.S. Gal.	Input Nat./LP BTU/Hr.	Recovery GPH at Degree Rise 40°F	100°F	140°F	Floor to Vent Conn. in.	Jacket Dia. in.	Approx. Shipping Weight lbs. STD.	ASME
PDV-80T-300-3N(A)	80	300,000	728	291	208	69 5/8	28 1/4	665	740
PDV-100T-360-3N(A)	100	360,000	873	349	249	78 5/8	28 1/4	735	815

Check local codes if installation is for sanitation purposes.
NOTE: For Natural Gas Models add "E" to meet Low Nox compliance.(Example PDV-80T-300E-3N(A))
For LP Gas models, change suffix "N" to "X". (Example PDV-80T-300X)
(A)= ASME Available

HLW

ASME & NON-ASME POWER DIRECT VENT INDEPENDENT VENTING SYSTEM

Power Direct Vent models with balanced independent venting are ideal for installations in which a negative air pressure or corrosive air environment is present, particularly when the water heater cannot be installed in close proximity to an outside wall. Venting lengths up to 60 equivalent feet allow these units to be placed in the most air-tight or confined spaces. They also have an exceptional recovery making them one of the best in their class.

APPLICATIONS:

Fitness centers, apartments, and hotels

FEATURES:

full descriptions are available in glossary beginning on page 33

- **ICON HD™ Commercial Control System**
- **OnGuard RMT™ System Compatible**
- **Electronic Ignition**
- **Hydrojet® Sediment Reduction System**
- **Vitraglas® Lining**
- **Independent Venting Exhausts Products of Combustion and Supplies Air for Combustion Through Two Separate Pipes (PVC, CPVC or ABS)**
- **Hand Hole Cleanout**
- **Max Temp - 180˚F**
- **NSF Construction Available**
- **ASME Construction Available on 250,000 BTU/Hr. Models**
- **1 ½" NPT Dielectric Waterway Fittings**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **Protective Magnesium Anode Rods**
- **Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Model Number	Capacity U.S. Gal.	Input Nat. BTU/Hr.	Input LP BTU/Hr.	Recovery* GPH at Degree Rise 40°F	100°F	140°F	Floor to Vent Conn. in.	Jacket Dia. in.	Approx. Shipping Weight lbs. STD.	ASME
PDV-80S-150-3N	80	150,000	150,000	364	145	104	68 7/8	28 1/4	645	-
PDV-80S-200-3N	80	199,999	199,999	485	194	139	68 7/8	28 1/4	645	-
PDV-80S-250-3N(A)(LP)	80	250,000	225,000	606	242	173	68 7/8	28 1/4	645	720
PDV-100S-150-3N	100	150,000	150,000	364	145	104	77 7/8	28 1/4	735	-
PDV-100S-200-3N	100	199,999	199,999	485	194	139	77 7/8	28 1/4	735	-
PDV-100S-250-3N(A)(LP)	100	250,000	225,000	606	242	173	77 7/8	28 1/4	735	815

*Recoveries are based on Natural Gas input and 80% Thermal Efficiency.
NOTE: For Natural Gas Models add "E" to meet Low Nox compliance. (Example PDV-80S-200E-3N)
For LP Gas models, change suffix "N" to "X". (Example PDV-80S-150-3X)
(A)= ASME Available
Check local codes if installation is for sanitation purposes.

ASME & NON-ASME ELECTRONIC IGNITION INDUCED DRAFT

Bradford White's commercial Electronic Ignition Induced Draft models were developed in order to provide incredible output and a great volume of hot water from a relatively small commercial water heater. They feature a smaller vent diameter for ease of installation and an automatic flue damper to reduce stand-by loss and improve overall efficiency.

APPLICATIONS:

Schools, prisons, and gymnasiums

FEATURES:

full descriptions are available in glossary beginning on page 33

- **ICON HD™ Commercial Control System**
- **OnGuard RMT™ System Compatible**
- **Electronic Ignition**
- **Hydrojet® Sediment Reduction System**
- **Vitraglas® Lining**
- **Hand Hole Cleanout**
- **Max Temp - 180˚F**
- **NSF Construction Available**
- **ASME Construction Available**
- **1 ½" NPT Dielectric Waterway Fittings**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **Protective Magnesium Anode Rods**
- **2" Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Model Number	Capacity U.S. Gal.	Input Nat. and LP BTU/Hr.	Recovery* GPH at Degree Rise 40°F	100°F	140°F	Recovery at 100°F Rise* Nat. U.S. GPH	Floor to Top of Heater in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
D-65T-625-3N(A)	65	625,000	1515	606	433	606	69 3/8	28 1/4	8	775
D-80T-725-3N(A)	80	725,000	1757	703	502	703	79 5/8	28 1/4	8	880

*Recoveries are based on Natural Gas input and 80% Thermal Efficiency.
For Propane(LP) Gas Models change suffix "N" to "X". (Example D-65T-625-3X(A))
†LP Gas Connection 3/4" (76 mm).
(A)=ASME Available.
For 5 year models, change suffix "3" to "5".
Check local codes if installation is for sanitation purposes.

HLW

LIGHT DUTY

Light Duty Commercial Electric models, with their Upright, Lowboy, Utility and Wall Hung configurations, fit just about any location. These space saving models are perfect for lower demand commercial applications. All model configurations are field convertible from three phase to single phase and from non-simultaneous to simultaneous operation.

APPLICATIONS:

Strip malls, gas stations, and fast food restaurants

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Fully Automatic Controls**
- **Hydrojet® Total Performance System (Upright and Lowboy models only)**
- **Direct Heat Transfer with Immersed Elements**
- **Optional Voltage, Phase and kW Conversion Kits Available**
- **Lowboy Models Provided with Insulation Wrap**
- **Incoloy Elements Optional**
- **Vitraglas® Lining**
- **Max Temp - 160˚F**
- **¾" NPT Dielectric Waterway Fittings**
- **Low Restriction Brass Drain Valve (Upright and Lowboy models only)**
- **T&P Relief Valve Installed**
- **Protective Magnesium Anode Rod**
- **Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Upright Models

Model Number	Capacity U.S. Gal.	Recovery at 100°F Rise U.S. GPH	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
LD-30R3-3	30	18	46 7/8	18	85
LD-40S3-3	40	18	46 7/8	20	103
LD-50S3-3	50	18	46 1/2	22	130
LD-65R3-3	65	18	59 1/4	22	156
LD-80R3-3	80	18	59 1/4	24	183
LD-120R3-3	119	18	62 3/4	28	305

Utility Models

Model Number	Capacity U.S. Gal.	Recovery at 100°F Rise U.S. GPH	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
LD-6U3-1	6	6	16 1/2	14	33
LD-10U3-1	10	6	17 1/2	16	48
LD-12UT3-1	12	6	27 3/4	14	48
LD-15U3-1	15	6	20 1/4	18	55
LD-20U3-1	19	6	24 3/4	18	59
LD-30U3-1	30	6	30	22	82

Lowboy Models

Model Number	Capacity U.S. Gal.	Recovery at 100°F Rise U.S. GPH	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
LD-20L3-3	19	18	24 3/4	18	58
LD-30L3-3	30	18	29 3/4	20	86
LD-40L3-3	40	18	31 1/4	22	115
LD-50L3-3	47	18	31 3/4	24	143

Wall Hung Models

Model Number	Capacity U.S. Gal.	Recovery at 100°F Rise U.S. GPH	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
LD-WH6U3-1	6	6	15 3/4	14	33
LD-WH12U3-1	12	6	16 3/8	18	48
LD-WH20L3-1	19	6	24 3/8	18	59
LD-WH30L3-1	30	6	29 1/4	22	82

NOTE: For additional voltage and wattage availability for all models please reference specification sheet or consult factory.
These models are not recommended for sanitation purposes.

COMMERCIAL ELECTRIC MODELS

TRIFLEX™ 3-ELEMENT MEDIUM DUTY

The TriFlex™ 3-Element Medium Duty models are design certified by ETL (to UL standards) for field conversions. This added benefit allows for easy, on-the-job-site conversions of voltage, phase, and kW inputs. Eighteen conversion kits allow 54 model configurations. These units are available in gallon capacities of 50, 80 and 119 with factory inputs ranging from 6-18 kW and provide the added input required by medium duty commercial applications.

APPLICATIONS:

Beauty salons, quick service restaurants, and office buildings

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Fully Automatic Controls**
- **Hydrojet® Total Performance System**
- **Vitraglas® Lining**
- **6-18 kW Inputs**
- **Incoloy Elements Standard**
- **Max Temp - 180˚F**
- **NSF Construction Available**
- **Direct Heat Transfer with Immersed Elements**
- **1 ¼" NPT Dielectric Waterway Fittings**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **Protective Magnesium Anode Rod**
- **2" Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Model Number	Capacity U.S. Gal.	Recovery at 100°F Rise*	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
E32-50S-3	50	74	46 1/2	22	137
E32-80R-3	80	74	59	24	190
E32-120R-3	119	74	63	28 1/4	312

*Based on 18 kW operation.
All medium duty water heaters are wired 240V, 3-phase, 18 kW.
Other voltage, phase and kW inputs are available and must be specified when ordering.
These models are not recommended for sanitation purposes.

Available Conversion Kits

Required Total Heater kW	Element Wattage	Kit Part Numbers		
		208 Volts	240 Volts	480 Volts
6	2000	265-43942-13	265-43942-07	265-43942-01
9	3000	265-43942-14	265-43942-08	265-43942-02
12	4000	265-43942-15	265-43942-09	265-43942-03
13.5	4500	265-43942-16	265-43942-10	265-43942-04
15	5000	265-43942-17	265-43942-11	265-43942-05
18	6000	265-43942-18	265-43942-12	265-43942-06

MII SURFACE MOUNTED THERMOSTATS AND IMMERSION THERMOSTATS WITH CONTACTORS

MII Energy Saver models set the standard in commercial electric water heaters. They're available in an assortment of capacities and inputs so professionals have the solutions to any challenge. Unprecedented standard features like the Hydrojet® Sediment Reduction System ensure long lasting, top performance.

APPLICATIONS:

Stadiums, cafeterias, restaurants, and beauty salons

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Fully Automatic Controls**
- **Single or Three Phase**
- **208V, 240V, 277V, 380V, 415V, 480V or 600V**
- **Hydrojet® Sediment Reduction System**
- **Vitraglas® Lining**
- **ASME or Non-ASME with Surface (SF) or Immersion (CF) Thermostats**
- **6-54 kW Inputs**
- **Incoloy Elements-Standard on Immersion Thermostat with contactors (CF) Models, Optional on Surface Mount Thermostat (SF) Models.**
- **Hand Hole Cleanout**
- **Max Temp - 180˚F**
- **NSF Construction Available**
- **1 ½" NPT Dielectric Waterway Fittings**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **Two Protective Magnesium Anode Rods**
- **Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

GPH Recovery Capacities									
kW Input	Temperature Rise								
	40°F	50°F	60°F	70°F	80°F	90°F	100°F	120°F	140°F
6	62	50	41	35	31	28	25	21	18
9	93	74	62	53	47	42	37	31	27
12	124	99	83	71	62	55	50	41	35
13.5	140	112	93	80	70	62	56	47	40
15	155	124	103	89	78	69	62	52	44
18	186	149	124	106	93	83	74	62	53
24	248	199	164	142	124	110	99	83	71
27	279	223	186	160	140	124	112	93	80
30	310	248	207	177	155	138	124	103	89
36	372	298	248	213	186	165	149	124	106
45	465	372	310	266	233	207	186	155	133
54	558	447	372	319	279	248	223	186	160

Optional surface thermostats ranging from 80°F to 140°F are available.

Model Number	Capacity U.S. Gal.	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs. STD.	Approx. Shipping Weight lbs. ASME
M-II-50(A)-kW-3SF	50	47 3/4	24	270	302
M-II-80(A)-kW-3SF	80	60 1/4	26	335	378
M-II-120(A)-kW-3SF	119	64 1/2	30 1/4	430	485

"S" denotes surface mount thermostat. Replace "S" with "C" for immersion thermostat with contactors. (Example M-II-50(A)-kW-3CF)
(A)= ASME Available
Surface mounted thermostat models are not recommended for sanitation purposes. Check local codes if selecting an immersion thermostat model for sanitation purposes.

ASME IMMERSION THERMOSTATS WITH CONTACTORS

These commercial electric models are specifically constructed to the ASME standard and offer inputs of up to 81 kW. They are intended for supplying potable hot water to commercial and industrial type applications and offer optional features to meet any specification requirement.

APPLICATIONS:

Schools and government installations

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Immersion Type Thermostats for Accurate Temperature Control From Positive Off to 180˚F**
- **Hydrojet® Sediment Reduction System**
- **Vitraglas® Lining**
- **3 kW to 81 kW**
- **Incoloy Elements Standard**
- **6 Gallon to 119 Gallon**
- **Hand Hole Cleanout (Except 6 & 12 Gallon Models)**
- **Max Temp - 180˚F**
- **NSF Construction Available**
- **ASME Construction**
- **1 ½" NPT Dielectric Waterway Fittings**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **Protective Magnesium Anode Rod(s)**
- **Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

OPTIONAL FEATURES:

- **Low Water Cut-off**
- **Safety Door Interlock**
- **High and Low Pressure Limit Switches**
- **Alarm Horn**
- **Temperature and Pressure Gauge**
- **Time Delay Set-up Sequences (24 kW and Above)**

Model Number	Capacity U.S. Gal.	Input Maximum kW	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
6A-kW-3	6	3	17 1/4	16	83
12A-kW-3	12	9	28	16	118
20A-kW-3	20	18	27 1/2	20	145
30A-kW-3	30	36	38	20	180
40A-kW-3	40	36	48 1/4	20	220
50A-kW-3	50	81	47 3/4	24	270
80A-kW-3	80	81	60 1/4	26	335
120A-kW-3	119	81	64 1/2	30 1/4	430

Check local codes if installation is for sanitation purposes.

GPH Recovery Capacities									
kW Input	Temperature Rise 40°F	50°F	60°F	70°F	80°F	90°F	100°F	120°F	140°F
3	31	25	21	18	16	14	12	10	9
6	62	50	41	35	31	28	25	21	18
9	93	74	62	53	47	41	37	31	27
12	124	99	83	71	62	55	50	41	35
13.5	140	112	93	80	70	62	56	47	40
15	155	124	103	89	78	69	62	52	44
18	186	149	124	106	93	83	74	62	53
24	248	199	164	142	124	110	99	83	71
27	279	223	186	160	140	124	112	93	80
30	310	248	207	177	155	138	124	103	89
36	372	298	248	213	186	165	149	124	106
45	465	372	310	266	233	207	186	155	133
54	558	447	372	319	279	248	223	186	160
81	852	671	558	477	418	371	334	278	238

BOOSTER

Booster water heaters are an economical way to raise rinse water temperatures to the required 180°F. These units are the ideal companion for the largest commercial dish washers because of their under-the-counter design.

APPLICATIONS:

Commercial kitchens and food service

FEATURES:

full descriptions are available in glossary beginning on page 33

- Immersion Thermostat and High Limit
- 6 kW to 57 kW
- 120V Control Circuitry
- Glass-lined, 150 PSI Tank, 6 Gallon Capacity
- 6" Legs are Furnished
- Stainless Steel Front Control Cover
- Temperature and Pressure Gauge
- Internal Low Water Cut-off
- UL Listed
- Continuous 180˚F Water for Commercial Dishwashing
- NSF Approved
- T&P Relief Valve Included
- Magnesium Anode Rod
- Limited 5–Year Warranty

OPTIONAL FEATURES:

- Pressure Reducing Valve
- Water Hammer Arrestor
- Slide-out Mounting Bracket
- Extra Temperature and Pressure Gauge
- Stainless Steel Jacket
- Stainless Steel Legs
- ¾" Shock Absorber
- Pressure Reducing Valve with Built-in Bypass Check

Model Number	Capacity U.S. Gal.	Maximum kW Input	Input BTU/Hr.	Recovery GPH at Degree Rise 40°F	70°F	Floor to Top of Heater in.	Width in.	Depth in.	Approx. Shipping Weight lbs.
L-I-6-6-5CF	6	6	20,478	60	34	13 3/4	13	20 3/4	118
L-I-6-9-5CF	6	9	30,717	90	52	13 3/4	13	20 3/4	118
L-I-6-12-5CF	6	12	40,956	120	69	13 3/4	13	20 3/4	120
L-I-6-15-5CF	6	15	51,195	151	86	13 3/4	13	20 3/4	120
L-I-6-18-5CF	6	18	61,434	181	103	13 3/4	13	20 3/4	120
L-I-6-24-5CF	6	24	81,912	241	138	12	18	24	142
L-I-6-30-5CF	6	30	102,390	301	172	12	18	24	142
L-I-6-36-5CF	6	36	122,868	361	206	12	18	24	142
L-I-6-45-5CF	6	45	153,585	452	258	12	18	24	142
L-I-6-54-5CF	6	54	184,302	542	310	12	18	24	142
L-I-6-57-5CF	6	57	194,484	573	326	12	18	24	142

Check local codes if installation is for sanitation purposes.

c UL us LISTED

DAIRY BARN

This specialized product was developed in response to the challenge of locating a water heater in a dairy barn. A higher floor clearance allows for easy cleaning while the addition of waterproof gaskets at the junction box and element covers enable this unit to meet installation requirements of the dairy industry.

APPLICATIONS:

Dairy barns

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Fully Automatic Controls**
- **Single Phase or Three Phase Operation Available**
- **Hydrojet® Total Performance System**
- **Vitraglas® Lining**
- **Direct Heat Transfer with Immersed Elements**
- **4" Leg Kit (Included) Provides Access for Cleaning Under the Water Heater**
- **Meets Standards of the Dairy Practices Council**
- **¾" NPT Dielectric Waterway Fittings**
- **Max Temp - 180˚F**
- **T&P Relief Valve Installed**
- **Protective Magnesium Anode Rod**
- **2" Non-CFC Foam Insulation**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Model Number	Capacity U.S. Gal.	Recovery at 100°F Rise* U.S. GPH	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
DB-80R3DS	80	18	63	24	190

*Based on 4500W/4500W Non-Simultaneous operation.
These models are not recommended for sanitation purposes.

KWICKSHOT® TANKLESS

KwickShot® Tankless models are compact enough to be located at the point–of–use in office buildings, shops, garages and strip malls.


Flow Control


Thermostatic


Series Two


Series Three


Thermostatic Triple Module

Single Point

Single Point (Single Phase)

Model Number	kW Rating	Voltage	Current Per Phase	Temperature Rise °F	Rec. Wire Size
				0.5 GPM	
ES-3000-1-S-10	3.0	120	25.0 Amps	41	10 AWG
ES-3500-1-S-10	3.5	120	29.0 Amps	48	10 AWG
ES-3500-4-S-10	3.5	240	14.6 Amps	48	14 AWG
ES-4100-2-S-10	4.1	208	19.7 Amps	56	12 AWG
ES-4100-5-S-10	4.1	277	14.8 Amps	56	14 AWG
ES-5500-4-S-10	5.5	240	22.9 Amps	75	10 AWG

Flow Control (Single Phase)

Model Number	kW Rating	Voltage	Current Per Phase	Temperature Rise °F					Rec. Wire Size
				0.5 GPM	0.75 GPM	1.0 GPM	1.5 GPM	2.0 GPM	
EFC-5500-4-S-10	5.5	240	23.0 Amps	75	50	38	25	18	10 AWG
EFC-6500-4-S-10	6.5	240	27.0 Amps	88	59	44	30	22	10 AWG
EFC-7500-4-S-10	7.5	240	32.0 Amps	-	68	51	34	25	8 AWG
EFC-8300-2-S-10	8.3	208	39.0 Amps	-	76	57	38	29	8 AWG
EFC-9500-4-S-10	9.5	240	40.0 Amps	-	86	65	43	32	8 AWG

Thermostatic (Single Phase)

Model Number	kW Rating	Voltage	Current Per Phase	Temperature Rise °F					Rec. Wire Size
				0.5 GPM	0.75 GPM	1.0 GPM	1.5 GPM	2.0 GPM	
EFT-7500-4-S-10	7.5	240	32.0 Amps	-	68	51	34	25	8 AWG
EFT-9500-4-S-10	9.5	240	40.0 Amps	-	86	65	43	32	8 AWG

Series Two Twin Heating Module (Single Phase)

Model Number	kW Rating	Voltage	Current Per Phase	Temperature Rise °F					Rec. Wire Size
				1.5 GPM	2.0 GPM	2.5 GPM	3.0 GPM	4.0 GPM	
EFT-19000-4-D-10	19.0	240	2x40 Amps	87	65	52	43	32	8 AWG

*The unit must have 2 independent electrical circuits using correctly rated wire and 2 circuit breakers.

Series Three (Single Phase)

Model Number	kW Rating	Voltage	Current Per Phase	Temperature Rise °F							Rec. Wire Size
				1.5 GPM	2.0 GPM	2.5 GPM	3.0 GPM	4.0 GPM	5.0 GPM	6.0 GPM	
EFT-28000-4-T-10	28.0	240	3x40 Amps	-	96	76	65	50	-	-	8 AWG
EFT-38000-4-F-10	38.0	240	4x40 Amps	-	130	104	86	65	52	43	8 AWG

If the unit is connected to a 460/265 three phase system, the above outputs will be reduced by 8.5%.

Thermostatic Triple Module (Three Phase)

Model Number	kW Rating	Voltage	Current Per Phase	Temperature Rise °F						Rec. Wire Size
				1.5 GPM	2.0 GPM	2.5 GPM	3.0 GPM	3.5 GPM	4.0 GPM	
EFTR-18000-2-T-10	18.0	208	50.0 Amps	82	61	49	41	35	32	10 AWG
EFTR-24000-2-T-10	24.0	208	67.0 Amps	-	82	65	54	47	41	10 AWG
EFTR-18000-6-T-10	18.0	480Y*	21.7 Amps	82	61	49	41	35	32	10 AWG
EFTR-24000-6-T-10	24.0	480Y*	28.9 Amps	-	82	65	54	47	41	10 AWG
EFTR-32000-6-T-10	32.0	480Y*	38.5 Amps	-	-	87	73	62	55	8 AWG

These models are not recommended for sanitation purposes.

FEATURES:

- Reduced Energy Waste – Flow Switch Activates Heater Only on Demand (No Stand-by Heat Loss) 99% Efficient
- Continuous Hot Water
- No T&P Relief Valve Needed
- Integral Flow Restrictor
- Easy Installation – Mounts on Wall – No Sweat Connections
- Ni Chrome Heating Element - Reduces Calcification
- Space Saving Installation – Compact Size
- Field Serviceable Element – Replaceable Cartridge Element (1-year Warranty)
- Warranty – Heaters are Designed for Durability and Guaranteed Against Failure Due to Leaks of Heater Body/Element Assembly for a Period of 10 Years

COMMERCIAL OIL MODELS

CENTER AND REAR FLUE

Rugged, durable and renowned for their high output, these models meet the highest standards in quality and dependability. Bradford White oil-powered water heaters include exceptional standard features that specifiers, installers, and customers can depend on.

APPLICATIONS:

Small hotels and restaurants

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Hydrojet® Total Performance System**
- **Vitraglas® Lining**
- **70 Gallon Models**
- **Flexible Stainless Steel Baffle (Center Flue Models Only)**
- **Ceramic Fiber Combustion Chamber**
- **Max Temp - 160˚F**
- **NPT Dielectric Waterway Fittings– 1" on Center Flue Models, 1¼" on Rear Flue Models**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **Magnesium Anode Rod**
- **1" Non-CFC Foam Insulation (Fiberglass on RF-70-3)**
- **1-Year Limited Warranty on Parts and Burners**
- **3–Year Limited Tank Warranty– can be upgraded to 5–Year at additional cost**

Center Flue Model

Model Number	Capacity U.S. Gal.	Input BTU/Hr.	Minimum Maximum Firing Rate GPH	Recovery at 100°F Rise U.S. GPH	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
CF-70-3	70	119,000	0.85	114	67	24	6	290

Model not recommended for sanitation purposes.

Rear Flue Model

Model Number	Capacity U.S. Gal.	Input BTU/Hr.	Minimum Maximum Firing Rate GPH	Recovery at 100°F Rise U.S. GPH	Floor to Top of Heater in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
RF-70-3	70	210,000/245,000	1.50/1.75	203/237	$72\frac{1}{16}$	$28\frac{1}{2}$	8	410

Model not recommended for sanitation purposes.

LLC - Low Lead Content

MULTI-FLUE ASME & NON-ASME

Bradford White offers 16 oil-powered multi-flue models. Available in both ASME (6 models) and non-ASME (10 models) versions, these hardworking water heaters offer incredible input and recovery. ASME models are available in 80 and 100-gallon capacities and non-ASME models are available in 38, 80 and 100-gallon capacities.

APPLICATIONS:

Apartments, dormitories, and laundry facilities

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Hydrojet® Sediment Reduction System**
- **Vitraglas® Lining**
- **Ceramic Fiber Combustion Chamber**
- **Hand Hole Cleanout**
- **Max Temp - 38 Gallon Models 160˚F 80 -100 Gallon Models - 180˚F**
- **ASME Construction (Available on 80 and 100 gallon models)**
- **1½" NPT Dielectric Waterway Fittings**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Installed**
- **Protective Magnesium Anode Rods**
- **Non-CFC Foam Insulation**
- **1-Year Limited Warranty on Parts and Burners**
- **3–Year Limited Warranty on Steel Tank – can be upgraded to 5–Year at additional cost**

Multi-Flue Non-ASME Models

Model Number	Capacity U.S. Gal.	Input BTU/Hr.	Recovery at 100°F Rise U.S. GPH	Firing Rate GPH	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
CF-38-245-3	38	245,000	240	1.75	50 3/8	28 1/4	8	428
CF-38-280-3	38	280,000	273	2.00	50 3/8	28 1/4	8	428
CF-38-315-3	38	315,000	304	2.25	50 3/8	28 1/4	8	428
CF-38-350-3	38	350,000	334	2.50	50 3/8	28 1/4	8	428
CF-80-490-3	80	490,000	483	3.50	72 3/4	30 1/4	8	850
CF-80-560-3	80	560,000	543	4.00	72 3/4	30 1/4	8	850
CF-80-630-3	80	630,000	608	4.50	72 3/4	30 1/4	8	850
CF-80-700-3	80	700,000	665	5.00	72 3/4	30 1/4	8	850
CF-100-350-3	100	350,000	355	2.50	73 1/4	30 1/4	8	760
CF-100-420-3	100	420,000	410	3.00	73 1/4	30 1/4	8	760

Multi-Flue ASME Models

Model Number	Capacity U.S. Gal.	Input BTU/Hr.	Recovery at 100°F Rise U.S. GPH	Firing Rate GPH	Floor to Vent Conn. in.	Jacket Dia. in.	Vent Size in.	Approx. Shipping Weight lbs.
CF-80-490-3A	80	490,000	483	3.50	72 3/4	30 1/4	8	875
CF-80-560-3A	80	560,000	543	4.00	72 3/4	30 1/4	8	875
CF-80-630-3A	80	630,000	608	4.50	72 3/4	30 1/4	8	875
CF-80-700-3A	80	700,000	665	5.00	72 3/4	30 1/4	8	875
CF-100-350-3A	100	350,000	355	2.50	73 1/4	30 1/4	8	798
CF-100-420-3A	100	420,000	410	3.00	73 1/4	30 1/4	8	798

Check local codes if installation is for sanitation purposes.

COMMERCIAL INDIRECT MODELS

POWERSTOR SERIES® SINGLE WALL

PowerStor Series® Indirect Fired units provide class leading performance and large amounts of hot water. These units incorporate a newly designed, super-efficient heat exchanger coil. Made of 1½" O.D. diameter carbon steel tubing and coated with Vitraglas®, they have a total heat surface area of 27.2 feet resulting in exceptional first hour delivery and vast hot water reserves. PowerStor Series® models are the perfect addition to a boiler system.

APPLICATIONS:

Apartments and motels

FEATURES:

full descriptions are available in glossary beginning on page 33

- **1 ½" O.D. Single Wall, Glass Coated, Carbon Steel Heat Exchanger**
- **Honeywell Aquastat with an Adjustable Degree Differential**
- **Hydrojet® Total Performance System**
- **Vitraglas® Lining**
- **1" NPT Dielectric Waterway Fittings**
- **T&P Relief Valve Installed**
- **Low Restriction Brass Drain Valve**
- **Three Protective Aluminum Anode Rods**
- **2" Non-CFC Foam Insulation**
- **5–Year Limited Warranty on Steel Tank and Heat Exchanger**

Model Number	Capacity U.S. Gal.	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
SW-65C-5	58	59¼	22	273
SW-80C-5	73	59	24	300
SW-120C-5	114	62½	28¼	422

Immersed Aquastat
These models are not recommended for sanitation purposes.

AHRI Certified Water Heater Ratings

Model Number	First Hour Delivery @ 100°F	Continuous Draw Rating @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Min. Heat Required Rate (BTU/Hr.)	Min. Heat Source Flow Rate (Gal./Min.)
SW-65C-5	405	370	0.7	245,000	14.0
SW-80C-5	415	370	0.6	245,000	14.0
SW-120C-5	445	370	0.4	245,000	14.0

Note: Pressure Drop across commercial models is 5.0 ft w.c. at 14.0 gpm. These ratings were obtained with a heat source output rate of 245,000 BTU/hr at a heat source flow of 14.0 gpm. Other results will be obtained under different conditions.

POWERSTOR SERIES® SS (STAINLESS STEEL) SINGLE WALL

PowerStor Series® SS (Stainless Steel) models utilize a superior grade of stainless steel for the tank and the heat transfer coil. PowerStor Series® SS models also provide superior thermal conductivity for higher efficiency. These models are the solution when stainless steel is specified or preferred for the application.

APPLICATIONS:

Group housing and schools

FEATURES:

full descriptions are available in glossary beginning on page 33

- **1" O.D. Single Wall, Stainless Steel Heat Exchanger**
- **Honeywell Aquastat with an Adjustable Degree Differential**
- **NPT Waterway Fittings**
- **Low Restriction Brass Drain Valve**
- **T&P Relief Valve Included**
- **Protective Aluminum Anode Rod**
- **2" Non-CFC Foam Insulation**
- **5–Year Limited Warranty on Steel Tank and Heat Exchanger**

Model Number	Capacity U.S. Gal.	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
RTV-40-L	40	35 1/4	24	83
RTV-52-L	52	45 5/8	24	93
RTV-75-L	75	63 7/8	24	117
RTV-120-L	119	60 5/8	30 1/4	315

PowerStor SS Series® Models can also be used residentially. These models are not recommended for sanitation purposes.

AHRI Certified Water Heater Ratings

Model Number	First Hour Delivery @ 100°F (Gal./Hr.)	Continuous Draw Rating @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Min. Heat Required Rate (BTU/Hr.)	Min. Heat Source Flow Rate (Gal./Min.)
RTV-40-L	158	133	0.9	88,000	8.0
RTV-52-L	200	165	0.7	113,000	8.0
RTV-75-L	225	165	0.7	113,000	8.0
RTV-120-L	360	280	0.6	195,000	11.0

Note: These certified ratings were obtained with a heat output rate and flow rate as specified and a 180°F boiler water supply temperature. Other results will be obtained under different conditions.

COMMERCIAL STORAGE TANKS

SMALL VOLUME JACKETED AND INSULATED

Designed for moderate, commercial peak demands, jacketed storage tanks are available in 80, 120 and 200 gallon capacities. They meet a variety of hot water requirements in smaller commercial applications where a large dump volume is required in a short period of time.

APPLICATIONS:

Dormitories and laundry facilities

FEATURES:

full descriptions are available in glossary beginning on page 33

- **ASME Construction Available**
- **Designed for Storage of Potable Water to 180˚F**
- **80, 119, 200 Gallon Capacities**
- **Vitraglas® Lining**
- **Hand Hole Cleanout**
- **2" NPT Dielectric Waterway Fittings (2½" on M-3-ST120R5A and M-3-ST200R5A)**
- **Optional 2" Rear Water Connections (only on M-3-ST120R5 and M-3-ST120R5A)**
- **Low Restriction Brass Drain Valve**
- **Side T&P Valve Opening**
- **Two Protective Magnesium Anode Rods**
- **2" Non-CFC Foam Insulation**
- **5–Year Limited Tank Warranty**

Model Number	Capacity U.S. Gal.	Floor to Top of Heater in.	Jacket Dia. in.	Approx. Shipping Weight lbs.
M-3-ST80R5	80	58 3/4	24	192
M-3-ST80R5A*	80	58 3/4	24	278
M-3-ST120R5	119	62 1/2	28	312
M-3-ST120R5A*	119	62 1/2	28	366
M-3-ST200R5A*	200	77	32	541

* Meets ASME code

LLC - Low Lead Content

HLW

Intertek

LARGE VOLUME JACKETED AND INSULATED

Available in 34", 40", 46", 52", and 64" standard diameters, these large volume, insulated and jacketed tanks offer capacities ranging from 175 – 1,530 gallons. Two inch, high-density foam insulation minimizes heat loss.

APPLICATIONS:

Large fitness centers, industrial plants, hotels, stadiums, and resorts

FEATURES:

full descriptions are available in glossary beginning on page 33

- **Horizontal or Vertical Configurations Available**
- **Available with Vitraglas® Lining, Double Vitraglas® Lining, Epoxy Lining, or Stainless Steel Tank**
- **Hydrojet® HC – Optional**
- **Sturdy Steel Jacket**
- **Hand Hole Cleanout and Manway - Optional**
- **Designed for Storage of Potable Water up to 180˚F**
- **All Tanks are Constructed and Certified in Accordance with ASME Section IV, Part HLW for 125 PSI (862 kPa)**
- **Two Female 3" NPT Water Connections**
- **Two ¾" NPT Aquastat Fittings**
- **Magnesium Anode Rods**
- **2" High Density Foam Insulation**
- **5–Year Limited Warranty on Steel Tank**
- **10–Year Limited Warranty on Double Vitraglas® lined Steel Tank**

Model Number	Capacity U.S. Gal.	Vertical Height in.	Horiz. Length in.	Jacket Dia. in.	Glass Lined Weight 125 psi ASME lbs.
N†175J*5A	175	71	67	34	438
N†210J*5A	210	83	79	34	493
N†240J*5A	240	93	89	34	539
N†280J*5A	280	107	103	34	603
N†285J*5A	285	80	76	40	667
N†310J*5A	310	86	82	40	710
N†320J*5A	320	119	115	34	658
N†340J*5A	340	93	89	40	760
N†360J*5A	360	98	94	40	796
N†415J*5A	415	110	106	40	881
N†435J*5A	435	89	85	46	917
N†453J*5A	453	89	88	46	942
N†465J*5A	465	122	118	40	967
N†500J*5A	500	81	77	52	1176
N†505J*5A	505	101	97	46	1017
N†515J*5A	515	134	130	40	1053
N†575J*5A	575	113	109	46	1117
N†580J*5A	580	92	88	52	1310
N†645J*5A	645	125	121	46	1217
N†675J*5A	675	104	100	52	1456
N†720J*5A	720	137	133	46	1317
N†765J*5A	765	116	112	52	1602
N†790J*5A	790	147	143	46	1400
N†840J*5A	840	128	124	52	1748
N†1040J*5A	1040	149	145	52	2003
N†1245J*5A	1245	124	120	64	3326
N†1530J*5A	1530	148	144	64	3541

†V = Vertical, H=Horizontal.
*G = Glass Lined (Vitraglas®),
*D = Double Glass Lined (Vitraglas®)
*E = Epoxy Lined
*S = Stainless Steel Tank.
Example: N**V**210J**G**5A.

Tank Options:

- Hand hole (4"x6")
- Manway (12"x16")
- Extra Tappings (1"- 4")
- Flanged Connections (3"- 10")
- 150 psi working pressure (add suffix -5)
- Hydrojet® HC (add suffix -1)

All dimensions and specifications within are subject to change without notice in accordance with our policy of continuous product improvement.

ASME HLW

LARGE VOLUME UNJACKETED AND UNINSULATED

FEATURES:

full descriptions are available in glossary beginning on page 33

- Horizontal or Vertical Configurations Available
- Available with Vitraglas® Lining, Double Vitraglas® Lining, Epoxy Lining, or Stainless Steel Tank
- Hydrojet® HC - Optional
- 6" Skirt Height (Vertical Tank)
- Lifting Lugs - Standard
- Red Oxide Primer
- Designed for Storage of Potable Water up to 180˚F
- All Tanks are Constructed and Certified in Accordance with ASME Section IV, Part HLW for 125 PSI (862 kPa)
- Two 3" Female NPT Waterway Connections
- Two ¾" NPT Aquastat Fittings
- Magnesium Anode Rods
- 5–Year Limited Warranty

SPRAYED-ON RIGID POLYURETHANE FOAM (SPF) WITH ACRYLIC TOPCOAT (OUTDOOR INSTALLATIONS)

FEATURES:

- The 100% Acrylic Topcoat has 2¼" (R–value of 16) of High Density Polyurethane Foam that is Formulated to Withstand Extreme Weather and a Full Range of Environmental Conditions
- Alternative for Insulated and Steel Jacketed Tank
- Any Tank Size or Shape can be Insulated with SPF
- SPF Insulation is Field Repairable

Unjacketed and Uninsulated Models

Model Number	Capacity U.S. Gal.	Vertical Height in.	Horiz. Length in.	Jacket Dia. in.	Approx. Shipping Weight @125 PSI lbs.
N†175N*5A	175	67	63	30	303
N†210N*5A	210	79	75	30	347
N†240N*5A	240	89	85	30	383
N†280N*5A	280	103	99	30	433
N†310N*5A	310	82	78	36	527
N†320N*5A	320	115	111	30	476
N†340N*5A	340	89	85	36	569
N†360N*5A	360	94	90	36	559
N†415N*5A	415	106	102	36	671
N†435N*5A	435	85	81	42	695
N†465N*5A	465	118	114	36	743
N†500N*5A	500	77	73	48	928
N†515N*5A	515	130	126	36	815
N†575N*5A	575	109	105	42	863
N†580N*5A	580	88	84	48	1045
N†645N*5A	645	121	117	42	947
N†675N*5A	675	100	96	48	1173
N†720N*5A	720	133	129	42	1031
N†765N*5A	765	112	108	48	1301
N†790N*5A	790	143	139	42	1101
N†840N*5A	840	124	120	48	1428
N†1040N*5A	1040	145	141	48	1652
N†1340N*5A	1340	153	147	54	2182
N†1820N*5A	1820	168	168	60	3110
N†2395N*5A	2395	216	210	60	3922
N†3115N*5A	3115	198	192	72	4338
N†3530N*5A	3530	222	216	72	4825
N†4120N*5A	4120	256	250	72	5516
N†5695N*5A	5695	262	256	84	7994

SPF Topcoat Models

Model Number	Capacity U.S. Gal.	Vertical Height in.	Horiz. Length in.	Jacket Dia. in.	Approx. Shipping Weight @125 PSI lbs.
N†175T*5A	175	69	65	35	303
N†210T*5A	210	81	77	35	347
N†240T*5A	240	91	87	35	383
N†280T*5A	280	105	101	35	433
N†310T*5A	310	84	80	41	527
N†320T*5A	320	117	113	35	476
N†340T*5A	340	91	87	41	569
N†360T*5A	360	96	92	35	559
N†415T*5A	415	108	104	41	671
N†435T*5A	435	87	83	47	695
N†465T*5A	465	120	116	41	743
N†500T*5A	500	79	75	53	928
N†515T*5A	515	132	128	41	815
N†575T*5A	575	111	107	47	863
N†580T*5A	580	90	86	53	1045
N†645T*5A	645	123	119	47	947
N†675T*5A	675	102	98	53	1173
N†720T*5A	720	135	131	47	1031
N†765T*5A	765	114	110	53	1301
N†790T*5A	790	145	141	47	1101
N†840T*5A	840	126	122	53	1428
N†1040T*5A	1040	147	143	53	1652

†V = Vertical, H=Horizontal.
*G = Glass Lined (Vitraglas®).
*D = Double Glass Lined (Vitraglas®).
*E = Epoxy Lined
*S = Stainless Steel Tank.
Example: N**V**210T**G**5A.

Tank Options
- Hand hole (4"x6")
- Manway (12"x16")
- Extra Tappings (1"- 4")
- Flanged Connections (3"- 10")
- 150 psi working pressure (add suffix -5)
- Hydrojet® HC (add suffix -1)

ASME HLW

GLOSSARY OF ITEMS/FEATURES

Accessory Module Required – A separate power source required on light duty commercial gas models for ICON System™ Accessory packages and for the OnGuard RMT™ water heater management system.

Alarm Horn – An option specified when the installation requires an audible alarm to signal when the water heater operation is interrupted for faults including tripped high limit control, excessive pressure, insufficient pressure, or low water level.

All Models Listed with California Energy Commission – California's primary energy policy and planning agency. The Commission forecasts future energy needs, promotes energy efficiency through appliance and building standards, and supports renewable energy technologies.

ASME Construction Available – American Society of Mechanical Engineers (ASME) standard for the design, fabrication, and inspection of boilers and pressure vessels. This option allows certain Bradford White commercial water heaters to be built to meet the ASME Construction requirements.

ASME T&P Relief Valve – Factory provided ASME rated relief valve protects against excessive temperature and pressure buildup in the water heater.

Cast Aluminum Air Intake Boot – The cast molded air intake boot provides exceptional durability.

Ceramic Fiber Combustion Chamber – Durable ceramic fiber combustion chambers provide faster heat transfer, more complete combustion, improved efficiency, and quiet operation.

Closed Combustion – A combustion system that draws air for combustion from outside through an intake pipe or duct. Exhaust is vented through a similar pipe or duct to the outside. Ideal for installations with a negative air pressure.

Co-axial (Pipe Inside Pipe) Venting System with a Heavy-duty Aluminum Inner Wall and Galvanized Outer Wall – Venting that utilizes a pipe inside a pipe configuration. This allows combustible air to enter from the outside through an outer pipe and exhausts the products of combustion through an inner pipe. Ideal for installations with a negative air pressure.

CSA – CSA International (Canadian Standards Association) is a standards organization that provides product testing and certification services for electrical, mechanical, plumbing, and gas products.

Defender Safety System® – Bradford White's proven FVIR (Flammable Vapor Ignition Resistant) combustion technology. It resists the ignition of flammable vapors outside the water heater, maintains outstanding efficiency, long service life, and low NOx emissions while providing maintenance free operation. FVIR compliance is required on all natural gas and propane water heaters 75,000 BTU/Hr. and under.

Dielectric Waterway Fittings – Plastic lined, galvanized steel fittings slow down the process of electrolysis to minimize corrosion. The dielectric waterway fittings increase the life expectancy of the tank by decreasing possible leaks.

Direct Spark Ignition – A type of electronic pilot ignition that uses a spark to ignite the gas directly at the burner.

Electric Booster – Booster raises rinse water temperatures to 180°F. Intended for water that has been pre-heated in a primary heater. May be turned on when dishwasher is in use for maximum economy.

Electronic Ignition – A type of ignition system that eliminates the need for a standing pilot thus reducing gas consumption and saving energy. Electronic ignition system also promotes reliable and consistent pilot and main burner ignitions.

Energy Cut-Off (E.C.O.) – A Energy Cut-Off (E.C.O) shuts off all gas in event of an overheat condition. The E.C.O. is manually resettable for convenience.

Epoxy Lining – Bradford White storage tanks can be lined with a specially formulated epoxy that is a strong, heat resistant, and durable coating proven effective against corrosion.

ETL – The ETL Listed mark is proof of product compliance (electrical, gas and other safety standards) to North American safety standards. ETL specializes in electrical product safety testing and benchmark performance testing.

Factory Installed Heat Traps – Devices that reduce stand-by heat loss through the inlet and outlet fittings.

Flammable Vapor Sensor – Electronic sensor that prevents water heater operation if flammable vapors are detected.

Fully Automatic Controls – Fast acting surface mount thermostat for automatic temperature control with manual reset energy cut-off for safety.

Flexible Stainless Steel Baffle – Center Flue Oil Powered models feature a stainless steel, hinged baffle that allows easy removal for cleaning in low ceiling installations.

Hand Hole Cleanout – Allows inspection of tank interior and facilitates removal of accumulated lime and sediment.

Helical Fin Flue – A series of fins welded to the inside surface of the flue in a helical pattern. The fins maximize surface area in the flue to efficiently transfer heat to the water inside the tank.

High and Low Pressure Limit Switches – Devices that shut down the water heater in the event of either excessive or inadequate water pressure.

High Density Foam Insulation – Covers the side and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.

High Input Combustion System – Water heaters equipped with a high input combustion system offer a high BTU/Hr. input to gallon capacity ratio resulting in higher recovery rates and first hour deliveries.

Hydrojet® Total Performance System – The Hydrojet® Total Performance System is a cold-water inlet tube engineered to reduce costly sediment buildup and create more thorough mixing of incoming water with stored water. Because of more efficient mixing, extreme temperature differences throughout the tank are greatly reduced. Water heaters with the Hydrojet® Total Performance System don't have to work as hard or as often to maintain a maximum supply of hot water at the desired temperature. They heat water faster and use less energy to do it.

Hydrojet®2 Total Performance System – This cold water inlet device minimizes sediment buildup, increases delivery and reduces thermal stratification. The Hydrojet®2 is specifically designed for higher input applications.

GLOSSARY OF ITEMS/FEATURES

Hydrojet® Sediment Reduction System – The Hydrojet® Sediment Reduction System is a variation of the original residential Hydrojet system that reduces the accumulation of harmful sediment in commercial water heaters.

Hydrojet® HC – The Hydrojet® HC is an optional front connect configuration specifically designed to maximize hot water delivery from Bradford White's large volume storage tanks.

ICON HD™ Commercial Control System – A major innovation in water heating control technology that combines intelligence with ease of installation and service. It features an LCD digital display showing temperature set point and diagnostic error codes to aid in servicing and trouble-shooting.

ICON System™ Control – An exclusive gas control technology that offers Advanced Temperature Control for consistent and accurate water temperature levels, Performance Software for enhanced First Hour Delivery ratings and tighter temperature differentials, Intelligent Diagnostics with ten different codes to assist in troubleshooting, Pilot-On-Indication provided by a flashing green LED, Millivolt Powered operation to eliminate the need for external electricity, separate immersed thermowell to eliminate the need to drain the tank when removing or replacing the gas valve, and an integrated Piezo Igniter to eliminate the need to open the combustion chamber to light the pilot.

ICON System™ Accessory Package Compatible – Bradford White water heaters equipped with the ICON System™ Control are compatible with Bradford White's accessory package upgrades (Protection Package, Inlet Shut-Off Package and Performance Package) for enhanced hot water deliverability, higher efficiency, additional energy savings, full 7-day programmability, leak detection, and automatic shut off of incoming water supply.

Immersed Adjustable Honeywell Aquastat – Fast acting immersion aquastat for automatic temperature control (adjustable from 80°F to 160°F).

Immersion Thermostat and High Limit – Certain Bradford White electric water heaters feature a thermostat immersed (submerged) inside the tank for greater accuracy and control and also a high temperature limit for sanitation applications.

Incoloy Elements – Incoloy elements are used by Bradford White because of their durability. This tough alloy resists the effects of prolonged high operating temperatures, hard water, acids, corrosion, and thermal shock. They offer longer life and reduced service and replacement costs. Incoloy elements are designed to better resist overheating conditions.

Integrated Mixing Device (IMD) – Bradford White's integrated mixing device allows water in the tank to be stored at higher temperatures (up to 180°F) while controlling the hot water outlet temperature at a safe and comfortable level. It features a stainless steel flexible connector for easy installation, integrated connections for optional recirculation system return, high temperature hot water outlet (for dishwasher connection, laundry, etc.), and cold water outlet (for ice maker hookup).

Integrated Primary Control (Indoor) – Indoor EverHot® tankless models have a primary control integrated into the face of the water heater that provides 96°-140°F temperature settings. Optional commercial control provides up to 180°F - 185°F temperature settings depending on model.

Lifting Lugs – Our large volume, unjacketed storage tanks include lifting lugs to assist in transportation, installation and positioning.

Low NOx Power Burner – Bradford White's eF Series® Ultra High Efficiency water heaters utilize a gas burner that produces low levels of nitrogen oxides during combustion to meet stringent air quality requirements in regions throughout the country.

Low Restriction Brass Drain Valve – This durable and tamper proof valve allows the installer or service technician to drain the tank faster, resulting in a reduction of service time. Features a ball valve and straight design for easy hose connection.

Low Water Cut-off (also listed as Internal Low Water Cut-off) – A feature that shuts down the water heater in the event there is inadequate water volume.

Manway – A convenient passageway that allows a person easy access to the tank for inspection and cleaning.

Max Temp–180°F – Water heaters with a maximum temperature setting of 180°F may have the ability to be used in applications requiring hot water for sanitary purposes such as commercial kitchens, laundromats, hospitals and other healthcare facilities (unless otherwise noted).

Millivolt Powered Ignition – Water heaters equipped with Millivolt Powered Ignition produce their own energy from the pilot and thermopile assembly to operate the flue damper, eliminating the need for an external source of electricity. These water heaters also incorporate a continuous pilot, which eliminates "lockout" situations.

Non-CFC Foam Insulation – A highly efficient and environmentally friendly polyurethane material injected between the tank and jacket that reduces heat loss, resulting in less energy consumption, improved operation efficiencies and jacket rigidity.

NPT (Aquastat Fittings, Dielectric Water Fittings, Water Connections, T&P Relief Valve Opening) – National Pipe Thread Taper (NPT) is a U.S. standard for tapered threads used on pipes and fittings. A tapered thread will pull tight making a fluid-tight seal.

NSF Approved – NSF (National Sanitation Foundation) International is an accredited, third-party certification body that tests and certifies products to verify they meet certain public health and safety standards. Water heaters approved by NSF meet minimum public health and sanitation standards in materials, design, construction, and performance of commercial water heaters, hot water supply boilers, and heat recovery equipment.

NSF Construction Available – This option allows certain Bradford White commercial water heaters to meet the requirements of NSF construction.

OnGuard RMT™ System Compatible – These water heaters are compatible with Bradford White's OnGuard RMT™ (Remote Monitoring Technology) System. They can be equipped for 24/7 remote monitoring to defend against downtime and potentially costly repairs. Benefits include round-the-clock live support,

fault alert notification, authorized service contractor contact, situation assessment and dispatch, monthly status reports, preventative maintenance, and the OnGuard RMT Protection Plan with 5-year warranty upgrade.

Optional Concentric Vent Kit Termination – 2" or 3" termination fitting provides for a single opening through a wall or roof.

Pedestal Base – Round, legless support base allows for easy transport and positioning of the water heater.

Piezo Igniter – An ignition system that consists of a small, spring-loaded hammer that hits a crystalline material producing a spark to ignite a gas fuel source. It eliminates the need to open the combustion chamber to light the burner. No external electricity is required.

Powered Anode Rod – A type of anode rod for large commercial water heaters where the risk of corrosion is high. Powered anode rods release a small electrical current to protect the tank from corrosion. Powered anode rods don't need to be removed and replaced, as they don't corrode.

Powerful Blower Motor – Bradford White's Power Vent and Power Direct Vent models feature a powerful blower motor with higher torque for greater resistance to outside winds and the power to eliminate many problems with difficult venting situations. It is quiet and runs cooler for a longer operational life.

Protective Magnesium (also Aluminum) Anode Rod – A sacrificial rod composed of one or more metals that protects the tank from corrosion by drawing the harmful electrolytic process away from the tank to the rod itself. Magnesium and Aluminum are the most widely used anode materials and will satisfy the majority of water chemistry situations.

Red Oxide Primer – A lead-free, oil-based, high-quality, rust-resistant primer ideal for use on metal surfaces. The corrosion resistant pigment makes it an ideal choice to protect steel tanks from chemical fumes, excessive heat, humidity, rain, and wind.

Remote Primary Control (Outdoor) see also Integrated Primary Control (Indoor) – Outdoor EverHot® tankless models are shipped with a primary remote controller that provides 96°- 140°F temperature setting. Optional commercial control provides up to 180°F - 185°F temperature settings depending on model.

Safety Door Interlock – Safety switch secures access to the control box door when 120 volt is applied to the system. Unable to open the door when power is on.

Sanitizing Capability – Allows for a temperature setting up to 180°F (82°C) for sanitizing applications.

Side Connections – Side connections allow for greater installation flexibility and can be used to connect additional equipment such as a dishwasher or washing machine. When the water heater is equipped with a mixing valve, the side connections allow the water heater to supply higher and lower temperature general purpose hot water simultaneously.

Single or Three Phase – Single-phase electric power refers to the distribution of alternating current electric power using a system in which all the voltages of the supply vary in unison. In a three-phase system, the currents in each conductor reach their peak instantaneous values sequentially, not simultaneously.

Snap Lock Draft Diverter – Bradford White is the originator of the Snap-Lock Draft Diverter. Unlike other manufacturers that offer a screw-in style, Bradford White water heaters provide a snap-on style so no drilling or sheet metal screws are needed. The snap-lock draft diverter makes installation faster and easier.

Stainless Steel Tank – Bradford White can manufacture storage tanks from 304, 304L, 316, or 316L stainless steel for a variety of applications.

Stainless Steel Tank and Heat Exchanger – Made from chromium molybdenum - titanium ferritic 444 stainless steel alloy.

Submerged Combustion Chamber (see also Three Pass Flue System) – eF Series® Ultra High Efficiency water heaters utilize a combustion chamber that is submerged in the center of the tank to minimize radiant heat loss and maximize efficiency.

Surface (SF) or Immersion (CF) Thermostats – Surface thermostats are mounted on the outside of the tank, sensing water temperature through the steel tank. Immersion thermostats are submerged directly into the water.

T&P Relief Valve Installed – Relief valve installed at the factory protects against excessive temperature and pressure (T&P) buildup in the tank.

Temperature and Pressure Gauge – A combination gauge that provides both temperature and pressure readings in the tank.

Thermal Efficiency – Thermal efficiency is a measure of the output energy divided by the input energy in a system. It must be between 0% and 100%. A thermal efficiency of 100% would mean that all energy put into a system comes out in a usable form.

Three Pass Heat Exchanger System – Bradford White's eF Series® Ultra High Efficiency water heaters employ a three phase or pass flue-type heat exchanger. As the products of combustion pass through each phase of the flue tube, heat is efficiently transferred to the surrounding water.

UL Listed – Underwriters Laboratories (UL) is an independent product safety testing and certification organization. Products and components listed with this organization have been tested and certified to meet performance and public safety standards.

Unbalanced Venting – Venting configuration in which the air intake pipe doesn't have to be the same length as the exhaust pipe, and both terminations may be on different walls.

Virtually Maintenance-Free Combustion System – Under normal conditions, water heaters equipped with the Defender Safety System® combustion chamber do not require regular cleaning of air inlet openings or flame arrestor.

Vitraglas® Lining – Bradford White tanks are lined with an exclusively engineered enamel formula that provides superior protection from the highly corrosive effects of hot water. Vitraglas® is spray applied to the tank resulting in a uniform thickness and better bonding to the tank. Test results prove that Vitraglas provides unsurpassed protection against failure when compared to other water heater linings.

1" O.D. Single Wall, Stainless Steel Heat Exchanger – Single wall 1" O.D. stainless steel coil.

6" Legs are Furnished – Booster models include 6" legs for floor mounting.

6" Skirt Height (Vertical Tank) – Bradford White unjacketed storage tanks feature a 4" skirt height on 30" to 48" diameter tanks and a 6" skirt height on 54" to 84" diameter tanks for easier access under the tank.

Bradford White Means American Jobs

American Made ★ American Owned ★ Wholesale Only

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With no bailouts or special favors needed, Bradford White continues to invest in the future of America. We have you, the professional installer and wholesale distributor to thank for it. Because of your support, we remain an American-Owned company providing American-Made products through Wholesale Distribution for Professional Installation.

These ideas work. With the help of a high quality product and practical innovation, we're building for the future. As proof of this, Bradford White Corporation is growing.

In Middleville, MI, we've modernized systems and equipment throughout the Bradford White factory. In 2012, we opened our new state-of-the-art iTEC™ training facility and are currently undergoing our largest factory expansion in the history of the company by adding 100,000 square feet of additional manufacturing and shipping capacity. Our subsidiaries are growing as well. Laars Heating Systems added a new customer training center and additional factory space while Niles Steel Tank increased capacity with investment in process equipment and tank lining technology.

It all means more American jobs. Of all our innovations, that may be the most important of all.

www.bradfordwhite.com

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