Ultra Low NOx Water Heaters

Built To Be The Best™

Featuring:

UPDX2 Power Direct Vent Models
eF Series® Ultra High Efficiency Models
U4 High Efficiency Models
UDH1 High Input Direct Vent Models
If you’re a plumbing and heating professional, you know that customers call nights, weekends and even holidays. We understand that you’re always on call. Now, whenever the situation arises, you can rely on Bradford White for expert support, 24 hours a day, 7 days a week. The 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 and extensive training program before they take your call, preparing them with the know-how to diagnose and solve any challenge an expert like you might face in the field.

The next time –make that anytime!– you have a technical issue or warranty question about a Bradford White water heater, call our expert Support Center. Because the best water heaters and the best contractors deserve the best support.
Eco-Defender Safety System® Ultra Low NOx Series water heaters from Bradford White utilize the latest advances in technology and materials for an ecologically friendly line of water heaters. Eco-Defender models emit 75% less Nitrogen Oxide emissions than standard models while maintaining optimal combustion efficiencies, and consistent operational temperatures. The Ultra Low NOx burner has both primary and secondary air distribution devices to ensure proper air to gas ratio for the reduction of NOx generated by the combustion process. Each and every one meets the most stringent air quality requirements for allowable NOx emissions in the country.

### RESIDENTIAL MODELS
- U1 Upright Models
- U1 High Input Models
- U1-XR and U2-XR (Extra Recovery) Models
- U4 High Efficiency Models
- U1-TW Power Vent Models
- U2-TW High Input Power Vent Models
- U4-TW Models
- U4-XRTW (Extra Recovery) Models
- UDS1 Direct Vent Models
- UDH1 High Input Direct Vent Models
- UPDX2 Power Direct Vent Models
- EFR Residential Ultra High Efficiency Model

### COMMERCIAL MODELS
- U Light Duty Atmospheric Models
- U Light Duty High Input Atmospheric Models
- UDH High Input Direct Vent Models
- U-TW4 Models
- U-PDX Power Direct Vent Models
- U Electronic Ignition Models
- eF Series® Ultra High Efficiency Models
U1 UPRIGHT MODELS

Eco-Defender Safety System® Ultra Low NOx Series water heaters from Bradford White utilize a draft diverter and are atmospherically vented with capacities ranging from 30 to 60 gallons and inputs ranging from 30,000-50,000 BTU's. These models are perfect for many standard water heating applications.

- 9 Models (30 – 60 Gallon Capacities)
- 30,000 – 50,000 BTU/Hr.
- FVIR Eco-Defender Safety System on all models
- Self-Diagnostic Honeywell Gas Control requiring no electricity

U1 HIGH INPUT MODELS

These Residential Ultra Low NOx High Input Series water heaters also utilize a draft diverter and are atmospherically vented. With capacities of 75 and 100 gallons and inputs ranging from 76,000-85,000 BTU's, these models are perfect for many larger water heating applications.

- 2 Models (75 and 100 Gallon Capacities)
- 76,000 – 85,000 BTU/Hr.
- Side Connections for Space Heating
- Self-Diagnostic Honeywell Gas Control requiring no electricity
U1-XR AND U2-XR (EXTRA RECOVERY) MODELS
These Atmospherically Vented models utilize higher BTU inputs to offer Extra Recovery and side connections for space heating. This translates to an increased amount of hot water available at a usable temperature in less time than normal.

- Extra Recovery - More hot water in less time!
- 4 Models (40, 48, 65 and 75 Gallon Capacities)
- 40,000 – 76,000 BTU/Hr.
- Side Connections for Space Heating
- FVIR Eco-Defender Safety System on all models
- Self-Diagnostic Honeywell Gas Control requiring no electricity

U4 HIGH EFFICIENCY MODELS
These Ultra Low NOx High Efficiency models feature additional insulation to reduce stand-by heat loss which helps make these the most energy efficient, atmospheric vent water heaters we offer. The additional insulation also helps these models achieve Energy Factor (EF) ratings that qualify for some utility rebate programs.

- Minimum Energy Factor of .62
- 5 Models (30 – 60 Gallon Capacities)
- 32,000 – 40,000 BTU/Hr.
- FVIR Eco-Defender Safety System on all models
- Self-Diagnostic Honeywell Gas Control requiring no electricity
RESIDENTIAL ENERGY SAVER GAS WATER HEATERS

U1-TW POWER VENT MODELS
Eco-Defender Safety System® Ultra Low NOx Series TTW1® water heaters from Bradford White utilize the latest advances in technology and materials for an ecologically friendly line of water heaters. Our TTW1® models are power vented for positive exhaust. They offer greater installation flexibility with the ability to vent through a wall or roof, with either 2" or 3" PVC, ABS or CPVC pipe.

- Vertical or Horizontal Venting
- Maximum Equivalent Length of up to 50 feet using 2" Vent Pipe
- Maximum Equivalent Length of up to 120 feet using 3" Vent Pipe

U2-TW HIGH INPUT POWER VENT MODELS
Like the TTW1®, Eco-Defender Safety System® Ultra Low NOx Series TTW®2 models are also power vented but offer higher BTU/Hr. inputs, additional insulation and larger gallon capacities. The TTW2® offers installation flexibility with the ability to vent through a wall or roof, with either 3" or 4" PVC, ABS or CPVC pipe.

- Vertical or Horizontal Venting
- Maximum Equivalent Length of up to 60 feet using 3" Vent Pipe
- Maximum Equivalent Length of up to 180 feet using 4" Vent Pipe

U4-TW MODELS
The High EF TTW® Series offers additional insulation, resulting in higher energy factor ratings, making them ENERGY STAR® qualified. Like our TTW1® and TTW2® series, these models are power vented for positive exhaust. They offer greater installation flexibility with the ability to vent through a wall or roof, with either 2" or 3" PVC, CPVC or ABS.

- .67 Energy Factor
- ENERGY STAR® Qualified for the September 1, 2010 minimum EF requirements
- Vertical or Horizontal Venting
- Maximum Equivalent Length of up to 50 feet using 2" Vent Pipe

Excellent option for applications where higher inputs and larger vent lengths are required.

Excellent option for applications where an atmospheric vent is not available.
RESIDENTIAL ENERGY SAVER GAS WATER HEATERS

U4-XRTW (EXTRA RECOVERY) MODELS
Like the High EF TTW® series, these High EF Extra Recovery (XR) TTW® models feature increased insulation for higher energy factor ratings. Additionally, the XR models feature higher BTU inputs. This translates to an increased amount of hot water available offering unprecedented first hour delivery ratings (99 & 110 gallons) at a usable temperature in less time than normal. High EF Extra Recovery XR TTW® models are power vented for positive exhaust. They offer greater installation flexibility with the ability to vent through a wall or roof, with either 3" or 4" PVC, CPVC or ABS. And best of all, they qualify for ENERGY STAR®.

- .67 Energy Factor
- ENERGY STAR® Qualified for the September 1, 2010 minimum EF requirements
- Vertical or Horizontal Venting
- Maximum Equivalent Length of up to 60 feet using 3" Vent Pipe
- Maximum Equivalent Length of up to 180 feet using 4" Vent Pipe
- 2 Models (50 and 65 Gallon Capacities)
- 56,000 BTU/Hr.
- Side Connections for Space Heating
- FVIR Eco-Defender Safety System on all models

UDS1 DIRECT VENT MODELS
Ultra Low NOx Direct Vent (DS) water heaters utilize a co-axial (pipe inside a pipe) vent pipe that takes air in from the outside (outer vent) and vents combustion gases directly back to the outside (inner vent). It is the perfect choice for situations with insufficient combustion air. No electricity required.

- Telescoping Solid Venting and Flexible Venting available up to 8’ from an outside wall
- 2 Models (40 and 50 Gallon Capacities)
- 38,000 - 42,000 BTU/Hrs.
- FVIR Eco-Defender Safety System on all models

UDH1 HIGH INPUT DIRECT VENT MODELS
Ultra Low NOx High Input Direct Vent (DH) water heaters offer greater recovery capabilities, larger gallon capacities and side connections for space heating. These too utilize a co-axial (pipe inside a pipe) venting system. No electricity required.

- Telescoping Solid Venting and Flexible Venting available up to 8’ from an outside wall
- 3 Models (48, 65 and 75 Gallon Capacities)
- 45,000 - 50,000 BTU/Hrs.
- Side Connections for Space Heating
- FVIR Eco-Defender Safety System on all models
**UPDX2 POWER DIRECT VENT MODELS**

Ultra Low NOx Power Direct Vent models are the solution to installations that lack sufficient air for combustion and require installation flexibility. All models can vent vertically or horizontally and are also approved for unbalanced, direct-vent closed combustion applications.

- Vertical or Horizontal Venting
- Maximum Equivalent Length of up to 120 feet using 3” Vent Pipe
- Maximum Equivalent Length of up to 200 feet using 4” Vent Pipe
- 3 Models (48, 65 and 75 Gallon Capacities)
- 50,000 – 55,000 BTU/Hrs.
- Side Connections for Space Heating
- Optional Concentric Vent Termination
- FVIR Eco-Defender Safety System on all models

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**EFR RESIDENTIAL ULTRA HIGH EFFICIENCY MODEL**

A residential version of our highly successful Ultra High Efficiency eF® Series, this model boasts an efficiency rating of 95% and complies with the most stringent air quality requirements as a result of its Low NOx burner. This unit comes standard with two 1”NPT side connections that can be used for supplemental space heating purposes and is approved for power vent or power direct vent applications using 2”, 3” or 4” PVC, ABS or CPVC. 1 model (60 gallon capacity)

- 120,000 BTU/Hr.
- 95% Thermal Efficiency
- 60 Gallon Capacity
- Quiet Operation
- Honeywell Integrated Control
- Power Vent or Power Direct Vent
- Incredible Installation Flexibility
- Optional Concentric Vent Termination

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Bradford White’s ECO-MAGNUM Series™ is a unique line of Ultra Low NOx Light Duty and Standard Duty Commercial water heaters. They are specified by engineers and installed by mechanical contractors and plumbing and heating professionals for numerous commercial water heating needs. The ECO-MAGNUM Series™ provides solutions to a multitude of application requirements.

**U LIGHT DUTY ATMOSPHERIC MODELS**

Ultra Low NOx Series Light Duty 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.

- 2 Models (48 and 65 Gallon Capacities)
- 55,000 BTU/Hr.
- Side Connections for Space Heating
- Thermostat Adjustable up to 180°F
- FVIR Eco-Defender Safety System on all models
- Self-Diagnostic Honeywell Gas Control requiring no electricity

**U LIGHT DUTY HIGH INPUT ATMOSPHERIC MODELS**

The Light Duty Ultra Low NOx High Input Series water heaters from Bradford White utilize a draft diverter and are atmospherically vented with capacities of 75 and 100 gallons and inputs ranging from 76,000-85,000 BTU’s. These models are perfect for many standard water heating applications.

- 2 Models (75 and 100 Gallon Capacities)
- 76,000 – 85,000 BTU/Hr.
- Thermostat Adjustable up to 180°F
- Side Connections for Space Heating
- Self-Diagnostic Honeywell Gas Control requiring no electricity
UDH LIGHT DUTY HIGH INPUT DIRECT VENT MODELS

Our Light Duty Ultra Low NOx High Input Direct Vent water heaters are the solution to 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. Venting extensions of 8 feet vertically and 8 feet horizontally result in added installation flexibility.

- Telescoping Solid Venting and Flexible Venting available
- 3 Models (48, 65 and 75 Gallon Capacities)
- Thermostat Adjustable up to 180˚F
- 45,000 - 50,000 BTU/Hrs.
- Side Connections for Space Heating
- FVIR Eco-Defender Safety System on all models

U-TW4 LIGHT DUTY MODELS

Light Duty Ultra Low NOx Power Vent water heaters from Bradford White are the solution to installations that lack access to a standard chimney and where an outside wall for ventilation is not readily accessible. They offer greater installation flexibility with their ability to vent through a wall or roof, with either 3" or 4" PVC, ABS or CPVC.

- 2 Models (48 and 65 Gallon Capacities)
- 60,000 BTU/Hr.
- Side Connections for Space Heating
- Vertical or Horizontal Venting
- Thermostat Adjustable up to 180˚F
- Maximum Equivalent Length of up to 60 feet using 3” Vent Pipe
- Maximum Equivalent Length of up to 180 feet using 4” Vent Pipe
- FVIR Eco-Defender Safety System on all models

U-PDX LIGHT DUTY POWER DIRECT VENT MODELS

Light Duty Ultra Low NOx Power Direct Vent models are the solution to installations that lack sufficient air for combustion and 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.

- Vertical or Horizontal Venting
- Maximum Equivalent Length of up to 120 feet using 3” Vent Pipe
- Maximum Equivalent Length of up to 200 feet using 4” Vent Pipe
- 3 Models (48, 65 and 75 Gallon Capacities)
- 50,000 – 55,000 BTU/Hrs.
- Thermostat Adjustable up to 180˚F
- Side Connections for Space Heating
- Optional Concentric Vent Termination
- FVIR Eco-Defender Safety System on all models
U ELECTRONIC IGNITION MODELS

Ultra Low NOx Commercial Electronic Ignition models provide solutions to many different commercial applications. They are the first atmospherically vented commercial water heaters to meet the most stringent air quality requirements for allowable NOx emissions. These water heaters utilize a down-fired burner and multiple flue tubes to achieve high thermal efficiency and a new exhaust configuration to allow atmospheric venting. A factory-installed recirculating system reduces thermal stratification throughout the tank.

*This is the NEW Ultra Low NOx version of our highly successful D-Series models.*

- ICON HD™ Integrated Control
- 14 Models available
  - (65 – 100 gallon capacities)
  - 155,000 – 399,999 BTU/Hr.
- Atmospheric Vent
- 84% Thermal Efficiency
- Thermostat Adjustable up to 180°F

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eF SERIES® ULTRA HIGH EFFICIENCY MODELS

The eF Series® utilizes exclusive designs and technologies for unsurpassed efficiency, installation flexibility and quiet operation. With thermal efficiencies as high as 99.1%, these units are the most efficient of their kind in the industry. A new Honeywell Integrated Control System, ICON HD™ combines temperature control and system ignition functions into a single control board with digital LCD display. All models can vent vertically and horizontally and are approved for unbalanced, direct vent closed combustion applications or those applications that require inside air for combustion.

- ICON HD™ Integrated Control
- 16 Models (60 -100 gallon capacities)
- 125,000 - 399,999 BTU/hr.
- Up to 99.1% Thermal Efficiency
- Incredible Installation Flexibility & Quiet Operation
- Power Vent or Power Direct Vent
- Thermostat Adjustable up to 180°
- ASME and Non-ASME Construction Available
- Optional Concentric Vent Kit Termination