



Committed to
Professional Installation.



SALES DEPARTMENT

For questions regarding where to purchase water heaters or who your local Bradford White representative is, call:

800-523-2931

24/7 TECHNICAL SUPPORT

For questions during and after installation, including sequence of operation, diagnosis, and repair assistance.

Phone: 800-334-3393

Email: techserv@bradfordwhite.com

PRODUCT SUPPORT

Pre-Installation support such as product sizing, performance, application, and clarification questions.

Phone: 844-235-4958

Email: products@bradfordwhite.com

24/7 WARRANTY SUPPORT

For questions regarding tank and/or parts warranty and limitations on warranties.

Phone: 800-531-2111

Email: warranty@bradfordwhite.com



To see Bradford White's complete line of products visit:
www.bradfordwhite.com

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CPC-0521

What American Strong means to Bradford White.

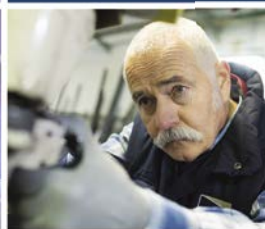
American Pride has always been in everything we do. Bradford White began over 135 years ago with a simple vision, to deliver high quality, superior products made by American craftspeople.

We are committed to American manufacturing. We are an American-owned company, with all our manufacturing facilities located in the United States. Bradford White proudly employs over 1,800 people at our American facilities.

We proudly support the professional. At Bradford White, we focus on the professional. Our quality product deserves a quality installation.

American Strong...around the world. Bradford White products are available to professionals around the world. For example, our Halton Hills, ON sales, training and distribution center provides full support to our Canadian customers.

Built to be the Best®. Bradford White proudly brings American ingenuity and quality to customers around the world. By combining American Strong manufacturing with select components and products sourced from top international partners, the result is all Bradford White products are Built to be the Best® - now and in the future.



WE'RE HERE FOR THE PRO.

And We Mean It.

At Bradford White, our business is being there for your business. Our job is to help you serve the needs of contractors, installers and specifying engineers. *And that's not just talk* - we stand behind you every day.

When you sell Bradford White, you can always count on getting:

Built to be the Best® water heaters, boilers and tanks that deliver top quality, high performance and unmatched reliability.

Unparalleled Tech Sales Support, so you have all the resources you need to make sure the needs of your customers are met.

Marketing Materials to help you communicate with your professional customers and prospects more effectively than ever before.

Our Exclusive For The Pro® Website - full of tools to help you build your business and ensure your success.



Visit bwfortheapro.com to learn more!

FOR THE PRO



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Some products may not be available in Canada. Please check with your supplier for product availability.

General Information About the Products in this Catalog

1. All Gas Water Heaters are design certified by CSA International (formerly AGA and CGA) in accordance with ANSI Z21.10.1 or 10.3 (latest addition). Closed Combustion Manufactured Home Water Heaters, are listed by Intertek (ETL).

2. All Electric Water Heaters are listed by Intertek (ETL).

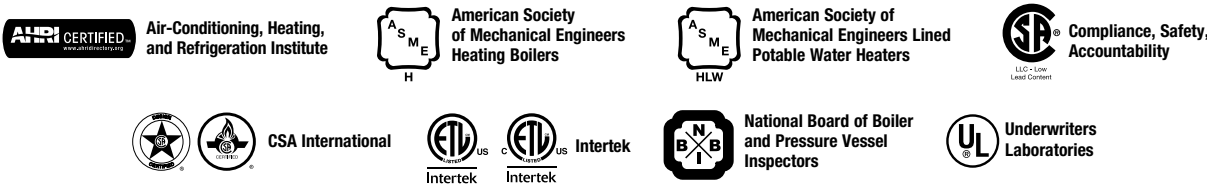
3. All Tank Type Water Heaters are certified at 300 PSI test pressure and 150 PSI working pressure (except where noted).

4. All Light Duty Water Connections are 3/4" NPT on 8" centers (except where noted).

5. All Light Duty Gas Models have 1/2" NPT Gas Connections (except where noted).

6. MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,666; 7,634,976; 5,660,165; 5,954,492; 6,056,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,684,821; 7,334,419; 7,866,168; 7,270,087; 7,007,748; 5,596,952; 6,142,216; 7,699,026; 5,341,770; 7,337,517; 7,665,211; 7,665,210; 7,063,132; 7,063,133; 7,559,293; 7,900,589; 5,943,984; 8,082,888; 5,988,117; 7,621,238; 7,650,859; 5,761,379; 7,409,925; 5,277,171; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,845; 2,504,824; 2,108,186; 2,143,031; 2,409,271; 2,548,958; 2,112,515; 2,476,685; 2,239,007; 2,092,105; 2,107,012.
7. All dimensions are in inches (unless otherwise noted). Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

8. All products manufactured by Bradford White Water Heaters are designed, fabricated, and assembled in Middlesville, MI. All raw materials and component parts are sourced from American companies for the highest level of American made content and manufacture, whenever possible.



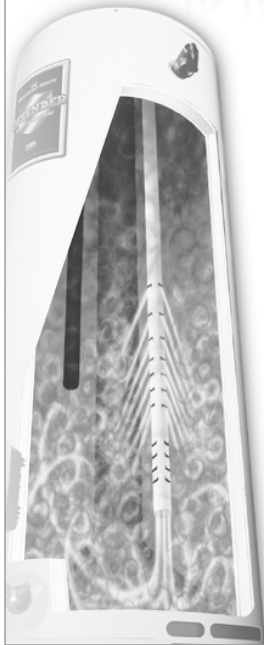
THE MAGNUM SERIES SOLUTION

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.

INNOVATION AND RESOURCES



Hydrojet® Sediment Reduction System

The commercial Hydrojet® Sediment Reduction System was designed to block the build-up of harmful sediment in commercial units by increasing turbulence with accelerated water current inside the tank. It incorporates up to two inlet tubes. One is the traditional top connect version and the other is a front connection configuration.

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.



page 6



The ICON System® Intelligent Gas Control Valve

The ICON System® is an exclusive gas control technology that provides you with numerous performance and energy-saving benefits such as an enhanced First Hour Delivery ratings and tighter temperature differentials. Intelligent Diagnostics assist in installation and troubleshooting through a multi-color LED light easily visible from a standing position.

Bradford White ICON HD® Integrated Commercial Control System

Bradford White's ICON HD® is an intelligent 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.

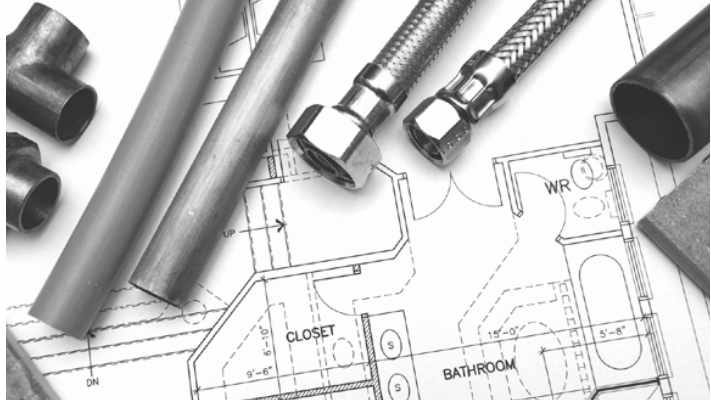


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INNOVATION AND RESOURCES

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 BIMobject® and SmartBIM®.



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Online Resources

Bradford White's newly redesigned website is loaded with easy-to-use tools that can help save you a lot of time in the field. These resources include RightSpec® sizing tools and cross reference, eF Series® calculator, tank size calculator, spec sheets and more.



Visit bradfordwhite.com now to see all the resources available to you.

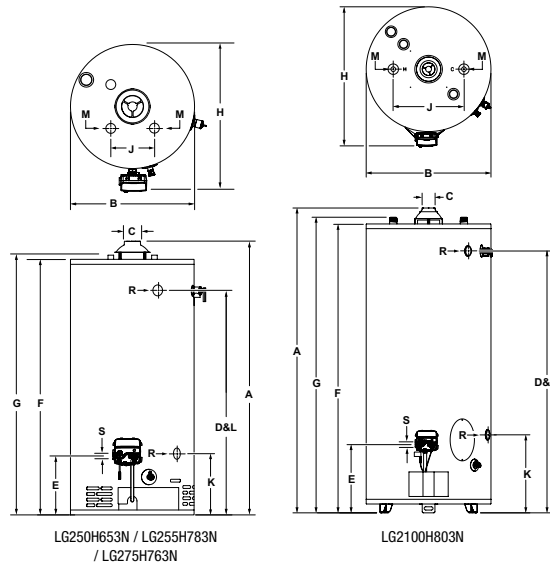
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Commercial Gas Light Duty Atmospheric Vent High Input Models

10/11

- Bradford White ICON System®
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design (LG250H653N model only)
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Side Connections—3/4" NPT
- Non-CFC Foam Insulation
- Water Connections
- Hand Hole Cleanout
- Protective Magnesium Anode Rod
- 4" "Snap Lock" Draft Diverter
- T&P Relief Valve
- Low Restrictive Brass Drain Valve



LG2100H803N

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Light Duty Atmospheric Vent High Input Models

DIMENSIONS IN INCHES

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

Model Number	Nominal Gal. Capacity		DOE Rated Storage Volume (Gal.)	BTU/Hr. Input	LP BTU/Hr. Input	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*			
	U.S. Gal.	Imp. Gal.						U.S. GPH	Imp. GPH	U.S. GPH	Imp. GPH
LG250H653N	48	40	46	65,000	65,000	106	0.63	63	53	63	53
LG255H783N	55	46	55	78,000	78,000	117	0.61	76	63	76	63
LG275H763N	75	63	72	76,000	76,000	135	0.59	74	62	74	62
LG2100H803N	100	83	95	80,000	80,000	157	0.57	78	65	78	65

Get additional product information, technical documentation, training videos and more at our exclusive site for the professional.

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Model Number	A Floor to Flue Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
LG250H653N	60 1/2	22	4	49 13/16	13	56 5/8	58 7/8	25 1/2	11	13 1/2	49 15/16	3/4	3/4	1/2	193
LG255H783N	58 1/2	24	4	48 1/8	13 1/8	54 3/4	56 1/2	27 1/4	8	13 1/2	48 1/8	3/4	3/4	1/2	207
LG275H763N	62 5/8	26	4	51 7/8	15	59 5/8	60 1/16	29 1/4	11	16 5/8	51 7/8	1	1	1/2	240
LG2100H803N	70 1/16	28 1/4	4	57 3/8	13	63 3/8	66 5/8	31 13/16	16	17 11/16	50 5/8	1 1/4	1 1/4	1/2	424

Propane models feature a Titanium Stabilized Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X".

For 5 year models, change suffix "3" to "5".

* Based on manufacturer's rated recovery efficiency.

LG2100H803N model features hand hole cleanout.

Uniform Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

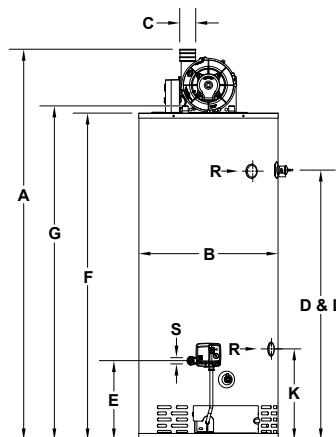
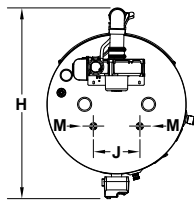
NSF kits available.

Spec 1700. For additional documentation visit: www.bradfordwhite.com/documentation

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Light-Duty High Efficiency eF Series® Power Vent Models 90%+ Thermal Efficiency

- Vertical, Dual-pass Heat Exchanger System
- Vitraglas® Protection—On both primary and secondary heat exchanger
- Self-priming Condensate Tee
- Power Vent
- Horizontal and Vertical Venting
- Bradford White ICON System®
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
- Hydrojet® Total Performance System
- Vitraglas® Lining
- 2" Non-CFC Foam Insulation
- Pedestal Base
- Water Connections—3/4" NPT
- 3/4" NPT Side Connections
- Heat Traps
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restrictive Brass Drain Valve



LC2PV50H763N

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

DIMENSIONS IN INCHES

Get additional product information, technical documentation, training videos and more at our exclusive site for the professional.

FOR THE PRO® bwfortheapro.com

Model Number	Nominal Gal. Capacity		DOE Rated Storage Volume (Gal.)	BTU/Hr. Input	LP BTU/Hr. Input	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*				Get additional product information, technical documentation, training videos and more at our exclusive site for the professional. FOR THE PRO bwfortheapro.com			
	U.S. Gal.	Imp. Gal.						U.S. GPH	Imp. GPH	LP U.S. GPH	LP Imp. GPH				
	LC2PV50H763N	50	42	49	76,000	76,000	120	0.80	82	69	83				
Model Number	A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
LC2PV50H763N	67 ^{7/16}	24	2. 3. or 4	46 ^{7/8}	9 ^{3/8}	46 ^{7/16}	51 ^{11/16}	34 ^{7/16}	8	15 ^{3/8}	46 ^{1/2}	3/4	3/4	1/2	225

Propane models feature a Titanium Stabilized Stainless Steel propane burner.

For Propane (LP) models change suffix "N" to "X".

* Based on manufacturer's rated recovery efficiency.

Uniform Energy Factor and First Hour Rating is based on the latest AHRI directory listings.

Optional Condensate Neutralizer Kit: p/n A2123601.

LC2PV50H763N		2" Vent Pipe	3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length		150 ft.	1120 ft.	1180 ft.
Min. Equivalent Length		7 ft.	15 ft.	15 ft.
Number of 90° Elbows	1	45 ft.	115 ft.	175 ft.
	2	40 ft.	110 ft.	170 ft.
	3	35 ft.	105 ft.	165 ft.

Subtract 5ft. for each additional 90° elbow.

† For high altitude installations, consult the installation instructions.

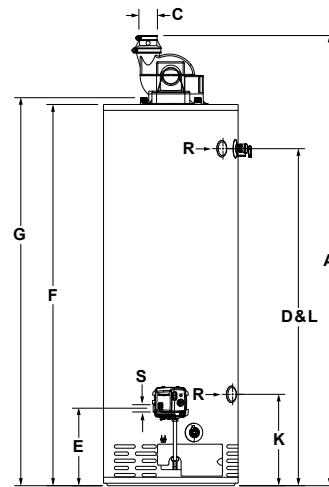
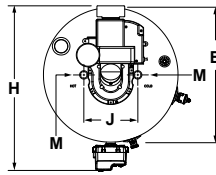
Spec 1704. For additional documentation visit: www.bradfordwhite.com/documentation



Commercial Gas Light-Duty TTW® Power Vent Models

14/15

- Bradford White ICON System®
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Powerful Blower Motor
 - 10 ft. Power Cord Included (120 VAC)
- Horizontal and Vertical Venting
- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrester design (except models above 75,000 BTU/Hr.)
 - Flammable Vapor Sensor
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- 3/4" NPT Side Connections
- Heat Traps (Except LG1PV55)
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restrictive Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved) (LG1PV55)



LG2PV50H653N

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Light-Duty TTW® Power Vent Models

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
80% Recovery Efficiency

Model Number	Nominal Gal. Capacity		DOE Rated Storage Volume (Gal.)	BTU/Hr. Input	LP BTU/Hr. Input	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*			
	U.S. Gal.	Imp. Gal.						U.S. GPH	Imp. GPH	U.S. GPH	Imp. GPH
LG2PV50H653N	48	42	46	65,000	60,000	116	0.68	63	52	56	47
LG1PV55H783N	55	46	55	78,000	78,000	125	0.68	76	63	76	63
LG2PV75H763N	75	62	72	76,000	75,500	121	0.69	74	62	73	61

Get additional product information, technical documentation, training videos and more at our exclusive site for the professional.

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Model Number	A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
LG2PV50H653N	64 3/4	22	3 or 4	49 11/16	11 1/16	56 5/8	58 7/8	28 5/16	11	13 1/2	50 1/8	3/4	3/4	1/2	186
LG1PV55H783N	64 3/8	22	3 or 4	49 1/2	8 9/16	56 1/4	58 1/2	22 7/16	7 13/16	13 3/8	47 15/16	3/4	3/4	1/2	253
LG2PV75H763N	67 11/16	26	3 or 4	51 7/8	9 3/8	59 9/16	61 13/16	32 5/16	11	13 3/8	51 1/2	3/4	3/4	1/2	252

Propane models feature a Titanium Stabilized Stainless Steel propane burner.

For Propane (LP) models change suffix "N" to "X".

For 5 year models, change suffix from "3" to "5".

* Based on manufacturer's rated recovery efficiency.

120 VAC Required for Power Venting / 120 VAC 60Hz, 3.1 Amperes.

Uniform Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

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

LG2PV50H653N LG1PV55H783N LG2PV75H763N	Vent Pipe	
	3"	4"
Max. Equivalent Length	†50 ft.	†180 ft.
Min. Equivalent Length	7 ft.	15 ft.
Number of 90° Elbows	1 2 3	175 ft. 170 ft. 165 ft.

Spec 1355. For additional documentation visit: www.bradfordwhite.com/documentation

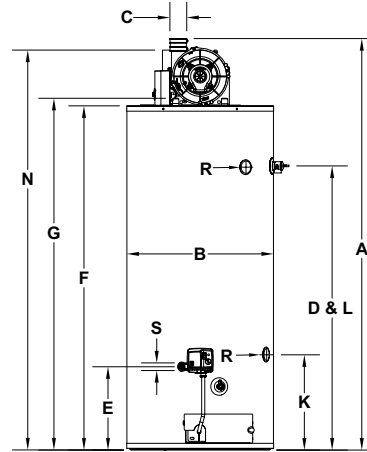
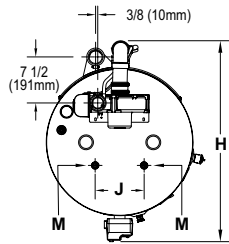
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Commercial Gas Light-Duty eF Series® Power Direct Vent Gas Water Heater

16/17

- Vertical, Dual-pass Heat Exchanger System
- Closed Combustion Venting System
- Cast Aluminum Air Intake Boot
- Horizontal and Vertical Venting
- Optional Concentric Vent Kit Termination
- Bradford White ICON System®
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Hydrojet® Total Performance System
- Vitraglas® Lining
- 2" Non-CFC Foam Insulation
- Pedestal Base
- Water Connections—3/4" NPT
- 3/4" NPT Side Connections
- Heat Traps
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restrictive Brass Drain Valve



LC2PDV50H763N

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Light-Duty eF Series® Power Direct Vent Gas Water Heater

DIMENSIONS IN INCHES

Model Number	Nominal Gal. Capacity		DOE Rated Storage Volume (Gal.)	BTU/Hr. Input		First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*				Get additional product information, technical documentation, training videos and more at our exclusive site for the professional.	
	U.S. Gal.	Imp. Gal.		U.S. GPH	Imp. GPH			U.S. GPH	Imp. GPH				
LC2PDV50H763N	50	42	48	76,000	76,000	125	0.80	80	70	84	70	FOR THE PRO bwfortheepro.com	

Model Number	A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	N Floor to Intake Conn. in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
LC2PDV50H763N	67 ^{7/16}	24	2, 3, and 4	46 ^{3/8}	14 ^{1/8}	56 ^{1/4}	57	33 ^{3/4}	8	15 ^{5/8}	46 ^{3/8}	3/4	65 ^{5/8}	3/4	1/2	290

Propane models feature a Titanium Stabilized Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X".

For 5 year models change suffix from "3" to "5".

* Based on manufacturer's rated recovery efficiency.

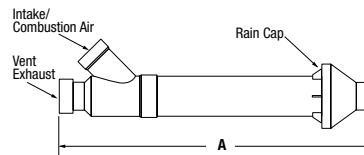
110 VAC Required for Power Venting / 110 VAC, 60Hz., 3.1 Amperes.

Uniform Energy Factor and First Hour Rating is based on the latest AHRI directory listings.

Optional Condensate Neutralizer Kit:

p/n A2123601.

Concentric Vent Kit Termination	
2" Kit	A (in.)
P/N 239-44069-02	29 1/4
3" Kit	A (in.)
P/N 239-44069-01	36 1/4



LC2PDV50H763N	2" Vent Pipe	3" Vent Pipe	4" Vent Pipe
Max. Intake Length	50 ft.	120 ft.	180 ft.
Min. Exhaust Length	†50 ft.	†120 ft.	†180 ft.
Min. Equivalent Length	7 ft.	15 ft.	15 ft.
Number of 90° Elbows	1	2	3
	45 ft.	115 ft.	175 ft.
	2	40 ft.	110 ft.
	3	35 ft.	105 ft.

Subtract 5ft. for each additional 90° elbow.

† For high altitude installations, consult the installation instructions.

Spec 1756. For additional documentation visit: www.bradfordwhite.com/documentation

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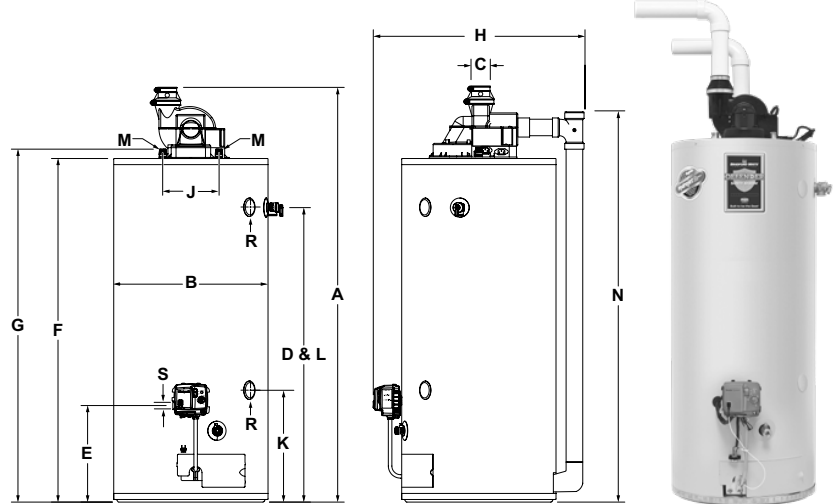


Commercial Gas Light-Duty Power Direct Vent Models

18/19

- Bradford White ICON System®
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Defender Safety System®
 - Flammable Vapor Sensor
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Powerful Blower Model
 - 10 ft. Power Cord Included (120 VAC)
- Closed Combustion Venting System
- Cast Aluminum Air Intake Boot
- Horizontal and Vertical Venting
- Optional Concentric Vent Kit Termination
- Hydrojet® Total Performance System
- Vitraglas® Lining

- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Side Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restrictive Brass Drain Valve



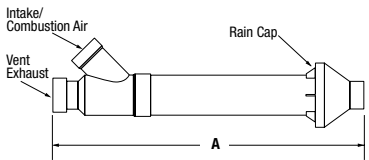
LG2PDV50H603N

page 18

Light-Duty Power Direct Vent Models

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
78% Recovery Efficiency

Model Number	Nominal Gal. Capacity		DOE Rated Storage Volume (Gal.)	BTU/Hr. Input	LP BTU/Hr. Input	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*				Concentric Vent Kit Termination						
	U.S. Gal.	Imp. Gal.						U.S. GPH	Imp. GPH	U.S. GPH	Imp. GPH	3" Kit	A (in.)					
LG2PDV50H603N	48	40	46	60,000	60,000	103	0.68	58	48	58	48	P/N 239-44069-01	36 1/4					
LG2PDV75H803N	75	62	72	80,000	78,000	134	0.69	77	64	76	63							

Model Number	A Floor to Exhaust Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	N Floor to Air Intake in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
LG2PDV50H603N	67 5/16	22	3 or 4	52 1/4	9 3/8	59 3/16	68 7/16	31 11/16	11	15 3/4	52 1/4	3/4	67	3/4	1/2	205
LG2PDV75H803N	67 11/16	26	3 or 4	51 7/8	9 3/8	59 9/16	61 13/16	36 1/16	11	16 5/8	51 7/8	3/4	70	3/4	1/2	392

Propane models feature a Titanium Stabilized Stainless Steel propane burner.

For Propane (LP) models change suffix "N" to "X".

For 5 year models change suffix from "3" to "5".

* Based on manufacturer's rated recovery efficiency.

120 VAC Required for Power Venting / 120 VAC, 60Hz., 3.1 Amperes.

Uniform Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

LG2PDV50H603N LG2PDV75H803N		3" Vent Pipe	4" Vent Pipe
Max. Intake Length		60 ft.	100 ft.
Max. Exhaust Length		60 ft.	100 ft.
Min. Vent Length		7 ft.	7 ft.
Number of 90°	1	55 ft.	95 ft.
	2	50 ft.	90 ft.
	3	45 ft.	85 ft.

Subtract 5ft. for each additional 90° elbow.

Spec 1755. For additional documentation visit: www.bradfordwhite.com/documentation

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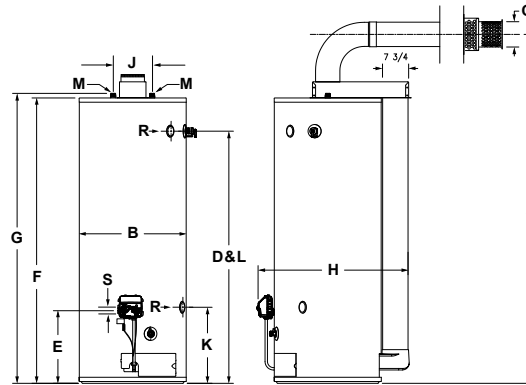


Commercial Gas Light-Duty Direct Vent Models

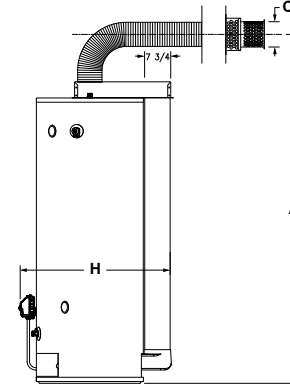
20/21

- Bradford White ICON System®
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
- Defender Safety System®
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Closed Combustion
- Reinforced Seals
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Cast Aluminum Air Intake Boot
- Telescoping Solid Vent Kits
- Flexible Vent Kit
- Side Connections—3/4" NPT
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Traps

- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restrictive Brass Drain Valve



Telescoping Solid Vent Kit (Side View)



Flexible Vent Kit (Side View)



LG2DV50H503N

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Light-Duty Direct Vent Models

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
78% Recovery Efficiency

Model Number	Nominal Gal. Capacity		DOE Rated Storage Volume (Gal.)	BTU/Hr. Input		First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*				Get additional product information, technical documentation, training videos and more at our exclusive site for the professional.				
	U.S. Gal.	Imp. Gal.		BTU/Hr. Input	LP BTU/Hr. Input			U.S. GPH	Imp. GPH	U.S. GPH	Imp. GPH					
LG2DV50H503N	48	40	46	50,000	48,000	96	0.64	47	39	45	38	FOR THE PRO bwfortheopro.com				
Model Number	A Floor to C/L of Vent Conn. in.	B Jacket Dia. in.	C Vent Size in. ID / OD	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.	
LG2DV50H503N	75 11/16	22	4 6	52 1/4	10	59 3/16	61 7/16	33 5/16	11	15 3/4	52 1/4	3/4	3/4	1/2	217	

All Propane models feature a Titanium Stabilized Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X".

For 5 year models change suffix from "3" to "5".

* Based on manufacturer's rated recovery efficiency.

Uniform Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

Solid Vent Kit: Part No. 239-51286-00. Weight: 22 lbs.

Flexible Vent Kit: Part No. 239-51287-00. Weight: 13 lbs.

Kits can be ordered and shipped with water heater, or ordered and shipped separately. For vent kit components and venting instructions, refer to Installation and Operation Manual.

LG2DV50H503N Optional Telescoping Solid Vent Kits:

Kit "F"	Telescopes from 4 1/2" to 5 1/8"	Part No. 239-42516-00
Kit "G"	Telescopes from 6 1/2" to 9 3/8"	Part No. 239-42517-00
Kit "H"	Telescopes from 13 3/4" to 23 1/4"	Part No. 239-42514-00
Kit "I"	Telescopes from 49 3/8" to 95 1/8"	Part No. 239-42512-00

Spec 1705. For additional documentation visit: www.bradfordwhite.com/documentation

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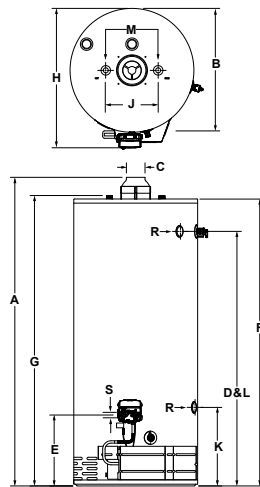
Commercial Gas

Light-Duty Ultra Low NOx Atmospheric Vent High Input Models

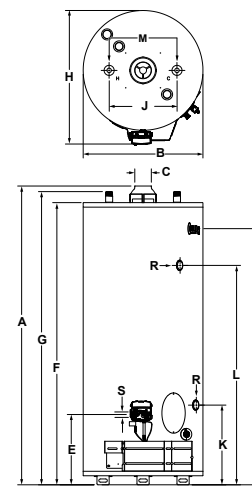
22/23

- Bradford White ICON System®
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Maintenance-Free
- Sight Window
- Hydrojet® Total Performance System
- Vitraglas® Lining
- More Precise Temperature Control
- Side Connections—3/4" NPT
- Non-CFC Foam Insulation
- Pedestal Base—ULG250&75
- Water Connections
- Protective Magnesium Anode Rod
- Hand Hole Cleanout
- 4" (107 mm) "Snap Lock" Draft Diverter
- T&P Relief Valve
- Low Restrictive Brass Drain Valve

- Design Certified by CSA International (formerly AGA and CGA)
- ULG250H553N Complies with the Latest Ultra Low NOx Requirement (10 ng/J NOx limit), ULG275H763N / ULG2100H853N (14 ng/J NOx limit)



Models ULG250H553N & ULG275H763N



Model ULG2100H803N



ULG275H763N

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Light-Duty Ultra Low NOx Atmospheric Vent High Input Models

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
79% Recovery Efficiency

DIMENSIONS IN INCHES

Model Number	Nominal Gal. Capacity	DOE Rated Storage Volume (Gal.)	Input BTU/Hr.	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*
	U.S. Gal.	Imp. Gal.				U.S. GPH
ULG250H553N	48	40	46	55,000	110	0.64
ULG275H763N	75	63	72	76,000	135	0.59
ULG2100H803N	100	83	95	80,000	157	0.57

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Model Number	A Floor to Flue Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
ULG250H553N	60 1/2	22	4	49 13/16	11 3/8	56 5/8	58 7/8	26 1/2	11	13 5/16	49 13/16	3/4	3/4	1/2	193
ULG275H763N	64 3/4	26	4	53 9/16	15 1/16	60 3/8	61 15/16	29 9/16	11	16 5/8	53 5/16	1	1	1/2	263
ULG2100H803N	72 5/16	28 1/4	4	60 3/8	16 1/2	66 3/8	69 5/8	31 13/16	16	18 3/4	51 11/16	1 1/4	1 1/4	1/2	424

Available in Natural Gas only.

For 5 year models, change suffix from "3" to "5".

* Based on manufacturer's rated thermal efficiency.

Uniform Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

Spec 1703. For additional documentation visit: www.bradfordwhite.com/documentation

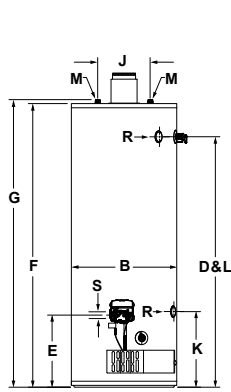
page 23



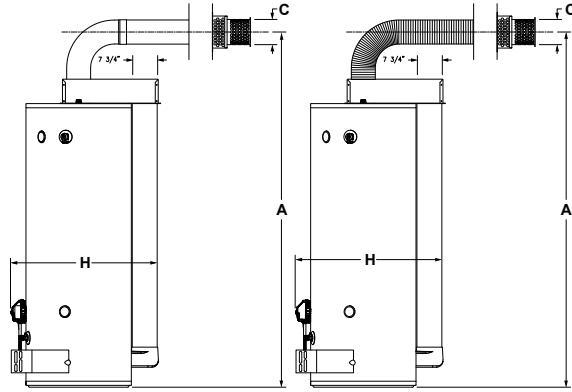
Commercial Gas Light-Duty Ultra Low NOx Direct Vent Model

24/25

- Bradford White ICON System®
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Eco-Defender Safety System®
 - Digital Thermal Sensor
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Closed Combustion
- Reinforced Seals
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Cast Aluminum Air Intake Boot
- Telescoping Solid Vent Kits
- Flexible Vent Kit
- Side Connections—3/4" NPT
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restrictive Brass Drain Valve
- Design Certified by CSA International (formerly AGA and CGA)
- Complies with the Latest Ultra Low NOx Requirement (10 ng/J NOx limit)



Telescoping Solid Vent Kit (Side View)



Flexible Vent Kit (Side View)



ULG2DV50H453N

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Light-Duty Ultra Low NOx Direct Vent Model

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
78% Recovery Efficiency

Model Number	Nominal Gal. Capacity U.S. Imp. Gal. Gal.	DOE Rated Storage Volume (Gal.)	Input BTU/Hr.	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*	U.S. Imp. GPH
ULG2DV50H453N	48 40	46	45,000	83	0.63	43	35

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Model Number	A Floor to C/L of Vent Conn. in.	B Jacket Dia. in.	C Vent Size in. ID / OD	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
ULG2DV50H453N	75 5/16	22	4 6	58 13/16	15 1/16	58 13/16	61 1/16	33 5/16	11	15 3/4	58 13/16	3/4	3/4	1/2	201

Available in Natural Gas only. For 5 year models change suffix from "3" to "5".

* Based on manufacturer's rated recovery efficiency.

Uniform Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

Solid Vent Kit: Part No. 239-51286-00. Weight: 22 lbs.

Flexible Vent Kit: Part No. 239-51287-00. Weight: 13 lbs.

Kits can be ordered and shipped with water heater, or ordered and shipped separately. For vent kit components and venting instructions, refer to Installation and Operation Manual.

Optional Telescoping Solid Vent Kits:

Kit "F"	Telescopes from 4 1/4" to 5 1/4"	Part No. 239-42516-00
Kit "G"	Telescopes from 6 1/2" to 9 1/4"	Part No. 239-42517-00
Kit "H"	Telescopes from 13 1/4" to 23 1/4"	Part No. 239-42514-00
Kit "I"	Telescopes from 49 1/4" to 95 1/4"	Part No. 239-42512-00

Spec 1707. For additional documentation visit: www.bradfordwhite.com/documentation

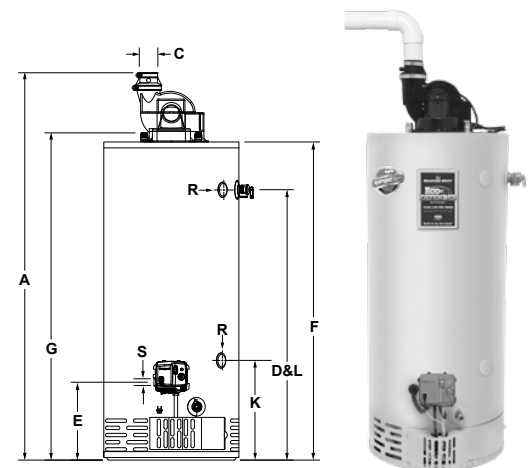
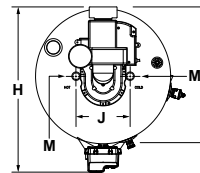
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Commercial Gas Light-Duty Ultra Low NOx TTW® Power Vent Model

26/27

- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Eco-Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design (except models above 75,000 BTU/Hr.)
- Digital Thermal Sensor
- Flammable Vapor Sensor
- Maintenance-Free
- Sight Window
- Pedestal Base
- Bradford White ICON System®
- Enhanced Performance
- Advanced Temperature Control System
- Intelligent Diagnostics
- Separate Immersed Thermowell
- Powerful Blower Motor
- 10 ft. Power Cord Included (120 VAC)
- Horizontal and Vertical Venting
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restrictive Brass Drain Valve
- All Models Comply with the Latest Ultra Low NOx Requirement (10 ng/J NOx limit) except ULG2PV75H763N (14 ng/J NOx limit)



ULG2PV50H603N

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Light-Duty Ultra Low NOx TTW® Power Vent Model

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
80% Recovery Efficiency

Model Number	Nominal Gal. Capacity		DOE Rated Storage Volume (Gal.)	Input BTU/Hr.	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*	
	U.S. Gal.	Imp. Gal.					U.S. GPH	Imp. GPH
ULG2PV50H563N	48	40	46	56,000	107	0.68	54	54
ULG2PV75H763N	75	62	72	76,000	121	0.69	74	62

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Model Number	A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	N Floor to Air Intake in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
ULG2PV50H563N	64 3/4	22	3 or 4	49 13/16	13 7/8	56 5/8	58 7/8	28 5/16	11	13 5/16	49 13/16	3/4	61 1/16	3/4	1/2	190
ULG2PV75H763N	67 11/16	26	3 or 4	51 7/8	13 7/8	59 9/16	61 13/16	32 5/16	11	16 5/8	51 7/8	3/4	64	3/4	1/2	270

Available in Natural Gas only. For 5 year models, change suffix from "3" to "5".

* Based on manufacturer's rated recovery efficiency.

120 VAC Required for Power Venting / 120 VAC, 60Hz., 3.1 Amperes.

Uniform Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

ULG2PV50H563N ULG2PV75H763N	3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length	†50 ft.**	†180 ft.**
Min. Equivalent Length	7 ft.	15 ft.
Number of 90° Elbows	1 45 ft. 2 40 ft. 3 35 ft.	175 ft. 170 ft. 165 ft.

† For high altitude installations, consult the installation instructions.

** ULG2PV75H763N maximum 3" vent is 50 ft.

Spec 1356. For additional documentation visit: www.bradfordwhite.com/documentation

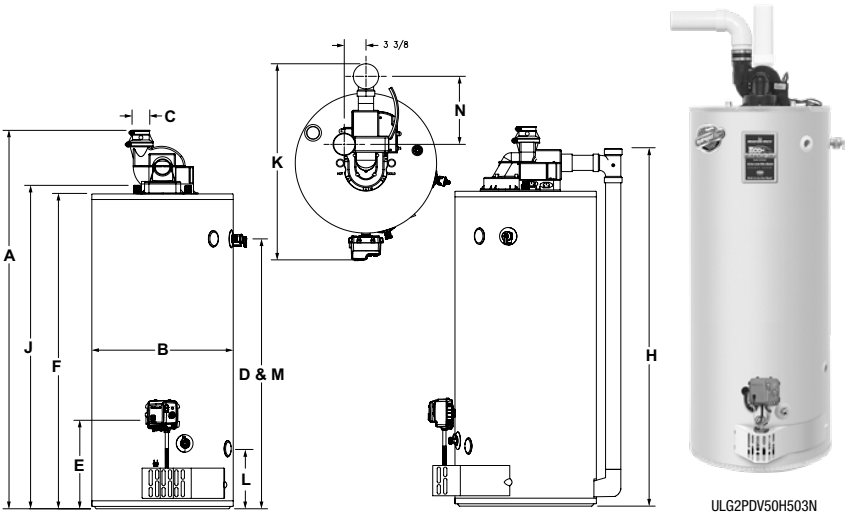
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Commercial Gas
Light-Duty Ultra Low NOx Power Direct Vent Model

28/29

- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Eco-Defender Safety System®
 - Digital Thermal Sensor
 - Flammable Vapor Sensor
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Closed Combustion Venting System
- Bradford White ICON System®
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Cast Aluminum Air Intake Boot
- Hydrojet® Total Performanc System
- Vitraglas® Lining
- Optional Concentric Vent Kit Termination
- Horizontal and Vertical Venting
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Side Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restrictive Brass Drain Valve
- Complies with the Latest Ultra Low NOx Requirement (10 ng/J NOx Limit)



ULG2PDV50H503N

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Light-Duty Ultra Low NOx Power Direct Vent Model

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
78% Recovery Efficiency

Model Number	Nominal Gal. Capacity	DOE Rated Storage Volume (Gal.)	BTU/Hr. Input	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*
	U.S. Gal.	Imp. Gal.				U.S. GPH
ULG2PDV50H503N	48	40	46	50,000	82	0.68

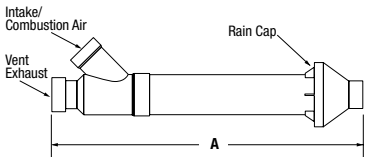
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Model Number	A Floor to Exhaust Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	N Floor to Air Intake in.	P C/L Distance From Intake to Exhaust in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
ULG2PDV50H503N	67 ⁵ / ₁₆	22	3 or 4	52 ¹ / ₄	13 ⁷ / ₈	59 ¹¹ / ₁₆	61 ¹⁵ / ₁₆	31 ¹¹ / ₁₆	11	15 ³ / ₄	52 ¹ / ₄	3/4	63 ⁷ / ₈	9 ¹ / ₄	3/4	1/2	201

Available in Natural Gas only. For 5 year models change suffix from "3" to "5".
* Based on manufacturer's rated recovery efficiency.
20 VAC Required for Power Venting / 120 VAC, 60Hz., 3.1 Amperes.
Uniform Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

Concentric Vent Kit Termination	
3" Kit	A (in.)
P/N 239-44069-01	36 ¹ / ₄



ULG2PDV50H503N	3" Vent Pipe	4" Vent Pipe
Max. Intake Length	60 ft.	100 ft.
Max. Exhaust Length	60 ft.	100 ft.
Min. Vent Length	7 ft.	7 ft.
Number of 90° Elbows	1	1
	2	2
	3	3

Subtract 5ft. for each additional 90° elbow.

Spec 1717. For additional documentation visit: www.bradfordwhite.com/documentation

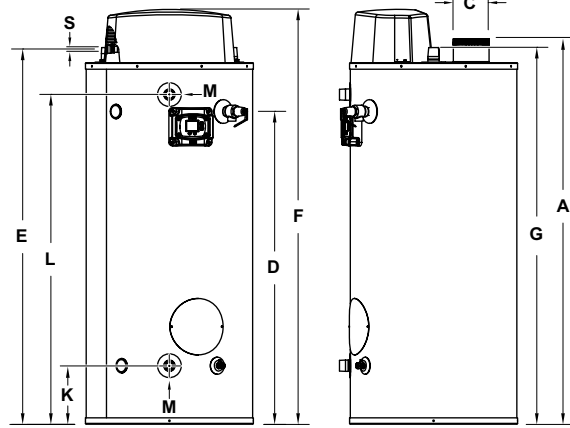
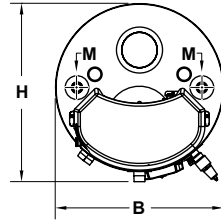
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Commercial Gas Commander Series® Atmospheric Vent Models

30/31

- ICON HD®
 - Operation Mode
 - Service Mode
- BMS Integration
- Optional Air Intake Ducting
- Premix Power Burner
- Direct Spark Ignition
- Two Pass Fire-Tube Heat Exchanger System
- Sanitizing Capability
- Hydrojet® Sediment Reduction System
- Vitraglas® Lining
- Non-CFC Foam Insulation
- Water Connections
- 1" NPT Side Connections for Space Heating
- 82% Thermal Efficiency
- Zero Inch Clearance to Combustibles
- Hand Hole Cleanout
- NSF Construction Available
- T&P Relief Valve
- Low Restrictive Brass Drain Valve
- Ultra Low NOx Construction
(14 ng/J NOx Emissions)
- CSA Certified Low Lead Content



UCG-100H-199-3N

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Commander Series® Atmospheric Vent Models

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
82% Thermal Efficiency

Model Number	Nominal Gal. Capacity		Input BTU/Hr.	GPH Recovery at Degree Rise*			A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Cold Water Conn./Hot Water Conn. in.	H Depth in.	K Floor to Cold Water Conn. in.	L Floor to Hot Water Conn. in.	M Water Conn. NPT in.	S Gas Conn. Size in.	Relief Valve Open in.	Approx. Shipping Weight lbs.
	U.S. Gal.	Imp. Gal.		40°F	100°F	140°F														
UCG-80H-125-3N(A)	80	67	125,000	308	123	88	57	28	5	44 1/4	54 1/2	61 3/8	54 3/4	30	9 3/4	46 15/16	1 1/2	3/4	3/4	535
UCG-80H-199-3N(A)	81	67	199,999	493	197	141	57	28	6	44 1/4	54 1/2	61 3/8	54 3/4	30	9 3/4	46 15/16	1 1/2	3/4	3/4	535
UCG-80H-270-3N(A)	82	67	270,000	665	266	190	57	28	6	44 1/4	54 1/2	61 3/8	54 3/4	30	9 3/4	46 15/16	1 1/2	3/4	1	545
UCG-80H-399-3N(A)	83	67	399,999	960	384	274	57	28	8	44 1/4	54 1/2	61 3/8	54 3/4	30	9 3/4	46 15/16	1 1/2	3/4	1	545
UCG-100H-199-3N(A)	100	83	199,999	493	197	141	64 7/8	28	6	52 3/4	62 3/4	70	63 1/4	30	9 3/4	55 3/8	1 1/2	3/4	3/4	632
UCG-100H-270-3N(A)	100	83	270,000	665	266	190	64 7/8	28	6	52 3/4	62 3/4	70	63 1/4	30	9 3/4	55 3/8	1 1/2	3/4	1	632
UCG-100H-399-3N(A)	98	82	399,999	994	398	284	64 7/8	28	8	52 3/4	62 3/4	70	63 1/4	30	9 3/4	55 3/8	1 1/2	3/4	1	657

For Propane Gas models change suffix "N" to "X". Example: UCG-100H-199-3X

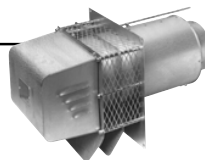
(UCG-100H-399 available in Natural Gas only). All models comply with the latest Ultra Low NOx requirements (14 ng/J or less for natural gas and 77 ppm NOx limit for liquid propane). Amp Draw range = 1.0 to 1.8 amps.

(A) ASME - All models are available with ASME construction.

BACnet® Gateway Kit Number - 415-53943-00

Optional Power Vent Kits - for side wall termination only.

Model Numbers	Kit Number
UCG-80H-125/199/270, UCG-100H-199/270:	239-81764-00
UCG-80H-399, UCG-100H-399:	239-81766-00


Spec 741. For additional documentation visit: www.bradfordwhite.com/documentation

Optional Air Intake Ducting Maximum Lengths

Model	2" PVC, ABS, or CPVC	3" PVC, ABS, or CPVC	4" PVC, ABS, or CPVC
UCG-80H-125-3(N,X)(A)	20 ft.	50 ft.	75 ft.
UCG-80H-199-3(N,X)(A)	20 ft.	50 ft.	75 ft.
UCG-100H-199-3(N,X)(A)	20 ft.	50 ft.	75 ft.
UCG-80H-270-3(N,X)(A)	20 ft.	50 ft.	75 ft.
UCG-100H-270-3(N,X)(A)	20 ft.	50 ft.	75 ft.
UCG-80H-399-3(N,X)(A)	N/A	25 ft.	50 ft.
UCG-100H-399-3N(A)	N/A	25 ft.	50 ft.

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Commercial Gas Electronic Ignition Water Heaters

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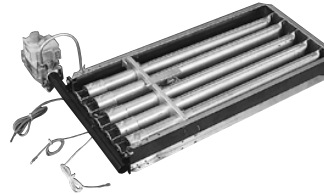
- ICON HD®—Intelligent proven design combines temperature control, diagnostic codes and system ignition functions into a single control board with a digital LCD display
 - Operation Mode
 - Service Mode
- Electronic Ignition
- Automatic Flue Damper
- Hydrojet® Sediment Reduction System
- Vitraglas® Lining

- Non-CFC Foam Insulation
- Water connections—True dielectric waterway fittings
- Hand Hole Cleanout
- Automatic Re-Set E.C.O.
- Magnesium Anode Rods
- Sanitizing Capability
- ASME Code Available on All Models above 200,000 BTU/Hr.
- NSF Construction Available

- Low NOx Construction Available
- North Carolina Code Compliant
- T&P Relief Valve
- Low Restrictive Brass Drain Valve

Commercial Gas Burner

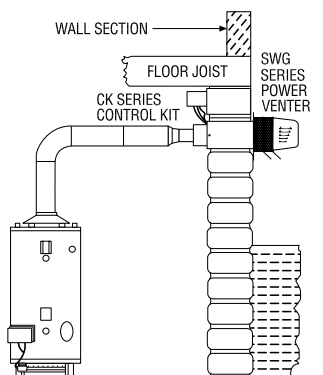
- Orifice Alignment Bracket for True Injection
- Stainless Steel Pilot Shield
- Stainless Steel Burner Rack and Mounting Bracket
- Aluminized Steel Burner Tubes with Adjustable Air Shutter (Stainless Steel Burner Tubes Available)
- Opposing Lance Formed Burner Ports Yield Consistent Performance to Stabilize Burner Flame and Promote Better Air Gas Mixture
- Standard on Both "T" and "L" Commercial Energy Saver Models



D-80T-180-3N

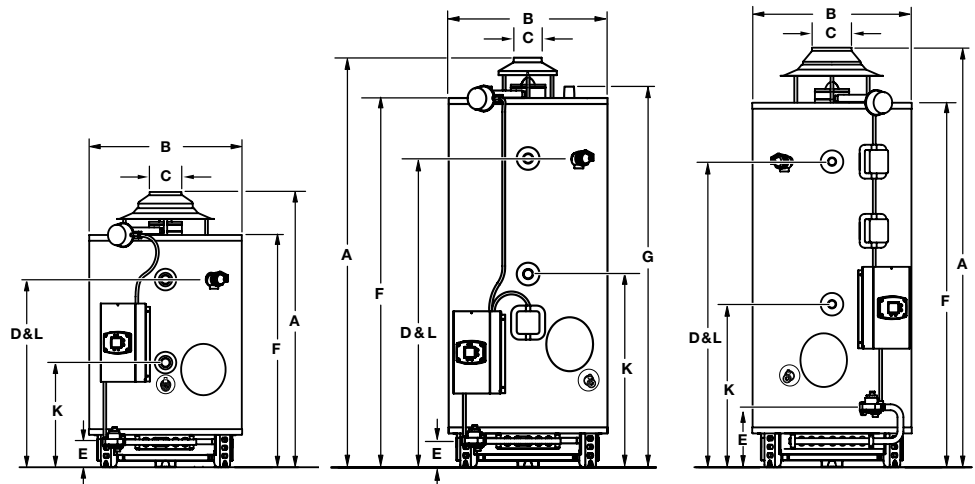
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Typical Applications



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

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



D-38T-155

D-75T-(125, 160)
D-80T-(180, 199, 250)
D-100T-(199, 250)
D-100S-(199, 250)
D-100L-(199, 250, 270, 300)

D-75T-300
D-65T-(370, 399)
D-80T-(425, 505)

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Commercial Gas Electronic Ignition Models

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Electronic Ignition Models

DIMENSIONS IN INCHES

These models meet or exceed both Thermal Efficiency and
Standby Loss Requirements of ASHRAE 90.1b (Current Edition).

Model Number	Nominal Gal. Capacity		BTU/Hr. Input	LP BTU/Hr. Input	GPH Recovery at Degree Rise*			A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Top Water Conn. in.	K Floor to Water Conn. Cold in.	L Floor to Water Conn. Hot in.	Depth in.	C/L of Water Conn. in.	Water Conn. NPT in.	Gas Conn. Size in.	Approx. Shipping Weight (lbs.)	
	U.S. Gal.	Imp. Gal.			40°F	100°F	140°F														Std.	ASME
D-38T-155-3N+	38	31	155,000	155,000	376	150	107	51 ⁹ / ₁₆	28 ¹ / ₄	6	34 ³ / ₈	5 ¹ / ₁₆	43 ⁹ / ₁₆	—	19 ¹³ / ₁₆	35 ⁹ / ₁₆	32 ¹ / ₂	—	1 ¹ / ₂ (F)	3/4	438	—
D-65T-370-3N(A)	65	54	370,000	370,000	897	359	256	71 ⁵ / ₈	28 ¹ / ₄	8	54	6 ¹ / ₄	63 ⁷ / ₈	—	28 ³ / ₄	54	33 ³ / ₈	—	1 ¹ / ₂ (F)	1 ¹ / ₂ (LP)	665	720
D-65T-399-3N(A)**	65	54	399,999	—	970	388	277	71 ⁵ / ₈	28 ¹ / ₄	8	54	6 ¹ / ₄	63 ⁷ / ₈	—	28 ³ / ₄	54	33 ³ / ₈	—	1 ¹ / ₂ (F)	1(N)	665	720
D-75T-125-3N	75	62	125,000	125,000	303	121	86	76	28 ¹ / ₄	5	55 ¹³ / ₁₆	8 ¹¹ / ₁₆	65 ¹ / ₈	70	25 ⁷ / ₁₆	66 ¹ / ₄	32 ¹ / ₂	14 ¹ / ₂	1 ¹ / ₂ (T&F)	3/4	520	—
D-75T-160-3N	75	62	160,000	155,000	389	155	111	76	28 ¹ / ₄	6	55 ¹³ / ₁₆	8 ¹¹ / ₁₆	65 ¹ / ₈	70	25 ⁷ / ₁₆	66 ¹ / ₄	32 ¹ / ₂	14 ¹ / ₂	1 ¹ / ₂ (T&F)	3/4	520	—
D-75T-300-3N(A)	75	62	300,000	300,000	727	291	208	75 ⁹ / ₁₆	28 ¹ / ₄	7	52 ²³ / ₃₂	8 ¹¹ / ₁₆	65 ¹⁵ / ₁₆	—	28 ⁷ / ₈	54 ³ / ₈	33 ³ / ₈	—	1 ¹ / ₂ (F)	3/4	590	645
D-80T-180-3N	80	67	180,000	180,000	436	175	124	72 ³ / ₄	28 ¹ / ₄	6	55 ⁵ / ₈	5	64 ³ / ₄	70	20	56 ¹ / ₂	32 ¹ / ₂	19	1 ¹ / ₂ (T&F)	3/4	540	—
D-80T-199-3N	80	67	199,999	199,999	485	194	139	72 ³ / ₄	28 ¹ / ₄	6	55 ⁵ / ₈	5	64 ³ / ₄	70	20	56 ¹ / ₂	32 ¹ / ₂	19	1 ¹ / ₂ (T&F)	3/4	540	—
D-80T-250-3N(A)	80	67	250,000	235,000	606	242	173	72 ³ / ₄	28 ¹ / ₄	6	55 ⁵ / ₈	5	64 ³ / ₄	70	20	56 ¹ / ₂	32 ¹ / ₂	19	1 ¹ / ₂ (T&F)	3/4	540	590
D-80T-425-3N(A)	80	67	425,000	425,000	1030	412	294	83 ¹³ / ₁₆	28 ¹ / ₄	10	65 ⁹ / ₁₆	6 ¹ / ₄	79 ⁹ / ₁₆	—	23 ¹ / ₂	66 ⁵ / ₈	34 ¹ / ₂	—	1 ¹ / ₂ (F)	1 ¹ / ₂ (LP)	750	800
D-80T-505-3N(A)	80	67	505,000	505,000	1178	489	337	83 ¹³ / ₁₆	28 ¹ / ₄	10	65 ⁹ / ₁₆	6 ¹ / ₄	79 ⁹ / ₁₆	—	23 ¹ / ₂	66 ⁵ / ₈	34 ¹ / ₂	—	1 ¹ / ₂ (F)	1 ¹ / ₂ (LP)	750	800
D-100L-199-3N	100	83	199,999	199,999	485	194	139	73 ¹ / ₄	30 ¹ / ₄	6	59 ⁹ / ₁₆	8 ¹¹ / ₁₆	65 ³ / ₈	70 ¹ / ₂	30 ⁵ / ₈	56 ⁹ / ₁₆	34 ¹ / ₂	23	1 ¹ / ₂ (T&F)	3/4	725	—
D-100S-199-3N	100	83	199,999	199,999	485	194	139	75 ¹¹ / ₁₆	28 ¹ / ₄	6	61 ³ / ₈	8 ¹¹ / ₁₆	68 ⁷ / ₈	70	21 ⁹ / ₁₆	61 ¹ / ₄	32 ¹ / ₂	21	1 ¹ / ₂ (T&F)	3/4	667	—

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Electronic Ignition Models

DIMENSIONS IN INCHES

These models meet or exceed both Thermal Efficiency and
Standby Loss Requirements of ASHRAE 90.1b (Current Edition).

Model Number	Nominal Gal. Capacity		BTU/Hr. Input	LP BTU/Hr. Input	GPH Recovery at Degree Rise*			A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Top Water Conn. in.	K Floor to Water Conn. Cold in.	L Floor to Water Conn. Hot in.	Depth in.	C/L of Water Conn. in.	Water Conn. NPT in.	Gas Conn. Size in.	Approx. Shipping Weight (lbs.)	
	U.S. Gal.	Imp. Gal.			40°F	100°F	140°F														Std.	ASME
D-100T-199-3N	98	82	199,999	199,999	485	194	139	83 ¹³ / ₁₆	28 ¹ / ₄	6	66 ⁵ / ₁₆	8 ¹¹ / ₁₆	75 ⁷ / ₁₆	81 ¹ / ₂	23 ¹ / ₂	66 ⁵ / ₈	32 ¹ / ₂	19	1 ¹ / ₂ (T&F)	3/4	610	—
D-100L-250-3N(A)	100	83	250,000	250,000	606	242	173	73 ¹ / ₄	30 ¹ / ₄	6	56 ⁹ / ₁₆	8 ¹¹ / ₁₆	65 ³ / ₈	70 ¹ / ₂	30 ⁵ / ₈	56 ⁹ / ₁₆	34 ¹ / ₂	23	1 ¹ / ₂ (T&F)	3/4	725	765
D-100S-250-3N(A)	100	83	250,000	250,000	606	242	173	75 ¹¹ / ₁₆	28 ¹ / ₄	6	61 ³ / ₈	8 ¹¹ / ₁₆	68 ⁷ / ₈	70	21 ⁹ / ₁₆	61 ¹ / ₄	32 ¹ / ₂	21	1 ¹ / ₂ (T&F)	3/4	667	702
D-100T-250-3N(A)	98	82	250,000	235,000	606	242	173	83 ¹³ / ₁₆	28 ¹ / ₄	6	66 ⁵ / ₁₆	8 ¹¹ / ₁₆	75 ⁷ / ₁₆	81 ¹ / ₂	23 ¹ / ₂	66 ⁵ / ₈	32 ¹ / ₂	19	1 ¹ / ₂ (T&F)	3/4	610	690
D-100L-270-3N(A)**	100	83	270,000	—	655	262	187	73 ¹ / ₄	30 ¹ / ₄	6	56 ⁹ / ₁₆	8 ¹¹ / ₁₆	65 ³ / ₈	70	30 ⁵ / ₈	56 ⁹ / ₁₆	34 ¹ / ₂	23	1 ¹ / ₂ (T&F)	3/4	725	765
D-100L-300-3N(A)	100	83	300,000	300,000	727	291	208	73 ¹ / ₄	30 ¹ / ₄	7	56 ⁹ / ₁₆	8 ¹¹ / ₁₆	65 ³ / ₈	70	30 ⁵ / ₈	56 ⁹ / ₁₆	34 ¹ / ₂	23	1 ¹ / ₂ (T&F)	3/4	725	765

(A) = ASME Code Available

(F) = Front Water Connection

(T) = Top Water Connection

** = Available in Natural Gas Only

+ = Fiberglass Insulation

For (LP) Propane Gas models
change suffix "N" to "X".* = Recoveries are based on Natural Gas
Input and 80% Thermal Efficiency.

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

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.

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

Optional Alarm Module — Provides indication (contacts are closed) when an alarm is present via normally open
contacts (rated for up to 24 VAC).

Kit Number – 265-51961-00.

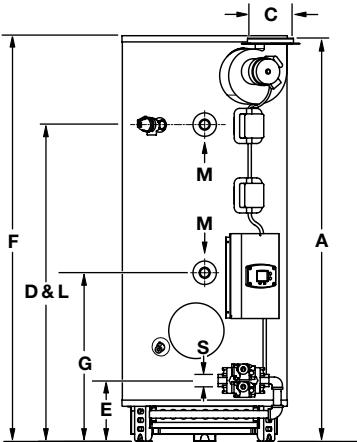
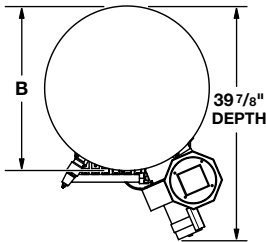
Spec 735. For additional documentation visit: www.bradfordwhite.com/documentation

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Commercial Gas
Induced Draft Models

- ICON HD®—Intelligent proven design combines temperature control, diagnostic codes and system ignition functions into a single control board with a digital LCD display
 - Operation Mode
 - Service Mode
- Electronic Ignition
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Automatic Re-Set E.C.O.
- Non-CFC Foam Insulation
- Water Connections—1½" NPT front true dielectric fittings
- Protective Magnesium Anode Rods
- Hand Hole Cleanout
- Sanitizing Capability
- NSF Construction Available
- ASME Construction Available
- T&P Relief Valve
- Low Restrictive Brass Drain Valve



D-65T-625-3NA

Induced Draft Models

DIMENSIONS IN INCHES

These models meet or exceed both Thermal Efficiency and Standby Loss Requirements of ASHRAE 90.1b (Current Edition). C.E.C. Listed 80% Thermal Efficiency

Model Number	Nominal Gal. Capacity		BTU/Hr. Input	LP BTU/Hr. Input	GPH Recovery* at Degree Rise			A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Cold Water Conn. in.	L Floor to Hot Water Conn. in.	M Water Conn. NPT in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.	
	U.S. Gal.	Imp. Gal.			40°F	100°F	140°F											Std.	ASME
D-65T-625-3N(A)	65	54	625,000	625,000	1515	606	433	73 3/8	28 1/4	8	58 1/8	6 1/4	73 3/8	32 3/4	58 1/8	1 1/2	1†	720	775
D-80T-725-3N(A)	80	66	725,000	725,000	1757	703	502	83 15/16	28 1/4	8	68 3/16	6 1/4	83 15/16	32 3/4	68 3/16	1 1/2	1†	800	880

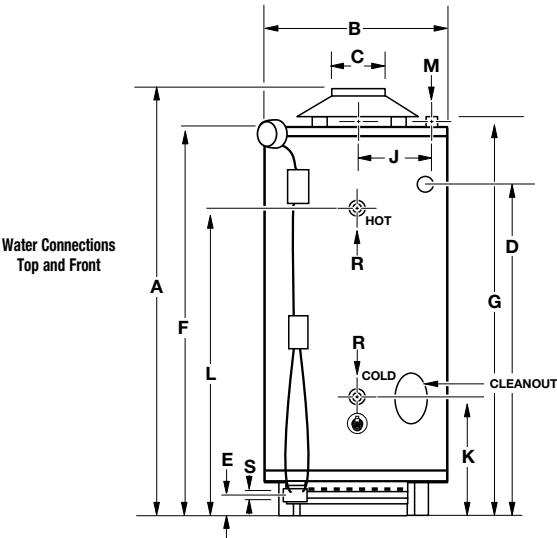
(A) = ASME Code Available.
For Propane (LP) models change suffix "N" to "X".
For 5 year models change suffix from "3" to "5".
† LP Gas Connection 3/4"
* Recoveries are based on Natural Gas input and 80% Thermal Efficiency.

Spec 308. For additional documentation visit: www.bradfordwhite.com/documentation



Commercial Gas
Millivolt Models

- No Electricity Required
- Continuous pilot-ignition
- Piezo Igniter—Easy and quick lighting by the pilot burner by push button
- E.C.O.—An automatic re-set Energy Cut Off (E.C.O.) shuts off all gas in the event of an overheat condition. This automatically resets when operation conditions are back to normal
- Millivolt Controls
- Automatic Flue Damper
- Vitraglas® Lining
- Hydrojet® Sediment Reduction System
- Dielectric Fittings
- Non-CFC Foam Insulation
- Hand Hole Cleanout (Standard)
- NSF Construction Available
- T&P Relief Valve
- Low Restrictive Brass Drain Valve
- 3 Year Limited Tank Warranty



DM-80T-199-3N

Millivolt Models

DIMENSIONS IN INCHES

These models meet or exceed both Thermal Efficiency and Standby Loss Requirements of ASHRAE 90.1b (Current Edition). C.E.C. Listed

Get additional product information, technical documentation, training videos and more at our exclusive site for the professional.



bwfortheapro.com

Model Number	Nominal Gal. Capacity		BTU/Hr. Input	LP BTU/Hr. Input	GPH Recovery at Degree Rise*			A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight (lbs.)	
	U.S. Gal.	Imp. Gal.			40°F	100°F	140°F														Std.	ASME
DM-80T-199-3N	80	67	199,999	190,000	485	194	139															
DM-100T-199-3N	98	82	199,999	199,999	485	194	139															

* = Recoveries based on Thermal Efficiencies of 80%.
For Propane Gas (LP) models change suffix "N" to "X".

For LowNOx compliance, place an "E" following the BTU Input identifier of the model number. Example: DM-80T-199E-3N

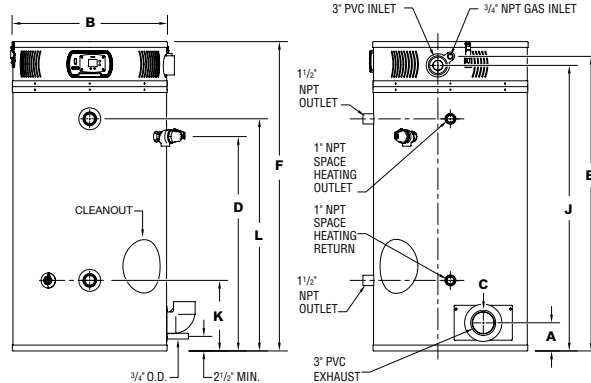
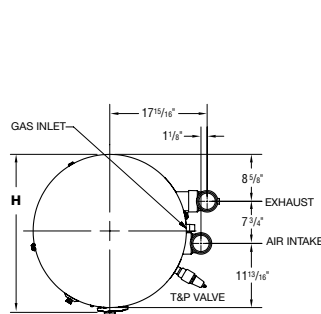
Spec 742. For additional documentation visit: www.bradfordwhite.com/documentation



Commercial Gas Ultra High Efficiency Models: EF-60T through EF-100T

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- ICON HD®—Intelligent proven design combines temperature control, diagnostic codes and system ignition functions into a single control board with a digital LCD display
- ENERGY STAR® Models Available—EF60T125 & EF100T (150,199,250,399) Models
- BMS Integration (except EF100T399)
- ASME Construction Available
- Electronic Controls
- Down-Fired Premix Power Burner
- Three Pass Fire Tube Heat Exchanger System
- Venting Versatility
- Vitraglas® Lining
- Hydrojet® Sediment Reduction System
- Dielectric Fittings
- Non-CFC Foam Insulation
- Two Powered Anode Rods
- Hand Hole Cleanout
- Zero Inch Clearance to Combustibles
- NSF Construction Available
- T&P Relief Valve
- Low Restrictive Brass Drain Valve
- Complies with the Latest Ultra-Low NOx Requirement (14 ng/J NOx Limit for natural gas and 77ppm NOx limit for liquid propane)



EF-60T-199E-3N

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Ultra High Efficiency Models

DIMENSIONS IN INCHES

These models meet or exceed both Thermal Efficiency and Standby Loss Requirements of ASHRAE 90.1b (Current Edition), C.E.C. Listed

Model Number	Nominal Gal. Capacity	U.S. Gal.	Imp. Gal.	BTU/Hr. Input	Therm. Eff. %	A Floor to Exhaust Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	H Depth in.	J Floor to Air Intake Conn. in.	K Floor to Cold Water Conn. in.	L Floor to Hot Water Conn. in.	Water Conn. NPT in.	Gas Conn. Size in.	Relief Valve Open in.	Approx. Shipping Weight lbs.
★ EF-60T-125E-3N(A)	60	50	125,000	96.0	5	28 1/4	3	39 1/16	53 1/4	56 3/8	28 1/4	51 5/8	12 13/16	41 15/16	1 1/2	3/4	3/4	3/4	570
EF-60T-150E-3N(A)	60	50	150,000	93.0	5	28 1/4	3	39 1/16	53 1/4	56 3/8	28 1/4	51 5/8	12 13/16	41 15/16	1 1/2	3/4	3/4	3/4	570
EF-60T-199E-3N(A)	60	50	199,999	92.0	5	28 1/4	3	39 1/16	53 1/4	56 3/8	28 1/4	51 5/8	12 13/16	41 15/16	1 1/2	3/4	3/4	3/4	570
★ EF-100T-150E-3N(A)	100	83	150,000	97.0	5	28 1/4	3	60 1/16	74 1/4	77 1/8	28 1/4	72 5/8	12 13/16	62 15/16	1 1/2	3/4	3/4	3/4	900
★ EF-100T-199E-3N(A)	100	83	199,999	97.0	5	28 1/4	3	60 1/16	74 1/4	77 1/8	28 1/4	72 5/8	12 13/16	62 15/16	1 1/2	3/4	3/4	3/4	900
★ EF-100T-250E-3N(A)	100	83	250,000	96.0	5	28 1/4	3	60 1/16	74 1/4	77 1/8	28 1/4	72 5/8	12 13/16	62 15/16	1 1/2	3/4	1	1	900
EF-100T-300E-3N(A)	100	83	300,000	92.0	5	28 1/4	3	60 1/16	74 1/4	77 1/8	28 1/4	72 5/8	12 13/16	62 15/16	1 1/2	3/4	1	1	900
★ EF-100T-399E-3N(A)	100	83	399,999	94.0	5	28 1/4	3	60 1/16	74 1/4	77 1/8	28 1/4	72 5/8	12 13/16	62 15/16	1 1/2	3/4	1	1	950

(A) = ASME - All models are available with ASME construction. To order ASME construction add the (A) to the end of the model number. Example: EF-60T-125E-3NA.

Note: The weight is the same for both ASME and Non-ASME models.

For 5 year warranty models, change suffix "3" to "5" Example: EF-100T-399E-5N.

For Propane Gas models change suffix "N" to "X" and remove "E" from model number Example: EF-100T-150-3X.

NSF Compliance Kit—p/n 265-44542-04.

The water heater must be wired to 120VAC, 60Hz, 15A power supply.

★ = ENERGY STAR® models available.



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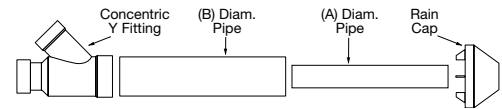


Commercial Gas

Ultra High Efficiency Models: EF-60T through EF-100T

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2" Vent Pipe	EF-60T-125		EF-60T-150 EF-100T-150		EF-60T-199 EF-100T-199	
	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent
Max. Intake Length	15 ft.	N/A	15 ft.	N/A	15 ft.	N/A
Max. Exhaust Length	15 ft.	30 ft.	15 ft.	30 ft.	15 ft.	30 ft.



3" Vent Pipe	EF-60T-125 EF-100T-150		EF-60T-150 EF-100T-199		EF-60T-199 EF-100T-250		EF-100T-300		EF-100T-399	
	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent
Max. Intake Length	60 ft.	N/A	50 ft.	N/A	40 ft.	N/A	30 ft.	N/A	25 ft.	N/A
Max. Exhaust Length	60 ft.	120 ft.	50 ft.	100 ft.	40 ft.	80 ft.	30 ft.	60 ft.	25 ft.	50 ft.

2", 3" and 4" Concentric Vent Kits
Part Identification

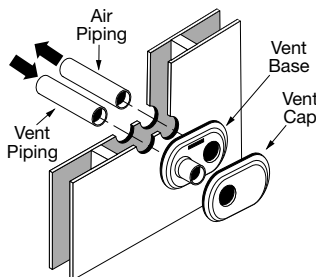
Concentric Vent Size	(A)	(B)
4 in.	4.5 in.	6.6 in.
3 in.	3 in.	4.5 in.
2 in.	2.5 in.	3.5 in.

4" Vent Pipe	EF-60T-125 EF-100T-150		EF-60T-150 EF-100T-199		EF-60T-199 EF-100T-250		EF-100T-300		EF-100T-399	
	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent
Max. Intake Length	85 ft.	N/A	75 ft.	N/A	65 ft.	N/A	55 ft.	N/A	50 ft.	N/A
Max. Exhaust Length	85 ft.	170 ft.	75 ft.	150 ft.	65 ft.	130 ft.	55 ft.	110 ft.	50 ft.	100 ft.

6" Vent Pipe	EF-60T-125 EF-100T-150		EF-60T-150 EF-100T-199		EF-60T-199 EF-100T-250		EF-100T-300		EF-100T-399	
	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent	Power Vent
Max. Intake Length	85 ft.	N/A	75 ft.	N/A	65 ft.	N/A	60 ft.	N/A	120 ft.	N/A
Max. Exhaust Length	85 ft.	170 ft.	75 ft.	150 ft.	65 ft.	130 ft.	60 ft.	120 ft.	120 ft.	240 ft.

Air intake cannot exceed exhaust by more than 30 ft. in any venting situation. Subtract 5 ft. for each additional 90° elbow.

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Low Profile Termination Kit Model Numbers				
Description (in.)	Pipe O.D. (in.)	Hole Spacing (ctr to ctr) (in.)	IPEX System (1738 or 636)	IPEX Part Number
2" Low Profile	2.36" Low Profile	5.6"	636	196050
2" Low Profile	2.36" Low Profile	5.6"	1738	397984
3" Low Profile	3.5" Low Profile	5.6"	636	196985
3" Low Profile	3.5" Low Profile	5.6"	1738	397985
4" Low Profile	4.5" Low Profile	5.6"	636	196986
4" Low Profile	4.5" Low Profile	5.6"	1738	397086

Appliance Numbers Approved for Concentric Termination Kits			
Description (in.)	Part Number	IPEX System (1738 or 636)	IPEX Part Number
2" Concentric Termination	239-44069-02	636	196005 (PVC), 197040 (CPVC)
2" Concentric Termination	—	1738	397005
3" Concentric Termination	239-44069-01	636	196006 (PVC), 197009 (CPVC)
3" Concentric Termination	—	1738	397006
4" Concentric Termination	—	636	196021 (PVC), 197021 (CPVC)
4" Concentric Termination	—	1738	397021

Recovery Data

Model Number	GPH Recovery at Degree Rise*											
	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	120°F	130°F	140°F
EF-60T-125E-3N(A)	485	364	291	242	208	182	162	145	132	120	112	104
EF-60T-150E-3N(A)	564	423	338	282	242	211	188	169	154	141	130	121
EF-60T-199E-3N(A)	740	558	444	370	317	277	247	223	202	185	171	159
EF-100T-150E-3N(A)	588	441	353	294	252	220	196	176	160	147	136	126
EF-100T-199E-3N(A)	784	588	470	392	336	294	261	235	214	196	181	168
EF-100T-250E-3N(A)	970	727	582	485	416	364	323	291	264	242	223	208
EF-100T-300E-3N(A)	1115	836	669	558	478	418	372	335	304	279	257	239
EF-100T-399E-3N(A)	1519	1127	912	760	651	570	506	451	414	380	351	326

eF Series® Optional Equipment Features:

NSF Compliance Kit	p/n 265-44542-04
Optional Condensate Neutralizer Kit	p/n A2123601 (125,000 - 250,000 BTU/Hr.)
BACnet® Gateway Kit	p/n A2123602 (300,000 - 399,000 BTU/Hr.)
	p/n 415-53943-00

Low Inlet Gas Pressure Option—Pre-assembled to allow operation with natural gas inlet pressure down to 3.5" w.c. (Not available on EF-100T-300/399E-3N(A) models or any size propane models.)

Spec 800. For additional documentation visit: www.bradfordwhite.com/documentation

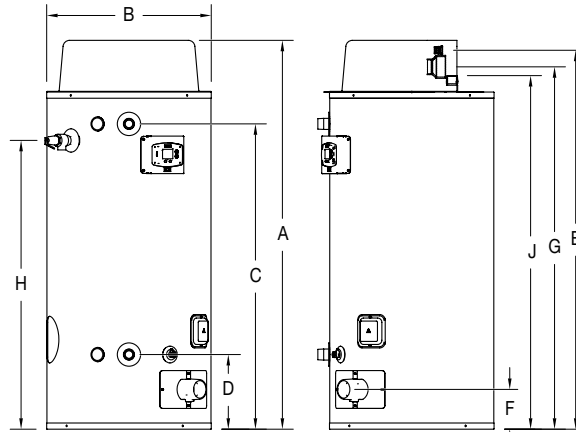
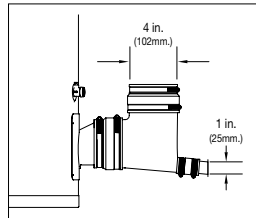
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Commercial Gas Ultra High Efficiency EF-120T Models

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- ICON HD®—Intelligent proven design combines temperature control, diagnostic codes and system ignition functions into a single control board with a digital LCD display
- ENERGY STAR® Qualified
- BMS Integration
- Modulating Down-Fired Premix Power Burner
- ASME Construction Available
- Electronic Controls
- Direct Spark Ignition
- Three Pass Fire Tube Heat Exchanger System
- Venting Versatility
- Vitraglas® Lining
- Hydrojet® Sediment Reduction System
- Dielectric Fittings
- Non-CFC Foam Insulation
- 1" NPT Side Connections for Space Heating
- Submerged Combustion Chamber
- Sanitizing Capability
- Two Powered Anode Rods
- Hand Hole Cleanout
- Zero Inch Clearance to Combustibles
- A Single Exhaust Pressure Switch
- T&P Relief Valve
- Low Restrictive Brass Drain Valve
- Complies with the Latest Ultra-Low NOx Requirement (14 ng/J NOx Limit) for natural gas and 77ppm NOx Limit for liquid propane)



EF-120T-500-3N

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Ultra High Efficiency EF-120T Models

DIMENSIONS IN INCHES

These models meet or exceed both Thermal Efficiency and Standby Loss Requirements of ASHRAE 90.1b (Current Edition), C.E.C. Listed

Model Number	Nominal Gal. Capacity		Input	Therm. Eff.	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to Front Hot Water Conn. in.	D Floor to Cold Water Conn. in.	E Floor to Gas Conn. in.	F Floor to Vent Conn. in.	G Floor to Air Intake Conn. in.	H Floor to T&P Conn. in.	J Floor to Top Hot Water Conn. in.	Water Conn. Dia. in.	Gas Conn. Dia. in.	Relief Valve Conn. in.	Approx. Shipping Weight lbs.
★ EF-120T-400-3N(A)	119	99	399,999	94.0	77 1/8	33	61 1/4	12 1/4	73 7/8	6 3/4	71	58 1/2	72 1/2	1 1/2	1	1	1,120
★ EF-120T-500-3N(A)	119	99	499,000	94.0	77 1/8	33	61 1/4	12 1/4	74 7/8	6 3/4	71	58 1/2	72 1/2	1 1/2	1	1	1,135

For propane gas models change suffix "N" to "X". Example: EF-120T-400-3X.

(A)=ASME - All models are available with ASME construction. To order ASME construction add the (A) to the end of the model number. Example: EF-120T-500-3NA.

Note: The weight is the same for both ASME and Non-ASME models.

For 5 year warranty models, change suffix "3" to "5" Example: EF-120T-500-5N.

NSF Compliance Kit—p/n 265-4452-04.

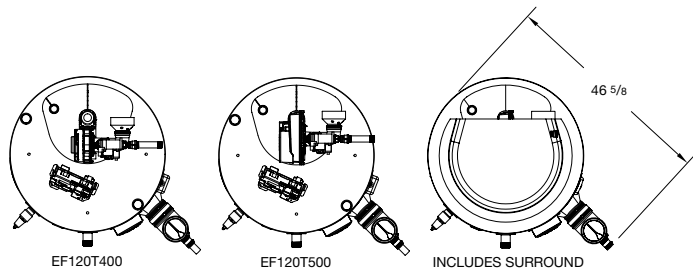
The water heater must be wired to 120VAC, 60Hz, 15A power supply.

★ = ENERGY STAR® qualified.



Recovery Data

Model Number	GPH Recovery at Degree Rise*								
	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F
EF-120T-400-3N(A)	1520	1140	912	760	651	570	507	456	414
EF-120T-500-3N(A)	1893	1420	1136	947	811	710	631	568	516



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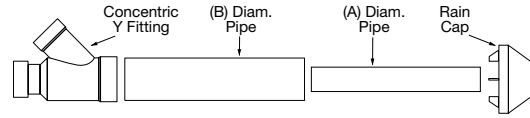


Commercial Gas Ultra High Efficiency EF-120T Models

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3 in. Vent Pipe	EF-120T-400-3N(A) 399,999 BTU/Hr.		EF-120T-500-3N(A) 499,000 BTU/Hr.	
	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent
Max. Intake Length	N/A	65 ft.	N/A	65 ft.
Max. Exhaust Length	65 ft.	65 ft.	65 ft.	65 ft.
4 in. Vent Pipe	EF-120T-400-3N(A) 399,999 BTU/Hr.		EF-120T-500-3N(A) 499,000 BTU/Hr.	
	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent
Max. Intake Length	N/A	100 ft.	N/A	100 ft.
Max. Exhaust Length	100 ft.	100 ft.	100 ft.	100 ft.
6 in. Vent Pipe	EF-120T-400-3N(A) 399,999 BTU/Hr.		EF-120T-500-3N(A) 499,000 BTU/Hr.	
	Power Vent	Power Direct Vent	Power Vent	Power Direct Vent
Max. Intake Length	N/A	120 ft.	N/A	120 ft.
Max. Exhaust Length	120 ft.	120 ft.	120 ft.	120 ft.

Air intake cannot exceed exhaust by more than 30 ft. in any venting situation. Subtract 5 ft. for each additional 90° elbow.

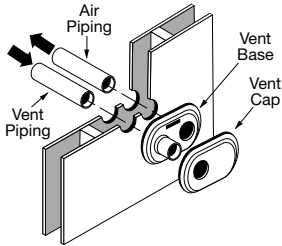


3" and 4" Concentric Vent Kits Part Identification		
Concentric Vent Size	(A)	(B)
4 in.	4.5 in.	6.6 in.
3 in.	3 in.	4.5 in.

Appliance Numbers Approved for Concentric Termination Kits				
Model	Description (in.)	Part Number	IPEX System (1738 or 636)	IPEX Part Number
EF120T(400,500)	3" Concentric Termination	239-44069-01	636	196006 (PVC), 197009 (CPVC)
EF120T(400,500)	3" Concentric Termination	—	1738*	397006
EF120T(400,500)	4" Concentric Termination	—	636	196021 (PVC), 197021 (CPVC)
EF120T(400,500)	4" Concentric Termination	—	1738*	397021

* IPEX System 1738 is not available in Canada.

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Low Profile Termination Kit Model Numbers				
Description (in.)	Pipe O.D. (in.)	Hole Spacing (ctr to ctr) (in.)	IPEX System (1738 or 636)	IPEX Part Number
3" Low Profile	3.5"	5.6"	636	196985
3" Low Profile	3.5"	5.6"	1738*	397985
4" Low Profile	4.5"	5.6"	636	196986
4" Low Profile	4.5"	5.6"	1738*	397086

* IPEX System 1738 is not available in Canada.

EF Series® 120T Optional Equipment Features:

NSF Compliance Kit p/n 265-44542-04
Optional Condensate Neutralizer Kit p/n A2123602
BACnet® Gateway Kit p/n 415-53943-00

Spec 801. For additional documentation visit: www.bradfordwhite.com/documentation

Get additional product information, technical documentation, training videos and more at our exclusive site for the professional.

FOR THE PRO
bwforthepro.com

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Commercial Electric Water Heaters

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General Information

Specify voltage and wattage when ordering.

All models are ETL listed. All water connections are 3/4" NPT (LE2120T has 1" NPT). All electrical connections are 3/4". All models are certified at 300 psi test pressure and 150 psi working pressure. All models come equipped with two installed heat traps (except LE2120T, LE120L, Utility and Wall Hung models). All models include an installed T&P Relief Valve.

Note: All **Upright** and **Lowboys** will be wired 240 Volt with two 4500 watt elements, 3 phase non-simultaneous operation (except 277 volt; 277 volt is only available in single phase operation). Other wattages and voltages are available. These models are field convertible to single phase and simultaneous operation. All models have a maximum total wattage of 3000 watts at 120 Volt. INCOLOY® elements available for most inputs.

Note: All **Wall Hung** and **Utility Models** will be wired 120 Volt with a 1500 watt element as single phase operation. 3 phase wiring not available on Wall Hung or Utility models (Single Element Units). Other wattages and voltages are available. Maximum wattage for 6 and 12 gallon tall utility models is 3000W. Maximum wattage for 10, 12 and 15 gallon utility models is 6000W. Maximum wattage for the 6 gallon wall hung model is 3000W. Maximum wattage for 12 and 20 gallon wall hung models is 6000W. All models have a maximum wattage of 3000 watts at 120 Volt. INCOLOY® elements available for most inputs.

Incoloy Element Availability Chart					
Watts	120V	208V	240V	277V	480V
1500	yes	yes	yes	no	no
2000	no	yes	yes	yes	yes
2500	no	yes	yes	no	no
3000	no	yes	yes	yes	yes
3500	no	yes	yes	no	no
4000	no	yes	yes	yes	yes
4500	no	yes	yes	yes	yes
5000	no	yes	yes	yes	yes
5500	no	yes	yes	yes	yes
6000	no	yes	yes	yes	yes

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NOTE: WHEN ORDERING WATER HEATERS SPECIFY VOLTAGE AND kW INPUT ONLY.
THE FOLLOWING TABLES ARE FOR INFORMATIONAL PURPOSES ONLY.

Phase and Operation are determined by the voltage.

All models (120V, 208V, 240V, 277V and 480V) are shipped standard single phase, non-simultaneous.
Three phase, simultaneous operation is not available

Phase	1	Single Phase	Operation	N	Non-Simultaneous
	3	Three Phase		S	Simultaneous

EX: LE250S3-3NCWW

EX: LE250S3-3NCWW

Designator	A	C	E	H	J	L*
Voltage	120	208/240	277	480	600	208

EX: LE250S3-3NCWW

* Use "L" voltage designator if wiring 208V with 4500W or 5000W.

For 120V, 277V, 480V, and 600V operation

Designator	J	K	L	M	N	P	R	S	T	W	X	Y	Z
Wattage	1000	1250	1500	2000	2500	3000	3500	3800	4000	4500	5000	5500	6000

EX: LE250S3-3NCWW

For 240V and 208V operation (Dual rated elements show a value for both 240V and 208V)

Designator	J	K	L	M	N	P	R	S	T	W	X	Y	W**	X**
240V Wattage	1000	1250	1500	2000	2500	3000	3500	3800	4000	4500	5000	5500	—	—
208V Wattage	—	—	1000	1500	2000	—	2500	—	3000	3500	—	4000	4500	5000

EX: LE250S3-3NCWW, will give 240V with 4500W/4500W. This same heater can also be energized at 208V with reduced wattage of 3500W/3500W.

** Use "L" voltage designator if wiring 208V with 4500W or 5000W.

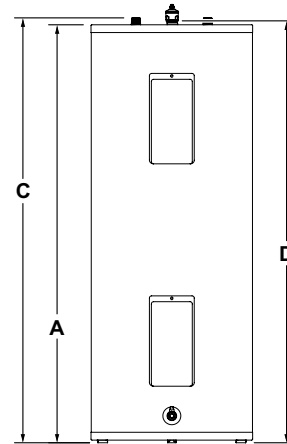
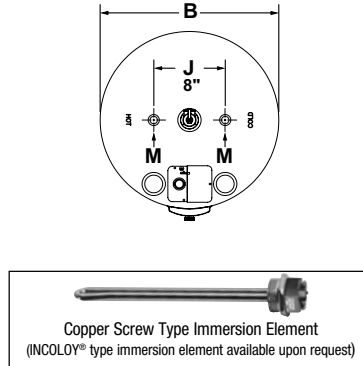
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Commercial Electric ElectriFLEX LD™ (Light-Duty) Upright Models

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- Fully Automatic Controls
- Direct Heat Transfer with Immersed Elements
- Hydrojet® Total Performance System
- Vitraglas® Lining
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- Steel Tank
- Field Convertible
- Voltages Available—120V, 208V, 240V, 277V, 480V.
- T&P Relief Valve
- Low Restrictive Brass Drain Valve



LE250S3-3

Spec 1410. For additional documentation visit: www.bradfordwhite.com/documentation

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ElectriFLEX LD™ (Light-Duty) Upright Models

DIMENSIONS IN INCHES

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

Model Number	Nominal Gal. Capacity U.S. Gal.	Nominal Gal. Capacity Imp. Gal.	Recovery at 100°F Rise* U.S. GPH	Recovery at 100°F Rise* Imp. GPH	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to Water Conn. in.	D Floor to T&P Conn. in.	J C/L of Water Conn. in.	M Water Conn. NPT in.	Approx. Shipping Weight lbs.
LE230S3-3	30	25	18	15	47 ¹ / ₈	18	47 ³ / ₄	47 ⁷ / ₁₆	8	3/4	85
LE240S3-3	40	33	18	15	47 ⁵ / ₈	20	48 ³ / ₄	49 ³ / ₈	8	3/4	103
LE250S3-3	50	42	18	15	47 ⁹ / ₈	22	48 ⁹ / ₁₆	49 ¹ / ₈	8	3/4	130
LE265T3-3	65	54	18	15	60	22	61	61 ⁹ / ₁₆	8	3/4	156
LE280T3-3	80	67	18	15	60	24	61	61 ⁹ / ₁₆	8	3/4	183
LE2120T3-3	119	99	18	15	63	28	64 ¹³ / ₁₆	62 ⁵ / ₁₆	8	1	305

Specify wattage and voltage when ordering. Use chart for maximum wattages at certain voltages For 5 year models, change suffix "3" to "5".

* Based on 4500W/4500W, Non-Simultaneous operation. NSF Kits available when ordering.

Voltage and Wattage Conversion Kits

Simultaneous and Non-Simultaneous Wattage	120V	208V	240V	277V	380V	415V	480V
1500W / 1500W	415-46409-01	415-46409-05	415-46409-13	415-46409-16	415-46409-24	415-46409-41	415-46409-32
2000W / 2000W	N/A	415-46409-06	415-46409-05	415-46409-17	415-46409-43	415-46409-24	415-46409-33
2500W / 2500W	N/A	415-46409-07	415-46409-06	415-46409-18	415-46409-25	415-46409-43	415-46409-34
3000W / 3000W	N/A	415-46409-08	415-46409-14	415-46409-19	415-46409-26	415-46409-25	415-46409-35
3500W / 3500W	N/A	415-46409-09	415-46409-07	N/A	415-46409-54	415-46409-26	N/A
4000W / 4000W	N/A	415-46409-49	415-46409-08	415-46409-20	415-46409-56	415-46409-54	415-46409-36
4500W / 4500W	N/A	415-46409-11	415-46409-09	415-46409-51	415-46409-57	415-46409-55	415-46409-59
5000W / 5000W	N/A	415-46409-50	415-46409-15	415-46409-52	415-46409-58	415-46409-56	415-46409-38
5500W / 5500W	N/A	415-46409-65*	415-46409-49	415-46409-61**	415-46409-63	415-46409-57	415-46409-62**
6000W / 6000W	N/A	415-46409-66*	N/A	415-46409-53	415-46409-64	415-46409-58	415-46409-60

Note: Chart can be used to determine maximum wattage at certain voltages. **INCOLOY® element only. Each kit will include two replacement elements, two gaskets, a rating plate overlay and one set of instructions. For water heaters with only one element, please retain the extra element and gasket as a service part. *415-46409-65, -66 contain only one element.

Wattage	120V	208V	240V	277V	380V	415V	480V
1500W / 1500W	yes	yes	yes	yes	yes	yes	yes
2000W / 2000W	no	yes	yes	yes	yes	yes	yes
2500W / 2500W	no	yes	yes	yes	yes	yes	yes
3000W / 3000W	no	yes	yes	yes	yes	yes	yes
3500W / 3500W	no	yes	yes	no	yes	yes	no
4000W / 4000W	no	yes	yes	yes	yes	yes	yes
4500W / 4500W	no	yes	yes	yes	yes	yes	yes
5000W / 5000W	no	yes	yes	yes	yes	yes	yes
5500W / 5500W	no	no	yes	no	yes	yes	no
6000W / 6000W	no	no	no	yes	yes	yes	yes

Wattage	60	80	90	100	120
1500W	10	8	7	6	5
2000W	14	10	9	8	7
2500W	17	13	11	10	9
3000W	21	15	14	12	10
3500W	24	18	16	14	12
4000W	28	21	18	16	14
4500W	31	23	21	18	15
5000W	34	26	23	21	17
5500W	38	29	25	23	19
6000W	41	31	28	25	21

▲ (GPH based on Non-Simultaneous operation, when Simultaneous operation the GPH will approximately double.)

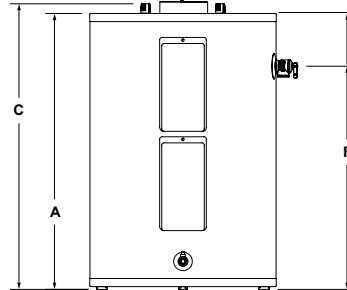
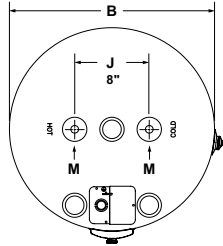
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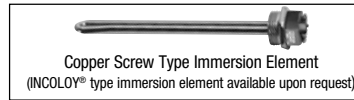
Commercial Electric ElectriFLEX LD™ (Light-Duty) Lowboy Models

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- Fully Automatic Controls
- Direct Heat Transfer with Immersed Elements
- Hydrojet® Total Performance System
- Vitraglas® Lining
- 1" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- Steel Tank
- Field Convertible
- Voltages Available—120V, 208V, 240V, 277V, 480V
- T&P Relief Valve
- Low Restrictive Brass Drain Valve



LE120L3-3


Spec 1411. For additional documentation visit: www.bradfordwhite.com/documentation

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ElectriFLEX LD™ (Light-Duty) Lowboy Models

DIMENSIONS IN INCHES

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

Model Number	Nominal Gal. Capacity U.S. Gal.	Recovery at 100°F Rise* U.S. GPH	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to Water Conn. in.	F Floor to T&P Conn.†† in.	J C/L of Water Conn. in.	M Water Conn. NPT in.	Approx. Shipping Weight lbs.
LE120L3-3†	19 16	18 15	24 3/4	18	25 3/4	19 1/4 / 24 7/8	8	3/4	58
LE130L3-3**	30 25	18 15	30	20	32 3/4	24 / 29 3/8	8	3/4	86
LE140L3-3**	40 33	18 15	32 13/16	22	33 3/4	24 3/8 / 31 3/4	8	3/4	115
LE150L3-3**	47 33	18 15	32 13/16	24	34 1/2	24 1/2 / 31 3/4	8	3/4	140

Specify wattage and voltage when ordering. Use the chart below for maximum wattages at certain voltages. For 5 year models, change suffix "3" to "5".

* Based on 4500W/4500W, Non-Simultaneous operation. **Models include supplied insulation blanket (2" thick). Dimensions in charts above do not include blanket thickness NSF Kits available when ordering.

† Exempt from ASHRAE 90.1b. †† All models feature side T&P location and must specify top T&P when ordering. "D" dimension listed as side/top.

Voltage and Wattage Conversion Kits

Simultaneous and Non-Simultaneous Wattage	Voltage						
	120V	208V	240V	277V	380V	415V	480V
1500W / 1500W	415-46409-01	415-46409-05	415-46409-13	415-46409-16	415-46409-24	415-46409-41	415-46409-32
2000W / 2000W	N/A	415-46409-06	415-46409-05	415-46409-17	415-46409-43	415-46409-24	415-46409-33
2500W / 2500W	N/A	415-46409-07	415-46409-06	415-46409-18	415-46409-25	415-46409-43	415-46409-34
3000W / 3000W	N/A	415-46409-08	415-46409-14	415-46409-19	415-46409-26	415-46409-25	415-46409-35
3500W / 3500W	N/A	415-46409-09	415-46409-07	N/A	415-46409-54	415-46409-26	N/A
4000W / 4000W	N/A	415-46409-49	415-46409-08	415-46409-20	415-46409-56	415-46409-54	415-46409-36
4500W / 4500W	N/A	415-46409-11	415-46409-09	415-46409-51	415-46409-57	415-46409-55	415-46409-59
5000W / 5000W	N/A	415-46409-50	415-46409-15	415-46409-52	415-46409-58	415-46409-56	415-46409-38
5500W / 5500W	N/A	415-46409-65*	415-46409-49	415-46409-61**	415-46409-63	415-46409-57	415-46409-62**
6000W / 6000W	N/A	415-46409-66*	N/A	415-46409-53	415-46409-64	415-46409-58	415-46409-60

Wattage Limitations for Non-Simultaneous and Simultaneous Operation	Voltage						
	120V	208V	240V	277V	380V	415V	480V
1500W / 1500W	yes	yes	yes	yes	yes	yes	yes
2000W / 2000W	no	yes	yes	yes	yes	yes	yes
2500W / 2500W	no	yes	yes	yes	yes	yes	yes
3000W / 3000W	no	yes	yes	yes	yes	yes	yes
3500W / 3500W	no	yes	yes	no	yes	yes	no
4000W / 4000W	no	yes	yes	yes	yes	yes	yes
4500W / 4500W	no	yes	yes	yes	yes	yes	yes
5000W / 5000W	no	yes	yes	yes	yes	yes	yes
5500W / 5500W	no	no	yes	no	yes	yes	no
6000W / 6000W	no	no	yes	yes	yes	yes	yes

Wattage	Recovery ▲ GPH Temperature Rise °F				
	60	80	90	100	120
1500W	10	8	7	6	5
2000W	14	10	9	8	7
2500W	17	13	11	10	9
3000W	21	15	14	12	10
3500W	24	18	16	14	12
4000W	28	21	18	16	14
4500W	31	23	21	18	15
5000W	34	26	23	21	17
5500W	38	29	25	23	19
6000W	41	31	28	25	21

▲ (GPH based on Non-Simultaneous operation, when Simultaneous operation the GPH will approximately double.)

Note: Chart can be used to determine maximum wattage at certain voltages. **INCOLOY® element only. Each kit will include two replacement elements, two gaskets, a rating plate overlay and one set of instructions. For water heaters with only one element, please retain the extra element and gasket as a service part. *415-46409-65, -66 contain only one element.

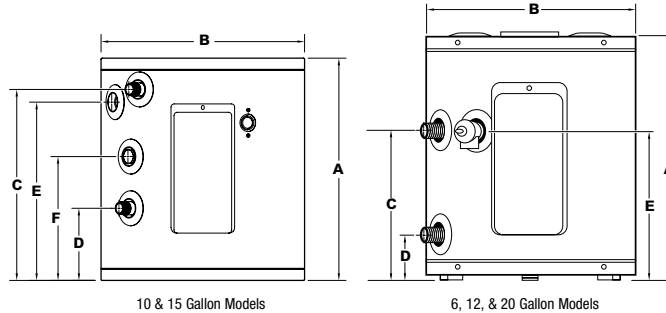
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Commercial Electric ElectriFLEX LD™ (Light-Duty) Utility Models

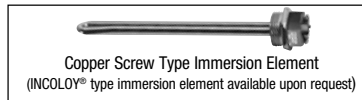
54/55

- Fully Automatic Controls
- Direct Heat Transfer with a Single Immersed Element
- Vitraglass® Lining
- 1" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Alternate Top Water Connections
- Protective Magnesium Anode Rod
- Steel Tank
- Voltages Available—120V, 208V, 240V, 277V, 480V
- Single Phase Operation Only
- T&P Relief Valve



10 & 15 Gallon Models

6, 12, & 20 Gallon Models



Copper Screw Type Immersion Element

(INCOLOY® type immersion element available upon request)



LE112T3-1

Spec 1412. For additional documentation visit: www.bradfordwhite.com/documentation

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ElectriFLEX LD™ (Light-Duty) Utility Models

DIMENSIONS IN INCHES

C.E.C. Listed

Model Number	Nominal Gal. Capacity U.S. Gal.	Recovery at 100°F Rise* U.S. Imp. GPH	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to C/L of Hot Water Conn. in.	D Floor to C/L of Cold Water Conn. in.	E Floor to T&P Conn. in.	F Floor to Anode Rod in.	Water Conn. NPT in.	Approx. Shipping Weight lbs.
LE16U3-1†	6 5	6 5	16 1/2	14	10 1/8	3 1/8	10 1/8	N/A	3/4	33
LE110U3-1	10 8	6 5	17 1/2	16	15	5 11/16	14	9 11/16	3/4	48
LE112T3-1†	12 10	6 5	27 3/4	14	21 1/8	3	21 1/8	N/A	3/4	48
LE115U3-1	15 13	6 5	20 1/4	18	17 3/4	6 1/8	16 3/4	10 1/8	3/4	55
LE120U3-1	19 16	6 5	24 3/4	18	18 1/2	3	18 1/2	N/A	3/4	59

Specify wattage and voltage when ordering. Use the chart below for maximum wattages at certain voltages. For 5 year models, change suffix "3" to "5". Single element only.

* Based on 1500W operation. NSF Kits available when ordering. † Maximum wattage at any voltage is 3000W.

Voltage and Wattage Conversion Kits

Single Element Wattage	Voltage						
	120V	208V	240V	277V	380V	415V	480V
1500W	415-46409-01	415-46409-05	415-46409-13	415-46409-16	415-46409-24	415-46409-41	415-46409-32
2000W	415-46409-02*	415-46409-06	415-46409-05	415-46409-17	415-46409-43	415-46409-24	415-46409-33
2500W	415-46409-03*	415-46409-07	415-46409-06	415-46409-18	415-46409-25	415-46409-43	415-46409-34
3000W	415-46409-04*	415-46409-08	415-46409-14	415-46409-19	415-46409-26	415-46409-25	415-46409-35
3500W	N/A	415-46409-09	415-46409-07	N/A	415-46409-27	415-46409-26	N/A
4000W	N/A	415-46409-10	415-46409-08	415-46409-20	415-46409-29	415-46409-27	415-46409-36
4500W	N/A	415-46409-11	415-46409-09	415-46409-21	415-46409-30	415-46409-28	415-46409-37
5000W	N/A	415-46409-12	415-46409-15	415-46409-22	415-46409-31	415-46409-29	415-46409-38
5500W	N/A	415-46409-46*	415-46409-10	415-46409-40**	415-46409-44	415-46409-30	415-46409-42**
6000W	N/A	415-46409-47*	415-46409-48*	415-46409-23	415-46409-45	415-46409-31	415-46409-39

Wattage Limitations	Voltage						
	120V	208V	240V	277V	380V	415V	480V
1500W	yes	yes	yes	yes	yes	yes	yes
2000W	yes	yes	yes	yes	yes	yes	yes
2500W	yes	yes	yes	yes	yes	yes	yes
3000W	yes	yes	yes	yes	yes	yes	yes
3500W	no	yes	yes	no	yes	yes	no
4000W	no	yes	yes	yes	yes	yes	yes
4500W	no	yes	yes	yes	yes	yes	yes
5000W	no	yes	yes	yes	yes	yes	yes
5500W	no	yes	yes	no	yes	yes	yes
6000W	no	yes	yes	yes	yes	yes	yes

Wattage	Recovery GPH Temperature Rise °F				
	60	80	90	100	120
1500W	10	8	7	6	5
2000W	14	10	9	8	7
2500W	17	13	11	10	9
3000W	21	15	14	12	10
3500W	24	18	16	14	12
4000W	28	21	18	16	14
4500W	31	23	21	19	15
5000W	34	26	23	21	17
5500W	38	29	25	23	19
6000W	41	31	28	25	21

Note: Above chart can be used to determine maximum wattage at certain voltages. **INCOLOY® element only. * 415-46409-02, -03, -04, -46, -47, & -48 contain only one element. These kits cannot be wired as simultaneous. These are non-simultaneous kits only. Except where noted above, each kit will include two replacement elements, two gaskets, a rating plate overlay and one set of instructions. For water heaters with only one element, please retain the extra element and gasket as a service part.

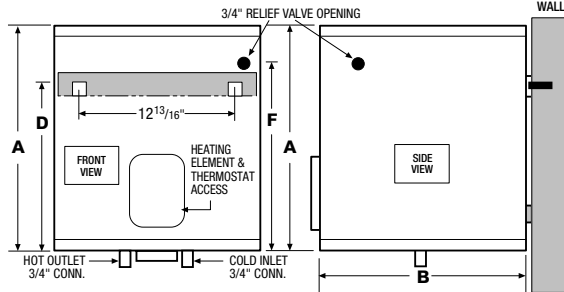
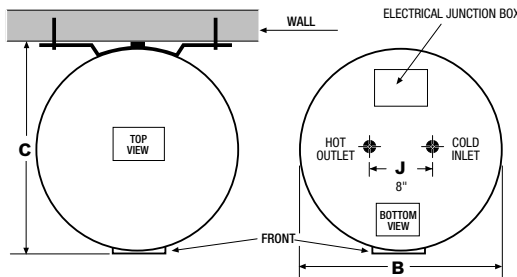
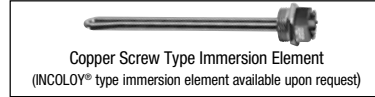
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Commercial Electric ElectriFLEX LD™ (Light-Duty) Wall Hung Models

56/57

- Fully Automatic Controls
- Direct Heat Transfer with a Single Immersed Element
- Vitraglas® Lining
- 1" Non-CFC Foam Insulation
- Heavy-Duty Wall Mounting Bracket
- Water Connections—3/4" NPT
- Protective Magnesium Anode Rod
- Steel Tank
- Voltages Available—120V, 208V, 240V, 277V, 480V
- Single Phase Operation Only
- T&P Relief Valve
- Field Conversion Kits—change voltage, and kW in the field



LE16WV3-1

Spec 1413. For additional documentation visit: www.bradfordwhite.com/documentation

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ElectriFLEX LD™ (Light-Duty) Wall Hung Models

DIMENSIONS IN INCHES

C.E.C. Listed

Model Number	Nominal Gal. Capacity U.S. Imp. Gal.	Recovery at 100°F Rise* U.S. Imp. GPH	A Height in.	B Jacket Dia. in.	C Wall to Front in.	D Height to Bracket in.	F Height to T&P Conn. in.	J C/L of Water Conn. in.	Water Conn. NPT in.	Approx. Shipping Weight lbs.
LE16WV3-1†	6 5	6 5	16 1/8	14	14 5/8	12	12	8	3/4	33
LE112WV3-1	12 10	6 5	16 1/2	18	18 5/8	12 1/2	13	8	3/4	48
LE120WV3-1	19 16	6 5	24 1/2	18	18 5/8	18 1/4	21	8	3/4	59

Specify wattage and voltage when ordering. Use the chart below for maximum wattages at certain voltages. For 5 year models, change suffix "3" to "5". Single element only.
* Based on 1500W operation. NSF Kits available when ordering. † Maximum wattage at any voltage is 3000W.

Voltage and Wattage Conversion Kits

Single Element Wattage	Voltage							Wattage Limitations	Voltage							Wattage	Recovery GPH Temperature Rise °F				
	120V	208V	240V	277V	380V	415V	480V		120V	208V	240V	277V	380V	415V	480V		60	80	90	100	120
1500W	415-46409-01	415-46409-05	415-46409-13	415-46409-16	415-46409-24	415-46409-41	415-46409-32	1500W	yes	yes	yes	yes	yes	yes	yes	1500W	10	8	7	6	5
2000W	415-46409-02*	415-46409-06	415-46409-05	415-46409-17	415-46409-43	415-46409-24	415-46409-33	2000W	yes	yes	yes	yes	yes	yes	yes	2000W	14	10	9	8	7
2500W	415-46409-03*	415-46409-07	415-46409-06	415-46409-18	415-46409-25	415-46409-43	415-46409-34	2500W	yes	yes	yes	yes	yes	yes	yes	2500W	17	13	11	10	9
3000W	415-46409-04*	415-46409-08	415-46409-14	415-46409-19	415-46409-26	415-46409-25	415-46409-35	3000W	yes	yes	yes	yes	yes	yes	yes	3000W	21	15	14	12	10
3500W	N/A	415-46409-09	415-46409-07	N/A	415-46409-27	415-46409-26	N/A	3500W	no	yes	yes	no	yes	yes	no	3500W	24	18	16	14	12
4000W	N/A	415-46409-10	415-46409-08	415-46409-20	415-46409-29	415-46409-27	415-46409-36	4000W	no	yes	yes	yes	yes	yes	yes	4000W	28	21	18	16	14
4500W	N/A	415-46409-11	415-46409-09	415-46409-21	415-46409-30	415-46409-28	415-46409-37	4500W	no	yes	yes	yes	yes	yes	yes	4500W	31	23	21	19	15
5000W	N/A	415-46409-12	415-46409-15	415-46409-22	415-46409-31	415-46409-29	415-46409-38	5000W	no	yes	yes	yes	yes	yes	yes	5000W	34	26	23	21	17
5500W	N/A	415-46409-46*	415-46409-10	415-46409-40**	415-46409-44	415-46409-30	415-46409-42**	5500W	no	yes	yes	no	yes	yes	no	5500W	38	29	25	23	19
6000W	N/A	415-46409-47*	415-46409-48*	415-46409-23	415-46409-45	415-46409-31	415-46409-39	6000W	no	yes	yes	yes	yes	yes	yes	6000W	41	31	28	25	21

Note: Left chart can be used to determine maximum wattage at certain voltages. **INCOLOY® element only. * 415-46409-02, -03, -04, -46, -47, & -48 contain only one element. These kits cannot be wired as simultaneous. These are non-simultaneous kits only. Except where noted above, each kit will include two replacement elements, two gaskets, a rating plate overlay and one set of instructions. For water heaters with only one element, please retain the extra element and gasket as a service part.

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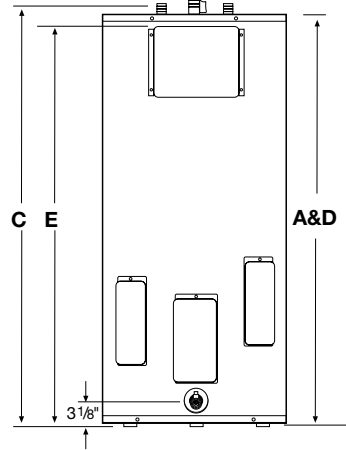
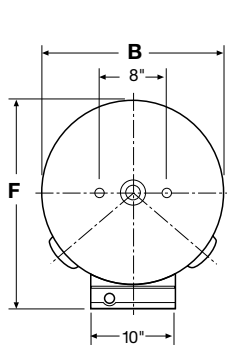
Commercial Electric ElectriFLEX MD™ (Medium-Duty) Models

58/59

- Vitraglas® Lining
- Hydrojet® Total Performance System
- Water Connections—1½" NPT dielectric waterway fittings
- 2" Non-CFC Foam Insulation
- Fully Automatic Controls (180°F maximum)
- Direct Heat Transfer With Three Immersed INCOLOY® Elements—Transfers heat directly and efficiently to the water. Screw-in style element
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restrictive Brass Drain Valve

Options

- Field Conversion Kits; see next page for part numbers
- NSF Construction Kits; see next page for part numbers



E32-80R-3

Spec 450. For additional documentation visit: www.bradfordwhite.com/documentation

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ElectriFLEX MD™ (Medium-Duty) Models

DIMENSIONS IN INCHES

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

Model Number	Nominal Gal. Capacity U.S. Gal. Imp. Gal.	Recovery at 100°F Rise* U.S. GPH Imp. GPH	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to Water Conn. in.	F Floor to T&P Conn. in.	G Floor to Top of Control Box in.	H Depth in.	C/L of Water Conn. in.	Water Conn. NPT in.	Approx. Shipping Weight lbs.
E32-50S-3	50 42	74 62	47 1/4	22	47 7/8	48 1/8	44 1/2	24 5/8	8	1 1/4	137
E32-80R-3	80 67	74 62	59 3/4	24	61	61 3/8	57	26 5/8	8	1 1/4	190
E32-120R-3	119 99	74 62	63	28 1/4	64 5/8	65	61 1/2	30 7/8	8	1 1/4	312

All Medium Duty heaters are wired 240V/3 phase 18 kW. Other voltages, wiring phase and kW are available and must be specified when ordering.

NOTE: Refer to pages 48/49 for technical information and pages 66/67 for GPH recovery information.

For 5 year models, change suffix "3" to "5".

* Based on 18kW operation. NSF Construction available.

Full Load Amperes - (Single Phase / Three Phase) and Recovery										GPH at °F Rise		
Input kW	208V	240V	277V	380V	415V	480V	40°F	100°F	140°F			
6	28.8/16.7	25.0/14.4	21.7	9.1	8.3	12.5/7.2	62	25	18			
9	43.2/25.0	37.5/21.7	32.5	13.7	12.5	18.8/10.8	93	37	27			
12	57.7/33.3	50.0/28.9	43.3	18.2	16.7	25.0/14.4	124	50	35			
13.5	64.9/37.5	56.3/32.5	48.7	20.5	18.8	28.1/16.2	139	56	40			
15	72.1/41.6	62.5/36.1	54.2	22.8	20.9	31.3/18.0	155	62	44			
18	86.5/50.0	75.0/43.3	65.0	27.3	25.0	37.5/21.7	186	74	53			

NSF Construction Kit

Model Number	Kit Part Numbers
E32-50S	265-45446-01
E32-80R	265-45446-02
E32-120R	265-45446-03

Conversion Kit Table

Required Total Heater kW	Each Element Wattage	Kit Part Numbers				
		208V	240V	380V	415V	480V
6	2000	415-43942-13	415-43942-07	N/A	N/A	415-43942-01
9	3000	415-43942-14	415-43942-08	N/A	N/A	415-43942-02
12	4000	415-43942-42	415-43942-09	415-43942-46	415-43942-54	415-43942-03
13.5	4500	415-43942-43	415-43942-10	415-43942-47	N/A	415-43942-37
15	5000	415-43942-44	415-43942-40	415-43942-48	N/A	415-43942-38
18	6000	415-43942-45*	415-43942-41	415-43942-49	N/A	415-43942-39

*415-43942-18 will require control box replacement (included in kit). Other wattages, wiring phase and kW are available and must be specified when ordering. 277 volt cannot be ordered as 3 phase operation.

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Commercial Electric
ElectriFLEX HD™ (Heavy-Duty) Models

Immersion Thermostat with Contactors

- Immersion Type Thermostat for Accurate Temperature Control from Positive off up to 180°F

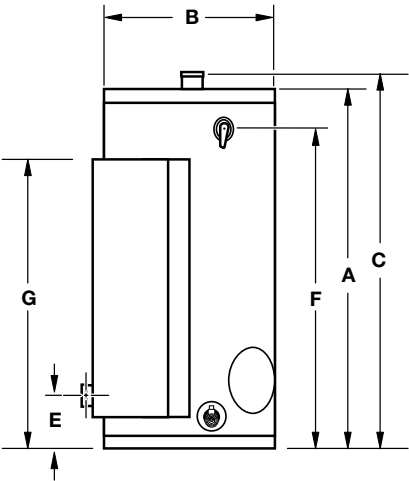
All Models Feature

- Conversion Kits—Design certified by ETL for field conversion. Conversion kits are available to convert any one model to a variety of voltages, kW inputs and phase
- Vitraglas® Lined Tank
- Hydrojet® Sediment Reduction System
- Completely Pre-wired with Pressure Lug Terminal Eliminating the Need for Splicing or Taping Wires
- Water Connections—1½" NPT true dielectric fittings
- Elements—Screw in style low watt density INCOLOY® sheathed elements standard. These elements resist burnout caused by dry fire or lime buildup
- 3" Non-CFC Foam Insulation

- Two Protective Magnesium Anode Rods
- Hand-hole Cleanout Opening
- Internal Fusing—Standard on all models
- Low Restrictive Brass Drain Valve
- T&P Relief Valve

Options

- ASME & NSF Construction Available



CEHD80(A)-KW-3CF

Spec 1401. For additional documentation visit: www.bradfordwhite.com/documentation

ElectriFLEX HD™ (Heavy-Duty) Models

DIMENSIONS IN INCHES

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

Model Number	Nominal Gal. Capacity		Min. - Max. kW Input Range	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to Hot Water Conn. in.	E Floor to C/L of Cold Water Conn. in.	F Floor to T&P Conn. in.	G Floor to Top of Control Box in.	J C/L of Hot Water Conn. in.	Water Conn. NPT in.	Approx Shipping Weight lbs.	
	U.S. Gal.	Imp. Gal.										Std.	ASME
CEHD50(A)(kW)3*CF	50	42	13.5 - 54	50 7/16	24	52 5/8	6 15/16	40 11/16	49 1/8	12	1 1/2	270	302
CEHD80(A)(kW)3*CF	80	67	6 - 54	61 1/4	26	65 1/2	7	52 3/16	49 1/8	13	1 1/2	335	378
CEHD120(A)(kW)3*CF	119	100	6 - 54	64 11/16	30 1/4	66 3/4	6 15/16	54 3/4	50 5/8	15 1/8	1 1/2	430	485

* = voltage and phase designator. Voltage and phase must be specified when ordering. Example: CEHD50243*CF, 240 Volt, 3 phase. All models available in 208/240/277 and 480 volt.

(A)ASME Construction available. For ASME construction add "A" to the model number. Example: CEHD50A243*CF, 240 Volt, single phase. CEHD50(A) - Not available in 12kW or less.

NOTE: Refer to pages 48/49 for technical information and pages 66/67 for GPH recovery information.

Model	Desired Input		Conversion Kit Part Numbers***							
	Total kW	Element kW	208 Volts	240 Volts	277 Volts	380 Volts	415 Volts	480 Volts	600 Volts*	
CEHD with 3 Elements	6	2	†415-51043-73	†415-51043-61	†415-51043-49	†415-51043-37	†415-51043-25	†415-51043-85	†415-51043-01	
	9	3	†415-51043-74	†415-51043-62	†415-51043-50	†415-51043-38	†415-51043-26	†415-51043-14	†415-51043-02	
	12	4	†415-51043-128	†415-51043-63	†415-51043-51	†415-51043-104	†415-51043-94	†415-51043-15	†415-51043-03	
	13.5	4.5	415-51043-129	415-51043-64	415-51043-114	415-51043-105	415-51043-95	415-51043-86	415-51043-04	
	15	5	415-51043-130	415-51043-122	415-51043-115	415-51043-106	415-51043-96	415-51043-87	415-51043-05	
CEHD with 6 Elements	18	6	415-51043-131	415-51043-123	415-51043-116	415-51043-107	415-51043-97	415-51043-88	415-51043-06	
	24	4	415-51043-132	415-51043-67	415-51043-55	415-51043-108	415-51043-98	415-51043-19	415-51043-07	
	27	4.5	415-51043-133	415-51043-68	415-51043-117	415-51043-109	415-51043-99	415-51043-89	415-51043-08	
	30	5	415-51043-134	415-51043-124	415-51043-118	415-51043-110	415-51043-100	415-51043-90	415-51043-09	
CEHD with 9 Elements	36	6	415-51043-135	415-51043-125	415-51043-119	415-51043-111	415-51043-101	415-51043-91	415-51043-10	
	45	5	415-51043-136	415-51043-126	415-51043-120	415-51043-112	415-51043-110	415-51043-92	415-51043-11	
	54	6	415-51043-137**	415-51043-127	415-51043-121	415-51043-113	415-51043-103	415-51043-93	415-51043-12	

*** Converting 3 Element Configurations (6-18kW)

From	To	Transformer Required	From	To	Transformer Required
208/240/480 Volt	277/380/415 Volt	264-41994-02	208/240/480 Volt	277/380/415 Volt	264-41995-02
277/380/415 Volt	208/240/480 Volt	264-41994-01	277/380/415 Volt	208/240/480 Volt	264-41995-01
208/240/480 Volt	208/240/480 Volt	No Transformer Change Required	208/240/480 Volt	208/240/480 Volt	No Transformer Change Required
277/380/415 Volt	277/380/415 Volt	No Transformer Change Required	277/380/415 Volt	277/380/415 Volt	No Transformer Change Required

*** Converting 6 or 9 element configurations (24-54kW)

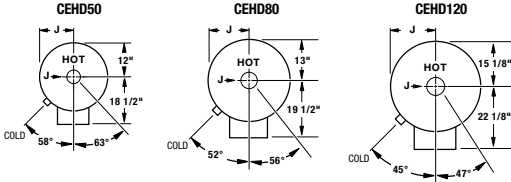
* Only kW conversion is allowed for models rated 600V. Models rated 480V and below must not be converted to 600V.

** Only available as a three phase conversion kit.

3 element models may convert 6 kW thru 18 kW ONLY

6 element models may convert 24 kW thru 36 kW ONLY

9 element models may convert 45 kW thru 54 kW ONLY



† CEHD50(A) - Not available in 12kW or less.

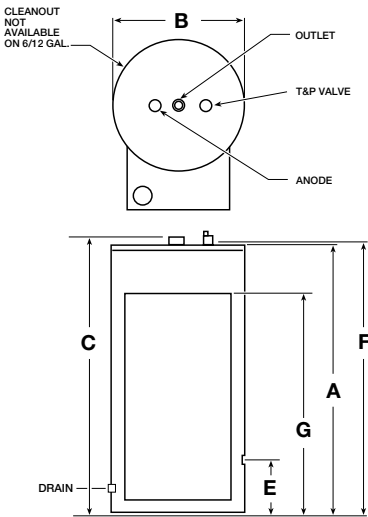


Commercial Electric
ASME Models

Standard Features:

- Immersion Thermostat with Contactors - Immersion Type Thermostat for Accurate Temperature Control from Positive Off up to 180°F
- ASME Code Construction
- Vitraglas® Lining
- Commercial Hydrojet® Sediment Reduction System
- Elements—screw in style. Low watt density INCOLOY® material helps to minimize dry fire and prevents lime build up
- Completely Pre-Wired With Pressure Lug Terminal or Fuse Block Eliminating the need for Splicing or Taping Wires
- Dielectric Fittings
- Non-CFC Foam Insulation
- 2" For 6-40 Gallon
- 3" For 50-119 Gallon
- Protective Magnesium Anode Rod
- Handhole Cleanout Opening (20 thru 120 Gallon Models Only)

- T&P Relief Valve
 - Low Restrictive Brass Drain Valve
- Options:**
- Low Water Cut-Off Switch
 - Safety Door Interlock
 - High and Low Pressure Limit Switches
 - Alarm Horn
 - Temperature and Pressure Gauge
 - Time Delay Step Sequences (24kW and Above)
 - NSF Construction
 - BMS Relay



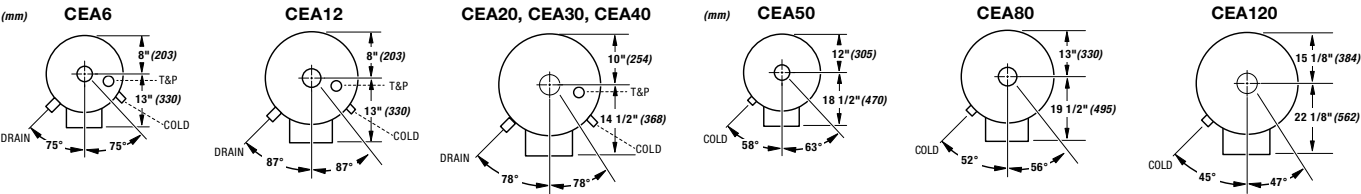
CEA30-36-3

ASME Models

DIMENSIONS IN INCHES

Model Number	Nominal Gal. Capacity		Min. - Max. kW Input Range	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to Hot Water Conn. in.	E Floor to C/L of Cold Water Conn. in.	F Floor to T&P Conn. in.	G Floor to Top of Control Box in.	Water Conn. NPT in.	Approx. Shipping Weight lbs.
	U.S. Gal.	Imp. Gal.									
CEA6-kW-3	6	5	3	17 1/8	16	18 1/4	6 1/8	18 1/16	17	3/4	83
CEA12-kW-3	12	10	3 - 9	28	16	29	6 1/8	28 15/16	28	3/4	118
CEA20-kW-3	19	17	3 - 18	27 5/8	20	28 1/2	6 1/8	28	27	3/4	145
CEA30-kW-3	30	25	13.5 - 36	38	20	39	6 1/8	40 1/4	38	3/4	180
CEA40-kW-3	40	33	13.5 - 36	48 11/16	20	49 11/16	6 1/8	50 9/16	38 7/16	3/4	220
CEA50-kW-3	48	40	13.5 - 81	49 3/8	24	49 7/8	7 5/8	41 3/8	47 1/8	1 1/2	270
CEA80-kW-3	78	65	13.5 - 81	60 7/8	26	62 3/8	7 5/8	52 7/8	47 1/8	1 1/2	335
CEA120-kW-3	119	100	13.5 - 81	65 1/8	30 1/4	66 7/16	7 5/8	55 1/4	50 7/8	1 1/2	430

Voltage and phase must be specified when ordering. Example: CEA80-18-3, 240 Volt, 3 phase. Minimum kW inputs for 30 gallons through 119 gallons is 13.5 kW.
NOTE: Refer to pages 66/67 for GPH recovery information.



Spec 430. For additional documentation visit: www.bradfordwhite.com/documentation



Commercial Electric
Brute® Series Vertical Round Models

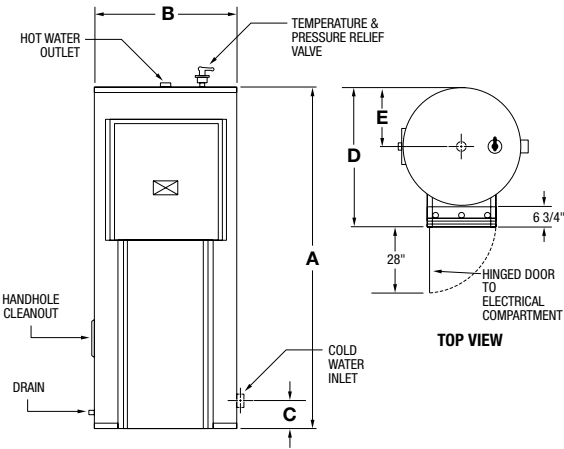
64/65

Standard Features:

- 150 psi ASME Code Tank
- Lifting Lug Access
- INCOLOY® Heating Elements
- Vitraglas® Lining
- Internal Fusing
- Galvanized Steel Jacket
- Magnesium Anode Rods
- Immersion Thermostat
- Digital Temperature Display
- Manual Reset High Limit
- Hinged Door with Keyed Lock
- ASME Temperature and Pressure Relief Valve
- Channel Iron Skid Base
- Hand Hole Cleanout
- 180°F Operation
- Three Year Limited Warranty
- Meets or Exceeds ASHRAE 90.1b (Current Edition)

Optional Equipment Features:

- Double Vitraglas® Lining—Extends tank warranty to six years
- Stainless Steel* - 316L Passivated (10 Year Limited Warranty), and 2205 passivated duplex (25 Year Limited Warranty)
- Epoxy Lining
- Solar Coil(s)
- Tube Bundle(s)
- Low Water Cut-Off
- Pilot Lights
- Manual Limiting Switches
- Alarm Bell
- Low or High Pressure Switch
- Time Clock (7 Day or 24 Hour)†
- Safety Door Interlock
- Temperature and Pressure Gauge
- Manhole Cleanout (250 Gallons and Larger)
- Electronic Sequencer (36kW & Higher)
- Shunt trip disconnect†
- BMS Relay



VR-200-36

† Separate mounting
* For Other Stainless Steel Options Consult factory

Brute® Series Vertical Round Models

DIMENSIONS IN INCHES

Model Number	Nominal Gal. Capacity	Maximum kW	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to Cold Water Inlet in.	D Depth in.	E Back of Heater to Hot Water Outlet in.	Water Conn. in.	Approx. Shipping Weight lbs.
VR-150-(kW)	150	90	65½	32	7¾	38¾	16	1½	650
VR-200-(kW)	200	162	78	32	7¾	38¾	17	1½	750
VR-250-(kW)	250	162	92	34	19½	40¾	17	1½	1165
VR-300-(kW)	300	162	80	40	21	46¾	20	2	1350
VR-400-(kW)	400	162	80	46	22½	52¾	23	2	1590
VR-500-(kW)	500	162	92	46	22½	52¾	23	2	1700
VR-600-(kW)	600	216	92	52	24½	58¾	26	2½	2010
VR-800-(kW)	800	270	104	52	24½	58¾	26	2½	2450
VR-1000-(kW)	1000	360	128	52	24½	58¾	26	2½	3160
VR-1250-(kW)	1250	360	133	58	26	64¾	29	3	3792
VR-1500-(kW)	1500	360	129	64	27½	70¾	32	3	4550
VR-2000-(kW)	2000	360	141	70	29½	76¾	35	3	5460
VR-2500-(kW)	2500	360	147	76	30½	82¾	38	3	6553

NOTE: Refer to pages 66/67 for GPH recovery information.
Models above 90kW at 208V, 240V or 380V, and 162kW at 400V, 415V or 480V, exceed the capacity of a single control panel and may require multiple control panels.
Consult the factory for specific details and optional construction.

Spec 442. For additional documentation visit: www.bradfordwhite.com/documentation



Commercial Electric GPH Recovery Table for kW Input

66/67

kW Input	Gallon Per Hour Recovery Capacities				
	40°F	60°F	90°F	100°F	140°F
1	10.3	6.9	4.6	4.1	2.9
1.5	15.5	10.3	6.9	6.2	4.4
2	20.7	13.8	9.2	8.3	5.9
2.5	25.8	17.2	11.5	10.3	7.4
3	31.1	20.7	13.8	12.4	8.9
3.5	36.2	24.1	16.1	14.5	10.3
4	41.4	27.6	18.4	16.5	11.8
4.5	46.5	31.1	20.7	18.6	13.3
5	51.7	34.5	23.1	20.7	14.7
5.5	56.9	37.9	25.3	22.7	16.2
6	62.1	41.4	27.6	24.8	17.7
9	93.1	62.1	41.4	37.2	26.5
12	124	83	55	50	35
13.5	140	93	62	56	40
15	155	103	69	62	44
18	186	124	83	74	53
24	248	165	110	99	71
27	279	186	124	112	80

page 66

GPH Recovery Table

kW Input	Gallon Per Hour Recovery Capacities				
	40°F	60°F	90°F	100°F	140°F
30	310	207	138	124	89
36	372	248	165	149	106
45	465	310	207	186	133
54	558	372	248	223	160
81	838	558	372	335	239
144	1489	993	662	596	425
162	1675	1117	744	670	479
180	1861	1241	827	744	532
225	2326	1550	1033	931	665
270	2792	1861	1241	1117	798
360	3722	2482	1654	1489	1063
396	4094	2730	1820	1638	1170
450	4653	3102	2068	1861	1329
540	5583	3722	2482	2233	1595
630	6514	4343	2895	2606	1861
720	7444	4963	3309	2978	2127
900	9306	6204	4136	3722	2659

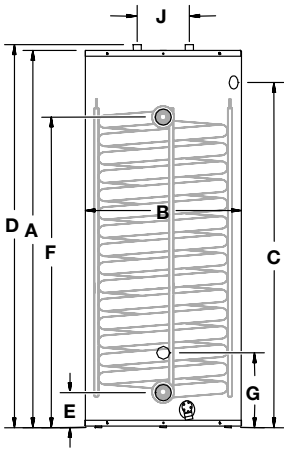
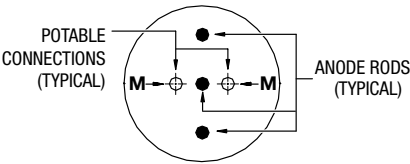
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Commercial
PowerStor Series® Single-Wall Indirect Models

68/69

- Heat Exchanger—Single-wall 1½" O.D. enamel coated (Vitrarglas®) steel coil
- Vitrarglas® Lining
- Hydrojet® Total Performance System
- Water Connections—1" NPT true dielectric fittings
- 1" NPT Connection for Boiler Supply and Return
- 2" Non-CFC Foam Insulation
- Immersion Type Aquastat—Accurate temperature control
- Three Protective Aluminum Anode Rods
- T&P Relief Valve
- Low Restrictive Brass Drain Valve
- 5 Year Tank and Heat Exchanger Warranty
- AHRI Certified Water Heater Ratings
- Stand-by Heat Loss Is Less than 1/2°F per Hour (ASHRAE 90.1b Current Standard)



SW-65C-5

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PowerStor Series® Single-Wall Indirect Models

DIMENSIONS IN INCHES

Model Number	Nominal Gal. Capacity		A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to T&P Conn. in.	D Floor to Water Conn. in.	E Floor to Exchanger Outlet in.	F Floor to Exchanger Inlet in.	G Floor to Aquastat in.	J C/L of Water Conn. in.	M Water Conn. NPT in.	Approx. Shipping Weight lbs.
SW-65C-5	54	45	59 1/4	22	53 1/8	60	5 3/8	47 3/4	11 1/2	8	1	273
SW-80C-5	67	56	59	24	52 7/8	59 3/4	5 3/8	47 3/4	11 1/2	8	1	300
SW-120C-5	107	89	62 1/2	28 1/4	55 3/4	63 1/4	6 3/8	48 3/4	11 1/2	8	1	422

AHRI Certified Water Heater Ratings

Model Number	First Hour Delivery @ 135°F (Gal.)	Continuous Draw Rating @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Minimum Output Rate of Heat Source (BTU/Hr.)	Minimum Heat Source Flow Rate (Gal./Min.)
SW-65C-5	370	335	0.7	225,000	14.0
SW-80C-5	380	335	0.6	225,000	14.0
SW-120C-5	400	325	0.4	220,000	14.0

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

DOE Water Heater Performance

Model Number	Maximum First Hour Rating (Gal.) @		Continuous Draw Rating (Gal./Min.) @		Approximate Boiler Output Needed for Rating (BTU/Hr.)
	140°F	115°F	140°F	115°F	
SW-65C-5	396	582	5.7	8.8	300,000
SW-80C-5	408	594	5.7	8.8	300,000
SW-120C-5	445	631	5.7	8.8	300,000

Note: Based on 200°F boiler water temperature and 50°F potable water inlet.

Heat Exchanger Head Loss

GPM	5	8	10	12	14
Ft. of Hd. Loss	0.60	1.60	2.60	3.70	5.00

Spec 555. For additional documentation visit: www.bradfordwhite.com/documentation

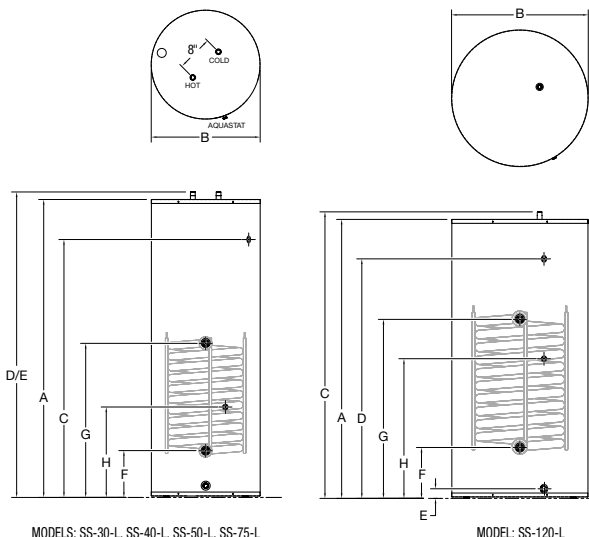
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Commercial PowerStor Series® SS Single-Wall Indirect Models

70/71

- Stainless Steel Heat Exchanger—Single-wall 1" O.D. stainless steel coil
- Stainless Steel Tank and Heat Exchanger—Made from Chromium Molybdenum - Titanium Ferritic 444 Stainless Steel Alloy
- Immersed Adjustable Honeywell Aquastat—Fast acting immersion aquastat for automatic temperature control
- Supply and Return Connections—1" NPT female connections are located on the front for both the Boiler Supply and Boiler Return
- 2" Non-CFC Foam Insulation
- Potable Water Connections—3/4" NPT dielectric fittings extend water heater life and eases installation (1" NPT on SS-120-L)
- T&P Relief Valve
- Low Restrictive Brass Drain Valve (Excluding the SS-120-L)
- AHRI Certified



SS-50-L

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PowerStor Series® SS Single-Wall Indirect Models

DIMENSIONS IN INCHES

Model Number	Nominal Gal. Capacity		A Floor to Top of Heater	B Jacket Dia.	C Floor to T&P Conn.	D Floor to Hot Water Conn.	E Floor to Cold Water Conn.	F Floor to Exchanger Outlet	G Floor to Exchanger Inlet	H Floor to Aquastat	Approx. Shipping Weight
	U.S. Gal.	Imp. Gal.	in.	in.	in.	in.	in.	in.	in.	in.	lbs.
SS-30-L	29	24	31 5/8	24	22 1/2	32 1/2	32 1/2	10	22 5/8	16 1/2	75
SS-40-L	38	31	38 1/4	24	29 1/8	38 7/8	38 7/8	10	24 3/4	18 3/4	91
SS-50-L	50	42	48	24	39 3/4	48 7/8	48 7/8	10	29 1/4	19 1/2	103
SS-75-L	73	60	65 5/8	24	56 1/2	66 1/4	66 1/4	10	33 3/8	19 1/2	142
SS-120-L	111	92	63 3/8	30 1/4	65 3/4	53 1/2	2 11/16	11 3/4	40	31 3/8	217

Heat Exchanger Head Loss					
Model	GPM	Ft. of Hd. Loss	Model	GPM	Ft. of Hd. Loss
SS-30-L & SS-40-L	2	0.2	SS-30-L & SS-40-L	8	2.8
SS-50-L		0.2	SS-50-L		3.6
SS-75-L		0.1	SS-75-L		2.1
SS-120-L		0.2	SS-120-L		3.5
SS-30-L & SS-40-L	5	1.1	SS-30-L & SS-40-L	10	4.4
SS-50-L		1.4	SS-50-L		5.6
SS-75-L		0.8	SS-75-L		3.3
SS-120-L		1.4	SS-120-L		5.5

AHRI Certified Water Heater Ratings

Model Number	First Hour Delivery Rating	Continuous Draw @135°F	Standby Heat Loss Rating	Minimum Heat Required Rate	Minimum Heat Source Flow Rate
	Gal./Hr.	Gal./Hr.	°F/Hr.	BTU/Hr.	Gal./Min.
SS-30-L	179	160	0.8	105,000	14.0
SS-40-L	237	209	0.6	135,000	14.0
SS-50-L	269	229	0.5	145,000	14.0
SS-75-L	367	307	0.4	193,000	14.0
SS-120-L	409	319	0.3	199,000	9.0

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

Spec 556. For additional documentation visit: www.bradfordwhite.com/documentation

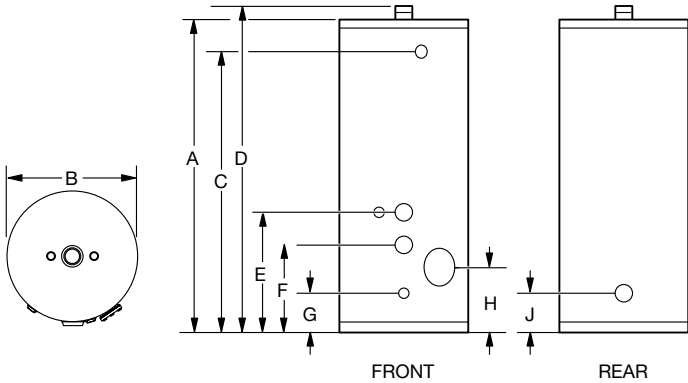
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Commercial
Jacketed Storage Tank Models

72/73

- Vitraglas® Lining
- Optional ASME Construction Available
- 2" Non-CFC Foam Insulation
- Water Connections—2" NPT true dielectric fittings (M-3-ST120R5A and M-3-ST200R5A Have 2½" Connections)
- Rear Connection—2" NPT Spud allows for rear water connection (M-3-ST120R5 and M-3-ST120R5A only)
- Hand Hole Cleanout (M-3-ST120R5 Has Optional Hand Hole Cleanout)
- Two Magnesium Anode Rods
- Steel Tank
- 1" Side T&P Valve Opening
- ¾" NPT Aquastat Connection
- Low Restrictive Brass Drain Valve



M-3-ST80R5

Spec 407. For additional documentation visit: www.bradfordwhite.com/documentation

Jacketed Storage Tank Models

DIMENSIONS IN INCHES

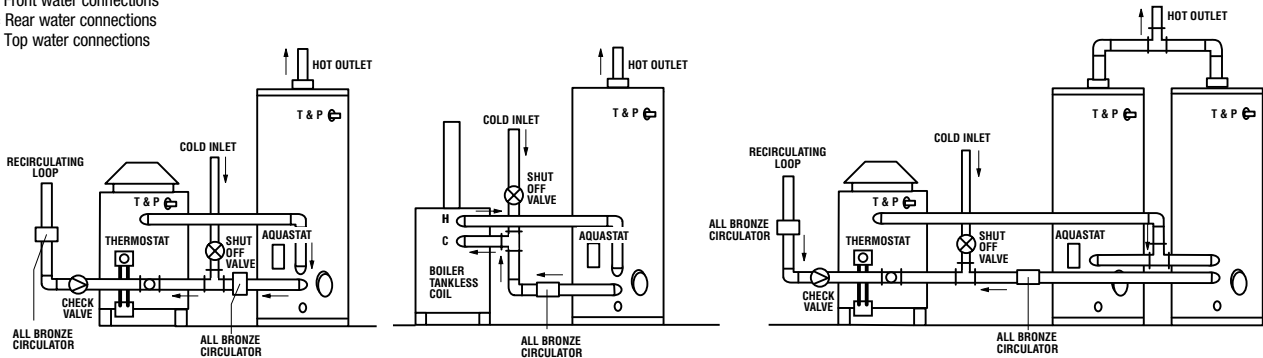
Model Number	Capacity U.S. Gal.	Capacity Imp. Gal.	A Floor to Top of Heater in.	B Jacket Dia. in.	C Floor to T&P Conn. in.	D Floor to Hot Water Conn. in.	E Floor to Aquastat & Top Circ. Conn. in.	F Floor to Bottom Circ. Conn. in.	G Floor to Drain in.	H Floor to Hand Hole Cleanout in.	J Floor to Rear Water Conn. in.	Water Conn. Size.† in.	Approx. Shipping Weight lbs.
M-3-ST80R5	80	67	58¾	24	52½	59¾	14¼	9¼	4¾	7¼	—	2(F&T)	192
M-3-ST80R5A*	80	67	58¾	24	52½	59¾	14¼	9¼	4¾	7¼	—	2(F&T)	278
M-3-ST120R5	119	100	62½	28	55¾	63½	14½	9½	5	—	9½	2(F&T), 2(R)	312
M-3-ST120R5A*	119	100	62½	28	55¾	63½	14½	9½	5	7½	9½	2½(F&T), 2(R)	366
M-3-ST200R5A*	200	167	77	32	66	78	16¼	11¼	6¾	9¼	—	2½(F&T)	633

* Meets ASME Code

† (F) = Front water connections

(R) = Rear water connections

(T) = Top water connections





Commercial Large Volume Jacketed Storage Tank Models

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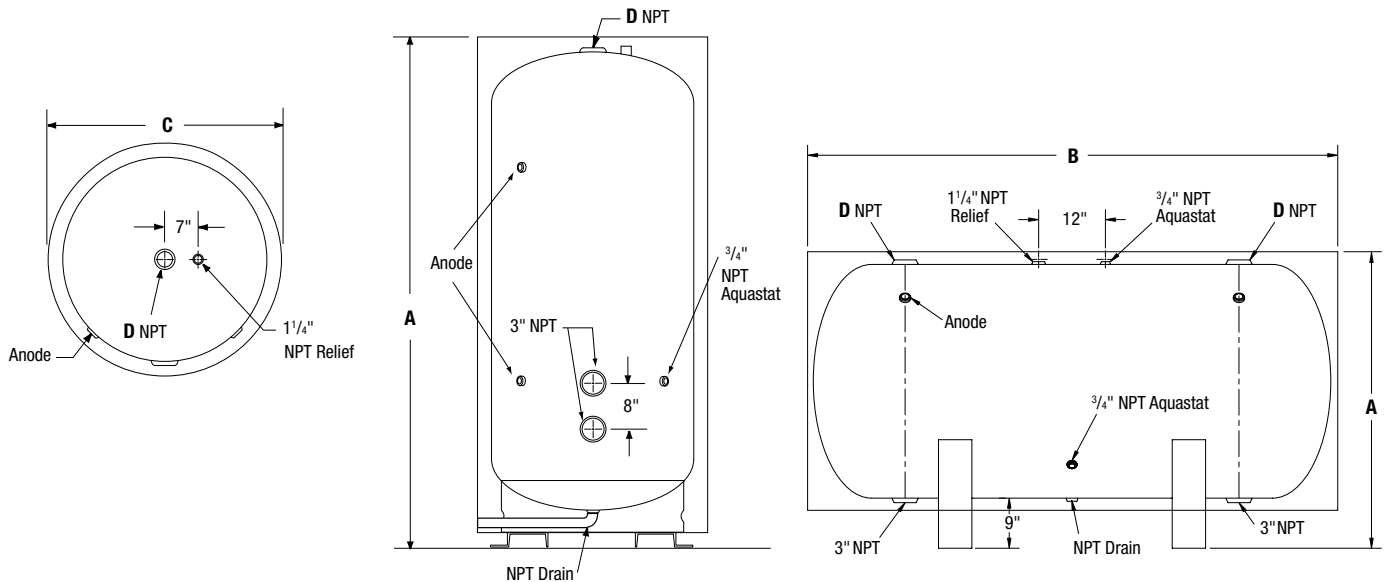
- Vertical or Horizontal Construction
- Water Connections—Two female NPT fittings are located on the front for ease of service and installation (reference chart for sizes). Additional size fittings are available as an option
- ASME Construction
- Available with Vitraglas® Lining, Double Vitraglas® Lining, Epoxy Lining, or Stainless Steel Tank
- Hydrojet® HC—Optional
- 2" High Density Insulation
- Protective Magnesium Anode Rod(s)
- ASME Tested and Certified to 125 psi
- Designed for Storage of Potable Water up to 180°F
- 5 Year Tank Warranty



NV303JG5A

Spec 481. For additional documentation visit: www.bradfordwhite.com/documentation

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Commercial Large Volume Jacketed Storage Tank Models

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Vertical and Horizontal Models

DIMENSIONS IN INCHES

Model Number	Capacity (Gal.)		A Vertical Height (in.)	A Horizontal Height (in.)	B Horizontal Length (in.)	C Diameter (in.)	D Hot Water Outlet Conn. Size (in.)	(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual								
N†193J*5A	193	175	71	41	67	34	2.5	548	570	—
N†229J*5A	229	210	83	41	79	34	2.5	613	613	—
N†260J*5A	260	240	93	41	89	34	2.5	673	755	—
N†303J*5A	303	280	107	41	103	34	2.5	700	728	—
N†318J*5A	318	285	80	47	76	40	2.5	714	776	—
N†340J*5A	340	320	119	41	115	34	2.5	730	774	—
N†344J*5A	344	310	86	47	82	40	2.5	782	827	—
N†375J*5A	375	340	93	47	89	40	2.5	845	876	—
N†397J*5A	397	360	98	47	94	40	2.5	894	935	—
N†449J*5A	449	415	110	47	106	40	2.5	982	1016	—
N†486J*5A	486	435	89	53	85	46	3	1024	1110	YES
N†502J*5A	502	465	122	47	118	40	2.5	1106	1157	—
N†504J*5A	504	453	92	53	88	46	3	1074	1049	YES
N†555J*5A	555	515	134	47	130	40	2.5	1194	1260	—
N†558J*5A	558	505	101	53	97	46	3	1168	1181	YES
N†572J*5A	572	500	81	59	77	52	3	1381	1449	YES
N†630J*5A	630	575	113	53	109	46	3	1292	1263	YES
N†658J*5A	658	580	92	59	88	52	3	1539	1593	YES

Get additional product information, technical documentation, training videos and more at our exclusive site for the professional.

FOR THE PRO
bwfortheapro.com

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Vertical and Horizontal Models

DIMENSIONS IN INCHES

Model Number	Capacity (Gal.)		A Vertical Height (in.)	A Horizontal Height (in.)	B Horizontal Length (in.)	C Diameter (in.)	D Hot Water Outlet Conn. Size (in.)	(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual								
N†702J*5A	702	645	125	53	121	46	3	1392	1352	YES
N†752J*5A	752	675	104	59	100	52	3	1653	1750	YES
N†774J*5A	774	720	137	53	133	46	3	1498	1460	YES
N†834J*5A	834	776	147	53	143	46	3	1587	1547	YES
N†846J*5A	846	765	116	59	112	52	3	1803	1925	YES
N†940J*5A	940	860	128	59	124	52	3	1947	2069	YES
N†981J*5A	981	875	107	65	103	58	3	2200	2275	YES
N†1119J*5A	1119	1000	121	65	117	58	3	2400	2475	YES
N†1128J*5A	1128	1040	149	59	145	52	3	2216	2407	YES
N†1174J*5A	1174	1000	104	71	97	64	3	2600	2675	YES
N†1219J*5A	1219	1110	129	65	127	58	3	2575	2650	YES
N†1327J*5A	1327	1217	142	65	138	58	3	2750	2825	YES
N†1395J*5A	1395	1245	122	71	118	64	3	3050	3125	YES
N†1689J*5A	1689	1530	146	71	142	64	3	3500	3575	YES
N†1761J*5A	1761	1538	106	81	100	72	3	2677	2942	YES
N†2061J*5A	2061	1800	123	81	117	72	3	3035	3305	YES
N†2115J*5A	2115	1865	126	81	120	72	3	3099	3369	YES
N†2256J*5A	2256	2000	134	81	128	72	3	3267	3540	YES

† V = Vertical, H=Horizontal.

* G = Vitraglas® (5-yr. Limited Warranty)

* D = Double Vitraglas® (10-yr. Limited Warranty)

* E = Epoxy (1-yr. Limited Warranty - Field Repairable)

* S2 = 316L Passivated Stainless Steel (10-yr Limited Warranty)

* S3 = 2205 Passivated Duplex Stainless Steel (25-yr Limited Warranty)

Other stainless steel tank options available consult factory

Example: NV1219JG5A.

Tank Options (must specify when ordering):

- Hand Hole (4"x6")
- Manway (12"x16")
- Extra Tappings (1"- 4")
- Flanged Connections (3"- 10")
- 150 PSI (1034 kPa) working pressure (add suffix -5)
- Hydrojet HC® (add suffix -1)

* For other options consult factory

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Commercial Large Volume Unjacketed Storage Tank Models

78/79

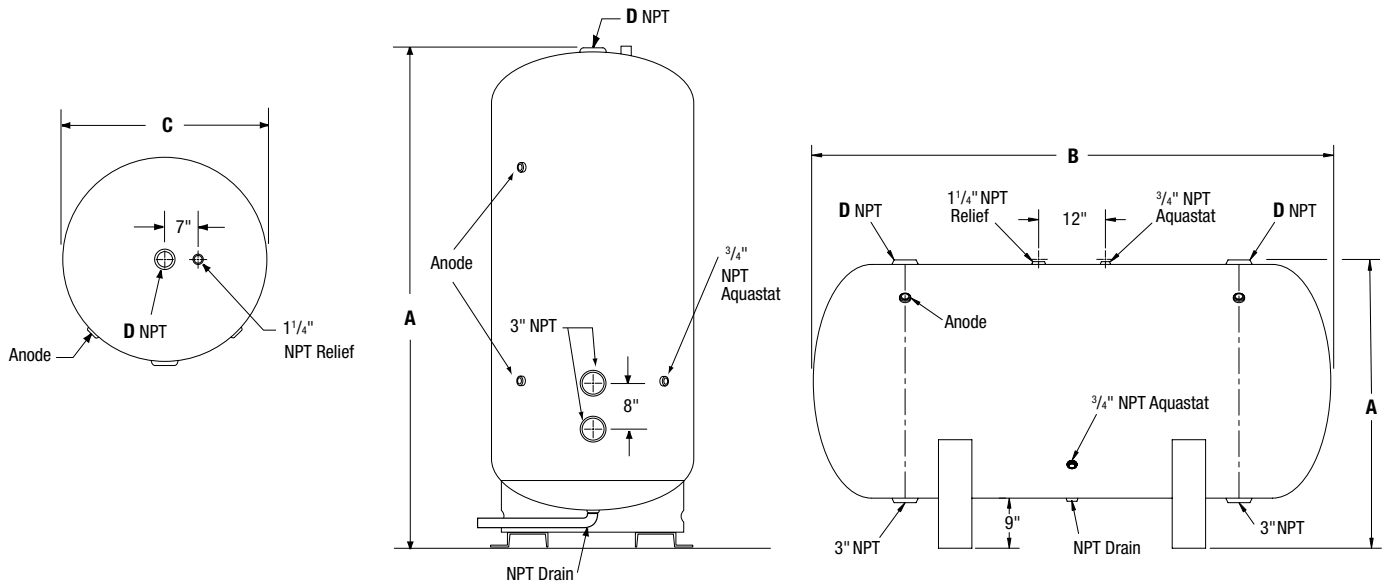
- ASME Construction
- Water Connections—Two female NPT fittings are located on the front for ease of service and installation (reference chart for sizes). Additional size fittings are available as an option
- Available with Vitraglas® Lining, Double Vitraglas® Lining, Epoxy Lining, or Stainless Steel Tank
- Hydrojet® HC—Optional
- Magnesium Anode Rod(s)—For protection and longer service life
- ASME Tested and Certified to 125 psi
- Bare Storage Tank—Heavy gauge steel primed with a red oxide color
- Stainless Steel tank options include factory finish, uniform finish, and polished finish
- 6" Skirt Height (Vertical Tank) Allows for Easier Access to Areas Under the Tank
- Lifting Lugs
- Designed for Storage of Potable Water up to 180°F
- 5 Year Tank Warranty



NV3308NG5A

Spec 480. For additional documentation visit: www.bradfordwhite.com/documentation

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Commercial Large Volume Unjacketed Storage Tank Models

80/81

Vertical and Horizontal Models

DIMENSIONS IN INCHES

Model Number	Capacity (Gal.)		A Vertical Height (in.)	A Horizontal Height (in.)	B Horizontal Length (in.)	C Diameter (in.)	D Hot Water Outlet Conn. Size (in.)	(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual								
N†193N*5A	193	175	67	39	63	30	2.5	340	365	—
N†229N*5A	229	210	79	39	75	30	2.5	387	412	—
N†260N*5A	260	240	89	39	85	30	2.5	420	545	—
N†303N*5A	303	280	103	39	99	30	2.5	483	508	—
N†318N*5A	318	285	76	45	72	36	2.5	550	576	—
N†340N*5A	340	320	115	39	111	30	2.5	530	555	—
N†344N*5A	344	310	82	45	78	36	2.5	588	614	—
N†375N*5A	375	340	89	45	85	36	2.5	633	659	—
N†397N*5A	397	360	94	45	90	36	2.5	664	690	—
N†449N*5A	449	415	106	45	102	36	2.5	742	768	—
N†486N*5A	486	435	85	51	81	42	3	783	810	YES
N†502N*5A	502	465	118	45	114	36	2.5	818	844	—
N†504N*5A	504	453	88	51	84	42	3	805	832	YES
N†555N*5A	555	515	130	45	126	36	2.5	894	920	—
N†558N*5A	558	505	97	51	93	42	3	874	901	YES
N†572N*5A	572	500	77	57	73	48	3	1038	1090	YES

Meet or exceed ASHRAE 90.1b (current standard)

Model Number	Capacity (Gal.)		A Vertical Height (in.)		A Horizontal Height (in.)		B Horizontal Length (in.)		C Diameter (in.)		D Hot Water Outlet Conn. Size (in.)		(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual													
N†630N*5A	630	575	109	51	105	42	3	963	970	YES					
N†658N*5A	658	580	88	57	84	42	3	805	1213	YES					
N†702N*5A	702	645	121	51	117	42	3	1052	1079	YES					
N†752N*5A	752	675	100	57	96	48	3	1298	1350	YES					
N†774N*5A	774	720	133	51	129	42	3	1140	1167	YES					
N†834N*5A	834	776	143	51	139	42	3	1217	1244	YES					
N†846N*5A	846	765	112	57	108	48	3	1433	1485	YES					
N†940N*5A	940	860	124	57	120	48	3	1567	1619	YES					
N†981N*5A	981	875	105	63	99	54	3	1596	1696	YES					
N†1119N*5A	1119	1000	119	63	113	54	3	1827	1949	YES					
N†1128N*5A	1128	1040	145	57	141	48	3	1805	1857	YES					
N†1174N*5A	1174	1000	102	69	96	60	3	2007	2039	YES					
N†1219N*5A	1219	1110	129	63	123	54	3	1889	2124	YES					
N†1306N*5A	1306	1225	174	57	168	48	3	2186	2106	YES					
N†1327N*5A	1327	1217	140	63	134	54	3	1969	2299	YES					
N†1395N*5A	1395	1245	120	69	114	60	3	2376	2648	YES					

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Vertical and Horizontal Models

DIMENSIONS IN INCHES

Model Number	Capacity (Gal.)		A Vertical Height (in.)	A Horizontal Height (in.)	B Horizontal Length (in.)	C Diameter (in.)	D Hot Water Outlet Conn. Size (in.)	(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual								
N†1457N*5A	1457	1340	153	63	147	54	3	2182	2306	YES
N†1635N*5A	1635	1500	171	63	165	54	3	2484	2734	YES
N†1689N*5A	1689	1530	144	69	138	60	3	2797	2829	YES
N†1761N*5A	1761	1538	106	81	100	72	3	2677	2942	YES
N†1814N*5A	1814	1690	189	63	183	54	3	2722	2972	YES
N†1983N*5A	1983	1820	174	69	168	60	3	3210	3560	YES
N†2061N*5A	2061	1800	123	81	117	72	3	3035	3305	YES
N†2115N*5A	2115	1865	126	81	120	72	3	3099	3369	YES
N†2165N*5A	2165	2000	183	69	177	60	3	3481	3831	YES
N†2256N*5A	2256	2000	134	81	128	72	3	3267	3540	YES
N†2276N*5A	2276	2105	192	69	192	60	3	3639	3989	YES
N†2538N*5A	2538	2285	150	81	144	72	3	3304	3881	YES
N†2570N*5A	2570	2395	216	69	210	60	3	3922	4172	YES
N†2765N*5A	2765	2500	163	81	157	72	3	3878	4105	YES
N†2901N*5A	2901	2500	127	93	121	84	3	4265	4684	YES
N†2959N*5A	2959	2727	174	81	168	72	3	4110	4394	YES
N†3308N*5A	3308	2915	144	93	138	84	3	4747	5195	YES
N†3382N*5A	3382	3147	198	81	192	72	3	4616	4852	YES
N†3805N*5A	3805	3567	222	81	216	72	3	5122	5418	YES

Model Number	Capacity (Gal.)		A Vertical Height (in.)	A Horizontal Height (in.)	B Horizontal Length (in.)	C Diameter (in.)	D Hot Water Outlet Conn. Size (in.)	(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual								
N†3884N*5A	3884	3480	168	93	162	84	3	5428	5902	YES
N†4404N*5A	4404	4162	256	81	250	72	3	5616	6144	YES
N†4459N*5A	4459	4045	192	93	186	84	3	6109	6614	YES
N†5038N*5A	5038	4610	216	93	210	84	3	6789	7327	YES
N†6138N*5A	6138	5695	262	93	256	84	3	8094	8693	YES

† V = Vertical, H=Horizontal.

* G = Vitraglas® (5-yr. Limited Warranty)

* D = Double Vitraglas® (10-yr. Limited Warranty)

* E = Epoxy (1-yr. Limited Warranty - Field Repairable)

* S2 = 316L Passivated Stainless Steel (10-yr Limited Warranty)

* S3 = 2205 Passivated Duplex Stainless Steel (25-yr Limited Warranty)

Other stainless steel tank options available consult factory

Example: NV1219JG5A.

Tank Options (must specify when ordering):

- Hand Hole (4"x6")
- Manway (12"x16")
- Extra Tappings (1" - 4")
- Flanged Connections (3" - 10")
- 150 PSI (1034 kPa) working pressure (add suffix -5)
- Hydrojet HC® (add suffix -1)

* For other options consult factory

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Commercial Large Volume Vertical Topcoat Storage Tank Models

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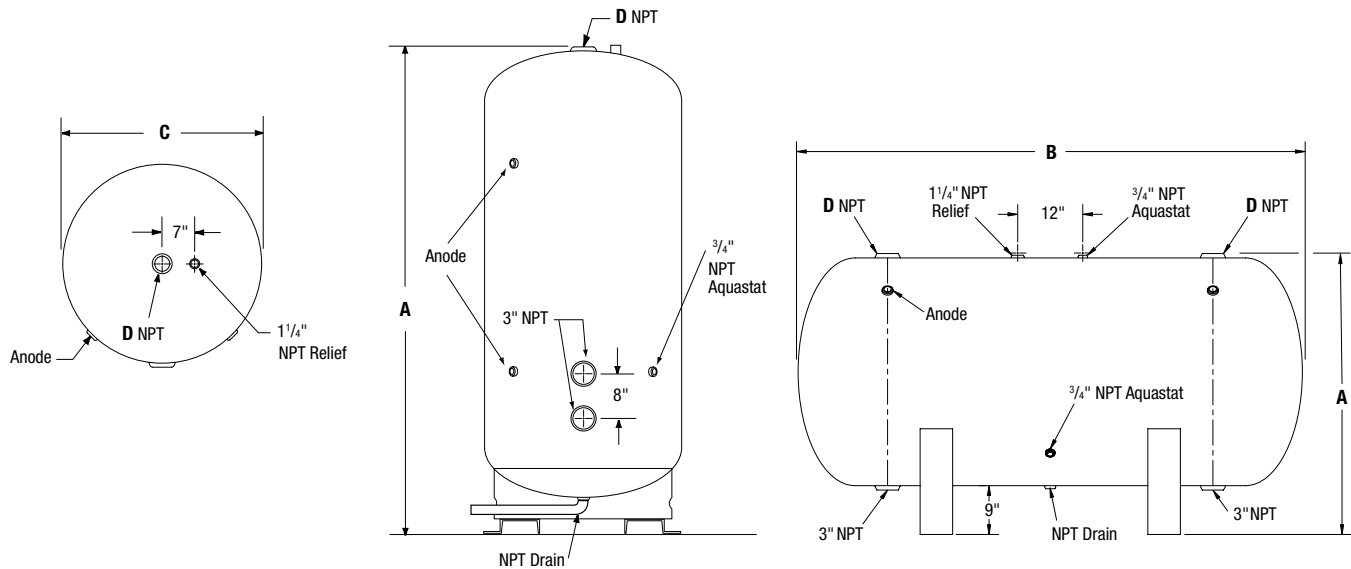
- ASME construction
- Water Connections—Two female NPT fittings are located on the front for ease of service and installation (reference chart for sizes). Additional size fittings are available as an option
- Bradford White tanks with sprayed-on rigid insulation with acrylic topcoat exceeds ASHRAE 90.1 requirements with 2.25" of high-density polyurethane foam with an "R" value of R-16. SPF meets requirements for California Title 24. Bradford White spray foam insulation has the best fire spread rating with a class I foam with less than a 25-flame spread rating suitable for boiler room applications.
- The 100% acrylic topcoat is formulated for applications over spray polyurethane foam and is designed to withstand extreme weather and a full range of environmental conditions.
- The two component polyurethane foam is applied at ambient temperatures, directly to the vessel in the desired thickness. The 2-coat topcoat is then applied from a high-pressure spray gun and allowed to dry between applications.
- Alternative for insulated and steel jacket
- Any tank size or shape can be insulated
- Field repairable



NV3308TG5A

Spec 482. For additional documentation visit: www.bradfordwhite.com/documentation

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Commercial Large Volume Vertical Topcoat Storage Tank Models

84/85

Vertical and Horizontal Energy Saver Models

DIMENSIONS IN INCHES

Model Number	Capacity (Gal.)		A Vertical Height (in.)	A Horizontal Height (in.)	B Horizontal Length (in.)	C Diameter (in.)	D Hot Water Outlet Conn. Size (in.)	(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual								
N†193T*5A	193	175	69.25	41.25	67.5	34.5	2.5	340	365	—
N†229T*5A	229	210	81.25	41.25	79.5	34.5	2.5	387	412	—
N†260T*5A	260	240	91.25	41.25	89.5	34.5	2.5	420	545	—
N†303T*5A	303	280	105.25	41.25	103.5	34.5	2.5	483	508	—
N†318T*5A	318	285	78.25	47.25	76.5	40.5	2.5	550	576	—
N†340T*5A	340	320	117.25	41.25	115.5	34.5	2.5	530	555	—
N†344T*5A	344	310	84.25	41.25	82.5	40.5	2.5	588	614	—
N†375T*5A	375	340	91.25	47.25	89.5	40.5	2.5	633	659	—
N†397T*5A	397	360	96.25	47.25	94.5	40.5	2.5	664	690	—
N†449T*5A	449	415	108.25	47.25	106.5	40.5	2.5	742	768	—
N†486T*5A	486	435	87.25	53.25	85.5	46.5	3	783	810	YES
N†502T*5A	502	465	120.25	47.25	118.5	40.5	2.5	818	844	—
N†504T*5A	504	453	90.25	53.25	88.5	46.5	3	805	832	YES
N†555T*5A	555	515	126	47.25	130.5	40.5	2.5	894	920	—
N†558T*5A	558	505	99.25	53.25	97.5	46.5	3	874	901	YES
N†572T*5A	572	500	79.25	59.25	77.5	52.5	3	1038	1090	YES

Model Number	Capacity (Gal.)		A Vertical Height (in.)	A Horizontal Height (in.)	B Horizontal Length (in.)	C Diameter (in.)	D Hot Water Outlet Conn. Size (in.)	(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual								
N†630T*5A	630	575	111.25	53.25	109.5	46.5	3	963	990	YES
N†658T*5A	658	580	90.25	59.25	88.5	52.5	3	1161	1213	YES
N†702T*5A	702	645	123.25	53.25	121.5	46.5	3	1052	1079	YES
N†752T*5A	752	675	102.25	59.25	100.5	52.5	3	1298	1350	YES
N†774T*5A	774	720	135.25	53.25	133.5	46.5	3	1140	1167	YES
N†834T*5A	834	776	145.25	53.25	143.5	46.5	3	1217	1547	YES
N†846T*5A	846	765	114.25	59.25	112.5	52.5	3	1433	1485	YES
N†940T*5A	940	860	126.25	59.25	124.5	52.5	3	1567	1619	YES
N†981T*5A	981	875	107.25	65.25	104	58.5	3	1596	1696	YES
N†1119T*5A	1119	1000	121.25	62.25	119	58.5	3	1827	1949	YES
N†1128T*5A	1128	1040	147.25	59.25	145.5	52.5	3	1805	1857	YES
N†1174T*5A	1174	1000	104.25	71.25	101	64.5	3	2007	2548	YES
N†1219T*5A	1219	1110	131.25	62.25	128	58.5	3	1889	2124	YES
N†1306T*5A	1306	1225	176.25	59.25	172.5	52.5	3	1950	2160	YES
N†1327T*5A	1327	1217	142.25	62.25	139	58.5	3	1969	2299	YES
N†1395T*5A	1395	1245	122.25	71.25	119	65	3	2376	2648	YES

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Vertical and Horizontal Models

DIMENSIONS IN INCHES

Model Number	Capacity (Gal.)		A Vertical Height (in.)	A Horizontal Height (in.)	B Horizontal Length (in.)	C Diameter (in.)	D Hot Water Outlet Conn. Size (in.)	(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual								
N†1457T*5A	1457	1340	155.25	59	152	59	3	2182	2306	YES
N†1635T*5A	1635	1500	173.25	62.25	170	58.5	3	2485	2734	YES
N†1689T*5A	1689	1530	146.25	71.25	143	64.5	3	2797	2829	YES
N†1761T*5A	1761	1538	108.25	83.25	105	76.5	3	2677	2942	YES
N†1814T*5A	1814	1690	191.25	62.25	188	58.5	3	2722	2972	YES
N†1983T*5A	1983	1820	176.25	71.25	173	64.5	3	3210	3560	YES
N†2061T*5A	2061	1800	125.25	83.25	122	76.5	3	3035	3335	YES
N†2115T*5A	2115	1865	128.25	83.25	125	76.5	3	3099	3369	YES
N†2165T*5A	2165	2000	185.25	71.25	182	64.5	3	3481	3491	YES
N†2256T*5A	2256	2000	136.25	83.25	133	76.5	3	3267	3540	YES
N†2276T*5A	2276	2105	194.25	71.25	197	64.5	3	3639	3989	YES
N†2538T*5A	2538	2285	152.25	83.25	149	76.5	3	3304	3881	YES
N†2570T*5A	2570	2395	218.25	71.25	215	64.5	3	3922	4172	YES
N†2765T*5A	2765	2500	165.25	83.25	162	76.5	3	3878	4105	YES
N†2901T*5A	2901	2500	129.25	95.25	126	88.5	3	4265	4684	YES
N†2959T*5A	2959	2727	176.25	83.25	173	76.5	3	4110	4394	YES
N†3308T*5A	3308	2915	146.25	95.25	143	88.5	3	4747	5196	YES
N†3382T*5A	3382	3147	200.25	83.25	197	76.5	3	4616	4852	YES
N†3805T*5A	3805	3567	224.25	83.25	221	76.5	3	5122	5418	YES

Model Number	Capacity (Gal.)		A Vertical Height (in.)	A Horizontal Height (in.)	B Horizontal Length (in.)	C Diameter (in.)	D Hot Water Outlet Conn. Size (in.)	(Vert.) Shipping Weight (lbs.)	(Horiz.) Shipping Weight (lbs.)	Required Manway
	Nominal	Actual								
N†3884T*5A	3884	3480	170.25	95.25	167	88.5	3	5428	5902	YES
N†4404T*5A	4404	4162	258.25	83.25	255	76.5	3	5616	6144	YES
N†4459T*5A	4459	4045	194.25	95.25	191	88.5	3	6109	6614	YES
N†5038T*5A	5038	4610	220.25	95.25	215	88.5	3	6787	7327	YES
N†6138T*5A	6138	5695	264.25	95.25	261	88.5	3	8094	8693	YES

† V = Vertical, H=Horizontal.

* G = Vitraglas® (5-yr. Limited Warranty)

* D = Double Vitraglas® (10-yr. Limited Warranty)

* E = Epoxy (1-yr. Limited Warranty - Field Repairable)

* S2 = 316L Passivated Stainless Steel (10-yr Limited Warranty)

* S3 = 2205 Passivated Duplex Stainless Steel (25-yr Limited Warranty)

Other stainless steel tank options available consult factory

Example: NV1219JG5A.

Tank Options (must specify when ordering):

- Hand Hole (4"x6")
- Manway (12"x16")
- Extra Tappings (1" - 4")
- Flanged Connections (3" - 10")
- 150 PSI (1034 kPa) working pressure (add suffix -5)
- Hydrojet HC® (add suffix -1)

* For other options consult factory

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Warranty Information

	Limited Tank Warranty	Limited Parts Warranty		Limited Tank Warranty	Limited Parts Warranty
Commercial Gas Models			Commercial Electric Models		
Light Duty Commercial High Performance Models	3 year	1 Year	Light Duty Commercial Upright, Lowboy Models	3 year	1 Year
Light Duty Commercial TTW® High Performance Models	3 year	1 Year	Light Duty Commercial Utility, Wall Hung Models	3 year	1 Year
Light Duty Commercial Upright Models	3 year	1 Year	Commercial Medium Duty Models	3 year	1 Year
Light Duty Commercial Power Vent Models	3 year	1 Year	Commercial Surface Mount, Immersion Models	3 year	1 Year
Light Duty Commercial eF Series® Power Direct Vent Models	3 year	1 Year	Commercial ASME Models	3 year	1 Year
Light Duty Commercial Power Direct Vent Models	3 year	1 Year	Commercial Brute Models	3 year	1 Year
Light Duty Commercial Direct Vent Models	3 year	1 Year	Commercial Indirect-Fired		
Light Duty Commercial Ultra Low NOx Models	3 year	1 Year	Commercial PowerStor® Models	5 year	1 Year
Commercial Flue Damper Models	3 year	1 Year	Commercial Storage Tank		
Commercial Induced Draft Models	3 year	1 Year	Commercial Jacketed Models	5 year	1 Year
Commercial Millivolt Models	3 year	1 Year	Commercial Bare Glass Coated Models	5 year	1 Year
Commercial eF Series® Ultra High Efficiency Models	3 year	1 Year	Commercial Jacketed Large Volume Models	5 year	1 Year
Commercial Ultra Low NOx Models	3 year	1 Year	Commercial UnJacketed Large Volume Models	5 year	1 Year
			Commercial Top Coat Large Volume Models	5 year	1 Year

Some states do not allow limitations on warranties. See copy of the Warranty included with the heater.

Tank Type Serial Number Identification

FIRST LETTER - YEAR OF MANUFACTURE

K = 1993	S = 1998	Z = 2003	E = 2008	K = 2013
L = 1994	T = 1999	A = 2004	F = 2009	L = 2014
M = 1995	W = 2000	B = 2005	G = 2010	M = 2015
N = 1996	X = 2001	C = 2006	H = 2011	N = 2016
P = 1997	Y = 2002	D = 2007	J = 2012	

Bradford White uses a 20-year letter designation rotation in serial numbers. Therefore, please be aware that water heaters manufactured 20 years apart will have the same serial number "letter year" designation. (i.e. A = 2004 and 1984).

SECOND LETTER - MONTH OF MANUFACTURE

A = JANUARY	E = MAY	J = SEPTEMBER
B = FEBRUARY	F = JUNE	K = OCTOBER
C = MARCH	G = JULY	L = NOVEMBER
D = APRIL	H = AUGUST	M = DECEMBER

Example:

FC12345678 = MARCH, 2009 Production

NA12345678 = JANUARY, 1996 Production

Get additional product information, technical documentation, training videos and more at our exclusive site for the professional.

FOR THE PRO
bwfortheopro.com