

PRODUCT POCKET CATALOG

NEW - Now Featuring ★ eF Series® Residential & Light Duty Commercial ★ ElectrIFLEX HD™



Built to be the Best™

BRADFORD WHITE
WATER HEATERS


BRADFORD WHITE
WATER HEATERS

Ambler, PA

Visit us on the web at: www.bradfordwhite.com

For questions regarding where to purchase water heaters or who your local Bradford White representative is, contact the
Sales Department:
800-523-2931 • Fax: 215-641-1670

For technical questions during and after installation such as how to diagnose and/or solve issues in the field, contact our
24/7 Technical Support:
800-334-3393 • Fax: 269-795-1089
email: techserv@bradfordwhite.com

For questions regarding tank and/or parts warranty and limitations on warranties, contact our
24/7 Warranty Support:
800-531-2111 • Fax: 269-795-1089
email: warranty@bradfordwhite.com

For product sizing, performance, application, and clarification questions before installation, contact the
Product Department:
844-235-4958
email: products@bradfordwhite.com

Bradford White Corporation Subsidiary Companies



Committed to American Manufacturing, Wholesale Distribution, and Professional Installation.

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GAS

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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 Residential Storage Models meet or exceed efficiency requirements of the Department of Energy. ASHRAE standard 90.1b (current standard) and the National Appliance Energy Conservation Act of 1987, recent amendment effective April 16, 2015 which supercedes all state and local efficiency requirements.
4. All Tank Type Water Heaters are certified at 300 PSI test pressure and 150 PSI working pressure (except where noted).
5. All Residential and Light Duty Water Connections are 3/4" NPT on 8" centers (except where noted).
6. All Residential and Light Duty Gas Models have 1/2" NPT Gas Connections (except where noted).
7. All Residential Water Heaters come with a T&P Relief Valve included (except where noted).
8. 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; 6,442,178; 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.
9. 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.
10. All products manufactured by Bradford White Water Heaters are designed, fabricated, and assembled in Middleville, MI. All raw materials and component parts are sourced from American companies for the highest level of American made content and manufacture, whenever possible.



Air-Conditioning, Heating, and Refrigeration Institute



American Society of Mechanical Engineers Heating Boilers



American Society of Mechanical Engineers Lined Potable Water Heaters



Compliance, Safety, Accountability



CSA International



Intertek



National Board of Boiler and Pressure Vessel Inspectors



National Sanitation Foundation



Underwriters Laboratories

The Family of Hydrojet® Systems This Is *Technology That Works!*

The Hydrojet® System's jet ports create a churning outflow that puts sediment into suspension. This turbulent action helps reduce sediment and prevent its accumulation.



The upper "jet ports" direct the flow outward to begin the dynamic mixing action.

Hydrojet® Total Performance System

The Hydrojet® Total Performance System is a cold-water delivery tube that reduces sediment buildup and thoroughly mixes incoming water with stored water reducing thermal stratification. The secret is a series of flow altering "jet ports". These ports create counter-rotation and dynamic turbulence that effectively blasts sediment into suspension and prevents its accumulation.



The Hydrojet® Total Performance System also causes more efficient temperature mixing inside the tank. Heating efficiency and usable hot water delivery are greatly increased, thereby saving energy and money.



The lower "jet ports" direct the flow inward to increase pressure and turbulence.

Hydrojet®

Commercial Hydrojet® Sediment Reduction System

The commercial Hydrojet® 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.



Hydrojet®2 Total Performance System

Much like the original Hydrojet® Total Performance System, this cold water inlet device minimizes sediment build up, increases delivery and reduces thermal stratification. The Hydrojet®2 is specifically designed for higher input applications. It utilizes additional jetports to initiate beneficial temperature mixing higher in the tank thereby increasing usable hot water.

"Make the Switch to Bradford White"



Residential Gas Atmospheric Vent High EF Models

- ENERGY STAR® Qualified
- High Efficiency Blower
 - 10 ft. Power Cord Included (120 VAC)
- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Defender Safety System® featuring the patented Advanced ScreenLok® Technology flame arrestor design
 - Flammable Vapor Sensor
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Hydrojet® Total Performance System
- Vitraglas® Lining
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT true dielectric fittings
- Heat Traps
- Protective Magnesium Anode Rod
- 3"x4" "Snap Lock" Draft Diverter
- T&P Relief Valve
- Low Restriction Brass Drain Valve

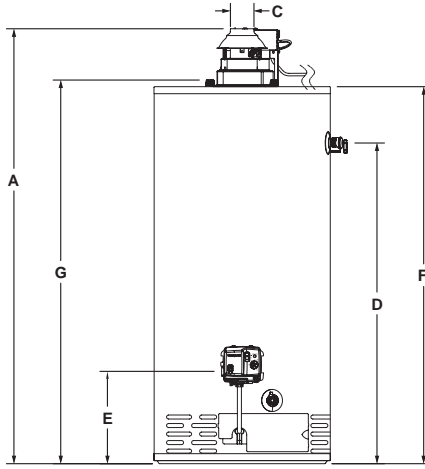
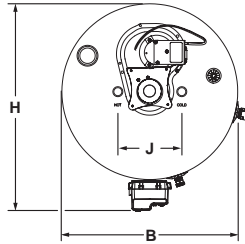


Photo of RG2F40S6N

Atmospheric Vent High EF Models

DIMENSIONS IN INCHES

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

NATURAL GAS AND LIQUID PROPANE GAS MODELS					Recovery 90°F Rise*		A	B	C	D	E	F	G	H	J	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	U.S. GPH	Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	Floor to Water Conn.	Depth	C/L of Water Conns.	
★ RG2F40S6N	40	38,000	70	0.70	41	33	54 1/4	22	3 x 4	40	11 3/4	47	47 7/8	25 7/8	8	150
★ RG2F50S6N	50	38,000	84	0.70	41	33	55 1/4	24	3 x 4	40 5/8	11 3/4	48	48 7/8	27 7/8	8	176

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

For 10 year models, change suffix from "6" to "10".

* Based on manufacturer's rated recovery efficiency.

120V, 60Hz, 1 Amp.

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

★ = ENERGY STAR® Qualified.





Residential Gas Atmospheric Vent Damper Models

- ENERGY STAR® Qualified—Some models
- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Automatic Flue Damper
 - 10 ft. Power Cord Included (120 VAC)
- Defender Safety System® featuring the patented Advanced ScreenLok® Technology flame arrestor design
 - Flammable Vapor Sensor
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Non-CFC Foam Insulation
- Water Connections—3/4" NPT true dielectric fittings
- Heat Traps
- Protective Magnesium Anode Rod
- 3"x4" "Snap Lock" Draft Diverter
- T&P Relief Valve
- Low Restriction Brass Drain Valve

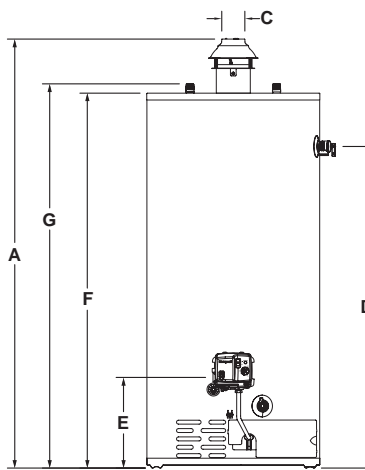
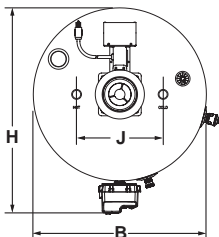


Photo of RG2D40S6N

Atmospheric Vent Damper Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS					Recovery 90°F Rise*		A	B	C	D	E	F	G	H	J	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	Floor to Water Conn.	Depth	C/L of Water Conn.	
RG1D30T6N•	30	32,000	58	0.65	34	28	63	16	3 x 4	49 ⁷ / ₈	13	56 ¹ / ₄	57	20 ³ / ₄	8	116
RG1D40S6N•	40	40,000	74	0.62	43	36	57 ⁷ / ₈	20	3 x 4	41	13	48	49 ¹ / ₈	24 ³ / ₄	8	147
RG1D40T6N•	40	40,000	76	0.62	43	36	63 ³ / ₈	18	3 x 4	50 ¹ / ₈	13	56 ⁹ / ₁₆	57 ³ / ₄	22 ³ / ₄	8	134
RG1D50T6N•	50	40,000	89	0.60	43	36	63 ³ / ₈	20	3 x 4	49 ⁷ / ₈	13	56 ⁹ / ₁₆	57 ³ / ₄	24 ³ / ₄	8	160
★ RG2D40S6N	40	38,000	72	0.67	41	34	54 ¹ / ₂	22	3 x 4	40 ⁷ / ₈	11 ³ / ₄	47 ¹¹ / ₁₆	48 ⁷ / ₈	26 ¹ / ₈	11	155
★ RG2D50S6N	50	40,000	86	0.67	43	36	63 ¹ / ₂	22	3 x 4	49 ⁷ / ₈	11 ³ / ₄	56 ¹ / ₂	58	26 ¹ / ₈	11	174

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

For 10 year models, change suffix from "6" to "10".

* Based on manufacturer's rated recovery efficiency.

120V, 60Hz, 12 Amps.

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

★ = ENERGY STAR® Qualified.

• Models feature optional top T&P location and must be specified when ordering.

LP GAS MODELS		Input BTU/Hr.	Recovery 90°F Rise*	
Model Number			LP U.S. GPH	LP Imp. GPH
RG1D30T6X•		31,000	33	28
RG1D40S6X•		38,000	41	34
RG1D40T6X•		38,000	41	34
RG1D50T6X•		38,000	41	34
★ RG2D40S6X		38,000	41	34
★ RG2D50S6X		40,000	43	36



Residential Gas Atmospheric Vent Models

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Defender Safety System® featuring the patented Advanced ScreenLok® Technology flame arrester design
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Non-CFC Foam Insulation
- Water Connections—3/4" NPT true dielectric fittings
- Heat Traps
- Protective Magnesium Anode Rod
- 3"x4" "Snap Lock" Draft Diverter

- T&P Relief Valve
- Low Restriction Brass Drain Valve

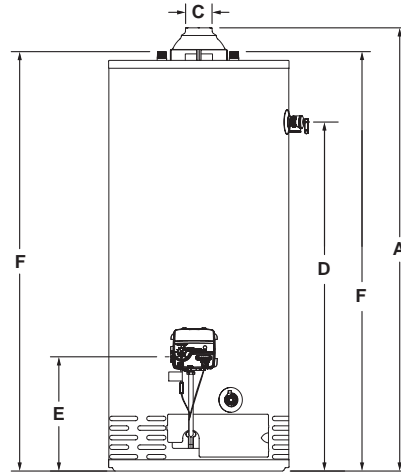
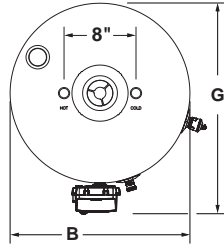


Photo of RG240T6N

Atmospheric Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS					Recovery 90°F Rise*		A	B	C	D	E	F	G	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Water Conn.	Depth	
RG130T6N•	30	27,000	52	0.63	29	24	59 ¹ / ₈	16	3 x 4	49 ³ / ₄ / 56 ³ / ₈	13	57 ¹ / ₂	19 ¹ / ₂	109
RG230T6N•	30	32,000	58	0.64	34	28	59 ³ / ₄	18	3 x 4	49 ⁷ / ₈ / 56 ³ / ₈	13	57 ¹ / ₈	21 ¹ / ₂	116
RG230S6N	30	30,000	56	0.63	32	37	49 ¹ / ₄	20	3 x 4	38 ⁵ / ₈	13	46 ¹ / ₂	23 ¹ / ₂	113
RG140T6N•	40	34,000	70	0.62	37	31	61 ¹ / ₄	18	3 x 4	51 ¹ / ₂ / 60	13	59 ³ / ₈	21 ¹ / ₂	132
RG240T6N•	40	40,000	76	0.62	43	36	60 ¹ / ₈	20	3 x 4	50 ¹ / ₈ / 56 ⁵ / ₈	13	57 ³ / ₁₆	23 ¹ / ₂	134
RG240S6N•	40	40,000	74	0.62	43	36	51 ¹ / ₂	22	3 x 4	41 / 47 ¹ / ₄	13	49 ³ / ₁₆	25 ¹ / ₂	139
RG150T6N•	50	34,000	82	0.60	37	31	59 ⁵ / ₈	20	3 x 4	50 / 56 ³ / ₈	13	58	23 ¹ / ₂	150
RG250T6N•	50	40,000	89	0.62	43	36	60 ¹ / ₂	22	3 x 4	49 ⁷ / ₈ / 57	13	57 ⁷ / ₈	25 ¹ / ₂	154
RG250L6N	48	40,000	88	0.60	43	36	51 ⁵ / ₈	24	3 x 4	40 ⁵ / ₈	13	49 ³ / ₈	27 ¹ / ₂	170
RG250S6N•	50	50,000	93	0.60	54	45	60 ¹ / ₂	22	4	49 ⁷ / ₈ / 57	13	58 ³ / ₁₆	25 ¹ / ₂	167

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

For 10 year models, change suffix from "6" to "10".

* Based on manufacturer's rated recovery efficiency.

• Models feature optional top T&P location and must be specified when ordering.

Note: RG230S6N and RG250L6N do not have top T&P option.

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

LP GAS MODELS Model Number	Input BTU/Hr.	Recovery 90°F Rise*	
		LP U.S. GPH	LP Imp. GPH
RG130T6X•	27,000	29	24
RG230T6X•	31,000	33	23
RG230S6X	32,000	32	27
RG140T6X•	34,000	37	31
RG240T6X•	36,000	34	33
RG240S6X•	35,000	41	34
RG150T6X•	34,000	37	31
RG250L6X	35,000	41	34
RG250T6X•	35,000	41	34
RG250S6X•	48,000	52	45



Residential Gas Atmospheric Vent High Input Models

All Model Features (except RG155H6N):

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell

All Model Features:

- Hydrojet 2™ Total Performance System
- Vitraglas® Lining
- Side Connections—3/4" (19mm)
- Non-CFC Foam Insulation
- Pedestal Base (RG250H6N / RG275H6N only)
- Water Connections

- Hand Hole Cleanout (RG2100H6N only)
- Protective Magnesium Anode Rod
- 4" (107mm) "Snap Lock" Draft Diverter
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)—Included with RG155H6N only

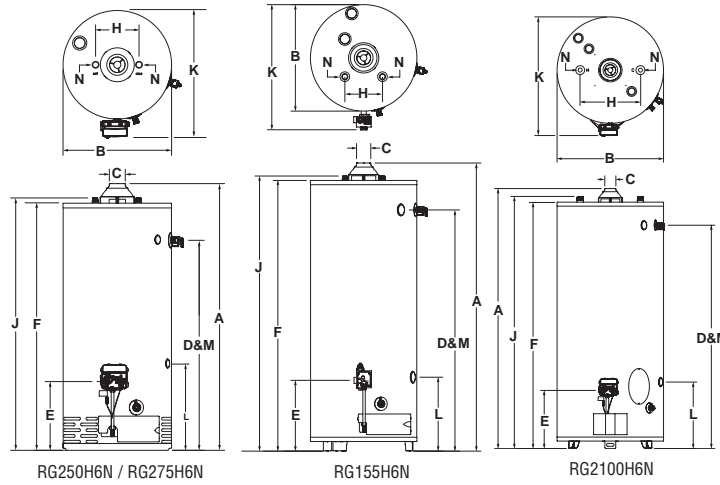


Photo of RG2100H6N

Atmospheric Vent High Input Models

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

DIMENSIONS IN INCHES

NATURAL GAS MODELS					Recovery 90°F Rise*		A	B	C	D	E	F	H	J	K	L	M	N	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. Imp. GPH	Nat Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	C/L of Water Conn.	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	NPT	
RG250H6N	48	65,000	110	0.60	70	58	60	22	4	49 ¹⁵ / ₁₆	13	56 ⁵ / ₈	11	57 ⁷ / ₈	26	13 ¹ / ₂	49 ¹⁵ / ₁₆	3/4	189
RG155H6N	55	80,000	N/A	N/A	86	72	59 ¹ / ₂	22	4	49 ⁷ / ₈	14 ¹³ / ₁₆	55 ¹⁵ / ₁₆	8	57 ⁷ / ₈	25 ⁷ / ₈	15 ⁷ / ₁₆	49 ⁷ / ₈	3/4	210
RG275H6N	75	76,000	N/A	N/A	82	68	62 ⁵ / ₈	26	4	51 ⁷ / ₈	15	59	11	60 ⁷ / ₁₆	27 ¹ / ₄	16 ⁵ / ₈	51 ⁷ / ₈	1	249
RG2100H6N	100	85,000	N/A	N/A	92	77	69	28 ¹ / ₄	4	59 ⁵ / ₁₆	15 ⁷ / ₁₆	65 ¹ / ₂	16	66 ¹⁵ / ₁₆	31 ¹ / ₂	17 ¹¹ / ₁₆	50 ⁵ / ₈	1 ¹ / ₄	413

* Based on manufacturer's rated recovery efficiency.

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

For 10 year models, change suffix from "6" to "10". RG155H6N not available as 10 year model. RG2100H6N model features hand hole cleanout.

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

LP GAS MODELS	Input BTU/Hr.	Recovery 90°F Rise*	
Model Number		LP U.S. Imp. GPH	LP Imp. GPH
RG250H6X	61,000	66	55
RG155H6X	78,000	84	70
RG275H6X	76,000	82	68
RG2100H6X	88,000	95	79



Residential Gas Direct Vent Models

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Defender Safety System® featuring the patented Advanced ScreenLok® Technology flame arrestor design
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Closed Combustion
- Reinforced Seals
- Maintenance-Free
- Sight Window
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Cast Aluminum Air Intake Boot
- Telescoping Solid Vent Kits
- Flexible Vent Kit

- Side Connections—3/4" NPT tapings (RG2DV50H6N only)
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT—True dielectric fittings
- Heat Traps
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restriction Brass Drain Valve

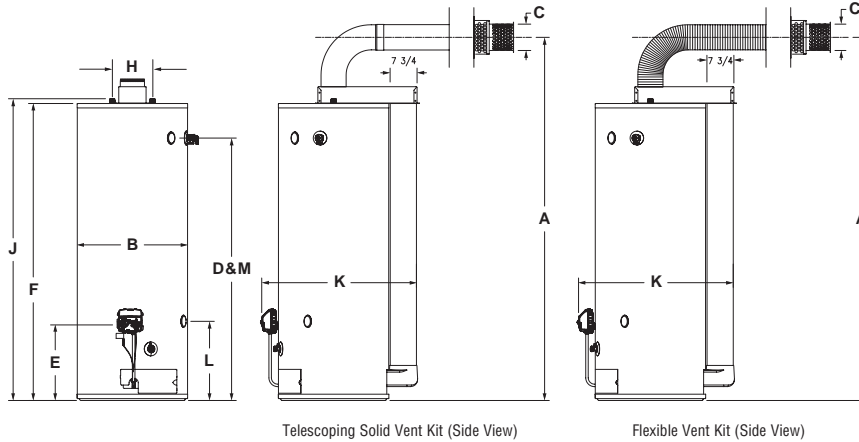


Photo of RG2DV50H6N

Direct Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS				Recovery 90°F Rise*	A	B	C	D	E	F	H	J	K	L	M	Approx. Shipping Weight (lbs)		
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	U.S. Imp. GPH	Imp. GPH	Floor to C/L of Vent	Jacket Dia.	Vent Size I.D. O.D.	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	C/L of Water Conn.	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	
RG2DV40S6N	40	38,000	73	0.62	41	34	63 1/2 min.	22	3 5	43 3/8	15	50 3/16	8	51 1/8	31	—	—	189
RG2DV50S6N	50	42,000	88	0.60	45	35	72 1/2 min.	22	3 5	52 1/4	15	59 3/16	11	60 1/8	31	—	—	212
RG2DV50H6N	48	50,000	93	0.60	54	45	75 7/8 min.	22	4 6	52 1/4	15	59 1/8	8	60 1/8	31	15 3/4	52 1/4	234

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

For 10 year models, change suffix from "6" to "10". *Based on manufacturer's rated recovery efficiency.

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

RG2DV40S6N / RG2DV50S6N Solid Vent Kit: Part No. 239-51283-00. **RG2DV40S6N / RG2DV50S6N Flexible Vent Kit:** Part No. 239-51284-00.

RG2DV50H6N Solid Vent Kit: Part No. 239-51286-00. **RG2DV50H6N Flexible Vent Kit:** Part No. 239-51287-00.

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.

RG2DV40S6N / RG2DV50S6N Optional Telescoping Solid Vent Kits:

- Kit "A" Telescopes from 4 3/8" to 5 1/8" Part No. 239-41260-00
- Kit "B" Telescopes from 6 1/2" to 9 1/8" Part No. 239-41331-00
- Kit "C" Telescopes from 13 3/8" to 23 1/8" Part No. 239-41029-00
- Kit "D" Telescopes from 49 1/8" to 95 1/8" Part No. 239-41424-00

RG2DV50H6N Optional Telescoping Solid Vent Kits:

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

LP GAS MODELS	Input BTU/Hr.	Recovery 90°F Rise*	
Model Number		U.S. GPH	Imp. GPH
RG2DV40S6X	36,000	39	32
RG2DV50S6X	40,000	43	36
RG2DV50H6X	48,000	50	42



Residential Gas

High Efficiency eF Series® Power Vent Model 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
 - 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 Restriction Brass Drain Valve

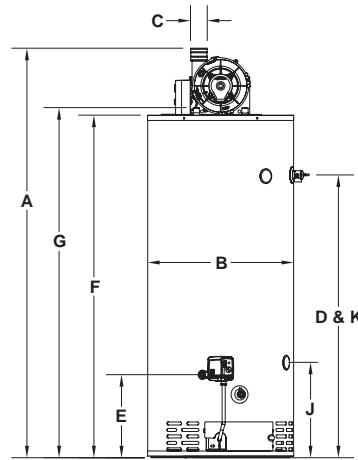
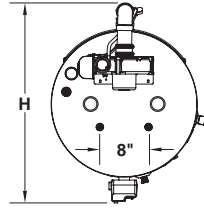


Photo of RC2PV50H6N

High Efficiency eF Series® Power Vent Model 90%+ Thermal Efficiency

DIMENSIONS IN INCHES

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

NATURAL GAS AND LIQUID PROPANE GAS MODELS			Recovery 90°F Rise*	A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	U.S. GPH	Floor to Vent Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	Approx. Shipping Weight (lbs)
RC2PV50H6N	50	76,000	93	67 1/4	24	2, 3 or 4	46 1/2	13 5/8	56 1/4	57 1/2	27 3/8	15 5/8	46 1/2	225

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

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

* Based on 90.5% Thermal Efficiency.

RC2PV50H6N	2" Vent Pipe	3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length	†50 ft.	†120 ft.	†180 ft.
Min. Equivalent Length	7 ft.	15 ft.	15 ft.
Number of 90° Elbows	1 45 ft. 2 40 ft. 3 35 ft.	115 ft. 110 ft. 105 ft.	175 ft. 170 ft. 165 ft.

Subtract 5ft. for each additional 90° elbow.

† For high altitude installations, consult the installation instructions.



Residential Gas Power Vent (TTW®) Models

- ENERGY STAR® Qualified—Some models
- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Power Vented Water Heater
- Powerful Blower Motor
 - 10 ft. Power Cord Included (120 VAC)
- Horizontal and Vertical Venting
- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor 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 (RG2PV50H6N, RG1PV55H6N, and RG2PV75H6N only)
- Heat Traps
- Protective Magnesium Rod (RG1PV55H6N has two)
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved) —Included with RG1PV55H6N only

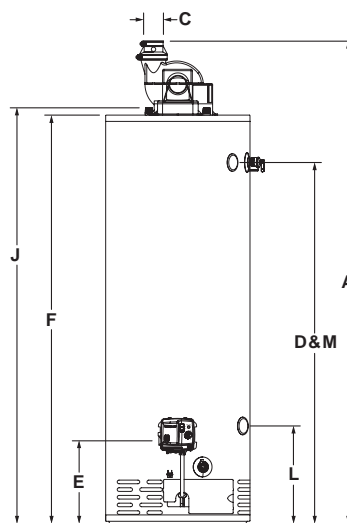
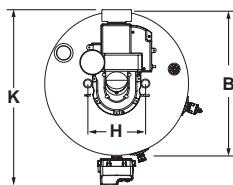


Photo of RG2PV50H6N

Power Vent (TTW®) Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS					Recovery 90°F Rise*	A	B	C	D	E	F	H	J	K	L	M	Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. Imp. GPH	Nat Imp. GPH	Floor to Vent Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	C/L of Water Conn.	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	
RG1PV40S6N	40	40,000	72	0.66	43	36	57 ⁵ / ₁₆	20	2 or 3	40	11 ³ / ₄	47 ¹ / ₂	8	49	27 ⁷ / ₈	N/A	N/A	140
RG1PV50S6N	50	40,000	86	0.65	43	36	58 ¹ / ₄	22	2 or 3	40 ⁵ / ₈	11 ³ / ₄	48 ¹ / ₄	8	50 ¹ / ₂	26 ³ / ₄	N/A	N/A	166
★ RG2PV40T6N	40	40,000	72	0.70	43	36	66 ⁷ / ₈	20	2 or 3	50	11 ³ / ₄	56 ³ / ₄	8	58	24 ¹ / ₂	N/A	N/A	146
★ RG2PV50T6N	50	40,000	86	0.70	43	36	66 ⁷ / ₈	22	2 or 3	50	11 ³ / ₄	56 ³ / ₄	8	58	26 ¹ / ₂	N/A	N/A	173
★ RG2PV50H6N	48	65,000	112	0.70	70	58	66 ¹ / ₈	22	3 or 4	50 ¹ / ₈	11 ³ / ₄	56 ³ / ₈	11	57 ³ / ₄	26 ³ / ₄	13 ¹ / ₂	50 ¹ / ₈	187
RG1PV55H6N	55	78,000	N/A	N/A	84	70	64 ³ / ₁₆	22	3 or 4	47 ¹⁵ / ₁₆	11 ¹ / ₂	54 ⁵ / ₈	8	56	26 ¹ / ₂	13 ³ / ₈	47 ¹⁵ / ₁₆	219
RG2PV75H6N	75	76,000	N/A	N/A	82	68	69 ⁷ / ₁₆	26	3 or 4	51 ¹ / ₂	13 ¹ / ₂	59 ¹ / ₂	11	60 ³ / ₄	30 ¹ / ₄	13 ³ / ₈	51 ¹ / ₂	260

Propane models feature a Titanium Stabilized Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X". For 10 year models, change suffix from "6" to "10". RG1PV55H6N not available as 10 year model.*Based on manufacturer's rated recovery efficiency. 120 VAC Required for Power Venting / 120 VAC 60HZ 3.1 Amperes.

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

★ = ENERGY STAR® Qualified.



	2" Vent Pipe	3" Vent Pipe	3" Vent Pipe	4" Vent Pipe
	RG1PV40S6N RG1PV50S6N RG2PV40T6N RG2PV50T6N		RG2PV50H6N RG1PV55H6N RG2PV75H6N	
Max. Equivalent Length	†50 ft.	†120 ft.	†60 ft.	†180 ft.
Min. Equivalent Length	7 ft.	15 ft.	7 ft.	15 ft.
Number of 90° Elbows	1 45 ft. 2 40 ft. 3 35 ft.	115 ft. 110 ft. 105 ft.	55 ft. 50 ft. 45 ft.	175 ft. 170 ft. 165 ft.

† For high altitude installations, consult the installation instructions.

LP GAS MODELS	Input BTU/Hr.	Recovery 90°F Rise*	
Model Number		LP U.S. GPH	LP Imp. GPH
RG1PV40S6X	38,000	41	34
RG1PV50S6X	38,000	41	34
★ RG2PV40T6X	40,000	43	36
★ RG2PV50T6X	40,000	43	36
★ RG2PV50H6X	58,000	62	52
RG1PV55H6X	78,000	84	70
RG2PV75H6X	75,500	81	67



Residential Gas Power Direct Vent Models

- ENERGY STAR® Qualified—Some models
- 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
- Closed Combustion Venting System
- Powerful Blower Model
 - 10 ft. Power Cord Included (120 VAC)
- Cast Aluminum Air Intake Boot
- Horizontal and Vertical Venting
- Optional Concentric Vent Kit Termination
- Flammable Vapor Sensor (except RG2PDV75)
- Hydrojet® Total Performance System
- Vitraglas® Lining
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Side Connections—3/4" NPT (RG2PDV50H6N and RG2PDV75H6N only)
- Heat Traps
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restriction Brass Drain Valve

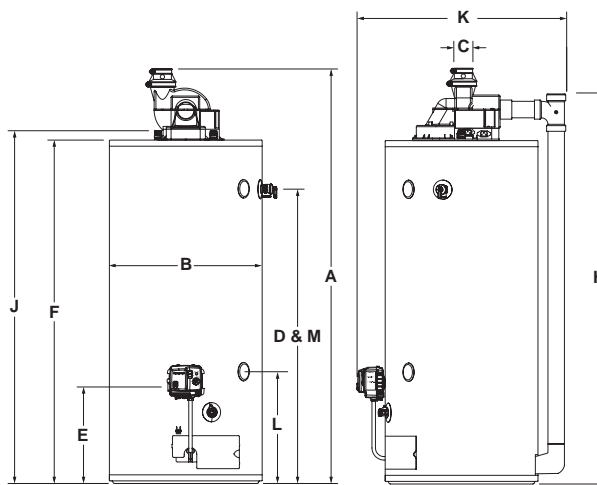


Photo of RG2PDV40S6N

Power Direct Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS					Recovery 90°F Rise*	A	B	C	D	E	F	H	J	K	L	M	Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. Imp. GPH	Nat Imp. GPH	Floor to Exhaust Outlet	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	Floor to Air Intake	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	
★ RG2PDV40S6N	40	40,000	72	0.70	43	36	59 ¹¹ / ₁₆	22	2 or 3	42 ¹ / ₂	14	49 ¹ / ₂	59 ³ / ₈	50 ¹³ / ₁₆	30 ¹ / ₂	—	—	161
★ RG2PDV50S6N	50	40,000	86	0.70	43	36	60 ⁷ / ₈	24	2 or 3	43 ¹ / ₂	14	50 ¹ / ₂	60 ³ / ₈	51 ¹³ / ₁₆	32 ¹ / ₂	—	—	192
★ RG2PDV50H6N	48	60,000	100	0.68	65	54	69	22	3 or 4	52 ¹ / ₄	13 ⁵ / ₈	58 ³ / ₄	67	60	30 ⁵ / ₈	15 ³ / ₄	52 ¹ / ₄	204
RG2PDV75H6N	75	80,000	—	—	86	72	72	26	3 or 4	54 ¹ / ₄	16 ¹ / ₄	62 ³ / ₄	70 ³ / ₈	63 ³ / ₄	36	19	54 ¹ / ₄	291

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

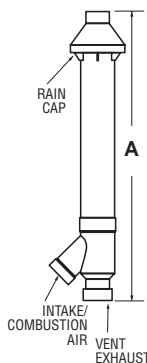
For 10 year model, change suffix "6" to "10".

* Based on manufacturer's rated recovery efficiency.

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

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

★ = ENERGY STAR® Qualified.



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

	2" Vent Pipe		3" Vent Pipe		4" Vent Pipe
	RG2PDV40S6N RG2PDV50S6N	RG2PDV40S6N RG2PDV50S6N	RG2PDV50H6N RG2PDV75H6N	RG2PDV50H6N RG2PDV75H6N	RG2PDV50H6N RG2PDV75H6N
Max. Intake Length	35 ft.	85 ft.	60 ft.	100 ft.	100 ft.
Max. Exhaust Length	35 ft.	85 ft.	60 ft.	100 ft.	100 ft.
Min. Vent Length	7 ft.	7 ft.	7 ft.	7 ft.	7 ft.
Number of 90° Elbows	1 2 3	30 ft. 25 ft. 20 ft.	80 ft. 75 ft. 70 ft.	55 ft. 50 ft. 45 ft.	95 ft. 90 ft. 85 ft.

LP GAS MODELS	Input BTU/Hr.	Recovery 90°F Rise*	
Model Number		LP U.S. GPH	LP Imp. GPH
★ RG2PDV40S6X	38,000	41	34
★ RG2PDV50S6X	38,000	41	34
★ RG2PDV50H6X	60,000	65	54
RG2PDV75H6X	78,000	84	70



Residential Gas

Manufactured Home Closed Combustion/Direct Vent Models

- Housing and Urban Development
- Sealed Combustion Roof Jack Kit—Must order for new installations
- Flue Baffle
- Heat Traps
- Vitraglas® Lining
- Fully Automatic Controls
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Convertible Gas Control

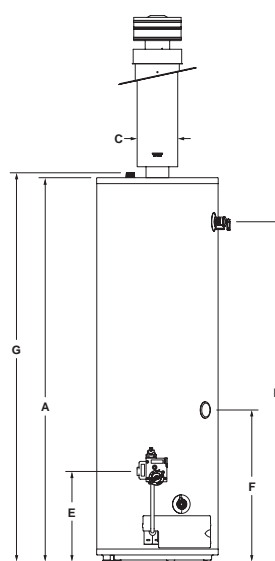
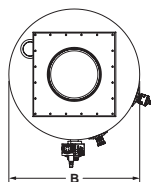


Photo of RG2DVMH30T6X

Manufactured Home Closed Combustion/Direct Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS AND LIQUID PROPANE GAS MODELS					Recovery 90°F Rise*	A	B	C	D	E	F	G	Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	U.S. GPH	Imp. GPH	Floor to Top of Heater	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Cold Water Conn.		Floor to Hot Water Conn.
RG2DVMH30T6X	30	30,000	52	0.63	32	27	57 ⁹ / ₁₆	18	3	50 ¹ / ₄	13 ³ / ₄	22 ¹ / ₂	57 ¹ / ₂	119
RG2DVMH40T6X	40	30,000	59	0.62	32	27	57 ¹ / ₄	20	3	50 ¹ / ₂	13 ³ / ₄	22 ¹ / ₂	58	139

To order Natural Gas heaters change "X" to "N". For 10 year models, change suffix from "6" to "10".

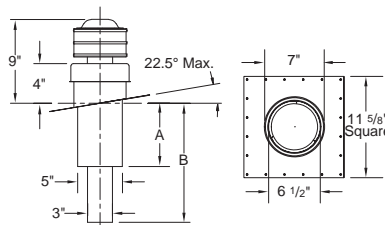
* Based on manufacturer's rated recovery efficiency.

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

Optional Roof Jack Kits

Part Number	A	B	Through The Roof Clearance
239-37022-01	15"	16" - 33"	12"
239-37022-02	33 ¹ / ₂ "	33 ¹ / ₂ " - 66"	18" / 32"
239-37022-03	32 ¹ / ₂ " - 62 ¹ / ₂ "	37 ¹ / ₂ " - 74"	32" / 60"
239-37022-04	50" - 98 ¹ / ₂ "	54 ¹ / ₂ " - 109 ¹ / ₂ "	48" / 90"

Includes: roof jack, hardware, air intake, instructions.



This water heater is of the closed combustion type (direct venting) for mobile home applications only, where all combustion air is supplied from the outdoors through the air intake and all combusted gas products are vented directly to the outside by means of the roof jack. No draft diverter (vent hood) is required for this water heater. The ETL listing of this water heater includes the field installation of the following components: roof jack, roof jack clamp, air intake, air intake seal, and heater tie down materials. These components for field installation are shipped with the heater in a separate box and must be installed according to instructions. No other components are approved for use with the water heater. The water heater must be installed in accordance with The Federal Mobile Home Construction and Safety Standard or in the absence of such standard, The Standard for Mobile Homes (ANSI/NFPA No. 601B-1977)



Residential Gas

Manufactured Home Atmospheric Combustion Models

- Defender Safety System® featuring the patented Advanced ScreenLok® Technology flame arrestor design
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Piezo Igniter
- Housing and Urban Development
- Roof Jack Kit—Must order for new installations
- Vitraglas® Lining
- Fully Automatic Controls
- Convertible Gas Control
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Trap
- Protective Magnesium Anode Rod
- 3"x4" "Snap Lock" Draft Diverter
- Flue Baffle
- Steel Tank
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Design Certified by CSA International (formerly AGA/CGA).

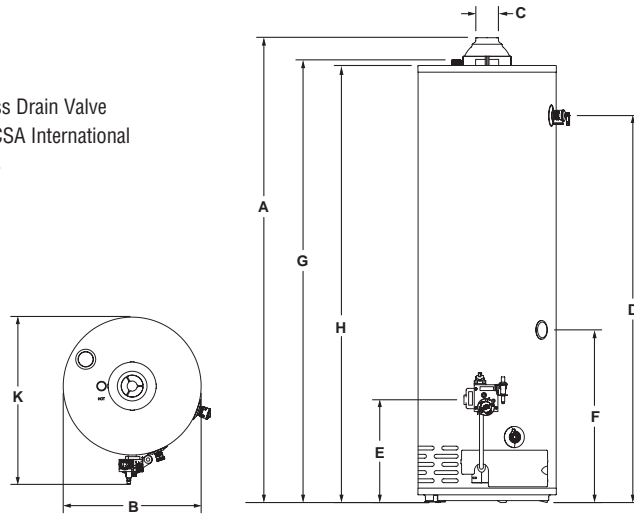


Photo of RG2MH30T6X

Manufactured Home Atmospheric Combustion Models

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
77% Recovery Efficiency

NATURAL GAS AND LIQUID PROPANE GAS MODELS					Recovery 90°F Rise*	A	B	C	D	E	F	G	H	K	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	U.S. Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Cold Water Conn.	Floor to Hot Water Conn.	Floor to Heater Top	Floor to Heater Top	Depth	
RG2MH30T6X	30	32,000	55	0.63	34 28	59 1/8	18	3 x 4	50 5/16	13	22 1/2	57 3/4	56 7/8	20	118
RG2MH40T6X	40	34,000	57	0.63	37 31	59 9/8	20	3 x 4	50 5/16	13	22 1/2	57 3/4	56 7/8	22	135

To order Natural Gas heaters change "X" to "N". For 10 year models, change suffix from "6" to "10".

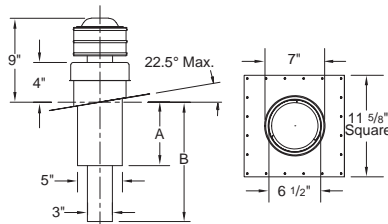
* Based on manufacturer's rated recovery efficiency.

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

Optional Roof Jack Kits

Part Number	A	B	Through The Roof Clearance
239-37030-01	15"	16" - 33"	12"
239-37030-02	33 1/2"	33 1/2" - 66"	18" / 32"
239-37030-03	32 1/2" - 62 1/2"	37 1/2" - 74"	32" / 60"
239-37030-04	50" - 98 1/2"	54 1/2" - 109 1/2"	48" / 90"

Includes: roof jack, hardware, air intake, instructions.



The water heater enclosure access door must be on the outside wall of the manufactured home (mobile home) only. Access to the water heater enclosure from the inside of the manufactured home (mobile home) is not permitted. The CSA International (formerly AGA/CGA) listing of this water heater includes the field installation of the following components: roof jack and heater tie down materials. These components for field installation are shipped in a separate box from the heater and must be installed according to instructions. No other components are approved for use with the water heater. The water heater must be installed in accordance with The Federal Manufactured Home Construction and Safety Standard Title 24 CFR, Part 3280.



Residential Gas

Ultra Low NOx Atmospheric Vent Damper Models

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Automatic Flue Damper
 - 10 ft. Power Cord Included (120 VAC)
- Eco-Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design
 - Digital Thermal Sensor and Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Hydrojet® Total Performance System
- Vitraglas® Lining
- 1" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- 3"x4" "Snap Lock" Draft Diverter
- T&P Relief Valve
- Low Restriction 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)

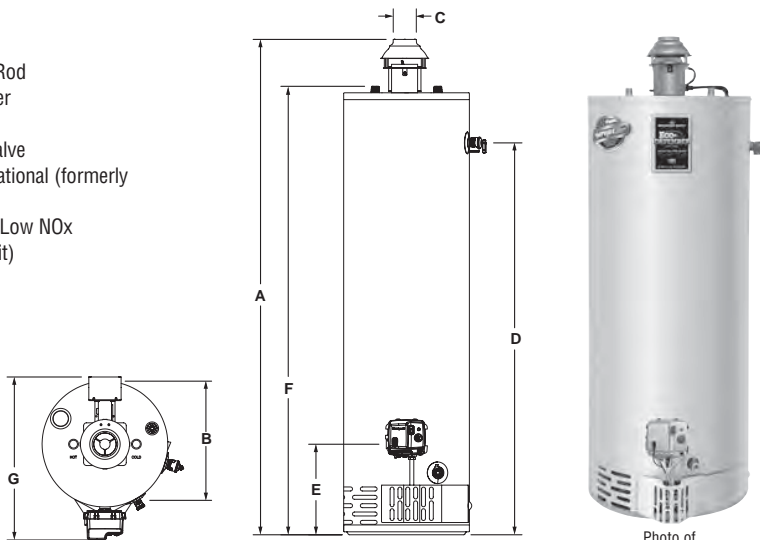


Photo of URG1D50T6N

Ultra Low NOx Atmospheric Vent Damper Models

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

DIMENSIONS IN INCHES

NATURAL GAS MODELS					Recovery 90°F Rise*		A	B	C	D	E	F	G	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Water Conn.	Depth	
URG1D30T6N	30	32,000	58	0.65	34	25	63	16	3 x 4	49 ⁷ / ₈	11 ³ / ₄	57 ¹ / ₈	20 ³ / ₄	120
URG1D40S6N	40	40,000	74	0.62	43	36	54 ¹³ / ₁₆	20	3 x 4	41	11 ³ / ₄	49 ¹ / ₈	24 ³ / ₄	151
URG1D40T6N	40	40,000	76	0.62	43	36	63 ⁹ / ₁₆	18	3 x 4	50 ¹ / ₈	11 ³ / ₄	57 ¹ / ₂	22 ³ / ₄	138
URG1D50T6N	50	40,000	89	0.60	54	45	63 ³ / ₈	20	3 x 4	49 ⁷ / ₈	11 ³ / ₄	57 ⁷ / ₈	24 ³ / ₄	164

Available in Natural Gas only.

For 10 year models, change suffix from "6" to "10".

* Based on manufacturer's rated recovery efficiency.

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



Residential Gas Ultra Low NOx Atmospheric Vent Models

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Eco-Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design
 - Digital Thermal Sensor and Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- 3"x4" "Snap Lock" Draft Diverter
- Flue Baffle
- Steel Tank
- T&P Relief Valve
- Low Restriction 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)

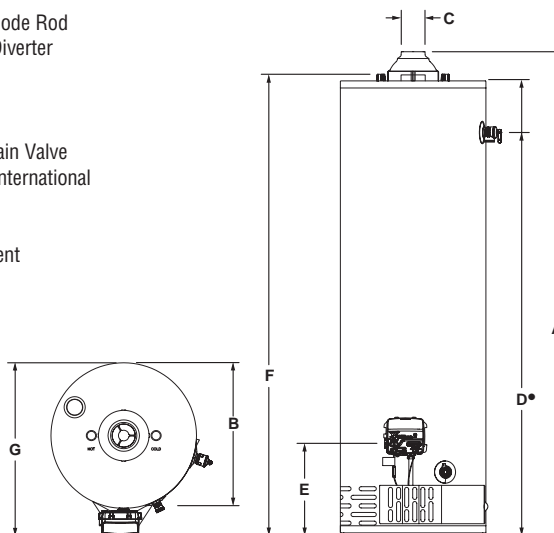


Photo of URG250T6N

Ultra Low NOx Atmospheric Vent Models

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

DIMENSIONS IN INCHES

NATURAL GAS MODELS					Recovery 90°F Rise*	A	B	C	D	E	F	G	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH / Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Water Conn.	Depth	
URG130T6N•	30	27,000	52	0.63	29 / 24	59 1/8	16	3 x 4	49 3/4 / 56 3/8	11 3/4	57 1/2	19 1/2	112
URG230T6N•	30	32,000	58	0.64	34 / 28	59 7/8	18	3 x 4	49 7/8 / 56 3/8	11 3/4	57	21 1/2	119
URG140T6N•	40	34,000	70	0.62	37 / 31	60 3/4	18	3 x 4	51 1/2 / 59 1/2	11 3/4	59 1/8	21 1/2	130
URG240T6N•	40	40,000	76	0.62	43 / 36	60 1/4	20	3 x 4	50 / 56 5/8	11 3/4	57 1/2	23 1/2	137
URG240S6N•	40	40,000	74	0.62	43 / 36	51 5/8	22	3 x 4	41 / 47 1/4	11 3/4	49 1/8	25 1/2	149
URG150T6N•	50	34,000	82	0.60	37 / 31	59 5/8	20	3 x 4	50 / 56 3/8	11 3/4	58	23 1/2	153
URG250T6N•	50	40,000	90	0.62	43 / 36	60 3/8	22	3 x 4	49 7/8 / 57	11 3/4	58 5/8	25 1/2	160
URG250L6N	48	40,000	88	0.60	43 / 36	51 5/8	24	3 x 4	40 5/8	11 3/4	49 3/8	27 1/2	174
URG250S6N•	50	50,000	93	0.60	54 / 45	59 1/2	22	4	49 7/8 / 57 2	11 3/4	58 3/8	25 1/2	169

Available in Natural Gas only.

For 10 year models, change suffix from "6" to "10".

* Based on manufacturer's rated recovery efficiency.

- Models feature optional top T&P location and must be specified when ordering. Energy Factor and First Hour Rating are based on the latest AHRI directory listings. (URG130T, URG140T, & URG150T available with top T&P location ONLY)



Residential Gas

Ultra Low NOx Atmospheric Vent High Input Models

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Eco-Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design
 - Digital Thermal Sensor and Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Defender Combustion Chamber (URG250H6N only)
- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Side Connections—3/4" NPT
- Non-CFC Foam Insulation
- Water Connections
- Heat Traps
- Protective Magnesium Anode Rod
- 4" (107mm) "Snap Lock" Draft Diverter.
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Design Certified by CSA International (formerly AGA and CGA).
- URG250H6N Complies with the Latest Ultra Low NOx Requirement (10 ng/J NOx limit) URG275H6N / URG2100H6N complies with (14 ng/J NOx limit)

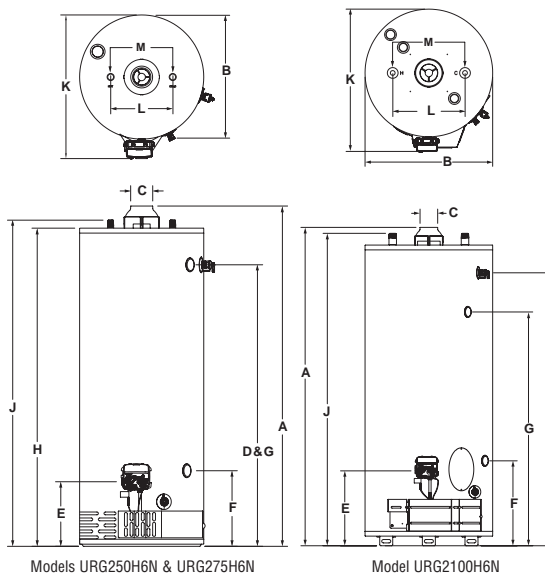


Photo of URG250H6N

Ultra Low NOx Atmospheric Vent High Input Models

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

DIMENSIONS IN INCHES

NATURAL GAS MODELS					Recovery 90°F Rise*		A	B	C	D	E	F	G	H	J	K	L	M	
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Space Heating Return	Floor to Space Heating Outlet	Floor to Top of Heater	Floor to Water Conn.	Depth	C/L of Water Conn.	NPT	Approx. Shipping Weight (lbs)
URG250H6N	48	55,000	100	0.60	59	49	60 ⁵ / ₁₆	22	4	49 ⁷ / ₈	11 ¹ / ₂	13 ³ / ₈	49 ⁷ / ₈	56 ³ / ₈	57 ¹³ / ₁₆	25 ⁷ / ₁₆	11	3/4	194
URG275H6N	75	76,000	N/A	N/A	82	68	64 ¹ / ₈	26	4	53 ⁹ / ₁₆	15 ¹ / ₈	16 ⁵ / ₈	53 ⁹ / ₁₆	60 ¹ / ₈	61 ¹ / ₈	29 ⁷ / ₁₆	11	1	286
URG2100H6N	100	85,000	N/A	N/A	92	77	70 ⁷ / ₁₆	28 ¹ / ₄	4	60 ⁷ / ₁₆	16 ³ / ₄	18 ³ / ₄	51 ³ / ₄	68	69 ¹ / ₈	31 ¹ / ₂	16	1 ¹ / ₄	416

Available in Natural Gas only.

For 10 year models, change suffix from "6" to "10".

* Based on manufacturer's rated recovery efficiency.

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



Residential Gas Ultra Low NOx TTW® Power Vent Models

- ENERGY STAR® Qualified—Some models
- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
- Eco-Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrester design (except models above 75,000 BTU/Hr.)
 - Digital Thermal Sensor and Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- 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
- Heat Traps
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- All Models Comply with the Latest Ultra Low NOx Requirement (10 ng/J NOx limit) except URG2PV75H6N (14 ng/J NOx limit)

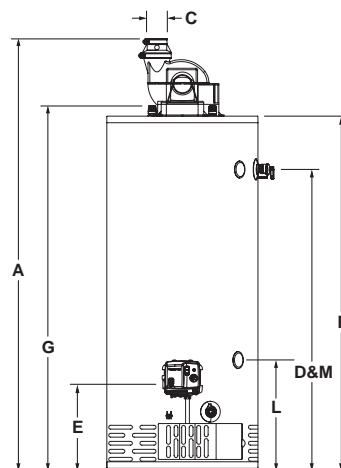
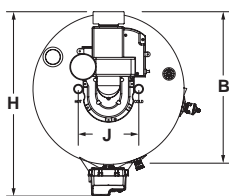


Photo of URG2PV50H6N

Ultra Low NOx TTW® Power Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS					Recovery 90°F Rise*		A	B	C	D	E	F	G	H	J	
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Vent Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	Floor to Water Conn.	Depth	C/L of Water Conn.	Approx. Shipping Weight (lbs)
URG1PV40S6N	40	40,000	72	0.66	43	36	57 ¹ / ₄	20	2 or 3	40	11 ³ / ₄	47 ¹ / ₈	48 ¹ / ₂	24 ⁷ / ₈	8	144
URG1PV50S6N	50	40,000	86	0.65	43	36	58 ¹ / ₄	22	2 or 3	40 ⁵ / ₈	11 ³ / ₄	48 ¹ / ₈	49 ¹ / ₂	26 ⁷ / ₈	8	169
★ URG2PV40T6N	40	40,000	72	0.70	43	36	66 ⁷ / ₈	20	2 or 3	49 ⁷ / ₈	11 ³ / ₄	56 ⁵ / ₈	58	24 ⁷ / ₁₆	8	151
★ URG2PV50T6N	50	40,000	86	0.70	43	36	66 ⁷ / ₈	22	2 or 3	49 ⁷ / ₈	11 ³ / ₄	56 ⁵ / ₈	58	26 ⁷ / ₁₆	8	176
★ URG2PV50H6N	48	56,000	99	0.70	60	50	66 ³ / ₈	22	3 or 4	49 ⁷ / ₈	11 ³ / ₄	56 ⁵ / ₈	58	26 ¹ / ₂	11	192
URG2PV75H6N	75	76,000	N/A	N/A	82	68	69 ¹ / ₄	26	3 or 4	51 ⁷ / ₈	11 ³ / ₄	59 ¹ / ₂	61	30 ¹ / ₄	11	270

Available in Natural Gas only. For 10 year models, change suffix from "6" to "10".

* Based on manufacturer's rated recovery efficiency.

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

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

★ = ENERGY STAR® Qualified.



	2" Vent Pipe	3" Vent Pipe	3" Vent Pipe	4" Vent Pipe
	URG1PV40S6N URG1PV50S6N URG2PV40T6N URG2PV50T6N		URG2PV50H6N URG2PV75H6N	
Max. Equivalent Length	†50 ft.	†120 ft.	†50 ft.	†180 ft.
Min. Equivalent Length	7 ft.	15 ft.	7 ft.	15 ft.
Number of 90° Elbows	1 2 3	115 ft. 110 ft. 105 ft.	45 ft. 40 ft. 35 ft.	175 ft. 170 ft. 165 ft.

† For high altitude installations, consult the installation instructions.



Residential Gas Ultra Low NOx Power Direct Vent Models

- ENERGY STAR® Qualified
- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Eco-Defender Safety System®
 - 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 Performance System
- Vitraglas® Lining
- Powerful Blower Model
 - 10 ft. Power Cord Included (120 VAC)
- Optional Concentric Vent Kit Termination
- Horizontal and Vertical Venting

- 2" Non-CFC Foam Insulation
- Water Connections— 3/4" NPT
- 3/4" NPT Side Connections— (URG2PDV50H6N only)
- Heat Traps
- Protective Magnesium Anode Rod
- T&P Relief Valve

- Low Restriction Brass Drain Valve
- Complies with the Latest Ultra Low NOx Requirement (10 ng/J NOx limit)

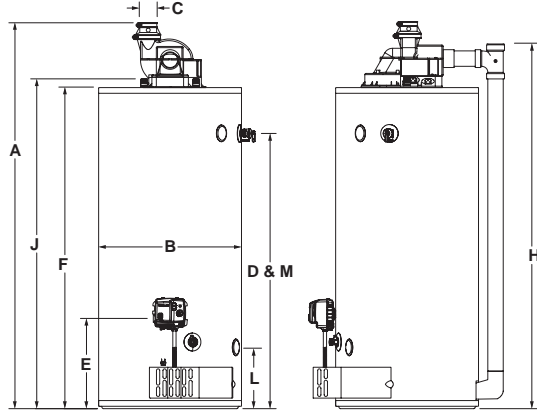
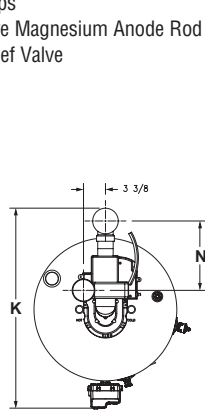


Photo of URG2PDV50H6N

Ultra Low NOx Power Direct Vent Models

DIMENSIONS IN INCHES

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

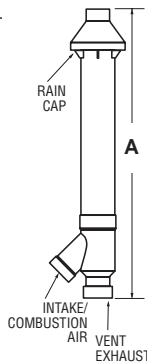
NATURAL GAS MODELS					Recovery 90°F Rise*	A	B	C	D	E	F	H	J	K	L	M	N	Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. Imp. GPH	Nat Imp. GPH	Floor to Exhaust Outlet	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	Floor to Air Intake	Floor to Water Conn.	Depth	Floor to Space Heating Return	Floor to Space Heating Supply	C/L Distance From Intake to Exhaust	
★ URG2PDV40S6N	40	40,000	72	0.70	43	36	59 1/2	22	2 or 3	42 3/8	13 7/8	49 3/4	59 3/8	51	30 3/4	—	—	10 1/2	170
★ URG2PDV50S6N	50	40,000	86	0.70	43	36	60 1/2	24	2 or 3	43	13 7/8	60 3/8	50 3/4	52	32 3/4	—	—	11 1/2	196
★ URG2PDV50H6N	48	50,000	92	0.68	64	45	69 1/4	22	3 or 4	52 1/4	13 7/8	69 1/4	58 3/4	60	32	15 3/4	52 1/4	9 1/4	208

Available in Natural Gas only. For 10 year model, change suffix "6" to "10".
 * Based on manufacturer's rated recovery efficiency.
 120 VAC Required for Power Venting / 120 VAC, 60HZ, 3.1 Amperes.
 Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

★ = ENERGY STAR® Qualified.

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



	2" Vent Pipe		3" Vent Pipe		4" Vent Pipe
	URG2PDV40S6N URG2PDV50S6N	URG2PDV40S6N URG2PDV50S6N	URG2PDV50H6N	URG2PDV50H6N	URG2PDV50H6N
Max. Intake Length	35 ft.	85 ft.	60 ft.	100 ft.	100 ft.
Max. Exhaust Length	35 ft.	85 ft.	60 ft.	100 ft.	100 ft.
Min. Vent Length	7 ft.	7 ft.	7 ft.	7 ft.	7 ft.
Number of 90° Elbows	1	30 ft.	80 ft.	55 ft.	95 ft.
	2	25 ft.	75 ft.	50 ft.	90 ft.
	3	20 ft.	70 ft.	45 ft.	85 ft.

Subtract 5ft. for each additional 90° elbow.

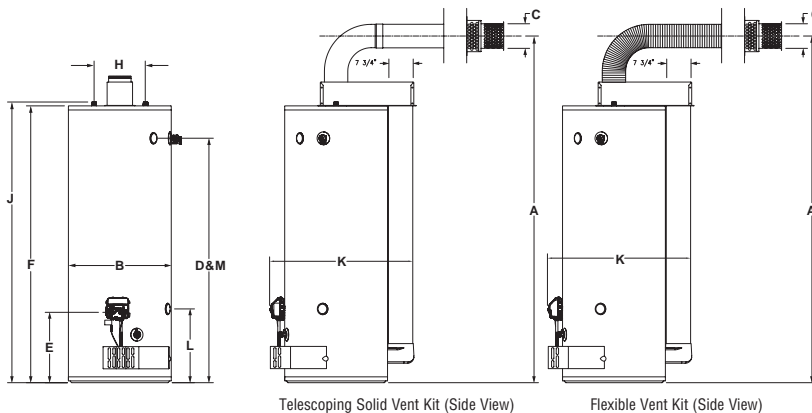


Residential Gas Ultra Low NOx Direct Vent Models

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Eco-Defender Safety System®
 - Resettable Thermal Switch
 - 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 Restriction 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)



Ultra Low NOx Direct Vent Models

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

DIMENSIONS IN INCHES

NATURAL GAS MODELS					Recovery 90°F Rise*		A	B	C	D	E	F	H	J	K	L	M	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to C/L of Vent	Jacket Dia.	Vent Size I.D. O.D.	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	C/L of Water Conn.	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	
URG2DV40S6N	40	38,000	73	0.62	41	34	63 1/2 min.	22	3 5	43 3/8	15	50 1/4	8	51 1/2	31 1/8	—	—	198
URG2DV50S6N	50	38,000	84	0.60	41	34	72 1/2 min.	22	3 5	52 1/4	15	59 1/4	8	60 1/2	31 1/8	—	—	221
URG2DV50H6N	48	45,000	88	0.60	46	38	75 7/8 min.	22	4 6	52 1/4	15	59 1/4	11	60 1/8	30 5/8	15 3/4	52 1/4	240

* Available in Natural Gas only. For 10 year models, change suffix from "6" to "10".

* Based on manufacturer's rated recovery efficiency.

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

URG2DV40S6N / URG2DV50S6N Solid Vent Kit: Part No. 239-51283-00. Weight: 17 lbs.

URG2DV40S6N / URG2DV50S6N Flexible Vent Kit: Part No. 239-51284-00. Weight: 11 lbs.

URG2DV50H6N Solid Vent Kit: Part No. 239-51286-00. Weight: 22 lbs.

URG2DV50H6N 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.

URG2DV40S6N / URG2DV50S6N Optional Telescoping Solid Vent Kits:

- Kit "A" Telescopes from 4 3/4" to 5 1/8" Part No. 239-41260-00
- Kit "B" Telescopes from 6 1/2" to 9 3/8" Part No. 239-41331-00
- Kit "C" Telescopes from 13 3/4" to 23 1/8" Part No. 239-41029-00
- Kit "D" Telescopes from 49 3/8" to 95 1/8" Part No. 239-41424-00

URG2DV50H6N Optional Telescoping Solid Vent Kits:

- Kit "F" Telescopes from 4 3/4" 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 1/8" Part No. 239-42514-00
- Kit "I" Telescopes from 49 3/8" to 95 1/8" Part No. 239-42512-00



Residential Gas Infiniti Tankless™ High Efficiency Models

- ENERGY STAR® Qualified
- Featuring the SRT™ Scale Reduction Technology
 - Vertical Modulating Burner Design
 - Dual Fan Configuration
 - Internal Turbulators
 - Dual Heat Exchanger
- Built-In Digital Control
- Active Bypass
- Cascading Kit (Optional)
- Venting Flexibility
- Gas Connection Flexibility—1/2", 3/4", or 1"
- Inlet Water Filter
- Space Saving Installation
- Built-In Freeze Protection
- Interior and Exterior Installation Capability
- Complies with the Latest Ultra-Low NOx Requirement (10 ng/J NOx limit)

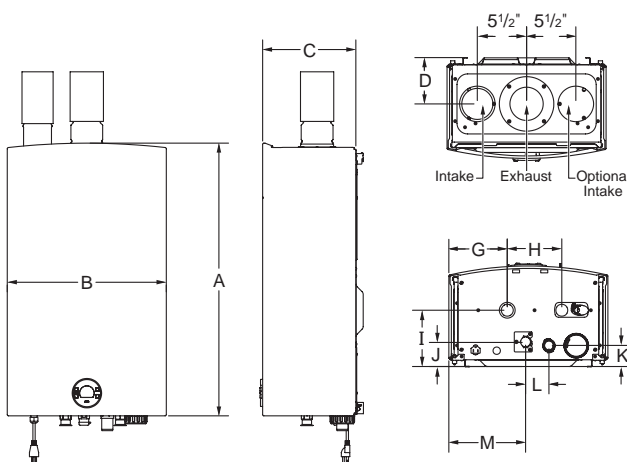


Photo of RTG-199HE-N

Infiniti Tankless™ High Efficiency Models

DIMENSIONS IN INCHES

NATURAL GAS AND LIQUID PROPANE GAS MODELS

Model Number	Installation	Input BTU/Hr.	Vent Conn.	Recovery 90°F Rise* GPM	EF Rating Nat.	Minimum Water Flow GPM	Maximum Temperature Setting
★ RTG-199HE-N	Indoor / Outdoor*	19,900–199,000	3	4.2	0.95	0.5	140° F

Model Number	A Height	B Width	C Depth	D Intake/Exhaust Center Line	G Hot Water Outlet	H Cold Water Inlet	I Hot Water Outlet	J Gas Conn.	K Condensate Tee	L Condensate Tee	L Gas Conn.	Approx. Shipping Weight (lbs)
★ RTG-199HE-N	30 ⁹ / ₁₆	17 ¹³ / ₁₆	10 ⁷ / ₁₆	5 ³ / ₁₆	6 ⁹ / ₁₆	6 ¹ / ₈	6 ⁵ / ₁₆	2 ¹¹ / ₁₆	2 ³ / ₈	2 ⁵ / ₈	2 ³ / ₈	74

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

Requires an electrical power supply from a 120VAC 60Hz properly rated receptacle and must be properly grounded. Power supply cord provided.

* Outdoor installation requires optional outdoor kit

★ = ENERGY STAR® Qualified. 

	2" Venting		3" Venting		4" Venting	
	Twin Pipe	Concentric	Twin Pipe	Concentric	Twin Pipe	Concentric
Max. Allowable Exhaust Vent Length	9.5 ft.	31.0 ft.	23.0 ft.	63.0 ft.	43.0 ft.	43.0 ft.
Max. Allowable Intake Vent Length	9.5 ft.	31.0 ft.	23.0 ft.	63.0 ft.	43.0 ft.	43.0 ft.
Combined Max. Allowable Vent	19.0 ft.	62.0 ft.	46.0 ft.	126.0 ft.	83.0 ft.	83.0 ft.
Elbow Equivalency 90°	5.0 ft.	5.0 ft.	5.0 ft.	5.0 ft.	5.0 ft.	5.0 ft.
Elbow Equivalency 45°	2.5 ft.	2.5 ft.	2.5 ft.	2.5 ft.	2.5 ft.	2.5 ft.
Number of 90° Elbows	1	5	4	7	7	7



Residential Gas Infiniti Tankless™ Mid Efficiency Models

- Featuring the SRT™ Scale Reduction Technology
 - Vertical Modulating Burner Design
 - Dual Fan Configuration
 - Internal Turbulators
 - Dual Heat Exchanger
- Built-In Digital Control
- Cascading Kit (Optional)
- Gas Connection Flexibility—1/2", 3/4", or 1"
- Inlet Water Filter
- Space Saving Installation
- Built-In Freeze Protection
- Interior and Exterior Installation Capability
- Complies with the Latest Ultra-Low NOx Requirement (10 ng/J NOx limit)

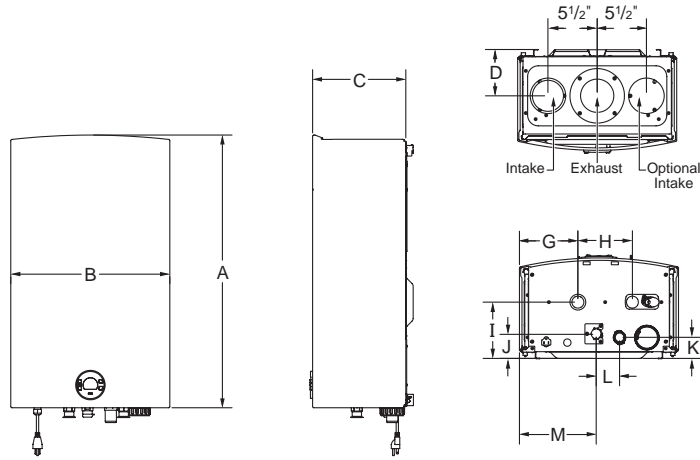


Photo of RTG-199ME-N

Infiniti Tankless™ Mid Efficiency Models

DIMENSIONS IN INCHES

NATURAL GAS AND LIQUID PROPANE GAS MODELS

Model Number	Installation	Input BTU/Hr.	Vent Conn.	Recovery 90°F Rise* GPM	EF Rating Nat.	Minimum Water Flow GPM	Maximum Temperature Setting
RTG-199ME-N	Indoor / Outdoor*	19,900–199,000	3	3.7	0.83	0.5	140° F

Model Number	A Height	B Width	C Depth	D Intake/Exhaust Center Line	G Hot Water Outlet	H Cold Water Inlet	I Hot Water Outlet	J Gas Conn.	K Condensate Tee	L Condensate Tee	L Gas Conn.	Approx. Shipping Weight (lbs)
RTG-199ME-N	30 ⁹ / ₁₆	17 ¹³ / ₁₆	10 ⁷ / ₁₆	5 ³ / ₁₆	6 ⁹ / ₁₆	6 ¹ / ₈	6 ⁵ / ₁₆	2 ¹¹ / ₁₆	2 ³ / ₈	2 ⁵ / ₈	2 ³ / ₈	67

For Propane (LP) Models change suffix "N" to "X".
 Requires an electrical power supply from a 120VAC 60Hz properly rated receptacle and must be properly grounded. Power supply cord provided.
 * Outdoor installation requires optional outdoor kit

	3" Venting	4" Venting
Max. Allowable Exhaust Vent Length	28.5 ft.	61.25 ft.
Max. Allowable Intake Vent Length	28.5 ft.	61.25 ft.
Combined Max. Allowable Vent	57.0 ft.	122.5 ft.
Elbow Equivalency 90°	5.0 ft.	5.0 ft.
Elbow Equivalency 45°	2.5 ft.	2.5 ft.
Number of 90° Elbows	5	7



Residential Electric Energy Saver Water Heaters

General

All models are ETL listed. All water connections are 3/4" NPT true dielectric fittings (RE120L). 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 Utility, Wall Hung models, and RE120L).

Note: The **Upright** and **Lowboy** heaters will be wired single phase interlocking (non-simultaneous) 240 volt with 4500 watt elements, unless otherwise specified. Other wattages are available up to 6000 watts (208, 240, 277 and 480 volt). (Reference chart on following page for non-simultaneous and simultaneous limitations). 4500 watt/240 volt elements require a 25 amp or 30 amp circuit breaker. For 120 volt (non-simultaneous), all models have a maximum wattage of 3000. (120 and 277 volt can only be wired single phase.)

Note: The **Utility** and **Wall Hung** Heaters will be wired for 120 volt with a 1500 watt element. The 1500 watt/120 volt element requires a 20 amp breaker. Other wattages 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, 20 and 30 gallon wall hung models is 6000W.

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

Phase	1	Single Phase
	3	Three Phase

EX: RE3340T6-1NCWW

Operation	N	Non-simultaneous
	S	Simultaneous

EX: RE3340T6-1NCWW

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

EX: RE3340T6-1NCWW

* Use "L" voltage designator if wiring 208V with 5000, 5500 or 6000 watt.

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

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

** Incoloy® element only.

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

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

EX: RE3340T6-1NCWW

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	Z	X**	Y**	Z**
240V Wattage	1000	1250	1500	2000	2500	3000	3500	3800	4000	4500	5000	5500	6000	—	—	—
208V Wattage	—	—	1000	1500	2000	—	2500	—	3000	3500	—	4000	4500	5000	5500†	6000†

EX: RE3340T6-1NCWW, 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 5000, 5500 or 6000 watt.

† Available in non-simultaneous only.



Residential Electric AeroTherm™ Series Heat Pump Models

- ENERGY STAR® Qualified
- The AeroTherm™ Series Control Panel
 - User-Friendly, Easy-to-Read Display
 - LED's Clearly Indicate the Current Operating Mode
 - Display Communicates Current Status, Mode and Set Point, and Displays Error Messages when Applicable
- Operating Modes Offer Flexibility
 - Heat Pump (Only) Mode
 - Hybrid Mode
 - Electric (Only) Mode
 - Vacation Mode
- Quiet Operation
- Can Be Laid Down for Easier Transportation
- Easily Accessible Top Mounted Washable Air Filter
- Operating Air Temperature Range of 35-120°F for the Heat Pump
- Backup Electric Heating Elements
- Direct Heat Transfer with Immersed Elements
- 2" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Protective Magnesium Alloy Anode Rod
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Design Certified to NSF/ANSI 372 (Lead Content).
- Northern Climate Tier 3 Capable
- Optional Ducting Kit

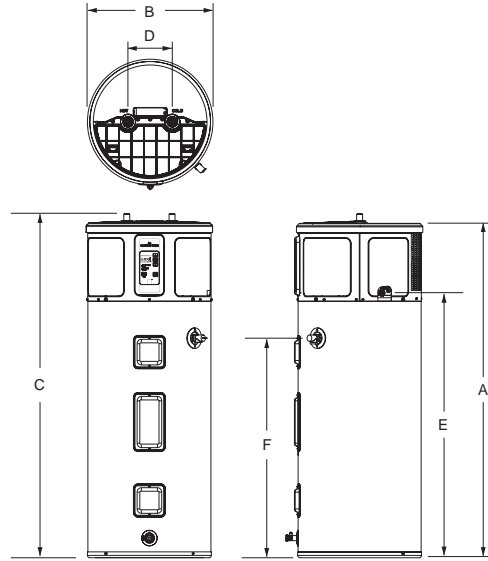


Photo of RE2H50R10B

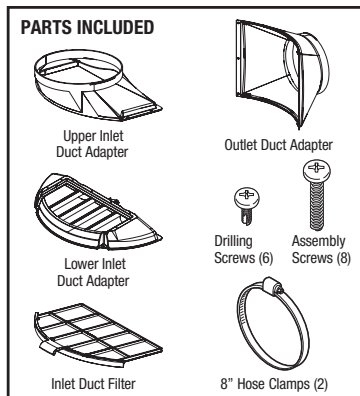
AeroTherm™ Series Heat Pump Models

DIMENSIONS IN INCHES

C.E.C. Listed

ELECTRIC MODELS				Recovery 90°F Rise*		A	B	C	D	E	F	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	1st Hour Delivery Rating	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Distance Between Water Conn.	Floor to Condensate Conn.	Floor to T&P Heater	
RE2H50R10B	50	69	3.39	21	18	59 ¹ / ₈	21 ³ / ₄	60 ³ / ₄	8	46 ³ / ₄	38 ³ / ₄	195
RE2H80R10B	80	94	3.26	21	18	71 ¹ / ₈	25	73 ¹ / ₂	8	58 ³ / ₄	50 ³ / ₈	235

* Based on 4500/4000W, Non-Simultaneous Operation.



Optional Ducting Kit: Part No. GVK8HS.

Kit installation also requires 8" insulated flexible ducting, ducting support hangers, and exterior wall vents for inlet & outlet. Additional clearances required for ducting, refer to ducting kit instructions.



Residential Electric Upright Models

- Fully Automatic Controls
- Direct Heat Transfer with Immersed Elements
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- Simultaneous and Non-Simultaneous Operation Available
- Voltages Available—120V, 208V, 240V, 277V, 480V
- Single Phase or Three Phase Operation Available—120V & 277V
- T&P Relief Valve
- Design Evaluated by ETL in Accordance with Part 280.707(d) of HUD Mobile Home Construction and Safety Standards for Energy Efficiency

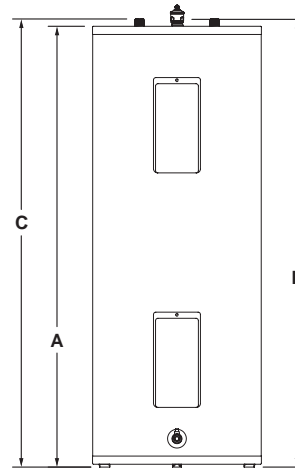
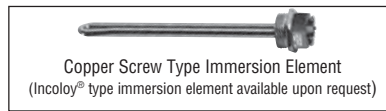
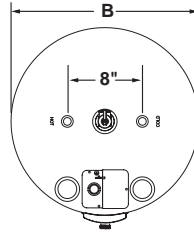


Photo of RE250S6

Upright Models

DIMENSIONS IN INCHES

C.E.C. Listed

ELECTRIC MODELS				Recovery 90°F Rise*		A	B	C	D	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Floor to T&P Conn.	
RE330S6	30	47	0.95	21	18	47	20	47 ³ / ₄	47 ³ / ₄	100
RE340S6	40	55	0.95	21	18	47 ⁷ / ₈	22	48 ⁵ / ₈	48 ⁵ / ₈	114
RE340T6	40	56	0.95	21	18	60 ⁵ / ₈	20	61 ³ / ₈	61 ³ / ₈	125
RE350S6	50	67	0.95	21	18	47	24	47 ³ / ₄	47 ³ / ₄	144
RE350T6	50	67	0.95	21	18	58 ⁵ / ₈	22	59 ³ / ₈	59 ³ / ₈	138
RE240S6†	40	55	0.95	21	18	48	20	48 ³ / ₄	48 ³ / ₄	123
RE250S6†	50	67	0.95	21	18	47	22	47 ³ / ₄	47 ³ / ₄	143

† Models include supplied insulation blanket (2" thick). Dimensions in charts above do not include blanket thickness.

For 10 year models, change suffix "6" to "10".

* Based on 4500W/4500W, Non-Simultaneous operation.

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

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

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



Residential Electric Lowboy Models

- Models above 20-Gallon Meet or Exceed Efficiency Requirements
- Fully Automatic Controls
- Low Restriction Brass Drain Valve
- Direct Heat Transfer with Immersed Elements
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Heat Traps
- Protective Magnesium Anode Rod
- Simultaneous and Non-Simultaneous Operation Available
- Voltages Available—120V, 208V, 240V, 277V, 480V
- Single Phase or Three Phase Operation Available—120V & 277V
- T&P Relief Valve— Side T&P is standard. Optional top T&P location is available
- Design Evaluated by ETL in Accordance with Part 280.707(d) of HUD Mobile Home Construction and Safety Standards for Energy Efficiency

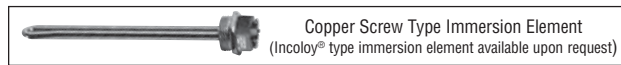
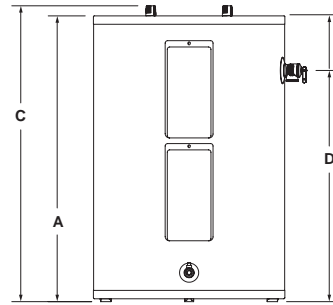
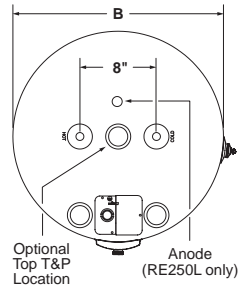


Photo of RE240L6

Lowboy Models

DIMENSIONS IN INCHES

C.E.C. Listed

ELECTRIC MODELS				Recovery 90°F Rise*		A	B	C	D	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Floor to T&P Conn.††	
RE120L6†	19	—	—	21	18	24 ⁷ / ₈	18	25 ⁵ / ₈	19 ¹ / ₈ / 24 ⁷ / ₈	65
RE230L6**	28	45	0.95	21	18	29 ⁷ / ₈	22	30 ³ / ₄	24 ¹ / ₈ / 30 ⁵ / ₈	129
RE240L6**	38	55	0.95	21	18	32 ⁵ / ₈	24	33 ¹ / ₂	24 ¹ / ₈ / 33 ⁵ / ₈	153
RE250L6**	47	58	0.95	21	18	33 ⁵ / ₈	26	34 ³ / ₄	24 ¹ / ₂ / 34 ⁵ / ₈	173

** Models include supplied insulation blanket (2" thick). Dimensions in charts above do not include blanket thickness.

For 10 year models, change suffix "6" to "10".

† Based on 4500W/4500W, Non-Simultaneous operation.

All models available with optional top T&P location (plugged).

† Exempt from ASHRAE 90.1b (current standard).

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

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

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

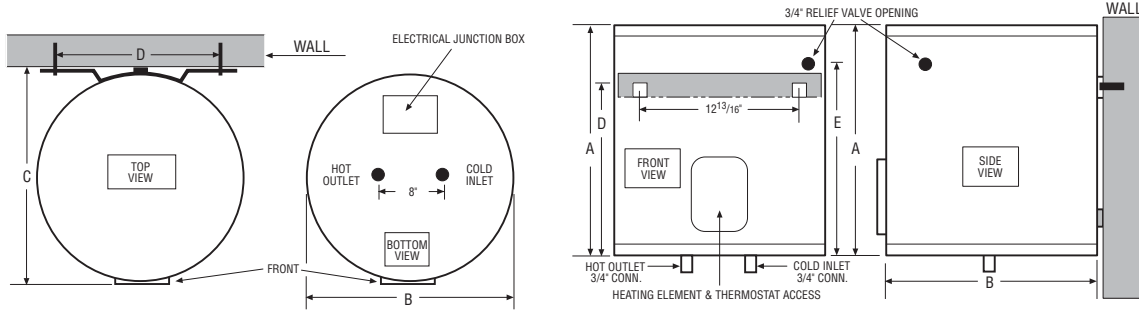
Wattage	Recovery▲ GPH Temperature Rise °F				
	60	80	90	100	120
1500W	10	8	7	6	5
2000W	14	10	9	8	7
2500W	17	13	11	10	9
3000W	21	15	14	12	10
3500W	24	18	16	14	12
4000W	28	21	18	16	14
4500W	31	23	21	19	15
5000W	34	26	23	21	17
5500W	38	29	25	23	19
6000W	41	31	28	25	21

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



Residential Electric Wall Hung Models

- 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"
- Protective Magnesium Anode Rod
- Voltages Available—120V, 208V, 240V, 277V, 480V
- Single Phase Operation Only
- T&P Relief Valve



Wall Hung Models

DIMENSIONS IN INCHES

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

ELECTRIC MODELS		Recovery 90°F Rise*		A	B	C	D	E	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Nat U.S. GPH	Nat Imp. GPH	Height	Jacket Dia.	Wall to Front	Height to Bracket	Floor to T&P Heater	
RE16WV6†	6	7	6	15 ³ / ₄	14	14 ⁵ / ₈	11 ³ / ₄	117 ¹ / ₈	37
RE112WV6	12	7	6	16 ³ / ₈	18	18 ⁵ / ₈	12 ³ / ₄	121 ¹ / ₂	54
RE120WV6	19	7	6	24 ³ / ₈	18	18 ⁵ / ₈	18 ¹ / ₄	21	67

† Maximum wattage at any voltage is 3000W.
For 10 year models, change suffix "6" to "10".
Single element only.

* Based on 1500W operation.

Wattage Limitations	Voltage					Recovery GPH Temperature Rise °F					
	120V	208V	240V	277V	480V	Wattage	60	80	90	100	120
1500W	yes	yes	yes	yes	yes	1500W	10	8	7	6	5
2000W	yes	yes	yes	yes	yes	2000W	14	10	9	8	7
2500W	yes	yes	yes	yes	yes	2500W	17	13	11	10	9
3000W	yes	yes	yes	yes	yes	3000W	21	15	14	12	10
3500W	no	yes	yes	no	no	3500W	24	18	16	14	12
4000W	no	yes	yes	yes	yes	4000W	28	21	18	16	14
4500W	no	yes	yes	yes	yes	4500W	31	23	21	19	15
5000W	no	yes	yes	yes	yes	5000W	34	26	23	21	17
5500W	no	yes	yes	no	no	5500W	38	29	25	23	19
6000W	no	yes	yes	yes	yes	6000W	41	31	28	25	21



Residential Electric Utility Models

- Fully Automatic Controls
- Direct Heat Transfer with a Single Immersed Element
- Vitraglas® Lining
- 1" Non-CFC Foam Insulation
- Water Connections—3/4" NPT
- Alternate Top Water Connections
- Protective Magnesium Anode Rod
- Voltages Available—120V, 208V, 240V, 277V, 480V
- Single Phase Operation Only
- T&P Relief Valve
- Design Evaluated by ETL in Accordance with Part 280.707(d) of HUD Mobile Home Construction and Safety Standards for Energy Efficiency

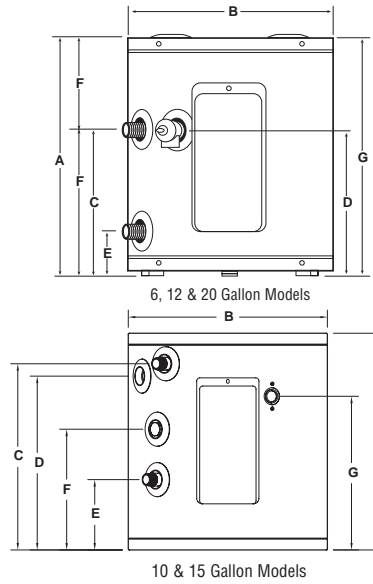
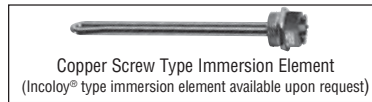
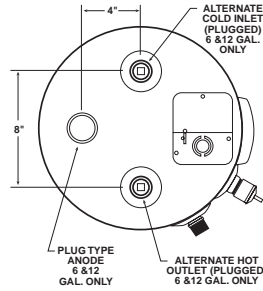


Photo of RE112U6

Utility Models

DIMENSIONS IN INCHES

C.E.C. Listed

ELECTRIC MODELS		Recovery 90°F Rise*		A	B	C	D	E	F	G	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Nat U.S.* GPH	Nat Imp* GPH	Floor to Heater Top	Jacket Dia.	Floor to Hot Water Conn.	Floor to T&P Conn.	Floor to Cold Water Conn.	Floor to Anode Rod	Floor to Electrical Access	
RE16U6†	6	7	6	16½	14	10⅞	10⅞	3⅞	16½	16½	35
RE110U6	10	7	6	17½	16	15	14	5⅞	9⅞	12	44
RE112U6	12	7	6	16⅞	18	10¼	10¼	3	16½	16⅞	53
RE112T6†	12	7	6	27¾	14	21⅞	21⅞	3	27¾	27¾	48
RE115U6	15	7	6	20¼	18	17¾	16¾	6⅞	10⅞	12⅞	58
RE120U6	19	7	6	24¾	18	18¼	18¼	3	10¼	24¾	65

† Maximum wattage at any voltage is 3000W.
For 10 year models, change suffix "6" to "10".
Single element only.

* Based on 1500W operation.

Wattage Limitations	Voltage					Recovery GPH Temperature Rise °F					
	120V	208V	240V	277V	480V	60	80	90	100	120	
1500W	yes	yes	yes	yes	yes	1500W	10	8	7	6	5
2000W	yes	yes	yes	yes	yes	2000W	14	10	9	8	7
2500W	yes	yes	yes	yes	yes	2500W	17	13	11	10	9
3000W	yes	yes	yes	yes	yes	3000W	21	15	14	12	10
3500W	no	yes	yes	no	no	3500W	24	18	16	14	12
4000W	no	yes	yes	yes	yes	4000W	28	21	18	16	14
4500W	no	yes	yes	yes	yes	4500W	31	23	21	19	15
5000W	no	yes	yes	yes	yes	5000W	34	26	23	21	17
5500W	no	yes	yes	no	no	5500W	38	29	25	23	19



Residential Electric Powerful Compact® Model

- Compact Design
- Fully Automatic Control
- Direct Heat Transfer with Immersed Element
- Vitraglas® Lining
- Non-CFC Insulation
- Water Connections—3/4" NPT
- Protective Magnesium Anode Rod
- T&P Relief Valve Opening

Optional Features:

- Wall Mounting Bracket
- Aluminum Anode Rod

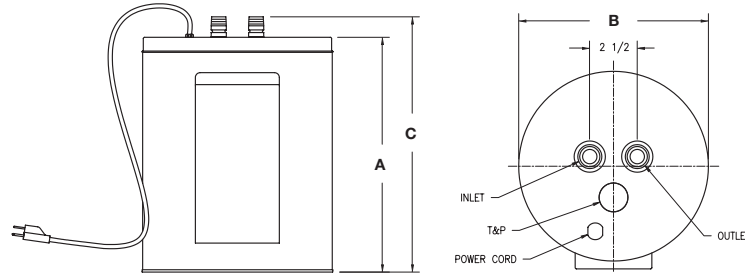


Photo of RE1-2U

Powerful Compact® Model

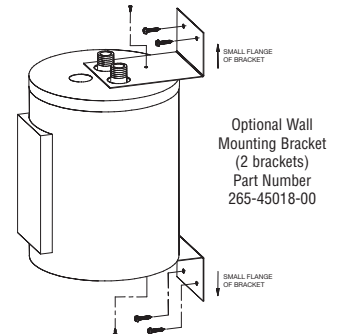
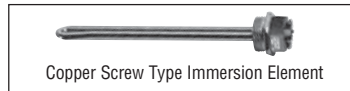
DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard) CEC Listed

ELECTRIC MODELS		Recovery 90°F Rise*		A	B	C	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Nat U.S. GPH	Nat Imp. GPH	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	
RE1-2U6	2	7	6	12 ¹ / ₄	9 ⁷ / ₈	13 ⁵ / ₁₆	13

Includes a 4ft. cord with 3 prong grounded plug (20 amp circuit required).
For 10 year models, change suffix "6" to "10".
Single element only.

* Based on 1500W operation.
Only available as 120V / 1500W.





Residential Electric Specialty Products Instantaneous Water Heaters



- On Demand Hot Water—No delay
- Cut Energy Waste—Flow switch activates heater only on demand (no stand-by heat loss)
- Continuous Hot Water—No storage capacity to run out
- No T&P Relief Valve Needed—Check local codes
- Integral Flow Restrictor—Built-in to ensure proper temperature rise
- 10 Year Warranty on Heater Body/Element Assembly
- Easy Installation – Mounts on Wall – No Sweat Connections
- Ni Chrome Heating Element —A unique, patented flow path ensures optimum heat transfer and extended element life
- Reduces Calcification
- Space Saving Installation—Compact size
- Field Serviceable Element —1 year warranty



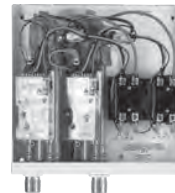
SINGLE POINT



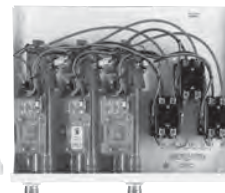
THERMOSTATIC



FLOW CONTROLLED



TWIN HEATING MODULE



THERMOSTATIC THREE PHASE

Single Point Single Phase Models

DIMENSIONS IN INCHES

ELECTRIC

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

Specifications

Dimensions: 10.75" x 5.25" x 2.875"
Weight: 3 lbs.

Materials:

Cover: ABS UL rated 94Vo.
Glass Reinforced "Fortron" Heater Body and Ni Chrome Element
Color: White

- Element: Replaceable cartridge insert
- Pipe-Fittings: 3/8" compression at top of unit

Thermostatic Single Phase Models

DIMENSIONS IN INCHES

ELECTRIC

Model Number*	kW Rating	Voltage	AMPS	Temp. Rise °F 0.5 GPM	Temp. Rise °F 0.75 GPM	Temp. Rise °F 1.0 GPM	Temp. Rise °F 1.5 GPM	Temp. Rise °F 2.0 GPM	Recommended Wire Size
EFT-7500-4-S-10	7.5	240	32.0	—	68°	51°	34°	25°	8 AWG
EFT-9500-4-S-10	9.5	240	40.0	—	86°	65°	43°	32°	8 AWG

Specifications

Dimensions: 10.75" x 5.25" x 2.875"
Weight: 3 lbs.

Materials:

Cover: ABS UL rated 94Vo.
Glass Reinforced "Fortron" Heater Body and Ni Chrome Element
Color: White

- Standard temperature range 100°F-140°F.
 - Element: Replaceable cartridge insert.
 - Pipe-Fittings: 1/2" compression at bottom of unit.
- U.L. Listed: E86887(M)

*Additional voltages and wattages are available. For more information, please consult factory.



Residential Electric Specialty Products Instantaneous Water Heaters (continued)

Flow Controlled Single Phase Models

DIMENSIONS IN INCHES

ELECTRIC

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

Specifications

Dimensions: 10.75" x 5.25" x 2.875"
Weight: 3 lbs.

Materials:

Cover: ABS UL rated 94Vo.
Glass Reinforced "Fortron®" Heater Body and Ni Chrome Element

Color: White

- Standard temperature range 100°F-140°F.
- Element: Replaceable cartridge insert.
- Pipe-Fittings: 1/2" compression at bottom of unit.

Series Two Single Phase Thermostatic Models

DIMENSIONS IN INCHES

ELECTRIC

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

*Additional voltages and wattages are available. For more information, please consult factory.

Specifications

Dimensions: 10" x 9" x 3"
Weight: 8 lbs.

Materials:

Cover: Enameled Steel.
Glass Reinforced "UDEL®" Heater Body and Ni Chrome Element

Color: White

- Element: Dual replaceable cartridge inserts
- Pipe-Fittings: 3/4" NPT at bottom of unit.
- U.S. Patent No.'s: 4,762,980 and 4,960,976

Series Three-Single Phase Thermostatic Models

DIMENSIONS IN INCHES

ELECTRIC

Model Number*	kW Rating	Voltage	Current Per Phase	Temp. Rise °F 1.5 GPM	Temp. Rise °F 2.0 GPM	Temp. Rise °F 2.5 GPM	Temp. Rise °F 3.0 GPM	Temp. Rise °F 4.0 GPM	Recommended Wire Size
EFT-28000-4-T-10	28.0	240	3x40 Amps	—	96°	76°	65°	47°	8 AWG Per Module
EFT-38000-4-F-10	38.0	240	4x40 Amps	—	130°	104°	86°	65°	8 AWG Per Module

This unit must have 3 independent electrical circuits using correctly valued wire and 3 circuit breakers.

Specifications

Single Phase Model Dimensions: 12.25" x 15.25" x 4.25"

Weight: 12 lbs.

Three Phase Model Dimensions: 12.125" x 20.1875" x 4.125"

Weight: 15 lbs.

Materials:

Cover: Enameled Steel.
Glass Reinforced "UDEL®" Heater Body and Ni Chrome Element

Color: White • Element: Triple replaceable cartridge inserts • Pipe-Fittings: 3/4" NPT at bottom of unit.

U.S. Patent No.'s: 4,762,980 and 4,960,976

Series Three-Three Phase Thermostatic Models

DIMENSIONS IN INCHES

ELECTRIC

Model Number*	kW Rating	Voltage	Current Per Phase	Temp. Rise °F 1.5 GPM	Temp. Rise °F 2.0 GPM	Temp. Rise °F 2.5 GPM	Temp. Rise °F 3.0 GPM	Temp. Rise °F 3.5 GPM	Temp. Rise °F 4.0 GPM	Temp. Rise °F 5.0 GPM	Recommended Wire Size
EFTR-18000-6-T-10	18.0	480 Y**	21.7 Amps	82°	61°	49°	41°	35°	32°	25°	6 AWG
EFTR-24000-6-T-10	24.0	480 Y**	28.9 Amps	—	82°	65°	54°	47°	41°	34°	6 AWG
EFTR-32000-6-T-10	32.0	480 Y**	38.5 Amps	—	—	87°	73°	62°	55°	45°	8 AWG

* Additional voltages and wattages are available. For more information, please consult factory.

** Neutral leg required.

Voltage Identification Code For All Models

Voltage Code	Voltage
1	120
2	208
3	220
4	240
5	277
6	480

Example: EFT-28000-4-T-10
The 4 in the model number indicates 240 volt.



Residential Solar Double-Wall Gas Backup Models

- Heat Exchanger—Double-wall 1½" O.D. enamel coated (Vitrageas®) steel coil
- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design (except models above 75,000 BTU/Hr.)
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Backup Low NOx Burner
- Sensor Wires for Solar Thermistor Connections
- Hydrojet® Total Performance System
- Vitrageas® Lining

- 3/4" NPT Female Connections on Front for Supply and Return
- 2" Non-CFC Foam Insulation
- Potable Water Connections—3/4" NPT true dielectric fittings
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)

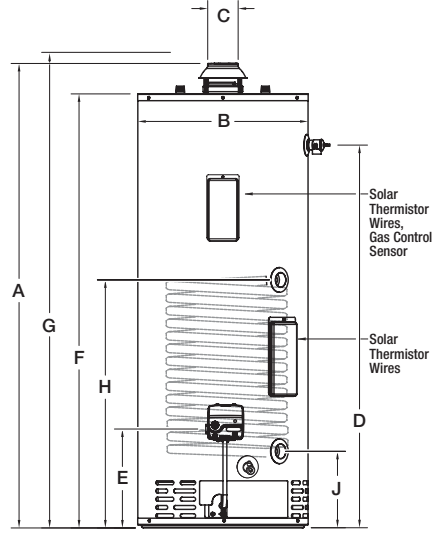
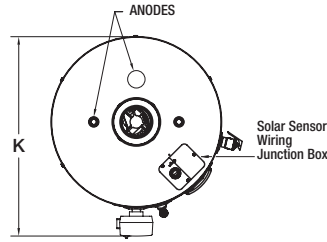


Photo of S-DW2-504T6FBN

EcoStor™ Double-Wall Gas Backup Models

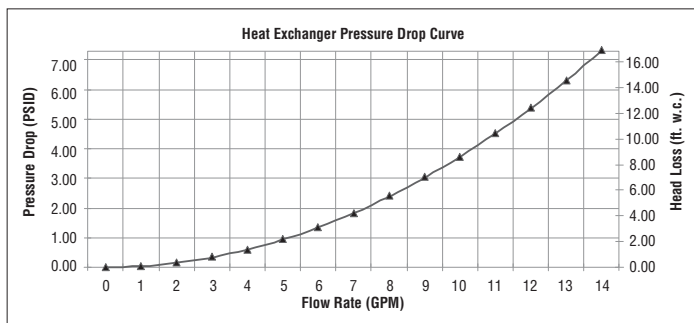
DIMENSIONS IN INCHES

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

NATURAL GAS MODELS				A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery 90°F Rise*	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Heater Top	Floor to Water Conn.	Floor to Solar Collector Supply	Floor to Solar Collector Return	Depth	Approx. Shipping Weight (lbs)
S-DW2-504T6FBN	45	65,000	69	59¼	22	4	50	11¾	56	60	32¼	10½	26	223
S-DW2-65T6FBN	60	65,000	69	63	24	4	53½	11¾	59½	63¼	32¼	10½	28	264
S-DW2-75S6BN	75	76,000	82	62¾	26	4	52	14¾	59	62¾	34½	12½	30¾	306

* Based on manufacturer's rated recovery efficiency.
Propane models feature a Titanium Stabilized Stainless Steel propane burner. For propane (LP) models change suffix "BN" to "SX".

LP GAS MODELS	Input BTU/Hr.	GPH Rec. 90°F Rise
S-DW2-504T6FSX	61,000	65
S-DW2-65T6FSX	63,000	67
S-DW2-75S6SX	76,000	82



Residential Solar

EcoStor2™ TTW® Power Vent Double-Wall Gas Backup Models

- Heat Exchanger—Double-wall 1½" O.D. enamel coated (Vitraglas®) steel coil
- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design (except models above 75,000 BTU/Hr.)
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Backup Low NOx Burner
- Sensor Wires for Solar Thermistor Connections
- Horizontal and Vertical Venting
- High Efficiency Blower
 - 10 ft. Power Cord Included (120 VAC)

- Hydrojet® Total Performance System
- Vitraglas® Lining
- Supply and Return Connections—3/4" NPT
- 2" Non-CFC Foam Insulation
- Potable Water Connections—3/4" NPT true dielectric fittings
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- S-DW2-TW-75 Is Not FVIR Compliant
- Thermostatic Mixing Valve (ASSE Approved)

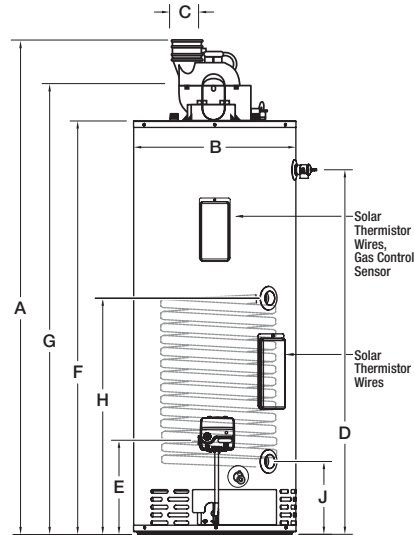
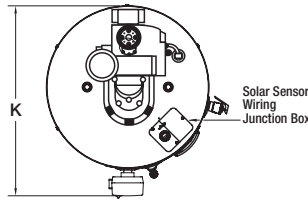


Photo of S-DW2-TW-65T6FBN

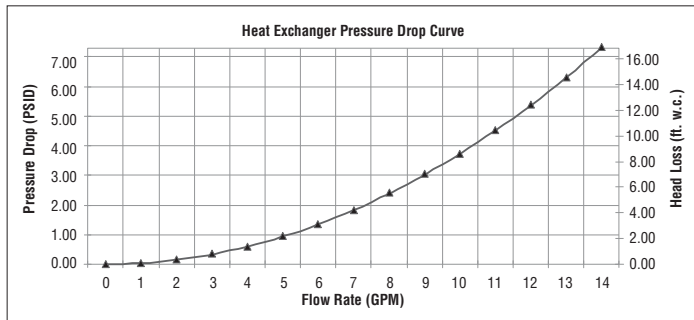
EcoStor2™ TTW® Power Vent Double-Wall Gas Backup Models

DIMENSIONS IN INCHES

NATURAL GAS MODELS				A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery 90°F Rise*	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Heater Top	Floor to Water Conn.	Floor to Solar Collector Supply	Floor to Solar Collector Return	Depth	Approx. Shipping Weight (lbs)
S-DW2-TW-50T6FBN	45	67,000	72	59¼	22	3 or 4	50	11⅜	56	60	32¼	10⅞	26	247
S-DW2-TW-65T6FBN	60	70,000	75	63	24	3 or 4	53½	11⅜	59½	63¼	32¼	10⅞	28	281
S-DW2-TW-75T6BN	70	76,000	82	62⅞	26	4	52	14⅞	59	62¾	34⅝	12½	30⅞	336

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

* Based on manufacturer's rated recovery efficiency. Propane models feature a Titanium Stabilized Stainless Steel propane burner. For propane (LP) models change suffix "BN" to "SX".



LP GAS MODELS	Input BTU/Hr.	GPH Rec. 90°F Rise
S-DW2-TW-50T6FSX	60,000	65
S-DW2-TW-65T6FSX	63,000	68
S-DW2-TW-75T6SX	75,500	81

S-DW2-TW-50T6FBN S-DW2-TW-65T6FBN S-DW2-TW-75T6BN	3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length	60 ft.**	180 ft.
Min. Equivalent Length	7 ft.	15 ft.
Number of 90° Elbows	1	55 ft. / 175 ft.
	2	50 ft. / 170 ft.
	3	45 ft. / 165 ft.

Subtract 5ft. for each additional 90° elbow. ** S-DW2-TW-75 Max. 3" vent length is 50ft.



Residential Solar EcoStor™ Open Loop Gas Backup Models

- Heat Exchanger—Double-wall 1½" O.D. enamel coated (Vitraglas®) steel coil
- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design (except models above 75,000 BTU/Hr.)
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Backup Low NOx Burner
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Supply and return Connections—¾" NPT
- 2" Non-CFC Foam Insulation
- Potable Water Connections—¾" NPT (65 gallon), 1" NPT (75 gallon) and 1½" NPT (100 gallon) true dielectric fittings
- Protective Anode Rods—65 and 75 gallon models (1 Anode Rod), 100 gallon Model (2 Anode Rods)
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)

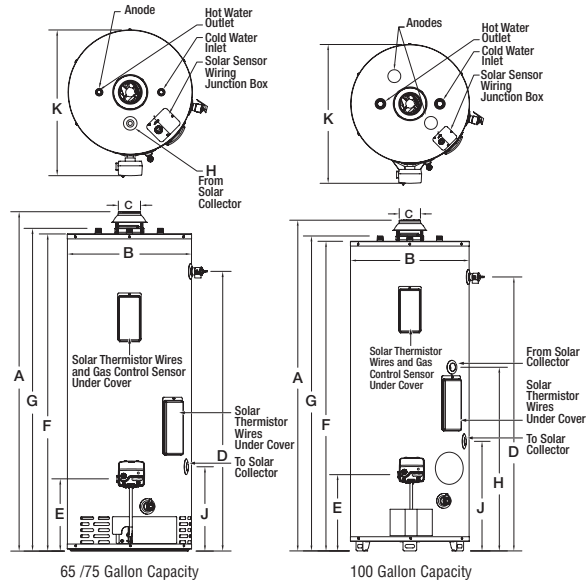


Photo of S-2-65T6FBN

EcoStor™ Open Loop Gas Backup Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS				A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery 90°F Rise*	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Heater Top	Floor to Water Conn.	Floor to Solar Collector Supply	Floor to Solar Collector Return	Depth	Approx. Shipping Weight (lbs)
S-2-65T6FBN	65	65,000	69	63	24	4	53½	11⅜	59½	60¼	60¼	10⅞	28	215
S-2-75S6BN	75	76,000	82	62⅜	26	4	52	14⅞	59	59¾	59¾	12½	30⅞	250
S-2-100T6BN	100	85,000	92	63⅞	28¼	4	39¼	14¼	65½	67½	38¾	17½	32¼	400

* Based on manufacturer's rated recovery efficiency.
Propane models feature a Titanium Stabilized Stainless Steel propane burner. For propane (LP) models change suffix "BN" to "SX".

LP GAS MODELS	Input BTU/Hr.	GPH Rec. 90°F Rise
S-2-65T6FSX	63,000	67
S-2-75S6SX	76,000	82
S-2-100T6SX	88,000	95



Residential Solar

EcoStor™ TTW® Power Vent Open Loop Gas Backup Models

- 3/4" NPT Solar Collector Supply and Return Connections (No Internal Heat Exchanger)
- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design (except models above 75,000 BTU/Hr.)
 - Flammable Vapor Sensor
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Backup Low NOx Burner
- Sensor Wires for Solar Thermistor Connections
- Horizontal and Vertical Venting
- High Efficiency Blower
 - 10 ft. Power Cord Included (120 VAC)
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Supply and Return Connections—3/4" NPT
- 2" Non-CFC Foam Insulation
- Potable Water Connections—3/4" NPT true dielectric fittings
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)

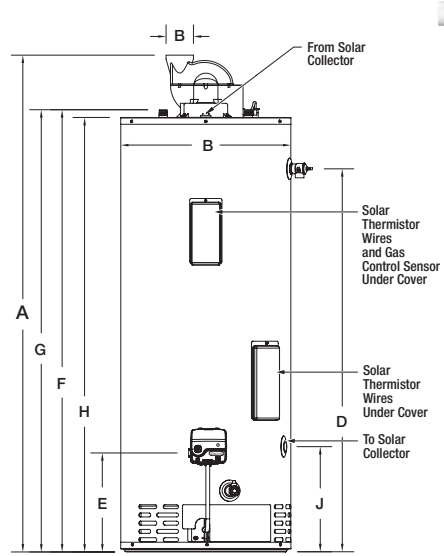
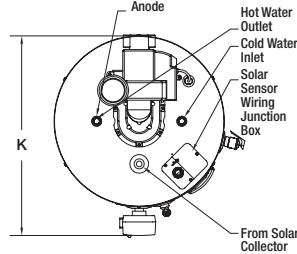


Photo of S-2-TW65T6FBN

EcoStor™ TTW® Power Vent Open Vent Gas Backup Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS				A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery 90°F Rise*	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Heater Top	Floor to Water Conn.	Floor to Solar Collector Supply	Floor to Solar Collector Return	Depth	Approx. Shipping Weight (lbs)
S-2-TW65T6FBN	65	70,000	75	63	24	3	53 1/2	11 3/8	59 1/2	60 1/4	32 1/4	10 1/8	28	225
S-2-TW75T6BN	75	76,000	82	62 3/8	26	3	52	14 1/8	59	59 3/4	34 5/8	12 1/2	30 3/8	260

* Based on manufacturer's rated recovery efficiency. Propane models feature a Titanium Stabilized Stainless Steel propane burner. For propane (LP) models change suffix "BN" to "SX". 120 V.A.C. required for power venting. 120 V.A.C. 60HZ 3.1 Amperes.

LP GAS MODELS	Input BTU/Hr.	GPH Rec. 90°F Rise
S-2-TW65T6FSX	63,000	68
S-2-TW75T6SX	75,500	81

S-2-TW65T6FBN S-2-TW75T6BN	3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length	60 ft.**	180 ft.
Min. Equivalent Length	7 ft.	15 ft.
Number of 90° Elbows	1: 55 ft. 2: 50 ft. 3: 45 ft.	175 ft. 170 ft. 165 ft.

Subtract 5ft. for each additional 90° elbow. ** S-2-TW-75 Max. 3' vent length is 50 ft. (15.24 m).

Residential Solar

EcoStor2™ SC Ultra Low NOx Double-Wall Gas Backup Models

- Heat Exchanger—Double-wall 1½" O.D. enamel coated (Vitrarglas®) steel coil
- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Eco-Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design
 - Digital Thermal Sensor
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Backup Ultra Low NOx Burner
- Sensor Wires for Solar Thermistor Connections
- Hydrojet® Total Performance System
- Vitrarglas® Lining
- Supply and Return Connections—¾" NPT
- 2" Non-CFC Foam Insulation
- Potable Water Connections—¾" NPT true dielectric fittings
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Complies with the Latest Ultra-Low NOx Requirements (10/ngts NOx limit)
- Thermostatic Mixing Valve (ASSE Approved)

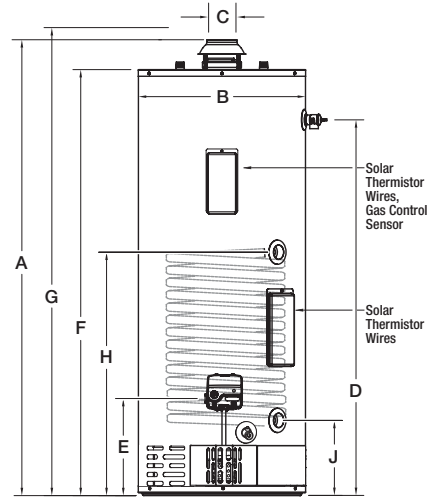
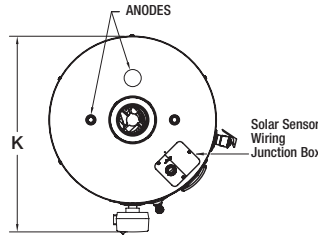


Photo of S-DW4-U5036FRN

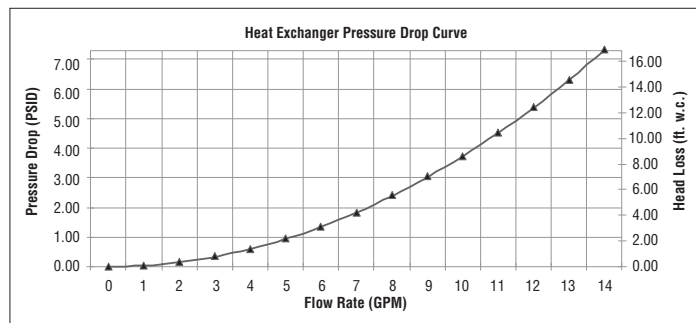
EcoStor2™ Ultra Low NOx Double-Wall Gas Backup Models

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

DIMENSIONS IN INCHES

NATURAL GAS MODELS				A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery 90°F Rise*	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Heater Top	Floor to Water Conn.	Floor to Solar Collector Supply	Floor to Solar Collector Return	Depth	Approx. Shipping Weight (lbs)
S-DW4-U5036FRN	45	40,000	43	59¼	22	3	50	11⅝	56¼	60	32¼	10⅞	26	233
S-DW2-U65T6FRN	60	55,000	57	63	24	4	53½	11⅝	59½	63¼	32¼	10⅞	28	272

* Based on manufacturer's rated recovery efficiency. Complies with the latest ultra-low NOx requirement (10 ng/J NOx limit).





Residential Solar EcoStor™ Dual Coil Heat Exchanger Backup Models

- Dual Coil Design—A single-wall heat exchanger is located in the upper portion of the tank. A double wall heat exchanger is located in the lower portion of the tank
- Applications—Dual heat exchangers located inside the tank may be connected to a variety of different heating systems
- Sensor Wires for Solar Thermistor Connections
- Hydrojet® Total Performance System
- Vitraglas® Lining
- Supply and Return Connections—1" NPT upper coil, 3/4" NPT lower coil
- 2" Non-CFC Foam Insulation

- Potable Water Connections—3/4" NPT true dielectric fittings extend water heater life and eases installation
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)

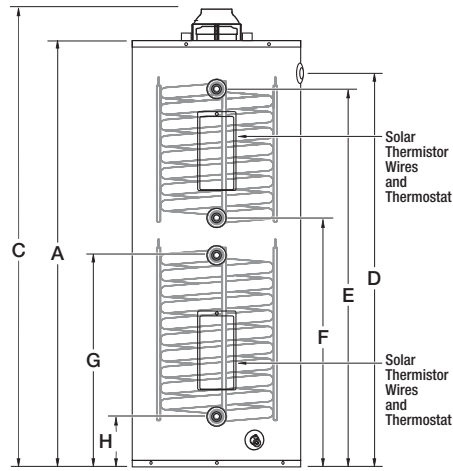
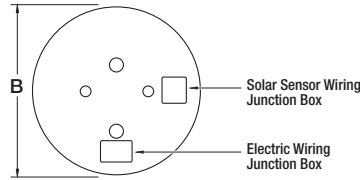
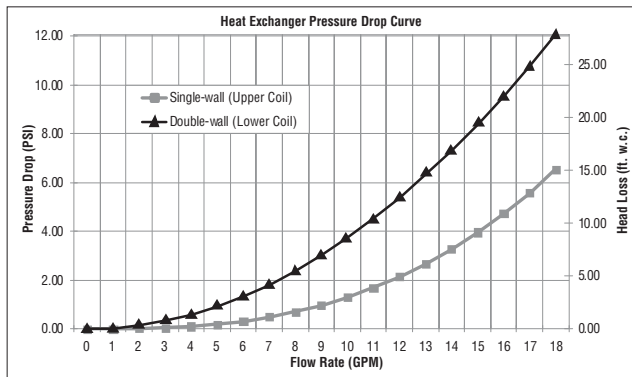


Photo of S-DC-DW2-55R6SW

EcoStor™ Dual Coil Heat Exchanger Backup Models

DIMENSIONS IN INCHES

SOLAR MODELS		A	B	C	D	E	F	G	H	
Model Number	Gal. Cap.	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Floor to T&P Conn.	Floor to Upper Coil. Supply	Floor to Upper Coil. Return	Floor to Lower Coil. Supply	Floor to Lower Coil. Return	Approx. Shipping Weight (lbs)
S-DC-DW2-55R6SW	55	59 1/4	22	62 3/4	53	56	37 1/2	27 1/2	5 3/8	282
S-DC-DW2-70R6SW	70	59 1/4	24	62 3/4	53	56	37 1/2	27 1/2	5 3/8	313
S-DC-DW2-110R6SW	110	62 1/2	28 1/4	66	55 3/4	57 3/4	39 1/4	27 1/2	5 3/8	442





Residential Solar EcoStor™ SC Single-Wall Electric Backup Models

- Heat Exchanger—Single-wall 1½" O.D. enamel coated (Vitrage®) steel coil
- Supplied Sensor Wires for Solar Thermistor Connections
- Integrated Mixing Device
- Element Backup—Single or dual 4500W heating elements
- Hydrojet® Total Performance System
- Vitrage® Lining
- 1" NPT Female Connections on Front for Supply and Return
- Potable Water Connections—¾" NPT true dielectric fittings
- 2" Non-CFC Foam Insulation
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)

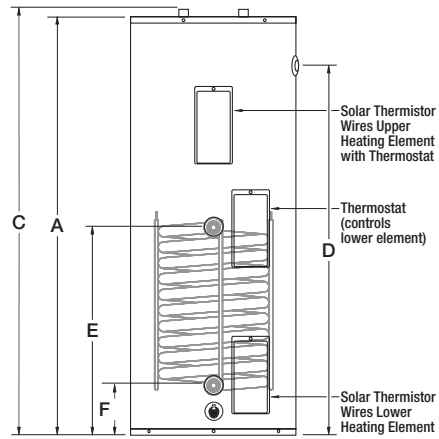
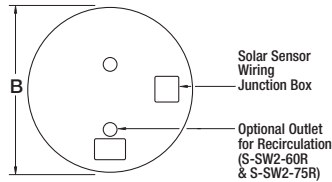


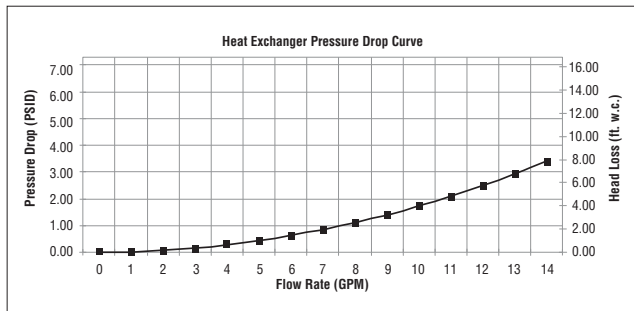
Photo of S-SW2-60R6DS

EcoStor™ Single-Wall Electric Backup Models

DIMENSIONS IN INCHES

SOLAR MODELS		A	B	C	D	E	F	
Model Number	Gal. Cap.	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Floor to T&P Conn.	Floor to Solar Coll. Supply	Floor to Solar Coll. Return	Approx. Shipping Weight (lbs)
S-SW2-60R6DS	60	59¼	22	63¼	53	29½	7¾	210
S-SW2-75R6DS	75	59¼	24	63¼	53	29½	7¾	236
S-SW2-115R6DS	115	62¾	28¼	66¾	55¾	29½	7¾	340

For single element models change "D" to "S".
(Ex. S-SW2-60R6SS)



Electric Backup Water Heating Ratings

Model Number	First Hour Supply (Gal.)		Standby Heat Loss Rating (°F/Hr.)
	Single Element	Dual Element	
S-SW2-60R6DS	46	84	1.1
S-SW2-75R6DS	53	97	0.9
S-SW2-115R6DS	83	124	0.7



Residential Solar EcoStor 2™ Double-Wall Electric Backup Models

- Heat Exchanger—Double-wall 1½" O.D. enamel coated (Vitraglas®) steel coil
- Supplied Sensor Wires for Solar Thermistor Connections
- Element Backup—Single or dual 4500W heating elements - Optional 5500W
- Hydrojet® Total Performance System
- Vitraglas® Lining
- 3/4" NPT Female Connections on Front for Supply and Return
- Potable Water Connections—3/4" NPT true dielectric fittings
- 2" Non-CFC Foam Insulation
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)

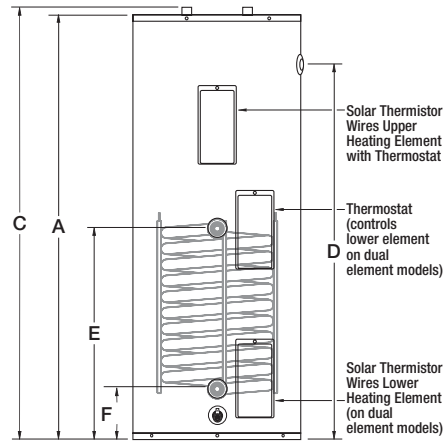
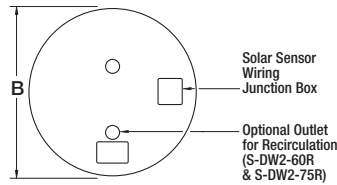


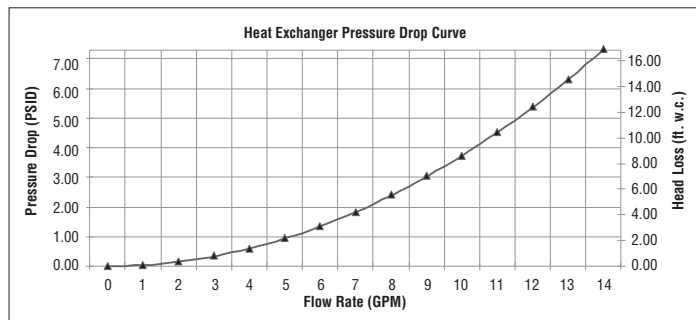
Photo of S-DW2-60R6DS

EcoStor2™ Double-Wall Electric Backup Models

DIMENSIONS IN INCHES

SOLAR MODELS		A	B	C	D	E	F	
Model Number	Gal. Cap.	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Floor to T&P Conn.	Floor to Solar Coll. Supply	Floor to Solar Coll. Return	Approx. Shipping Weight (lbs)
S-DW2-60R6DS	60	59¼	22	63¼	53	29½	7¾	217
S-DW2-75R6DS	75	59¼	24	63¼	53	29½	7¾	241
S-DW2-115R6DS	115	62¾	28¼	66¾	55¾	29½	7¾	345

For single element models change "D" to "S".
(Ex. S-DW2-60R6SS)



Electric Backup Water Heating Ratings

Model Number	First Hour Supply (Gal.)		Standby Heat Loss Rating (°F/Hr.)
	Single Element	Dual Element	
S-DW2-60R6DS	46	84	1.1
S-DW2-75R6DS	53	97	0.9
S-DW2-115R6DS	83	124	0.7



Residential Solar Solar Saver® Electric Backup Models

- Vitraglas® Lining
- Hydrojet® Total Performance System
- Equipped with a 4500 watt Element And Automatic Thermostat—Where a backup system is desired. If storage only is desired do not connect the unit to the electrical service.
- Top of Tank Access for Wiring and Water Connections
- Pre-Wired Sensor Lead
- Thermal Feet
- Water Connections—3/4" NPT true dielectric fittings
- 2" Non-CFC foam insulation
- Protective Magnesium Anode Rod
- Consult Factory for Other Wattages
- T&P Relief Valve
- Low Restriction Brass Drain Valve

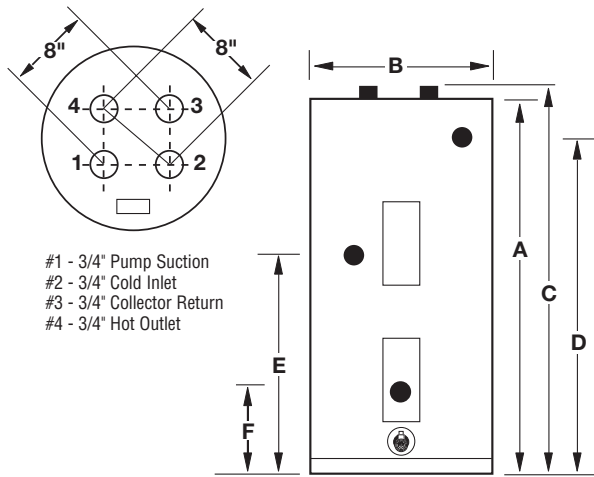


Photo of MS80R6SS

Solar Saver® Electric Backup Models

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard)

SOLAR MODELS		A	B	C	D	E	F	
Model Number	Gal. Cap.	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Floor to T&P Conn.	Fl. to Alt. Coll. Return Conn.	Fl. to Alt. Coll. Supply Conn.	Approx. Shipping Weight (lbs)
MS65R6SS	65	59	22	60	52½	—	—	168
MS80R6SS†	80	59	24	60	52½	38	7⅞	210
MS120R6SS†	119	62½	28	63½	56	38¼	7⅞	310

NOTE: Suffix letter "S" denotes single element and surface mounted thermostat.
 If requirements are for storage only, do not use element connections.
 Second suffix letter "S" denotes Screw-Type Element. Meets California Energy Commission requirements.
 † Models offer additional pump suction and collector return connections.



Residential Gas Combi1™ Single-Wall Atmospheric Models

- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design (50 gallon model only)
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- All Combi1™ Models Feature:**
 - Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
 - Heat Exchanger—Single-wall 1½" O.D. enamel coated (Vitrageas®) Steel Coil
- Provides Domestic Hot Water and Space Heating in One System
- Low Heat Exchanger Head Loss—Up to 10 GPM flow, with less than 0.80 ft. of Head Loss
- Vitrageas® Lining
- Hydrojet® Total Performance System
- Water Connections – ¾" NPT true dielectric fittings
- 1" Front NPT Supply and Return Connections
- 2" Non-CFC Foam Insulation
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)

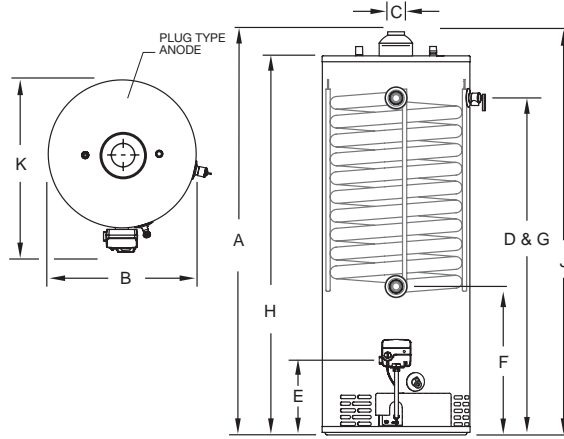


Photo of C-SW2-504T10FBN

Combi1™ Atmospheric Vent Model

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS				A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery 90°F Rise*	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Exchanger Inlet	Floor to Exchanger Outlet	Floor to Top of Heater	Floor to Top Water Conn.	Depth	Approx. Shipping Weight (lbs)
C-SW2-504T10FBN	45	65,000	70	59¼	22	4	50	13	31½	50	56¾	60¾	24½	236
C-SW2-75T10BN	72	76,000	81	62¼	26	4	51¾	13⅞	29⅝	51¾	59	63	30¾	292

All propane models feature a Titanium Stabilized Stainless Steel burner. For propane (LP) models change suffix "BN" to "SX".

* Based on manufacturer's rated recovery efficiency.
CAEF is .55 and CAAFLUE % is 80.0.

LP GAS MODELS	Input BTU/Hr.	GPH Rec. 90°F Rise
C-SW2-504T10FSX	61,000	66
C-SW2-75T10SX	76,000	81

Heat Exchanger Values*

	C-SW2-504T C-SW2-75T	C-SW2-504T		C-SW2-75T	
Supply Temperature	140°F	120°F	100°F	120°F	100°F
Return Temperature	120°F	100°F	80°F	100°F	80°F
Differential	20°F	20°F	20°F	20°F	20°F
Flow Rate	4.1 GPM	4.6 GPM	4.6 GPM	5.6 GPM	5.6 GPM
Net Output	35,500 BTU/Hr.	39,500 BTU/Hr.	39,500 BTU/Hr.	47,500 BTU/Hr.	47,500 BTU/Hr.

Heat Exchanger Head Loss

GPM	2	5	8	10	12
Feet of Head Loss	0.03	0.20	0.51	0.80	1.15

* These values were obtained using 180°F stored tank temperature.
Net Output is the space heating capacity based on normal piping and pickup allowance of 15%.
Actual values may vary based on circulator flow rate, number of zones, water and space heating demands.
Numbers subject to change.



Residential Gas Combi1™ TTW® Single-Wall Power Vent Models

- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design (50 gallon model only)
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- All Combi1™ TTW® Models Feature:**
 - Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
 - Heat Exchanger—Single-wall 1½" O.D. enamel coated (Vitrilas®) steel
 - Provides Domestic Hot Water and Space Heating in One System
 - Low Heat Exchanger Head Loss—Up to 10 GPM flow, with less than 0.80 ft. of Head Loss
 - Vitrilas® Lining
- Power Vented
 - 10 ft. Power Cord Included (120 VAC)
- Hydrojet® Total Performance System
- Horizontal and Vertical Venting
- Water Connections—¾" NPT true dielectric fittings
- 1" NPT Front Supply and Return Connections
- 2" Non-CFC Foam Insulation
- Two Protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)

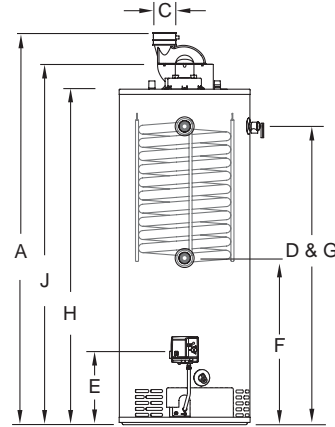
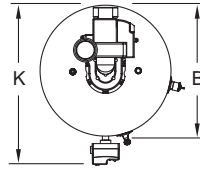


Photo of C-SW2-TW50T10FBN

Combi1™ TTW® Single-Wall Power Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS				A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery 90°F Rise*	Floor to Vent Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Exchanger Inlet	Floor to Exchanger Outlet	Floor to Top of Heater	Floor to Top Water Conn.	Depth	Approx. Shipping Weight (lbs)
C-SW2-TW50T10FBN	45	67,000	72	65½"	22	3 or 4	50½"	11¾"	31½"	50	56¾"	60¾"	26¾"	243
C-SW2-TW75T10BN	72	76,000	82	68¾"	26	3 or 4	53	15	34½"	53	60¼"	64¼"	31	313

All propane models feature a Titanium Stabilized Stainless Steel burner. For propane (LP) models change suffix "BN" to "SX".

* Based on manufacturer's rated recovery efficiency.
120 V.A.C Required for Power Venting / 120 V.A.C., 60HZ, 3.1 Amperes.

Heat Exchanger Values*

	140°F	120°F	100°F
Supply Temperature	140°F	120°F	100°F
Return Temperature	120°F	100°F	80°F
Differential	20°F	20°F	20°F
Flow Rate (TW50)	4.1 GPM	4.6 GPM	4.6 GPM
Net Output (TW50)	35,000 BTU/Hr.	39,500 BTU/Hr.	39,500 BTU/Hr.
Flow Rate (TW75)	4.1 GPM	5.6 GPM	5.6 GPM
Net Output (TW75)	35,000 BTU/Hr.	47,500 BTU/Hr.	47,500 BTU/Hr.

* These values were obtained using 180°F stored tank temperature.
Net Output is the space heating capacity based on normal piping and pickup allowance of 15%.
Actual values may vary based on circulator flow rate, number of zones, water and space heating demands. Numbers subject to change.

Heat Exchanger Head Loss	
GPM	Ft. of Hd. Loss
2	0.03
5	0.20
8	0.51
10	0.80
12	1.15

LP GAS MODELS	Input BTU/Hr.	GPH Rec. 90°F Rise
C-SW2-TW50T10FSX	60,000	65
C-SW2-TW75T10SX	75,500	81

C-SW2-TW50 C-SW2-TW75	Vent Pipe	
	3"	4"
Max. Equivalent Length	60 ft.**	180 ft.
Min. Equivalent Length	7 ft.	15 ft.
Number of 90° Elbows	1	55 ft. / 175 ft.
	2	50 ft. / 170 ft.
	3	45 ft. / 165 ft.

Subtract 5ft. for each additional 90° elbow.
** C-SW2-TW75 maximum 3" vent length is 50ft.



Residential Gas Combi2™ Double-Wall Atmospheric Models

- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrester design (50 gallon model only)
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Hydrojet® Total Performance System
 - Water Connections—3/4" NPT true dielectric fittings
 - 3/4" Front NPT Supply and Return Connections
 - 2" Non-CFC Foam Insulation
 - Two Protective Anode Rods
 - T&P Relief Valve
 - Low Restriction Brass Drain Valve
 - Thermostatic Mixing Valve (ASSE Approved)

All Combi2™ Models Feature:

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Heat Exchanger—Double-wall 1½" O.D. enamel coated (Vitrilas®) steel coil ensures separation of potable water and heating fluid
- Provides Domestic Hot Water and Space Heating in One System
- Low Heat Exchanger Head Loss—Up to 10 GPM flow, with less than 3.75 ft. of Head Loss
- Vitrilas® Lining

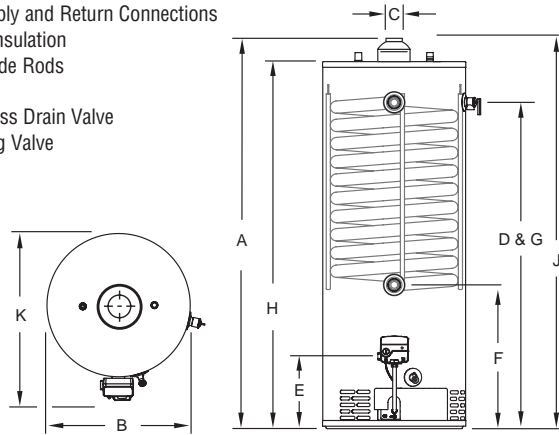


Photo of C-DW2-504T10FBN

Combi2™ Double-Wall Atmospheric Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS				A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery 90°F Rise*	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Exchanger Inlet	Floor to Exchanger Outlet	Floor to Top of Heater	Floor to Top Water Conn.	Depth	Approx. Shipping Weight (lbs)
C-DW2-504T10FBN	45	65,000	70	59 1/4	22	4	50	13	27 7/8	50	56 3/8	60 3/8	24 1/2	238
C-DW2-75T10BN	72	76,000	81	62 1/4	26	4	51 3/4	13 7/8	29 5/8	51 3/4	59	63	30 3/8	302

All propane models feature a Titanium Stabilized Stainless Steel burner. For propane (LP) models change suffix "BN" to "SX".

* Based on manufacturer's rated recovery efficiency. CAEF is .55 and CAAFLUE % is 80.0.

Heat Exchanger Values*

Supply Temperature	140°F	120°F	100°F
Return Temperature	120°F	100°F	80°F
Differential	20°F	20°F	20°F
Flow Rate	2.3 GPM	3.4 GPM	4.4 GPM
Net Output	20,000 BTU/Hr.	29,000 BTU/Hr.	38,000 BTU/Hr.

* These values were obtained using 180°F stored tank temperature. Net Output is the space heating capacity based on normal piping and pickup allowance of 15%. Actual values may vary based on circulator flow rate, number of zones, water and space heating demands. Numbers subject to change.

LP GAS MODELS	Input BTU/Hr.	GPH Rec. 90°F Rise
C-DW2-504T10FSX	61,000	66
C-DW2-75T10SX	76,000	81

Heat Exchanger Head Loss

GPM	2	5	8	10	12
Feet of Head Loss	0.15	0.94	2.40	3.75	5.40



Residential Gas Combi2™ TTW® Double-Wall Power Vent Models

- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrestor design (50 gallon model only)
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base

All Combi2™ TTW® Models Feature:

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Heat Exchanger—Double-wall 1½" O.D. enamel coated (Vitraglas®) steel coil ensures separation of potable water and heating fluid
- Provides Domestic Hot Water and Hydronic Heating in One System
- Low Heat Exchanger Head Loss—Up to 10 GPM flow, with less than 3.75 ft. of Head Loss
- Vitraglas® Lining
- Hydrojet® Total Performance System

- Power Vented
 - 10 ft. Power Cord Included (120 VAC)
- Horizontal and Vertical Venting
- Water Connections—¾" NPT true dielectric fittings
- ¾" Front Supply and Return Connections
- 2" Non-CFC Foam Insulation
- Two protective Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved)

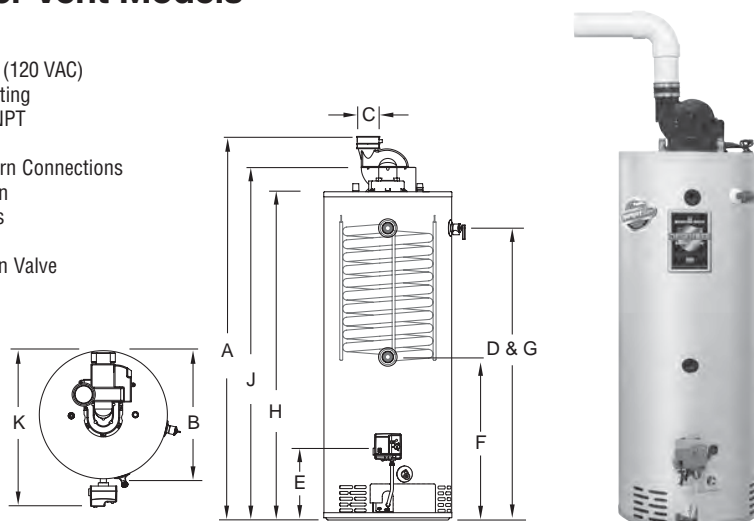


Photo of C-DW2-TW50T10FBN

Combi2™ TTW® Double-Wall Power Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS				A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery 90°F Rise*	Floor to Vent Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Exchanger Inlet	Floor to Exchanger Outlet	Floor to Top of Heater	Floor to Top Water Conn.	Depth	Approx. Shipping Weight (lbs)
C-DW2-TW50T10FBN	45	67,000	72	65 ⁷ / ₈	22	3 or 4	50 ¹ / ₈	11 ³ / ₄	28	50 ¹ / ₈	56 ³ / ₈	60 ³ / ₄	26 ³ / ₄	245
C-DW2-TW75T10BN	72	76,000	82	68 ³ / ₈	26	3 or 4	53	15	30 ⁷ / ₈	53	60 ¹ / ₄	64 ¹ / ₄	31	315

All propane models feature a Titanium Stabilized Stainless Steel burner. For propane (LP) models change suffix "BN" to "SX".
* Based on manufacturer's rated recovery efficiency.
120 V.A.C. Required for Power Venting / 120 V.A.C., 60HZ, 3.1 Amperes.

Heat Exchanger Values*

	140°F	120°F	100°F
Supply Temperature	140°F	120°F	100°F
Return Temperature	120°F	100°F	80°F
Differential	20°F	20°F	20°F
Flow Rate	2.3 GPM	3.4 GPM	4.4 GPM
Net Output	20,000 BTU/Hr.	29,000 BTU/Hr.	38,000 BTU/Hr.

* These values were obtained using 180°F stored tank temperature.
Net Output is the space heating capacity based on normal piping and pickup allowance of 15%.
Actual values may vary based on circulator flow rate, number of zones, water and space heating demands. Numbers subject to change.

Heat Exchanger Head Loss	
GPM	Ft. of Hd. Loss
2	0.15
5	0.94
8	2.40
10	3.75
12	5.40

LP GAS MODELS	Input BTU/Hr.	GPH Rec. 90°F Rise
C-DW2-TW50T10FSX	60,000	65
C-DW2-TW75T10SX	75,500	81

C-DW2-TW50	3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length	60 ft.**	180 ft.
Min. Equivalent Length	7 ft.	15 ft.
Number of 90° Elbows	1 55 ft.	175 ft.
	2 50 ft.	170 ft.
	3 45 ft.	165 ft.

Subtract 5ft. for each additional 90° elbow.
** C-DW2-TW75 maximum 3" vent length is 50ft.



Residential

PowerStor Series® Single-Wall Indirect Models

- Heat Exchanger—Single-wall 1½" O.D. enamel coated (Vitrarglas®) steel coil
- Vitrarglas® Lining
- Hydrojet® Total Performance System
- Water Connections—¾" NPT true dielectric fittings (SW-2-120L has 1" NPT water connection)
- 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 Restriction Brass Drain Valve
- Limited Lifetime Tank and Heat Exchanger Warranty
- AHRI Certified
- Standby Heat Loss Is Less than 1/2 °F per Hour (ASHRAE 90.1b Current Standard)

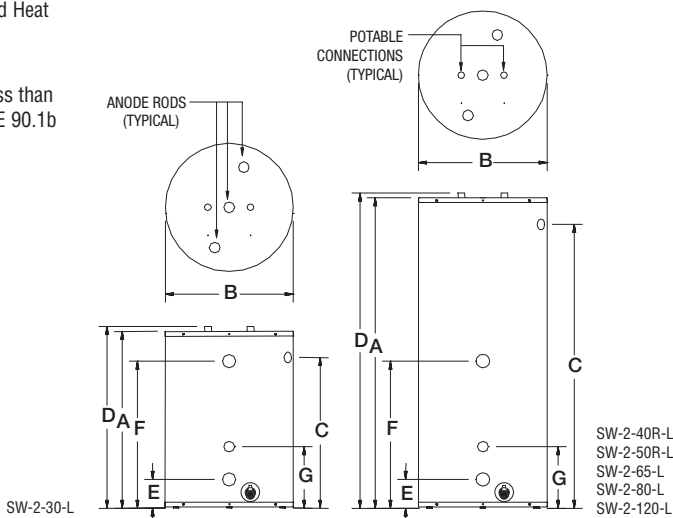


Photo of SW-2-65-L

PowerStor Series® Single-Wall Indirect Models

DIMENSIONS IN INCHES

Model Number	Gallon Capacity	A Floor to Heater Top	B Jacket Dia.	C Floor to T&P Conn.	D Floor to Water Conn.	E Floor to Exchanger Outlet	F Floor to Exchanger Inlet	G Floor to Aquastat	Approx. Shipping Weight (lbs)
SW-2-30-L	30	33 ⁵ / ₈	22	28 ¹ / ₄	34 ³ / ₈	5 ⁵ / ₈	27 ¹ / ₂	11 ¹ / ₂	164
SW-2-40R-L	38	41 ¹ / ₈	22	34 ³ / ₈	41 ⁷ / ₈	5 ⁵ / ₈	27 ¹ / ₂	11 ¹ / ₂	185
SW-2-50R-L	48	46 ¹ / ₄	22	40 ¹ / ₈	47	5 ⁵ / ₈	27 ¹ / ₂	11 ¹ / ₂	195
SW-2-65-L	60	59 ¹ / ₄	22	53 ¹ / ₈	60	5 ⁵ / ₈	27 ¹ / ₂	11 ¹ / ₂	225
SW-2-80-L	75	59	24	52 ⁷ / ₈	59 ³ / ₄	5 ⁵ / ₈	27 ¹ / ₂	11 ¹ / ₂	250
SW-2-120-L	116	62 ¹ / ₂	28 ¹ / ₄	55 ³ / ₄	63 ¹ / ₄	6 ⁵ / ₈	28 ¹ / ₂	11 ¹ / ₂	370

DOE Water Heater Performance

Model Number	Maximum First Hour Rating (Gal.) @		Continuous Draw Rating (Gal./Min.) @		Approximate Boiler Output Needed for Ratings (BTU/Hr.)
	140°F	115°F	140°F	115°F	
SW-2-30-L	279	429	4.2	6.7	220,000
SW-2-40R-L	288	438	4.2	6.7	220,000
SW-2-50R-L	297	447	4.2	6.7	220,000
SW-2-65-L	306	456	4.2	6.7	220,000
SW-2-80-L	321	470	4.2	6.7	220,000
SW-2-120-L	357	507	4.2	6.7	220,000

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

AHRI Water Heater Ratings

Model Number	First Hour Delivery	Continuous Draw Rating @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Heat Req. Rate (BTU/Hr.)	Heat Source Flow Rate (Gal./Min.)
SW-2-30-L	255	235	1.2	157,000	13.7
SW-2-40R-L	260	235	1.1	157,000	13.7
SW-2-50R-L	265	235	0.9	157,000	13.7
SW-2-65-L	275	235	0.7	157,000	13.7
SW-2-80-L	295	235	0.6	157,000	13.7
SW-2-120-L	325	235	0.4	157,000	13.7

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.



Residential PowerStor2™ Series® Double-Wall Indirect Models

- Heat Exchanger—Double-wall 1½" O.D. enamel coated (Vitraglas®) steel coil
- Head Loss—Less than 5 ft. of Head Loss with flows up to 10 GPM
- Vitraglas® Lining
- Hydrojet® Total Performance System
- Water Connections—¾" NPT true dielectric fittings
- 2" Non-CFC Foam Insulation
- Surface-Mount Thermostat
- Two Protective Magnesium Anode Rods
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Limited Lifetime Warranty on Tank and Heat Exchanger
- AHRI Certified
- Standard Heat Loss—Less than 1/2 °F per Hour (ASHRAE 90.1b Current Standard)

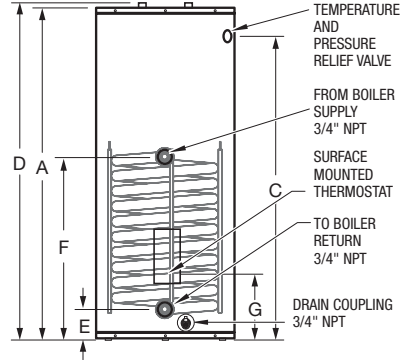
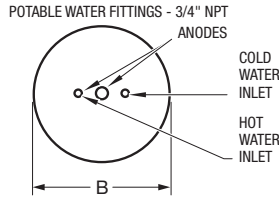


Photo of DW-2-50-L

PowerStor2™ Series® Double-Wall Indirect Models

DIMENSIONS IN INCHES

Model Number	Gallon Capacity	A Floor to Heater Top	B Jacket Dia.	C Floor to T&P Conn.	D Floor to Water Conn.	E Floor to Boiler Return	F Floor to Boiler Supply	G Floor to Thermostat	Approx. Shipping Weight (lbs)
DW-2-40-L	38	41	22	34 ³ / ₈	41 ⁷ / ₈	5 ³ / ₈	27 ¹ / ₂	11 ¹ / ₂	195
DW-2-50-L	48	46 ¹ / ₄	22	40 ¹ / ₈	47 ¹ / ₄	5 ³ / ₈	27 ¹ / ₂	11 ¹ / ₂	205
DW-2-65-L	64	59	22	53 ¹ / ₈	60	5 ³ / ₈	27 ¹ / ₂	11 ¹ / ₂	235
DW-2-80-L	75	59	24	52 ⁷ / ₈	59 ³ / ₄	5 ³ / ₈	27 ¹ / ₂	11 ¹ / ₂	255

AHRI Water Heater Ratings

Model Number	First Hour Delivery	Continuous Draw Rating @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Minimum Heat Req. Rate (BTU/Hr.)	Minimum Heat Source Flow Rate (Gal./Min.)
DW-2-40-L	123	98	1.1	65,000	8.0
DW-2-50-L	133	98	0.9	65,000	8.0
DW-2-65-L	148	98	0.7	65,000	8.0
DW-2-80-L	158	98	0.6	65,000	8.0

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 Ratings (BTU/Hr.)
	140°F	115°F	140°F	115°F	
DW-2-40-L	80	122	0.9	1.6	55,000
DW-2-50-L	87	129	0.9	1.6	55,000
DW-2-65-L	96	138	0.9	1.6	55,000
DW-2-80-L	106	148	0.9	1.6	55,000

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



Residential

PowerStor Series® SS Stainless Steel Single-Wall Indirect Models

- 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—3/4" NPT female connections are located on the front for both the Boiler Supply and Boiler Return (1" NPT on RTV-119)
- 2" Non-CFC Foam Insulation
- Potable Water Connections—3/4" NPT dielectric fittings extend water heater life and eases installation (1/2" w NPT on RTV-119)
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- AHRI Certified

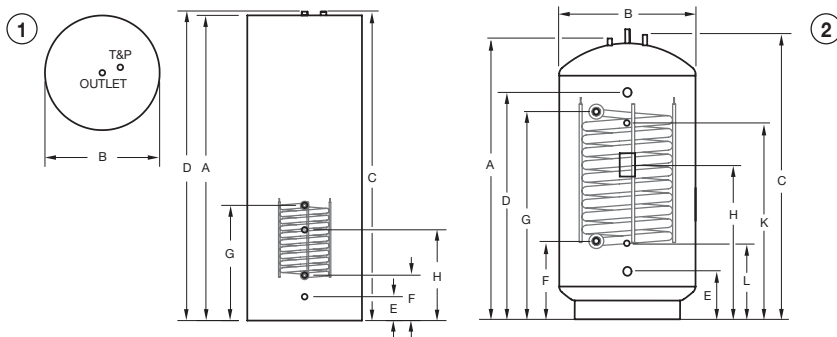


Photo of RTV-40-L

PowerStor Series® SS Stainless Steel Single-Wall Indirect Models

DIMENSIONS IN INCHES

Model Number	Gal. Cap.	A Floor to Heater Top	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	K Floor to Spare 3/4" Hot Water Conn.	L Floor to Spare 3/4" Cold Water Conn.	Approx. Shipping Weight
RTV-40-L	40	35 ¹ / ₄	24	35 ¹ / ₂	35 ¹ / ₂	5	9 ¹ / ₂	24 ⁵ / ₈	19	—	—	83
RTV-52-L	52	45 ⁵ / ₈	24	45 ⁷ / ₈	45 ⁷ / ₈	5	9 ¹ / ₂	28 ³ / ₈	19	—	—	93
RTV-75-L	75	63 ⁷ / ₈	24	64 ¹ / ₈	64 ¹ / ₈	5	9 ¹ / ₂	28 ¹ / ₄	19	—	—	117
RTV-120-L	119	60 ⁵ / ₈	30 ¹ / ₄	61	49 ¹ / ₂	11 ¹ / ₄	17 ⁷ / ₈	45 ¹ / ₂	36	42 ³ / ₄	17 ⁷ / ₈	315

AHRI Water Heater Ratings

Model Number	First Hour Delivery	Continuous Draw @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Min. Heat Required Rate (BTU/Hr.)	Min. Heat Source Flow Rate (Gal./Min.)
RTV-40-L	158	133	0.9	88,000	8.0
RTV-52-L	200	165	0.7	113,000	8.0
RTV-75-L	225	165	0.5	113,000	8.0
RTV-120-L	360	280	0.6	195,000	11.0

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

Notes:

- 1) Inlet water temperature based on 50°F.
- 2) RTV-119 supplied with 2 extra plugged tappings (see manual).
Height to top spare plug is 41³/₈".
Height to bottom spare plug is 17".
- 3) RTV-119 equipped with steel casing.
All potable water connections are 3/4" NPT (1/2" on RTV-119).
3/4" Aquastat tapping.
3/4" T&P valve tapping.



Residential Storage Tank Models

- Vitraglas® Lining
- Hydrojet® Total Performance System
- Water Connections—3/4" NPT true dielectric fittings (AST-120 has 1" NPT Connections)
- 2" Non-CFC Foam Insulation
- Fully Automatic Controls
- Protective Magnesium Anode Rod
- Boiler Return Is 3/4"
- Thermal Feet
- T&P Relief Valve Opening
- Brass Drain/Return Valve (3/4")

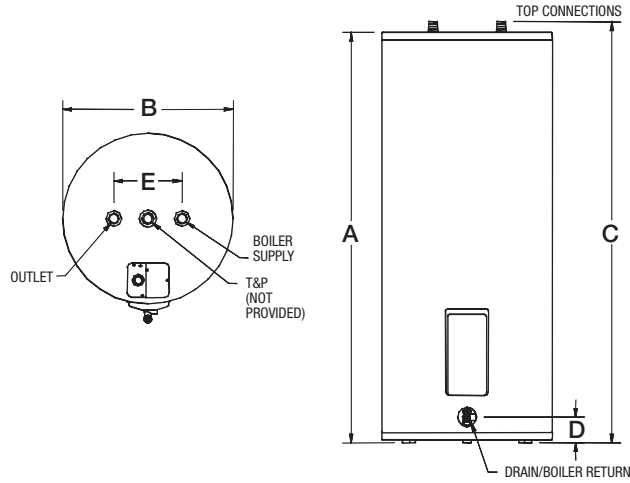


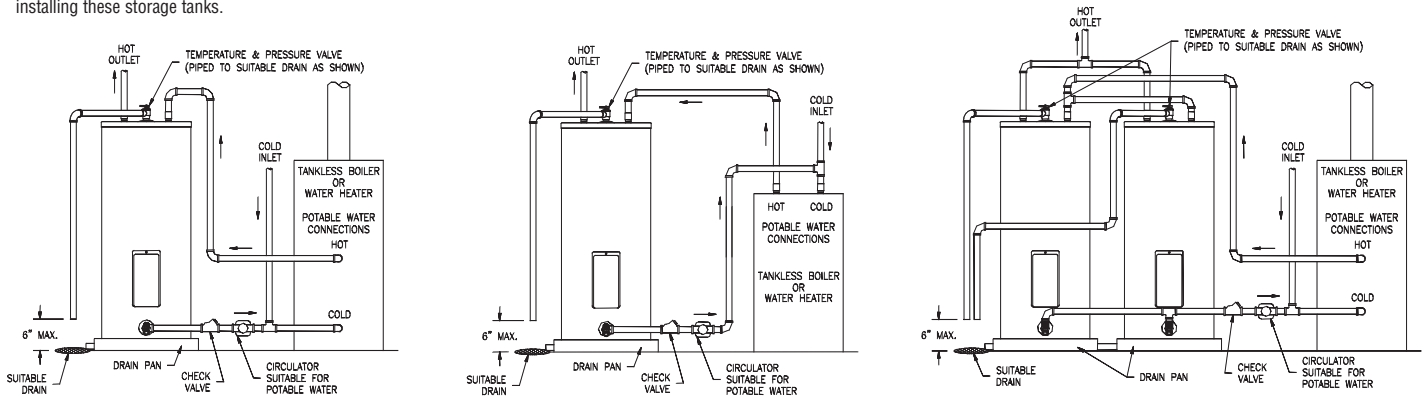
Photo of AST-50-6

Storage Tank Models

DIMENSIONS IN INCHES

Model Number	Gallon Capacity	A Floor to Heater Top	B Jacket Dia.	C Floor to Top Water Conn.	D Floor to Drain/Boiler Return	E Outlet	F Heat Source Supply	G Heat Source Return	Approx. Shipping Weight (lbs)
AST-40-6	40	46 ⁷ / ₈	20	47 ⁷ / ₈	3 ¹ / ₁₆	3/4	3/4	3/4	103
AST-50-6	50	46 ⁵ / ₁₆	22	47 ⁵ / ₁₆	3 ¹ / ₁₆	3/4	3/4	3/4	130
AST-80-6	80	58 ⁷ / ₈	24	59 ⁷ / ₈	3 ¹ / ₁₆	3/4	3/4	3/4	183
AST-120-6	119	62 ⁷ / ₈	28 ¹ / ₄	63 ⁷ / ₈	3 ¹ / ₁₆	1	1	3/4	305

Note: Circulator pump and temperature pressure relief valve are NOT included. We recommend you use a stainless steel or low lead circulator pump and relief valve of your choice when installing these storage tanks.



The Bradford White MAGNUM Series®

94/95



Big Solution for Big Demands

Bradford White commercial water heaters provide durability, energy efficiency, and exceptional performance you can rely on.

If you're selecting the water heating equipment for an apartment complex, restaurant, laundromat, hotel, school, manufacturing plant or any other business with a constant high demand for hot water, the Bradford White Magnum Series of commercial water heaters can fill all your requirements. Bradford White offers an extensive and comprehensive selection of water heating products for commercial applications. Our commercial and industrial models, known as the MAGNUM Series, include gas and electric light-duty versions, a full complement of high input Energy Saver units, Ultra High Efficiency unit (eF Series), instantaneous models, booster units and storage tanks. Each and every one is designed and built to the most exacting quality specifications for durability, energy-efficiency and top performance.

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RightSpec® - Interactive Sizing and Cross Reference

RightSpec[®]
Sizing Software

RightSpec® commercial sizing and specifying guide offers many unique features and upgrades. You'll find it easy to use with complete specifications on the entire Residential and Magnum series line of commercial water heaters. The program enables you to determine the correct commercial model for any application including restaurants, apartment complexes and laundromats.

This interactive program includes a comprehensive cross reference guide that makes replacing any commercial or residential water heater with a Bradford White model quick and easy. You simply enter the model you wish to replace and the software will provide a Bradford White solution.



*Also available
as an APP!*

Scan the QR code to download the RightSpec® Cross-Reference Guide or any of our FREE Apps!
iPad/iPhone & Android Compatible

With RightSpec®, available on the web, you'll have the sizing solution you need in a fraction of the time it took before.

Visit Bradford White's Interactive sizing and cross reference program at:
www.bradfordwhite.com

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www.bradfordwhite.com

Committed to American Manufacturing, Wholesale Distribution, and Professional Installation.

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FPC-0516



Commercial Gas

Light Duty Atmospheric Vent High Input Models

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Defender Safety System® featuring the patented advanced ScreenLok® Technology flame arrester design (LG250H653N model only)
 - Resettable Thermal Switch
 - Maintenance-Free
 - Sight Window
 - Pedestal Base
- Hydrojet 2™ Total Performance System
 - Vitraglas® Lining
 - Side Connections—3/4" (19mm) NPT
 - Non-CFC Foam Insulation
 - Water Connections
 - Hand Hole Cleanout
 - Protective Magnesium Anode Rod
 - 4" (107mm) "Snap Lock" Draft Diverter
 - T&P Relief Valve
 - Low Restriction Brass Drain Valve
 - Thermostatic Mixing Valve (ASSE Approved) (LG155H803N only)

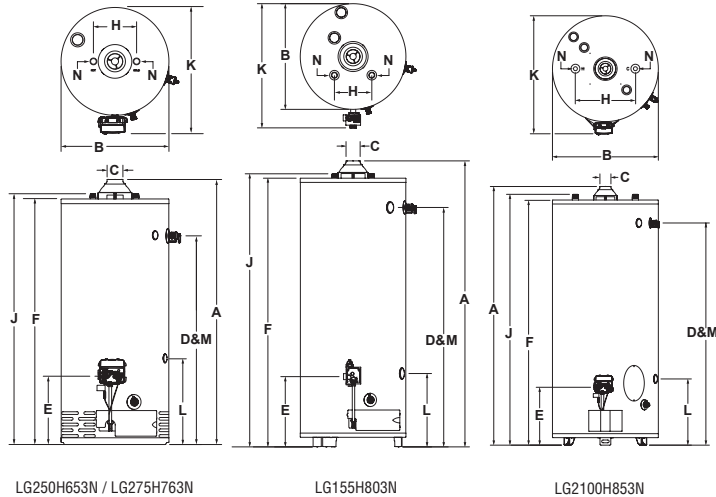


Photo of LG2100H853N

Light Duty Atmospheric Vent High Input Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS					Recovery 100°F Rise*		A	B	C	D	E	F	H	J	K	L	M	N	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. Imp. GPH	Nat Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	C/L of Water Conn.	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	NPT	
LG250H653N	48	65,000	110	0.60	63	53	60	22	4	49 ¹⁵ / ₁₆	13	56 ⁵ / ₈	11	57 ⁷ / ₈	26	13 ¹ / ₂	49 ¹⁵ / ₁₆	3/4	193
LG155H803N	55	80,000	N/A	N/A	78	65	59 ¹ / ₂	22	4	49 ⁷ / ₈	14 ¹³ / ₁₆	55 ¹⁵ / ₁₆	8	57 ⁷ / ₈	25 ⁷ / ₈	15 ⁷ / ₁₆	49 ⁷ / ₈	3/4	207
LG275H763N	75	76,000	N/A	N/A	74	62	62 ⁵ / ₈	24	4	51 ⁷ / ₈	15	59	11	60 ⁷ / ₁₆	27 ¹ / ₄	16 ⁵ / ₈	51 ⁷ / ₈	1	263
LG2100H853N	100	85,000	N/A	N/A	82	69	69	28 ¹ / ₄	4	59 ⁵ / ₁₆	15 ⁷ / ₁₆	65 ¹ / ₂	16	66 ¹⁵ / ₁₆	31 ¹ / ₂	17 ¹¹ / ₁₆	50 ⁵ / ₈	1 ¹ / ₄	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. LG2100H853N model features hand hole cleanout.

Energy Factor and First Hour Rating are based on the latest AHRI directory listings. NSF kits available.

Model Number	Input BTU/Hr.	Recovery 100°F Rise*	
		LP U.S. Imp. GPH	LP Imp. GPH
LG250H653X	61,000	59	49
LG155H803X	78,000	76	63
LG275H763X	76,000	74	62
LG2100H853X	88,000	85	71



Commercial Gas

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 Restriction Brass Drain Valve

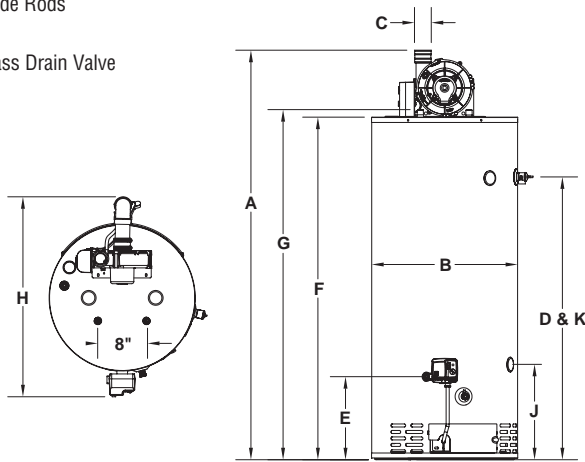


Photo of LC2PV50H763N

Light Duty High Efficiency eF Series® Power Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS AND LIQUID PROPANE GAS MODELS			Recovery 90°F Rise*	A	B	C	D	E	F	G	H	J	K	
Model Number	Gal. Cap.	Input BTU/Hr.	U.S. GPH	Floor to Vent Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	Approx. Shipping Weight (lbs)
LC2PV50H763N	50	76,000	83	67 1/4	24	2	46 1/2	13 5/8	56 1/4	57 1/2	27 3/8	15 5/8	46 1/2	225

Propane models feature a Titanium Stabilized Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X". Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

* Based on 90.5% Thermal Efficiency.

LC2PV50H763N	2" Vent Pipe	3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length	†50 ft.	†120 ft.	†180 ft.
Min. Equivalent Length	7 ft.	15 ft.	15 ft.
Number of 90° Elbows	1	45 ft.	115 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.



Commercial Gas Light Duty TTW® Power Vent Models

- 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 arrestor 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
- Protective Magnesium Rod
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Thermostatic Mixing Valve (ASSE Approved) (LG1PV55)

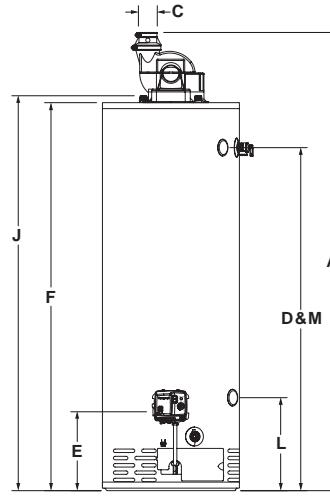
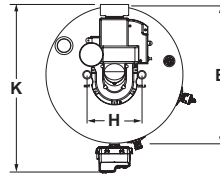


Photo of LG2PV50H653N

Light Duty TTW® Power Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS					Recovery 100°F Rise*		A	B	C	D	E	F	H	J	K	L	M	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	C/L of Water Conn.	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Onlet	
LG2PV50H653N	48	65,000	112	0.70	63	52	66 ¹ / ₈	22	3 or 4	50 ¹ / ₈	11 ³ / ₄	56 ³ / ₈	11	57 ³ / ₄	26 ³ / ₄	13 ¹ / ₂	50 ¹ / ₈	186
LG1PV55H783N	55	78,000	N/A	N/A	76	63	64 ³ / ₁₆	22	3 or 4	47 ¹⁵ / ₁₆	11 ¹ / ₂	54 ⁵ / ₈	8	56	26 ¹ / ₂	13 ³ / ₈	47 ¹⁵ / ₁₆	253
LG2PV75H763N	75	76,000	N/A	N/A	74	62	69 ⁷ / ₁₆	26	3 or 4	51 ¹ / ₂	13 ¹ / ₂	59 ¹ / ₂	11	60 ³ / ₄	30 ¹ / ₄	13 ³ / ₈	51 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.

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

	3" Vent Pipe	4" Vent Pipe
	LG2PV50H653N LG1PV55H753N LG2PV75H753N	
Max. Equivalent Length	†50 ft.	†180 ft.
Min. Equivalent Length	7 ft.	15 ft.
Number of	1	175 ft.
90° Elbows	2	170 ft.
	3	165 ft.

Subtract 5ft. for each additional 90° elbow

† For high altitude installations, consult the installation instructions.

LP GAS MODELS		Input BTU/Hr.	Recovery 100°F Rise*	
Model Number			LP U.S. GPH	LP Imp. GPH
LG2PV50H653X		58,000	56	47
LG1PV55H783X		78,000	76	63
LG2PV75H763X		75,500	73	61



Commercial Gas Light Duty Power Direct Vent Models

- 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 Restriction Brass Drain Valve

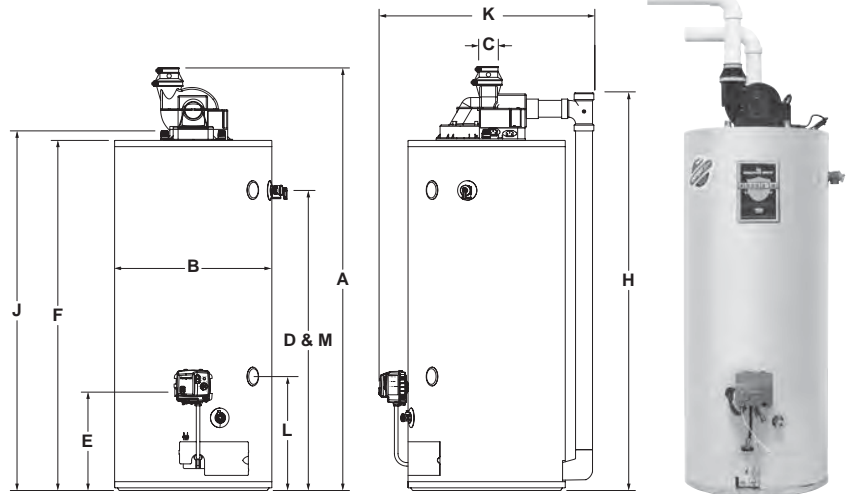


Photo of LG2PDV50H603N

Light Duty Power Direct Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS					Recovery 100°F Rise*		A	B	C	D	E	F	H	J	K	L	M	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Exhaust Outlet	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heat	Floor to Air Intake	Floor to Water Conn.	Depth	Floor to Space Heating Return	Floor to Space Heating Supply	
LG2PDV50H603N	48	60,000	105	0.68	58	48	69	22	3 or 4	52 1/4	13 5/8	58 3/4	67	60	30 5/8	15 3/4	52 1/4	205
LG2PDV75H803N	75	80,000	—	—	77	64	72	26	3 or 4	54 1/4	16 1/4	62 3/4	70 3/8	63 3/4	36	19	54 1/4	392

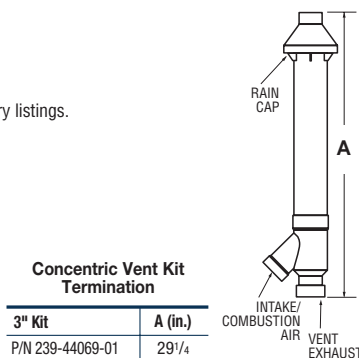
Propane models feature a Titanium Stabilized Stainless Steel propane burner.
For Propane (LP) models change suffix "N" to "X".

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.

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



LP GAS MODELS	Input BTU/Hr.	Recovery 100°F Rise*	
Model Number		LP U.S. GPH	LP Imp. GPH
LG2PDV50H603X	60,000	58	48
LG2PDV75H803X	78,000	76	63

	3" Vent Pipe		4" Vent Pipe	
	LG2PDV50H603N LG2PDV75H803N			
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	55 ft.	95 ft.	
	2	50 ft.	90 ft.	
	3	45 ft.	85 ft.	

Subtract 5ft. for each additional 90° elbow.



Commercial Gas Light Duty Direct Vent Models

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- 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 Restriction Brass Drain Valve

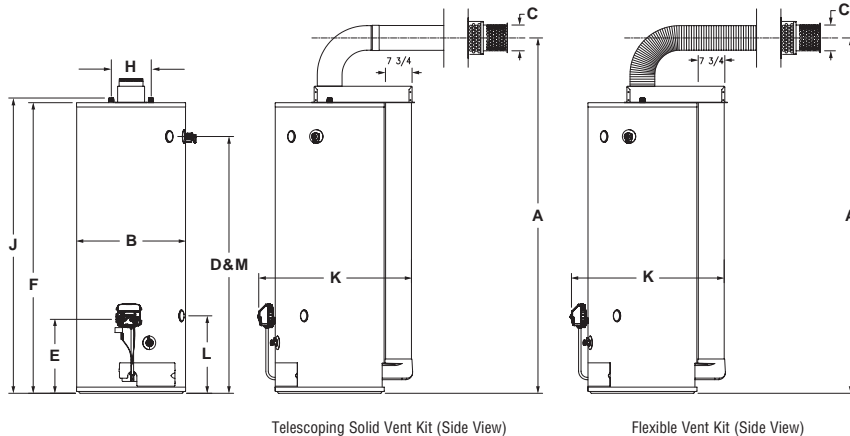


Photo of
LG2DV50H503N

Light Duty Direct Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS					Recovery 100°F Rise*		A	B	C	D	E	F	H	J	K	L	M	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to C/L of Vent	Jacket Dia.	Vent Size I.D.O.D.	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	C/L of Water Conn.	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	
LG2DV50H503N	48	50,000	93	0.60	47	39	72 ⁵ / ₁₆ min.	22	4 6	52 ¹ / ₄	15	59 ¹ / ₈	8	60 ¹ / ₈	31	15 ³ / ₄	52 ¹ / ₄	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.

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 4¹/₈" to 5¹/₈" Part No. 239-42516-00

Kit "G" Telescopes from 6¹/₈" to 9¹/₈" Part No. 239-42517-00

Kit "H" Telescopes from 13³/₈" to 23³/₈" Part No. 239-42514-00

Kit "I" Telescopes from 49¹/₈" to 95¹/₈" Part No. 239-42512-00

LP GAS MODELS		Input BTU/Hr.	Recovery 100°F Rise*	
Model Number			LP U.S. GPH	LP Imp. GPH
LG2DV50H503X		48,000	45	38



Commercial Gas

Light Duty Ultra Low NOx Atmospheric Vent High Input Models

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices
- Maintenance-Free
- Sight Window
- Hydrojet 2™ 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 Restriction 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)

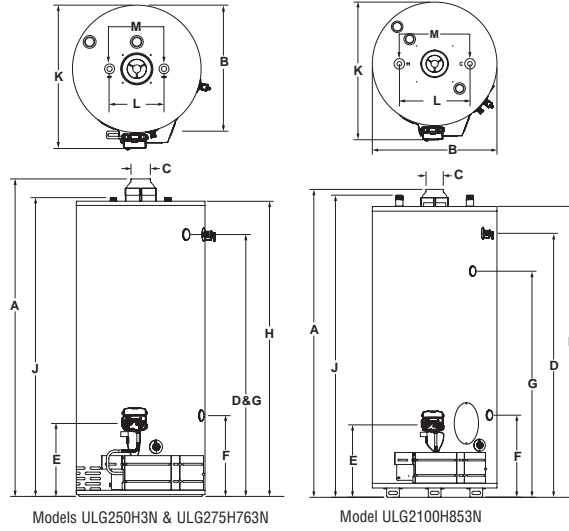


Photo of ULG275H763N

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

NATURAL GAS MODELS					Recovery 90°F Rise*		A	B	C	D	E	F	G	H	J	K	L	M	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Space Heating Return	Floor to Space Heating Outlet	Floor to Top of Heater	Floor to Water Conn.	Depth	C/L of Water Conn	NPT	
ULG250H553N	48	55,000	100	0.60	59	49	60 ⁵ / ₁₆	22	4	49 ⁷ / ₈	11 ¹ / ₂	13 ³ / ₈	49 ⁷ / ₈	56 ³ / ₈	57 ¹³ / ₁₆	25 ⁷ / ₁₆	11	3/4	193
ULG275H763N	75	76,000	N/A	N/A	74	62	64 ¹ / ₈	26	4	53 ⁹ / ₁₆	15 ¹ / ₈	16 ⁵ / ₈	53 ⁹ / ₁₆	60 ¹ / ₈	61 ¹ / ₈	29 ⁷ / ₁₆	11	1	263
ULG2100H853N	100	85,000	N/A	N/A	82	69	70 ⁷ / ₁₆	28 ¹ / ₄	4	60 ⁷ / ₁₆	16 ³ / ₄	18 ³ / ₄	51 ³ / ₄	68 ¹ / ₈	66 ⁵ / ₈	31 ¹ / ₂	16	1 ¹ / ₄	424

Available in Natural Gas only.
For 5 year models, change suffix from "3" to "5".
* Based on manufacturer's rated thermal efficiency.
Energy Factor and First Hour Rating are based on the latest AHRI directory listings.

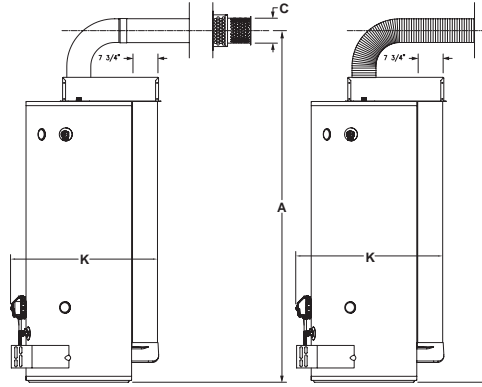
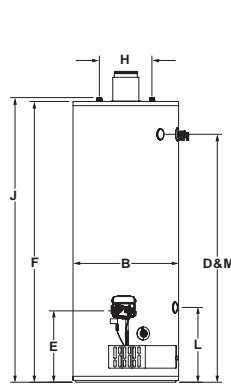


Commercial Gas Light Duty Ultra Low NOx Direct Vent Model

- Bradford White ICON System™
 - Enhanced Performance
 - Advanced Temperature Control System
 - Intelligent Diagnostics
 - Separate Immersed Thermowell
- 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 Restriction 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)



Photo of ULG2DV50H453N

Light Duty Ultra Low NOx Direct Vent Model

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

DIMENSIONS IN INCHES

NATURAL GAS MODELS					Recovery 100°F Rise*		A	B	C	D	E	F	H	J	K	L	M	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to C/L of Vent	Jacket Dia.	Vent Size I.D./O.D.	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	C/L of Water Conn.	Floor to Water Conn.	Depth	Floor to Space Heating Inlet	Floor to Space Heating Outlet	
ULG2DV50H453N	48	45,000	88	0.60	43	35	74 1/4 min.	22	4 6	52 1/4	15	59 1/4	11	60 1/8	30 5/8	15 3/4	52 1/4	201

Available in Natural Gas only. For 5 year models change suffix from "3" to "5".
* Based on manufacturer's rated recovery efficiency.
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 3/8" 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 1/8" Part No. 239-42514-00
- Kit "I" Telescopes from 49 3/4" to 95 3/8" Part No. 239-42512-00



Commercial Gas

Light Duty Ultra Low NOx TTW® Power Vent Model

- 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 Restriction 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)

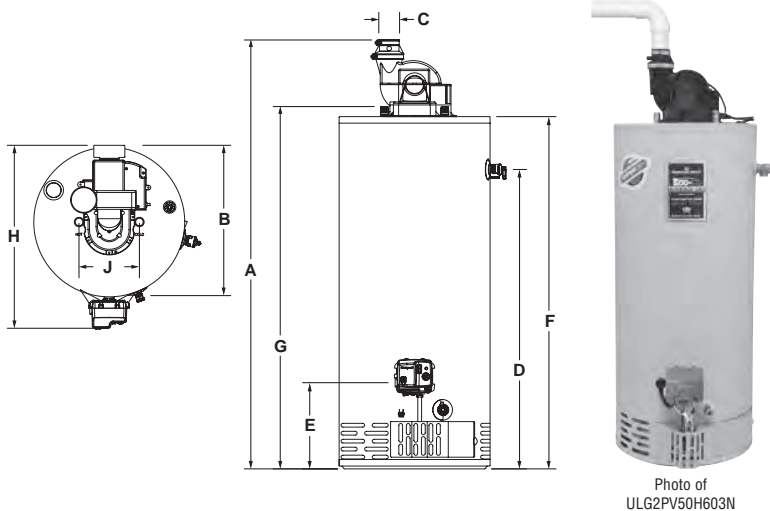


Photo of ULG2PV50H603N

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

NATURAL GAS MODELS					Recovery 100°F Rise*	A	B	C	D	E	F	G	H	J		
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. Imp. GPH	Nat Imp. GPH	Floor to Vent Conn.	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	Floor to Water Conn.	Depth	C/L of Water Conn.	Approx. Shipping Weight (lbs)
ULG2PV50H563N	48	56,000	99	0.70	54	54	66 ³ / ₈	22	3 or 4	49 ⁷ / ₈	11 ³ / ₄	56 ⁵ / ₈	58	26 ¹ / ₂	11	190
ULG2PV75H763N	75	76,000	N/A	N/A	74	62	69 ¹ / ₄	26	3 or 4	51 ⁷ / ₈	11 ³ / ₄	59 ¹ / ₂	61	30 ¹ / ₄	11	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.

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

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

† For high altitude installations, consult the installation instructions.



Commercial Gas

Light Duty Ultra Low NOx Power Direct Vent Models

- 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 Performance 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 Restriction Brass Drain Valve
- Complies with the Latest Ultra Low NOx Requirement (10 ng/J NOx Limit)

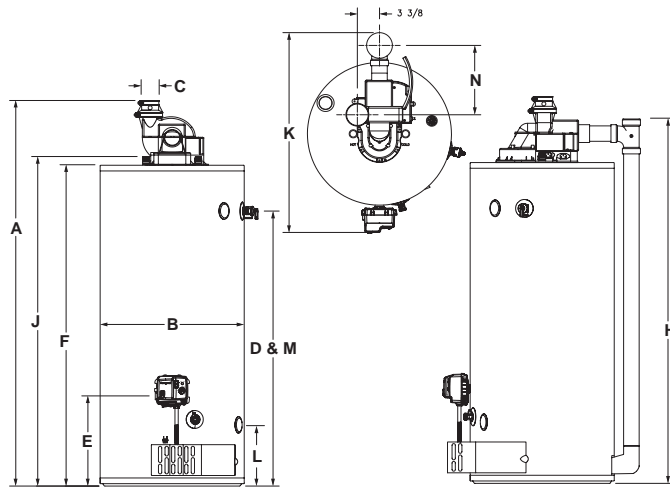


Photo of ULG2PDV50H503N

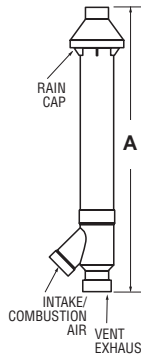
Light Duty Ultra Low NOx Power Direct Vent Model

DIMENSIONS IN INCHES

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

NATURAL GAS MODEL					Recovery 100°F Rise*	A	B	C	D	E	F	H	J	K	L	M	N	Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Input BTU/Hr.	1st Hour Rating (Gal.)	Energy Factor	Nat U.S. GPH	Nat Imp. GPH	Floor to Exhaust Outlet	Jacket Dia.	Vent Size	Floor to T&P Conn.	Floor to Gas Conn.	Floor to Top of Heater	Floor to Air Intake	Floor to Water Conn.	Depth	Floor to Space Heating Return	Floor to Space Heating Supply	C/L Distance From Intake to Exhaust	Approx. Shipping Weight (lbs)
ULG2PDV50H503N	48	50,000	92	0.68	48	40	69 1/4	22	3 or 4	52 1/4	13 7/8	69 1/4	58 3/4	60	32	15 3/4	52 1/4	9 1/4	201

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



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

	3" Vent Pipe	4" Vent Pipe
ULG2PDV50H503N		
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: 55 ft. 2: 50 ft. 3: 45 ft.	95 ft. 90 ft. 85 ft.

Subtract 5ft. for each additional 90° elbow.



Commercial Gas Commander Series™ Atmospheric Vent Models

114/115

- ICON HD™
- Operation Mode
- Service Mode
- Optional Air Intake Ducting
- Premix Power Burner
- Direct Spark Ignition
- Integrated Exhaust 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 (Excluding UCG-100H-399)
- Hand Hole Cleanout
- NSF Construction Available
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Ultra Low NOx Construction (14 ng/J NOx Emissions)
- CSA Certified Low Lead Content

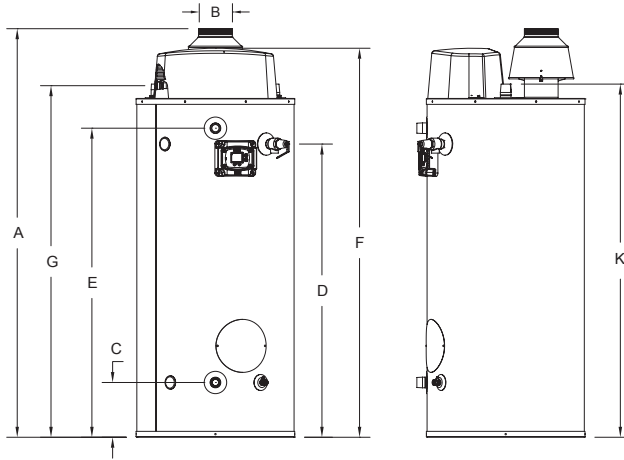
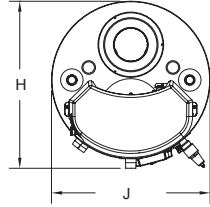


Photo of UCG-100H-199-3N

Commander Series™ Atmospheric Vent Models

DIMENSIONS IN INCHES

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

NATURAL GAS AND LIQUID PROPANE GAS MODELS			GPH Recovery at Degree Rise*			A	B	C	D	E	F	G	H	J	K	Water Conn. Dia.	Gas Conn. Dia.	Relief Valve Open	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Input BTU/Hr.	40°F 100°F 140°F			Floor to Top of Vent	Vent Dia.	Floor to Cold Water Inlet	Floor to T&P Conn.	Floor to Hot Water Outlet	Floor to Top of Heater	Floor to Gas Conn.	Depth	Width	Floor to Cold Water Inlet/Hot Water Outlet				
			UCG-80H-125-3N	80	125,000	308	123	88	63	5	10	44	47	61 1/4	55 3/4				
UCG-80H-199-3N	80	199,999	493	197	141	64 3/4	6	10	44	47	61 1/4	55 3/4	30	28 1/4	54 3/4	1 1/2	3/4	3/4	535
UCG-80H-270-3N	80	270,000	665	266	190	64 3/4	6	10	44	47	61 1/4	55 3/4	30	28 1/4	54 3/4	1 1/2	3/4	1	545
UCG-80H-399-3N	80	399,999	960	384	274	68 3/4	8	10	44	47	61 1/4	55 3/4	30	28 1/4	54 3/4	1 1/2	3/4	1	545
UCG-100H-199-3N	100	199,999	493	197	141	73 1/4	6	10	52 1/2	55 1/2	69 3/4	63 1/4	30	28 1/4	63 1/4	1 1/2	3/4	3/4	632
UCG-100H-270-3N	100	270,000	665	266	190	73 1/4	6	10	52 1/2	55 1/2	69 3/4	63 1/4	30	28 1/4	63 1/4	1 1/2	3/4	1	632
UCG-100H-399-3N	98	399,999	994	398	284	77 1/4	8	10	52 1/2	55 1/2	69 3/4	63 1/4	30	28 1/4	63 1/4	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). Natural gas models comply with the latest Ultra Low NOx requirements (14 ng/J or less). Amp Draw range = 1.0 to 1.8 amps.

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)	20 ft.	50 ft.	75 ft.
UCG-80H-199-3(N,X)	20 ft.	50 ft.	75 ft.
UCG-100H-199-3(N,X)	20 ft.	50 ft.	75 ft.
UCG-80H-270-3(N,X)	20 ft.	50 ft.	75 ft.
UCG-100H-270-3(N,X)	20 ft.	50 ft.	75 ft.
UCG-80H-399-3(N,X)	N/A	25 ft.	50 ft.
UCG-100H-399-3N	N/A	25 ft.	50 ft.

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





Commercial Gas Electronic Ignition Water Heaters

- 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 Restriction 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

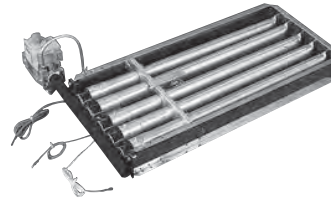
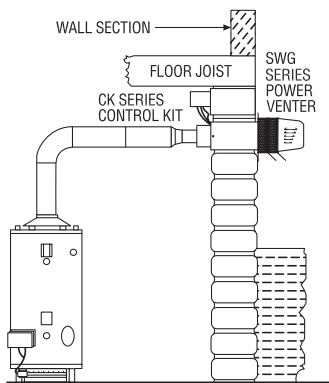


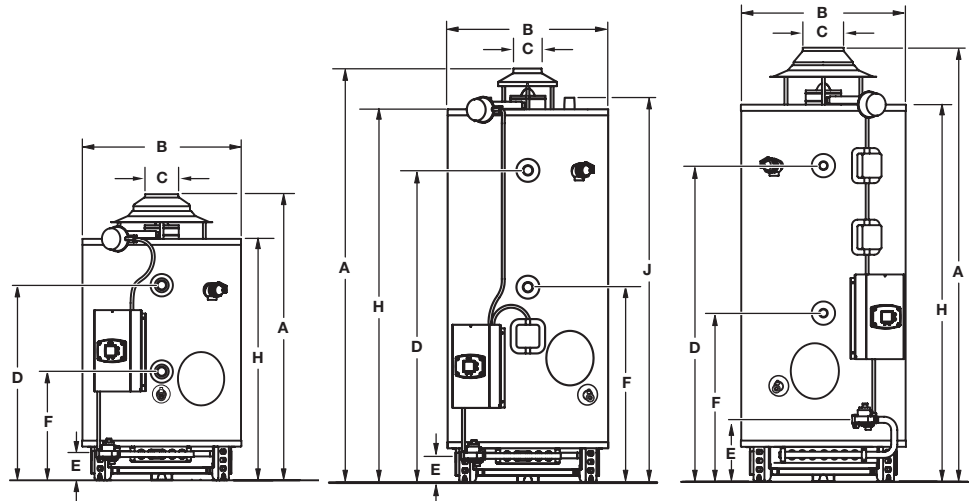
Photo of D-80T-180-3N

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)
D-80L-(399, 450, 505)



Commercial Gas Electronic Ignition Models

Electronic Ignition Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS						A	B	C	D	E	F	H	J				Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery at °F Rise*			Top Vent Height	Jacket Dia.	Vent Dia.	Front Hot Water Conn.	Floor to Gas Conn.	Front Cold Water Conn.	Floor to Top of Heater	Floor to Top Water Conn.	Water Conn.	Gas Conn. Dia.	Relief Valve Open.	Std.	ASME
			40°	100°	140°													
D-38T-155-3N+	38	155,000	376	150	107	51	28 ¹ / ₄	6	35	4 ⁵ / ₈	19 ³ / ₈	43 ¹ / ₂	—	1 ¹ / ₂ (F)	3/4	3/4	438	—
D-75T-125-3N	75	125,000	303	121	86	72 ¹ / ₄	28 ¹ / ₄	5	54 ¹ / ₂	4 ³ / ₄	34	65	67 ¹ / ₈	1 ¹ / ₂ (T&F)	3/4	3/4	520	—
D-75T-160-3N	75	160,000	389	155	111	72 ¹ / ₄	28 ¹ / ₄	6	54 ¹ / ₂	4 ³ / ₄	34	65	67 ¹ / ₈	1 ¹ / ₂ (T&F)	3/4	3/4	520	—
D-80T-180-3N	80	180,000	436	175	124	71 ⁷ / ₈	28 ¹ / ₄	6	56	4 ³ / ₄	19 ¹ / ₂	64 ¹ / ₂	66 ¹ / ₄	1 ¹ / ₂ (T&F)	3/4	3/4	540	—
D-80T-199-3N	80	199,999	485	194	139	71 ⁷ / ₈	28 ¹ / ₄	6	56	4 ³ / ₄	19 ¹ / ₂	64 ¹ / ₂	66 ¹ / ₄	1 ¹ / ₂ (T&F)	3/4	3/4	540	—
D-80T-250-3N(A)	80	250,000	606	242	173	71 ⁷ / ₈	28 ¹ / ₄	6	56	4 ³ / ₄	19 ¹ / ₂	64 ¹ / ₂	66 ¹ / ₄	1 ¹ / ₂ (T&F)	3/4	1	540	590
D-100T-199-3N	98	199,999	485	194	139	83 ³ / ₈	28 ¹ / ₄	6	67	4 ³ / ₄	19 ¹ / ₂	75 ¹ / ₂	77 ¹ / ₄	1 ¹ / ₂ (T&F)	3/4	3/4	610	—
D-100T-250-3N(A)	98	250,000	606	242	173	83 ³ / ₈	28 ¹ / ₄	6	67	4 ³ / ₄	19 ¹ / ₂	75 ¹ / ₂	77 ¹ / ₄	1 ¹ / ₂ (T&F)	3/4	1	610	690
D-75T-300-3N(A)	75	300,000	727	291	208	74 ³ / ₈	28 ¹ / ₄	7	54 ¹ / ₈	10 ¹ / ₂	29	65 ³ / ₄	—	1 ¹ / ₂ (F)	3/4	1	590	645
D-65T-370-3N(A)	65	370,000	897	359	256	73 ¹ / ₄	28 ¹ / ₄	8	54 ¹ / ₈	10 ¹ / ₂	29	64 ³ / ₄	—	1 ¹ / ₂ (F)	¹ / ₂ (LP)	1	665	720
D-65T-399-3N(A)†	65	399,999	970	388	277	73 ¹ / ₄	28 ¹ / ₄	8	54 ¹ / ₈	10 ¹ / ₂	29	64 ³ / ₄	—	1 ¹ / ₂ (F)	1(N)	1	665	720
D-80T-425-3N(A)	80	425,000	1030	412	294	82 ³ / ₄	28 ¹ / ₄	10	64 ¹ / ₂	10 ¹ / ₂	29	75 ¹ / ₂	—	1 ¹ / ₂ (F)	¹ / ₂ (LP)	1	750	800
D-80T-505-3N(A)	80	505,000	1178	471	337	82 ³ / ₄	28 ¹ / ₄	10	64 ¹ / ₂	10 ¹ / ₂	29	75 ¹ / ₂	—	1 ¹ / ₂ (F)	¹ / ₂ (LP)	1	750	800

Electronic Ignition Models

DIMENSIONS IN INCHES

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

NATURAL GAS MODELS						A	B	C	D	E	F	H	J				Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery at °F Rise*			Top Vent Height	Jacket Dia.	Vent Dia.	Front Hot Water Conn.	Floor to Gas Conn.	Front Cold Water Conn.	Floor to Top of Heater	Floor to Top Water Conn.	Water Conn.	Gas Conn. Dia.	Relief Valve Open.	Std.	ASME
			40°	100°	140°													
D-100S-199-3N	100	199,999	485	194	139	76 ³ / ₄	28 ¹ / ₄	6	60 ³ / ₈	4 ⁵ / ₈	20 ³ / ₄	67 ⁷ / ₈	70	1 ¹ / ₂ (T&F)	3/4	3/4	667	—
D-100S-250-3N(A)	100	250,000	606	242	173	76 ³ / ₄	28 ¹ / ₄	6	60 ³ / ₈	4 ⁵ / ₈	20 ³ / ₄	67 ⁷ / ₈	70	1 ¹ / ₂ (T&F)	3/4	1	667	702
D-100L-199-3N	100	199,999	485	194	139	75	30 ¹ / ₄	6	56 ¹ / ₂	4 ¹ / ₂	23 ¹ / ₂	64 ³ / ₄	67	1 ¹ / ₂ (T&F)	3/4	3/4	725	—
D-100L-250-3N(A)	100	250,000	606	242	173	75	30 ¹ / ₄	6	56 ¹ / ₂	4 ¹ / ₂	23 ¹ / ₂	64 ³ / ₄	67	1 ¹ / ₂ (T&F)	3/4	1	725	765
D-100L-270-3N(A)†	100	270,000	655	262	187	75	30 ¹ / ₄	6	56 ¹ / ₂	4 ¹ / ₂	23 ¹ / ₂	64 ³ / ₄	67	1 ¹ / ₂ (T&F)	3/4	1	725	765
D-100L-300-3N(A)	100	300,000	727	291	208	75 ³ / ₈	30 ¹ / ₄	7	56 ¹ / ₂	4 ¹ / ₂	23 ¹ / ₂	64 ³ / ₄	67	1 ¹ / ₂ (T&F)	3/4	1	725	765
D-80L-399-3N(A)	80	399,999	970	388	277	71 ¹ / ₂	30 ¹ / ₄	8	51 ¹ / ₂	10 ¹ / ₂	23 ¹ / ₂	60 ¹ / ₄	—	1 ¹ / ₂ (F)	¹ / ₂ (LP)	1	800	835
D-80L-450-3N(A)	80	450,000	1091	436	312	69	30 ¹ / ₄	10	51 ¹ / ₂	10 ¹ / ₂	23 ¹ / ₂	60 ¹ / ₄	—	1 ¹ / ₂ (F)	¹ / ₂ (LP)	1	800	835
D-80L-505-3N(A)	80	505,000	1224	489	350	69	30 ¹ / ₄	10	51 ¹ / ₂	10 ¹ / ₂	23 ¹ / ₂	60 ¹ / ₄	—	1 ¹ / ₂ (F)	¹ / ₂ (LP)	1	800	835

(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".

* Based on manufacturer's rated recovery efficiency.
 ** Recoveries are based on 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.

LP GAS MODELS	Input BTU/Hr.	GPH Rec.		
		40°	100°	140°
D-75T-160-3X	155,000	376	150	107
D-80T-250-3X	235,000	570	228	163
D-100T-250-3X	235,000	570	228	163
D-80L-399-3X	375,000	909	364	260
D-80L-450-3X	425,000	1030	412	294
D-80L-505-3X	475,000	1152	461	329



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 Restriction Brass Drain Valve

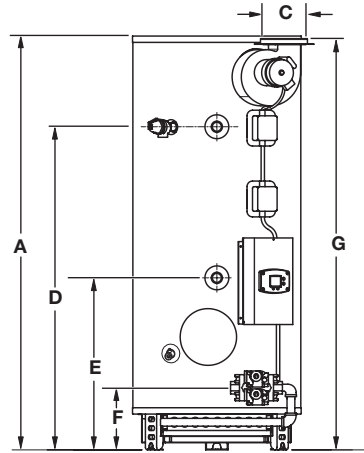
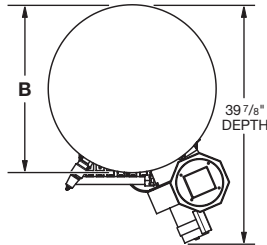


Photo of D-65T-625-3NA

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

NATURAL GAS MODELS						A	B	C	D	E	F	G				
Model Number	Gal. Cap.	Nat. & LP Input BTU/Hr.	GPH Recovery at °F Rise*			Floor to Heater Top	Jacket Dia.	Vent Dia.	Floor to Hot Water Conn.	Floor to Cold Water Conn.	Floor to Gas Conn.	Floor to Vent Height	Gas Conn. Dia.	Relief Valve Open	Approx. Shipping Weight (lbs)	
			40°	100°	140°										Std.	ASME
D-65T-625-3N(A)	65	625,000	1515	606	433	69 ³ / ₈	28 ¹ / ₄	8	54 ¹ / ₈	28 ⁷ / ₈	10 ¹ / ₂	68 ⁷ / ₈	1†	1	720	775
D-80T-725-3N(A)	80	725,000	1757	703	502	79 ⁵ / ₈	28 ¹ / ₄	8	64 ¹ / ₄	28 ⁷ / ₈	10 ¹ / ₂	79 ¹ / ₈	1†	1	800	880

(A) = ASME Code Available
 For Propane Gas models change suffix "N" to "X".
 † LP Gas connection 3/4".
 * Based on manufacturer's rated recovery efficiency.
 ** Recoveries are based on Thermal Efficiencies of 80%.



Commercial Gas Millivolt Models

- No Electricity Required
- ASME Code Available on All Models above 200,000 BTU/Hr.
- Continuous pilot-ignition
- Piezo Igniter—Easy and quick lighting by the pilot burner by push button
- 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 Restriction Brass Drain Valve
- 3 Year Limited Tank Warranty



Photo of
DM-75T-125-3N

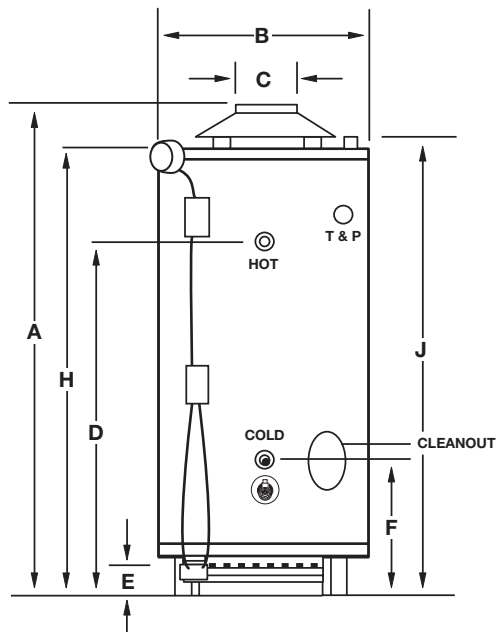
Water Connections

Top and Front

DM80T180, 199, 250
DM100T199, 250
DM75T125, 160

Top Front

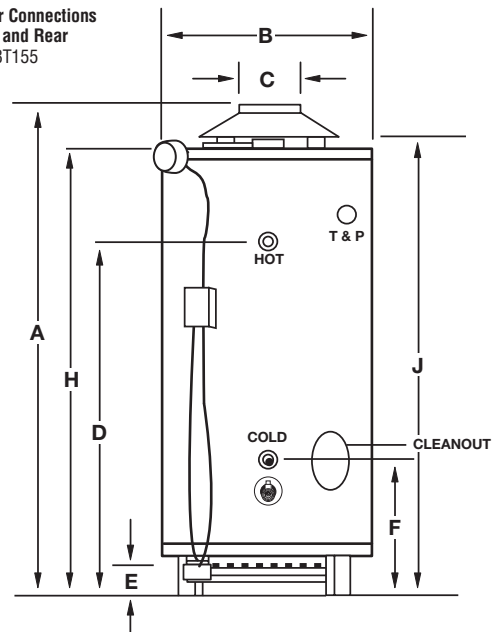
DM100L199, 250, 270
DM100S199, 250



Water Connections

Front and Rear

DM38T155





Commercial Gas Millivolt Models

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

NATURAL GAS MODELS			GPH Recovery at °F Rise*			A	B	C	D	E	F	H	J				Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Input BTU/Hr.	40°	100°	140°	Top Vent Height	Jacket Dia.	Vent Dia.	R/F Hot Water Conn.	Floor to Gas Conn.	R/F Cold Water Conn.	Floor to Top of Heater	Floor to Top Water Conn.	Water Conn.	Gas Conn. Dia.	Relief Valve Open.	Std.	ASME
			DM-38T-155-3N	38	155,000												368	147
DM-75T-125-3N	75	125,000	303	121	86	72 ¹ / ₄	28 ¹ / ₄	5	54 ¹ / ₂	4 ³ / ₄	34	65	67 ¹ / ₈	1 ¹ / ₂	3 ³ / ₄	3 ³ / ₄	520	—
DM-75T-160-3N	75	160,000	378	151	108	72 ¹ / ₄	28 ¹ / ₄	6	54 ¹ / ₂	4 ³ / ₄	34	65	67 ¹ / ₈	1 ¹ / ₂	3 ³ / ₄	3 ³ / ₄	520	—
DM-80T-180-3N	80	180,000	436	175	124	72 ³ / ₈	28 ¹ / ₄	6	56	4 ³ / ₄	19 ¹ / ₂	64 ¹ / ₂	66 ¹ / ₄	1 ¹ / ₂	3 ³ / ₄	3 ³ / ₄	540	—
DM-80T-199-3N	80	199,999	485	194	139	72 ³ / ₈	28 ¹ / ₄	6	56	4 ³ / ₄	19 ¹ / ₂	64 ¹ / ₂	66 ¹ / ₄	1 ¹ / ₂	3 ³ / ₄	3 ³ / ₄	540	—
DM-80T-250-3N(A)	80	250,000	606	242	173	72 ³ / ₈	28 ¹ / ₄	6	56	4 ³ / ₄	19 ¹ / ₂	64 ¹ / ₂	66 ¹ / ₄	1 ¹ / ₂	3 ³ / ₄	1	540	590
DM-100T-199-3N	98	199,999	485	194	139	83 ³ / ₈	28 ¹ / ₄	6	67	4 ³ / ₄	19 ¹ / ₂	75 ¹ / ₂	77 ¹ / ₄	1 ¹ / ₂	3 ³ / ₄	3 ³ / ₄	610	—
DM-100T-250-3N(A)	98	250,000	606	242	173	83 ³ / ₈	28 ¹ / ₄	6	67	4 ³ / ₄	19 ¹ / ₂	75 ¹ / ₂	77 ¹ / ₄	1 ¹ / ₂	3 ³ / ₄	1	610	690
DM-100L-199-3N	100	199,999	485	194	139	75	30 ¹ / ₄	6	56 ¹ / ₂	4 ¹ / ₂	23 ¹ / ₂	65	67	1 ¹ / ₂ (T&F)	3 ³ / ₄	3 ³ / ₄	725	—
DM-100L-250-3N(A)	100	250,000	606	242	173	75	30 ¹ / ₄	6	56 ¹ / ₂	4 ¹ / ₂	23 ¹ / ₂	65	67	1 ¹ / ₂ (T&F)	3 ³ / ₄	1	725	765
DM-100L-270-3N(A)†	100	270,000	655	262	187	75	30 ¹ / ₄	6	56 ¹ / ₂	4 ¹ / ₂	23 ¹ / ₂	65	67	1 ¹ / ₂ (T&F)	3 ³ / ₄	1	725	765
DM-100S-199-3N	100	199,999	485	194	139	76 ³ / ₄	30 ¹ / ₄	6	60 ¹ / ₂	4 ¹ / ₂	20 ³ / ₄	72 ¹ / ₈	75	1 ¹ / ₂ (T&F)	3 ³ / ₄	3 ³ / ₄	667	—
DM-100S-250-3N(A)	100	250,000	606	242	173	76 ³ / ₄	30 ¹ / ₄	6	60 ¹ / ₂	4 ¹ / ₂	20 ³ / ₄	72 ¹ / ₈	75	1 ¹ / ₂ (T&F)	3 ³ / ₄	1	667	702

- (A) = ASME Code Available
- (F) = Front Water Connection
- (T) = Top Water Connection
- † = Available in Natural Gas Only
For Propane Gas models change suffix "N" to "X".

For LowNOx compliance, place an "E" following the BTU Input identifier of the model number. Example: DM-75T-125E-3N

- * Based on manufacturer's rated recovery efficiency.
- ** Recoveries are based on Thermal Efficiencies of 80%.

LP GAS MODELS	Input BTU/Hr.	GPH Rec.		
		40°	100°	140°
DM-75T-160-3X	155,000	376	150	107
DM-80T-199-3X	190,000	461	184	132
DM-80T-250-3X	235,000	570	228	163
DM-100T-250-3X	235,000	570	228	163



Commercial Gas Ultra High Efficiency 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
- ASME Construction Available
- Electronic Controls
- Low-NOx Premix Power Burner
- Three Pass Flue System
- Flexible Venting Options
- Vitraglas® Lining
- Hydrojet® Sediment Reduction System
- Dielectric Fittings
- Non-CFC Foam Insulation
- Four Protective Magnesium Anode Rods (Except EF-100T-399)
- Two Powered Anode Rods and One Non-Powered Anode Rod in the EF-100T-399
- Hand Hole Cleanout
- Zero Inch Clearance to Combustibles
- NSF Construction Available
- T&P Relief Valve
- Low Restriction Brass Drain Valve
- Complies with the Latest Ultra-Low NOx Requirement (14 ng/J NOx Limit)

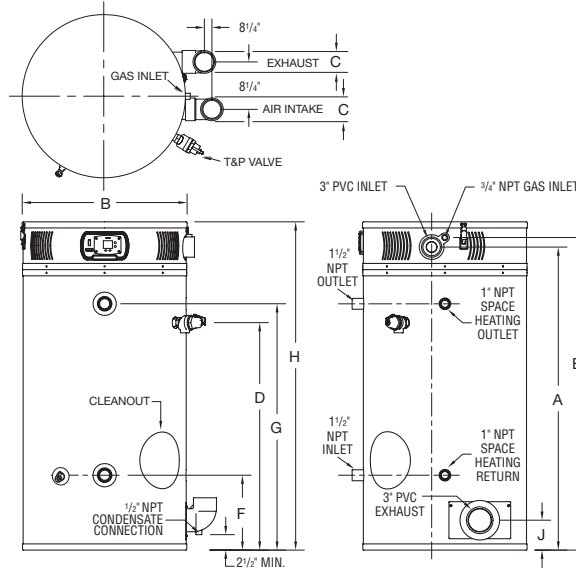


Photo of
EF-60T-199E-3N

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

NATURAL GAS AND LIQUID PROPANE GAS MODELS																		
Model Number	Gal. Cap.	Input BTU/Hr.	GPH Recovery at °F Rise			Floor to Air Intake	Jacket Dia.	Vent & Air Intake Size	Floor to T&P Valve Conn.	Floor to Gas Conn.	Cold Water Inlet Conn.	Hot Water Outlet Conn.	Floor to Top of Heater	Floor to Vent Conn.	Water Conn.	Gas Conn. Dia.	Relief Valve Open	Approx. Shipping Weight (lbs)
			40°	100°	140°													
EF-60T-125E-3N(A)	60	125,000	364	145	104	52 ¹ / ₂	28 ¹ / ₄	3	40	53 ¹ / ₂	12 ⁷ / ₈	42 ¹ / ₂	57	5	1 ¹ / ₂	3/4	3/4	570
EF-60T-150E-3N(A)	60	150,000	423	169	121	52 ¹ / ₂	28 ¹ / ₄	3	40	53 ¹ / ₂	12 ⁷ / ₈	42 ¹ / ₂	57	5	1 ¹ / ₂	3/4	3/4	570
EF-60T-199E-3N(A)	60	199,999	558	223	159	52 ¹ / ₂	28 ¹ / ₄	3	40	53 ¹ / ₂	12 ⁷ / ₈	42 ¹ / ₂	57	5	1 ¹ / ₂	3/4	3/4	570
EF-100T-150E-3N(A)	100	150,000	450	180	129	73 ¹ / ₈	28 ¹ / ₄	3	60	74 ³ / ₄	12 ⁷ / ₈	62 ¹ / ₂	77 ⁵ / ₈	5	1 ¹ / ₂	3/4	3/4	900
EF-100T-199E-3N(A)	100	199,999	597	239	171	73 ¹ / ₈	28 ¹ / ₄	3	60	74 ³ / ₄	12 ⁷ / ₈	62 ¹ / ₂	77 ⁵ / ₈	5	1 ¹ / ₂	3/4	3/4	900
EF-100T-250E-3N(A)	100	250,000	735	294	210	73 ¹ / ₈	28 ¹ / ₄	3	60	74 ³ / ₄	12 ⁷ / ₈	62 ¹ / ₂	77 ⁵ / ₈	5	1 ¹ / ₂	3/4	1	900
EF-100T-300E-3N(A)	100	300,000	836	335	239	73 ¹ / ₈	28 ¹ / ₄	3	60	74 ³ / ₄	12 ⁷ / ₈	62 ¹ / ₂	77 ⁵ / ₈	5	1 ¹ / ₂	3/4	1	900
EF-100T-399E-3N(A)	100	399,999	1127	451	322	73 ¹ / ₈	28 ¹ / ₄	3	60	74 ¹ / ₄	13	63	77 ⁵ / ₈	5	1 ¹ / ₂	1	1	950

(A) = ASME Code Available
 For Propane Gas models change suffix "N" to "X" and remove "E" from model number Example: EF-100T-150-3X.
 Note: The weight is the same for both ASME and Non-ASME models.
 NSF Compliance Kit—p/n 265-44542-04.
 ** Recoveries are based on the listed Thermal Efficiencies.



Commercial Gas Ultra High Efficiency Models

	EF-60T-125		EF-60T-150 EF-100T-150		EF-60T-199 EF-100T-199					
2" Vent Pipe	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.				
	EF-60T-125 EF-100T-150		EF-60T-150 EF-100T-199		EF-60T-199 EF-100T-250		EF-100T-300		EF-100T-399	
3" Vent Pipe	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.
	EF-60T-125 EF-100T-150		EF-60T-150 EF-100T-199		EF-60T-199 EF-100T-250		EF-100T-300		EF-100T-399	
4" Vent Pipe	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.

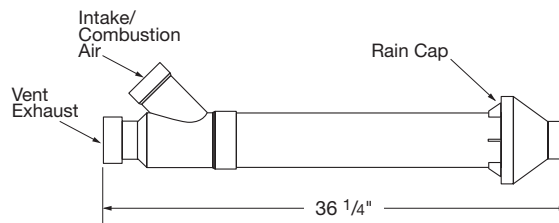
eF Series® Optional Equipment Features:

Maxitrol Gas Pressure Regulating Valve—Ensures proper supply pressure to eF unit of 7" to 11" W.C.(provided incoming pressure is between 1/2 and 2 psi). This can be ordered as a separate part, or as part of the heater. For the separate part, please use p/n 243-45517-00 (not available for use with the EF-100T-399).

NSF Compliance Option—p/n 265-44542-04

Low Gas Inlet Pressure Option—Pre-assembled to allow operation at lower inlet natural gas pressure.

Concentric Vent Terminal Kit—3" termination fitting provides for only one exit opening through wall or roof (p/n 239-44069-01).



p/n 239-44069-01
p/n 239-44069-02 (for 2" vent pipe only)



Commercial Electric Water Heaters

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, 20 and 30 gallon wall hung models is 6000W. All models have a maximum wattage of 3000 watts at 120 Volt. Incoloy® elements available for most inputs.

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

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 208V, 240V and 480V models are shipped standard three phase, non-simultaneous.

Can be converted to single phase and/or simultaneous operation in the field.

All 120V and 277V models are shipped standard single phase, non-simultaneous.

Can be converted to simultaneous operation in the field. Three phase 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 5000 watt.

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	Z	X**	Y**	Z**
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: LE250S3-3ge designator if wiring 208V with 5000, 5500 or 6000 watt.

† Available in non-simuNCWW, will give 240V with 4500W/4500W. This same heater can also be energized at 208V with reduced wattage of 3500W/3500W.

** Use "L" voltaltaneous only.

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



Commercial Electric ElectriFLEX LD™ (Light Duty) Upright Models

- 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

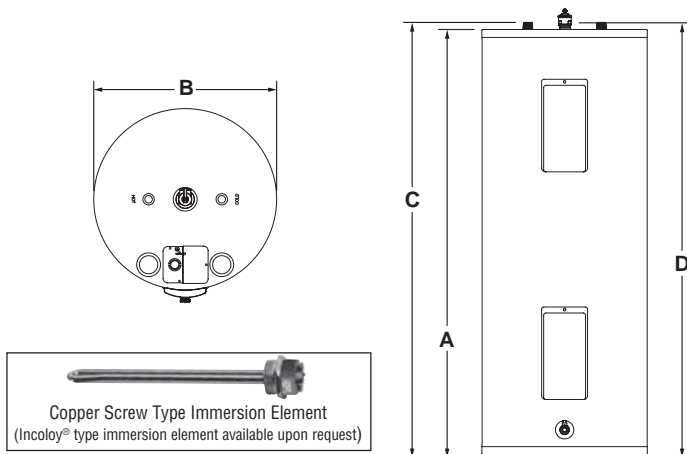


Photo of LE250S3-3

ElectriFLEX LD™ (Light Duty) Upright Models

DIMENSIONS IN INCHES

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

ELECTRIC MODELS		Recovery 100°F Rise*		A	B	C	D	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Nat U.S. GPH	Nat Imp. GPH	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Floor to T&P Conn.	
LE230S3-3	30	18	15	46 ⁷ / ₈	18	48 ¹ / ₈	47 ³ / ₁₆	85
LE240S3-3	40	18	15	46 ⁷ / ₈	20	47 ⁷ / ₈	46 ⁷ / ₈	103
LE250S3-3	50	18	15	46 ¹ / ₂	22	47 ¹ / ₂	46 ¹ / ₂	130
LE265T3-3	65	18	15	59 ¹ / ₄	22	60 ¹ / ₄	59 ¹ / ₄	156
LE280T3-3	80	18	15	59 ¹ / ₄	24	60 ¹ / ₄	59 ¹ / ₄	183
LE2120T3-3	119	18	15	62 ³ / ₄	28	64 ¹ / ₄	62 ¹ / ₄	305

Specify wattage and voltage when ordering.
Use chart below 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.

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

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

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



Commercial Electric ElectriFLEX LD™ (Light Duty) Lowboy Models

- 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

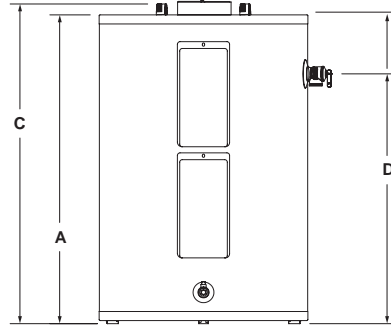
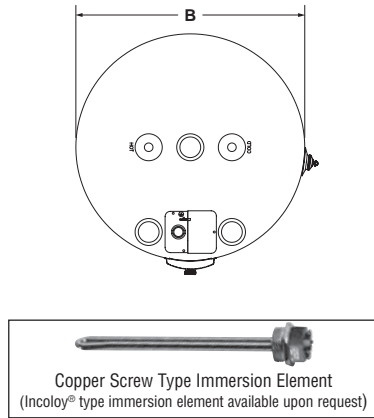


Photo of LE120S3-3

ElectriFLEX LD™ (Light Duty) Lowboy Models

DIMENSIONS IN INCHES

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

ELECTRIC MODELS		Recovery 100°F Rise*		A	B	C	D	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Nat U.S. GPH	Nat Imp. GPH	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Floor to T&P Conn.††	
LE120L3-3†	19	18	15	24 ³ / ₄	18	26	19 ¹ / ₄ / 24 ⁷ / ₈	58
LE130L3-3**	30	18	15	29 ³ / ₄	20	31	24 / 29 ³ / ₈	86
LE140L3-3**	40	18	15	31 ¹ / ₄	22	32 ⁷ / ₈	24 ¹ / ₈ / 31 ³ / ₄	115
LE150L3-3**	47	18	15	31 ³ / ₄	24	33 ¹ / ₈	24 ¹ / ₈ / 31 ³ / ₄	140

Specify wattage and voltage when ordering.

Use the charts to the right for maximum wattages at certain voltages.

All Models include supplied insulation blanket.

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.

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

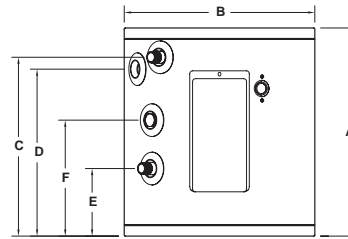
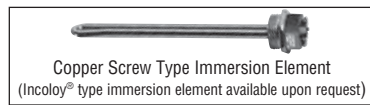
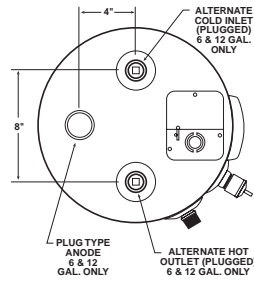
▲ (GPH based on Non-Simultaneous operation, when Simultaneous operation the GPH will approximately double.)

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

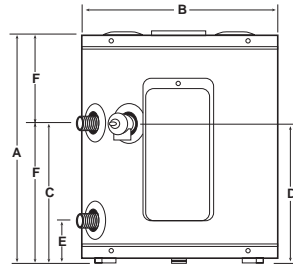


Commercial Electric ElectriFLEX LD™ (Light Duty) Utility Models

- 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



Photo of LE112T3-1

ElectriFLEX LD™ (Light Duty) Utility Models

DIMENSIONS IN INCHES

C.E.C. Listed

ELECTRIC MODELS		Recovery 100°F Rise*		A	B	C	D	E	F	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Nat U.S. GPH	Nat Imp. GPH	Floor to Heater Top	Jacket Dia.	Floor to Hot Water Conn.	Floor to T&P Conn.	Floor to Cold Water Conn.	Floor to Anode Rod	
LE16U3-1†	6	6	5	16½	14	10⅞	10⅞	3⅞	16½	33
LE110U3-1	10	6	5	17½	16	15	14	5⅞	9⅞	48
LE112T3-1†	12	6	5	27¾	14	21⅞	21⅞	3	27¾	48
LE115U3-1	15	6	5	20¼	18	17¾	16¾	6⅞	10⅞	55
LE120U3-1	19	6	5	24¾	18	18¼	18¼	3	10¼	59

Specify wattage and voltage when ordering.
Use chart to right for maximum wattages at certain voltages.

† Maximum wattage at any voltage is 3000W.
For 5 year models, change suffix "3" to "5".

Single element only.

* Based on 1500W operation.

NSF Kits available when ordering.

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

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



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

- 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

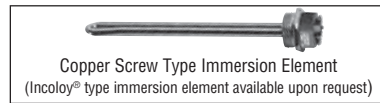
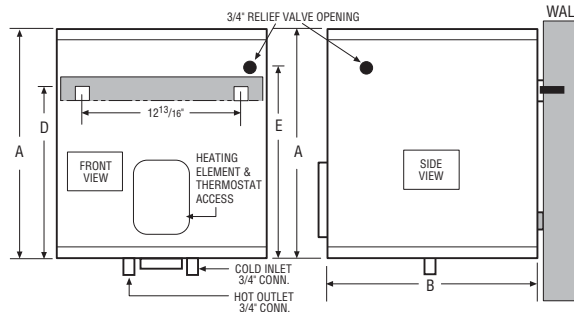
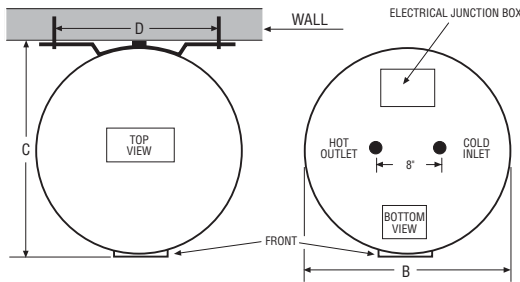


Photo of LE16WV3-1



ElectriFLEX LD™ (Light Duty) Wall Hung Models

DIMENSIONS IN INCHES

C.E.C. Listed

ELECTRIC MODELS		Recovery 100°F Rise*		A	B	C	D	E	Approx. Shipping Weight (lbs)
Model Number	Gal. Cap.	Nat U.S. GPH	Nat Imp. GPH	Height	Jacket Dia.	Wall to Front	Height to Bracket	Height to T&P Conn.	
LE16WV3-1†	6	6	5	15¾	14	14⅝	11¾	11⅞	33
LE112WV3-1	12	6	5	16⅝	18	18⅝	12¾	12½	48
LE120WV3-1	19	6	5	24⅝	18	18⅝	18¼	21	59

Specify wattage and voltage when ordering. Use chart to right for maximum wattages at certain voltages.

† Maximum wattage at any voltage is 3000W.

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

Single element only.

* Based on 1500W operation.

NSF Kits available when ordering.

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

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



Commercial Electric ElectriFLEX MD™ (Medium Duty) Models

- Vitraglas® Lining
- Hydrojet® Total Performance System
- Water Connections—1¼" NPT dielectric waterway fittings
- 2" Non-CFC Foam Insulation
- Fully Automatic Controls (180°F maximum)
- Direct Heat Transfer with Immersed Elements
- Protective Magnesium Anode Rod
- T&P Relief Valve
- Low Restriction Brass Drain Valve

Optional

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

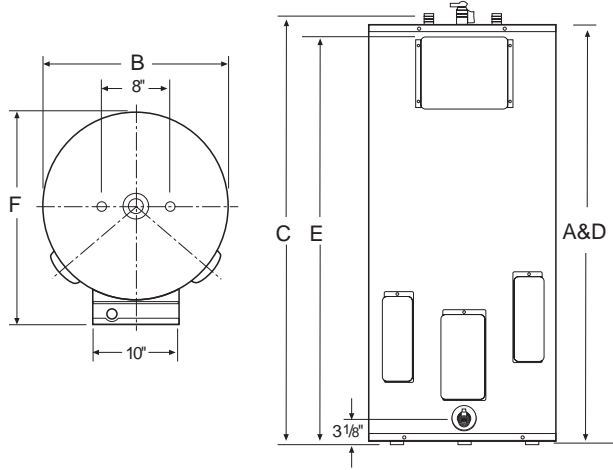


Photo of E32-80R-3

ElectriFLEX MD™ (Medium Duty) Models

DIMENSIONS IN INCHES

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

ELECTRIC MODELS		A	B	C	D	E	F	
Model Number	Gallon Capacity	Floor to Heater Top	Jacket Dia.	Floor to Water Conn.	Floor to T&P Conn.	Floor to Control Box	Control Box to Back of Heater	Approx. Shipping Weight (lbs)
E32-50S-3	50	46½	22	47½	47⅝	44⅞	24⅝	137
E32-80R-3	80	59	24	60	60⅞	57⅞	26¾	190
E32-120R-3	119	63	28¼	64	64⅞	61⅞	30⅞	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 130/131 for technical information and pages 150/151 for GPH recovery information.

Conversion Kit Table

Required Total Heater Wattage	Element Wattage	Kit Part Numbers		
		208V	240V	480V
6000	2000	265-43942-13	265-43942-07	265-43942-01
9000	3000	265-43942-14	265-43942-08	265-43942-02
12000	4000	265-43942-15	265-43942-09	265-43942-03
13500	4500	265-43942-16	265-43942-10	265-43942-04
15000	5000	265-43942-17	265-43942-11	265-43942-05
18000	6000	265-43942-18*	265-43942-12	265-43942-06

1,000 watts = 1kW.
* 265-43942-18 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.

Full Load Amperes - (Single Phase / Three Phase) and Recovery at a 100°F Rise

Input kW	208V	240V	277V	380V	415V	480V	Recovery
6	28.8/16.7	25.0/14.4	21.7	9.1	8.3	12.5/7.2	25 GPH
9	43.2/25.0	37.5/21.7	32.5	13.7	12.5	18.8/10.8	37 GPH
12	57.7/33.3	50.0/28.9	43.3	18.2	16.7	25.0/14.4	50 GPH
13.5	64.9/37.5	56.3/32.5	48.7	20.5	18.8	28.1/16.2	56 GPH
15	72.1/41.6	62.5/36.1	54.2	22.8	20.9	31.3/18.0	62 GPH
18	86.5/50.0	75.0/43.3	65.0	27.3	25.0	37.5/21.7	74 GPH

NSF Construction Kit

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



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

- 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
- 3" Non-CFC Foam Insulation
- Two Protective Magnesium Anode Rods
- Hand-hole Cleanout Opening
- Internal Fusing—Standard on all models

- Low Restriction Brass Drain Valve
 - T&P Relief Valve
- Options**
- ASME & NSF Construction Available

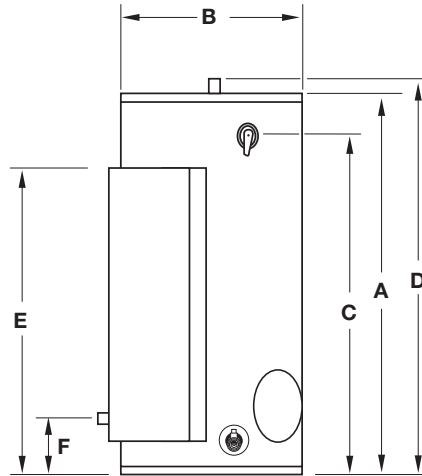


Photo of CEHD80(A)-KW-3CF

ElectriFLEX HD™ (Heavy Duty) Models

DIMENSIONS IN INCHES

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

ELECTRIC MODELS		A	B	C	D	E	F	Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Floor to Heater Top	Jacket Dia.	Floor to T&P Conn.	Floor to Hot Water Outlet	Floor to Cold Water Inlet	Floor to Top of Control Box	Std.	ASME
CEHD50(A)-KW-3CF	50	50 ³ / ₁₆	24	40 ⁷ / ₁₆	52 ⁵ / ₈	6 ¹¹ / ₁₆	46 ¹ / ₂	270	302
CEHD80(A)-KW-3CF	80	60	26	51 ¹ / ₂	65 ¹ / ₂	6 ¹¹ / ₁₆	46 ¹ / ₂	335	378
CEHD120(A)-KW-3CF	119	64 ¹ / ₂	30 ¹ / ₄	54 ⁹ / ₁₆	66 ³ / ₄	6 ³ / ₄	50 ¹ / ₄	430	485

Voltage and phase must be specified when ordering. Example: CEHD50-12-3CF, 240 Volt, 3 phase.

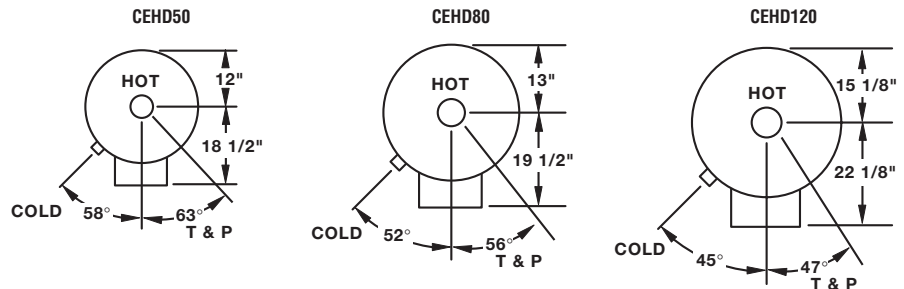
All models available in 208/240/277 and 480 volt.

(A) ASME Construction available.

For ASME construction add "A" to the model number.

Example: CEHD50A-12-3CF, 240 Volt, single phase.

NOTE: Refer to pages 130/131 for technical information and pages 150/151 for GPH recovery information.





Commercial Electric Surface and Immersion Thermostat Models

Immersion Thermostat with Contactors

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

Surface Mounted Thermostats

- Thermostat Step Control Can Be Accomplished by Variable Settings

All Models Feature

- Vitraglas® Lined Tank
- Hydrojet® Sediment Reduction System
- Completely Pre-wired with Pressure Lug Terminal or Fuse Block Eliminating the Need for Splicing or Taping Wires
- Water Connections—1½" NPT true dielectric fittings
- 3" Non-CFC Foam Insulation

- Two Protective Magnesium Anode Rods
- Hand-hole Cleanout Opening
- Low Restriction Brass Drain Valve
- T&P Relief Valve

Options

- ASME & NSF Construction Available on Immersion and Surface Thermostats

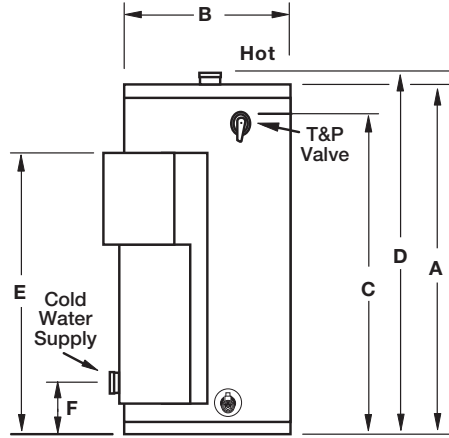


Photo of M-II-50-36-3SF

Surface and Immersion Thermostat Models

DIMENSIONS IN INCHES

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

ELECTRIC MODELS		A	B	C	D	E	F	Approx. Shipping Weight (lbs)	
Model Number	Gal. Cap.	Floor to Heater Top	Jacket Dia.	Floor to T&P Conn.	Floor to Hot Water Outlet	Floor to Top of Control Box	Floor to Cold Water Inlet	Std.	ASME
M-II-50-kW-3SF	50	47¾	24	41	49¼	46½	6¾	270	302
M-II-80-kW-3SF	80	60¼	26	52½	61¾	46½	6¾	335	378
M-II-120-kW-3SF	119	64½	30¼	55	66	50¼	6¾	430	485

Model numbers shown are for Surface Mount thermostats. For Immersion thermostat change suffix "SF" to "CF".

Voltage and phase must be specified when ordering. Example: M-II-50-12-3SF, 240 Volt, 3 phase.

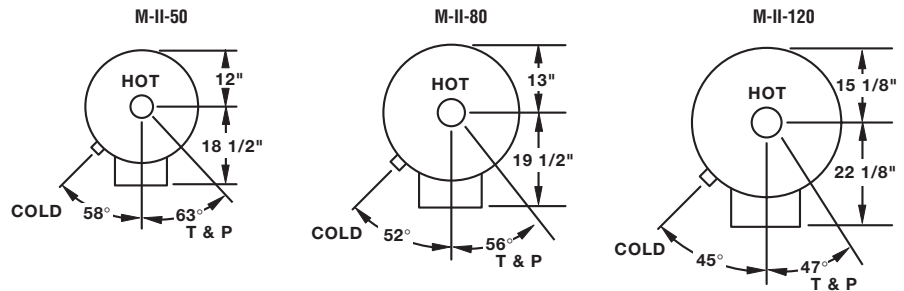
All models available in 208/240/277 and 480 volt.

(A) ASME Construction available.

For ASME construction add "A" to the model number.

Example: M-II-50A-12-3SF, 240 Volt, single phase.

NOTE: Refer to pages 130/131 for technical information and pages 150/151 for GPH recovery information.





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
- 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 Restriction 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

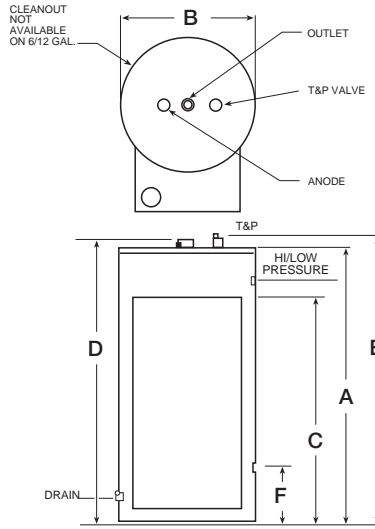


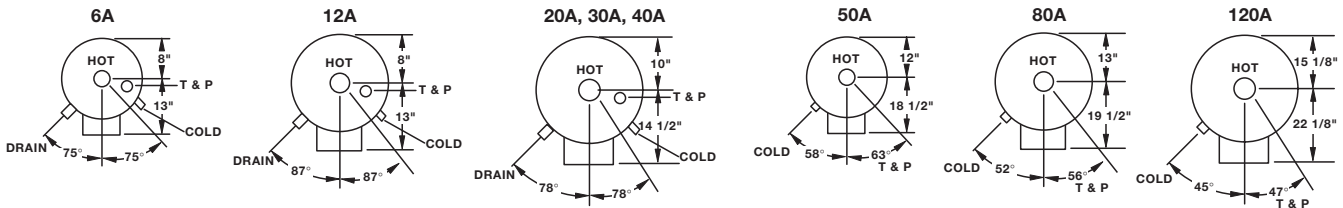
Photo of 30A-36-3

ASME Models

DIMENSIONS IN INCHES

ELECTRIC MODELS			A	B	C	D	E	F		
Model Number	Gal. Cap.	Max. kW Input	Floor to Heater Top	Jacket Dia.	Floor to Top of Control Box	Floor to HW Outlet	Floor to T&P Valve	Floor to CW Inlet	Water Conn.	Approx. Shipping Weight (lbs)
6A-kW-3	6	3	17 ¹ / ₄	16	17	18 ¹ / ₄	18 ¹⁵ / ₁₆	6 ¹ / ₄	3/4	83
12A-kW-3	12	9	28	16	28	29	28 ¹⁵ / ₁₆	6 ¹ / ₄	3/4	118
20A-kW-3	20	18	27 ¹ / ₂	20	27	28 ¹ / ₂	28	6 ¹ / ₄	3/4	145
30A-kW-3	30	36	38	20	38	39	40 ¹ / ₄	6 ¹ / ₄	3/4	180
40A-kW-3	40	36	48 ¹ / ₄	20	38	49 ¹ / ₄	50 ¹ / ₂	6 ¹ / ₄	3/4	220
50A-kW-3	50	81	47 ³ / ₄	24	46 ¹ / ₂	49 ¹ / ₄	50 ³ / ₈	6	1 ¹ / ₂	270
80A-kW-3	80	81	60 ¹ / ₄	26	46 ¹ / ₂	61 ³ / ₄	61 ⁷ / ₈	6	1 ¹ / ₂	335
120A-kW-3	119	81	64 ¹ / ₂	30 ¹ / ₄	50 ¹ / ₄	66	66 ⁵ / ₁₆	6	1 ¹ / ₂	430

NOTE: Refer to pages 150/151 for GPH recovery information.





Commercial Electric Brute Vertical Round Models

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
- Manual Reset High Limit
- Hinged Door with Keyed Lock
- 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:

- 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

†Separate mounting

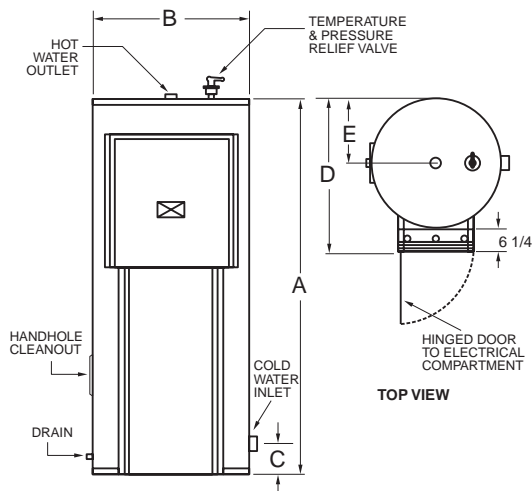


Photo of VR-200-36

Brute Vertical Round Models

DIMENSIONS IN INCHES

ELECTRIC MODELS			A	B	C	D	E		
Model Number	Gal. Cap.	Max. kW Load**	Floor to Top of Heater	Jacket Diameter	Floor to Cold Water Inlet	Depth	Back of Heater to Cold Water Inlet	Water Conn.	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	162	92	54	24½	60¾	27	2½	2010

NOTE: Refer to pages 150/151 for GPH recovery information.

** Vertical Round 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.



Commercial Electric
GPH Recovery Table for kW Input

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

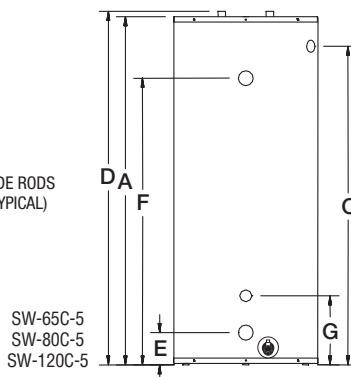
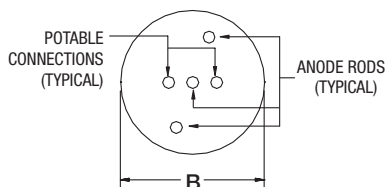
GPH Recovery Table

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



Commercial PowerStor Series® Single-Wall Indirect Models

- 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 Restriction 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
SW-80C-5
SW-120C-5



Photo of SW-65C-5

PowerStor Series® Single-Wall Indirect Models

DIMENSIONS IN INCHES

Model Number	Gallon Capacity	A Floor to Heater Top	B Jacket Dia.	C Floor to T&P Conn.	D Floor to Water Conn.	E Floor to Exchanger Outlet	F Floor to Exchanger Inlet	G Floor to Aquastat	Approx. Shipping Weight (lbs)
SW-65C-5	58	59¼	22	53⅞	60	5⅝	47¾	11½	273
SW-80C-5	73	59	24	52⅞	59¾	5⅝	47¾	11½	300
SW-120C-5	114	62½	28¼	55¾	63¼	6⅝	48¾	11½	422

DOE Water Heater Performance

Model Number	Maximum First Hour Rating (Gal.) @		Approximate Boiler Output Needed for Rating (BTU/Hr.)
	140°F	115°F	
SW-65C-5	534	820	420,000
SW-80C-5	546	834	420,000
SW-120C-5	583	871	420,000

Note: Pressure Drop across commercial models is 2.3 ft w.c. at 12 gpm for 200°F Boiler Supply.

AHRI Water Heater Ratings

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

Note: 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.



Commercial Jacketed Storage Tank Models

- 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
- 3/4" NPT Aquastat Connection
- Low Restriction Brass Drain Valve

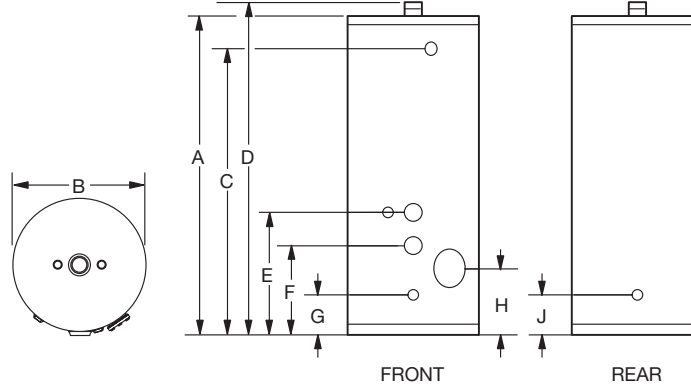


Photo of M-3-ST80R5

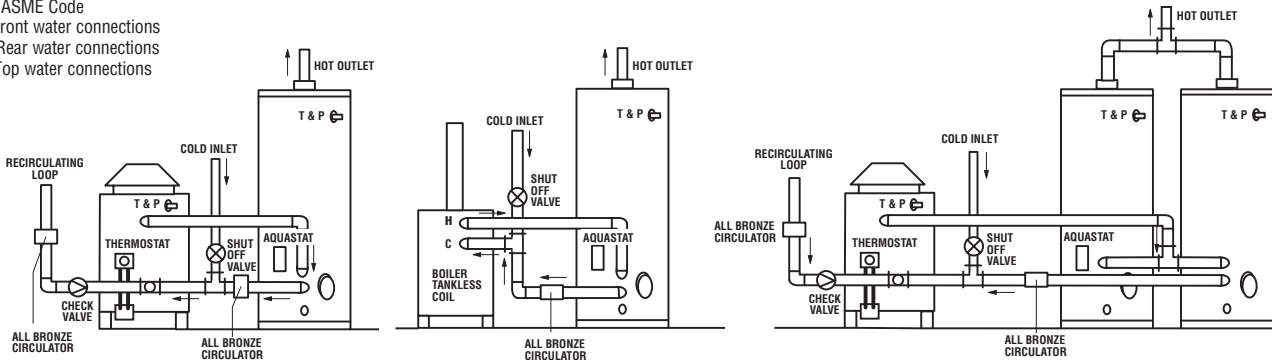
Jacketed Storage Tank Models

DIMENSIONS IN INCHES

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



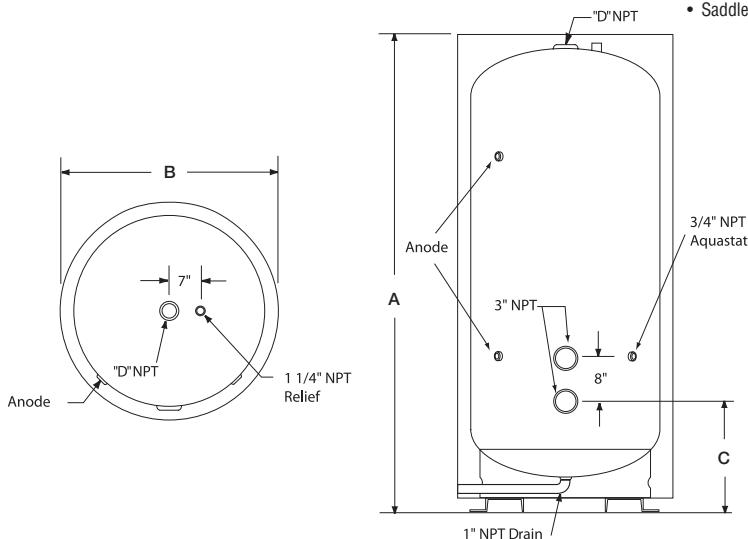


Commercial Large Volume Jacketed Storage Tank Models

- Vertical or Horizontal Construction
- Water Connections—Two female 3" NPT fittings are located on the front for ease of service and installation
- 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



Photo of
NV310JG5A

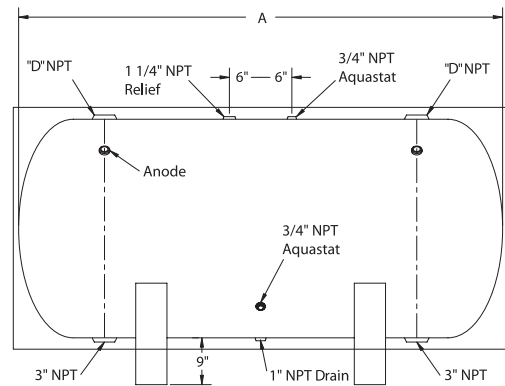


Factory Options Include:

- Manway (12" by 16")
- Hand Hole (4" by 6")
- Saddles
- Extra Tappings (1" - 4")
- Flanged Connections (3" - 10")
- Stainless Steel Construction
- 150 psi (add suffix -5)
- Hydrojet® HC (add suffix -1)

Sizes must be specified when ordering

Manway inspection port is provided as standard equipment on epoxy lining.
Options must be specified when ordering





Commercial

Large Volume Jacketed Storage Tank Models

Vertical and Horizontal Models

DIMENSIONS IN INCHES

Model Number	Actual U.S. Capacity Gal.	Nominal U.S. Capacity Gal.	A		B	C	Hot Water Outlet Conn.	Approx. Shipping Weight (lbs) @125 PSI
			Vert. Height	Horiz. Length	Jacket Dia.	Floor to Inlet		
N†175J*5A	175	193	71	67	34	19½	2½	438
N†210J*5A	210	229	83	79	34	19½	2½	493
N†240J*5A	240	260	93	89	34	19½	2½	539
N†280J*5A	280	303	107	103	34	19½	2½	603
N†285J*5A	285	318	80	76	40	21	2½	667
N†310J*5A	310	344	86	82	40	21	2½	710
N†320J*5A	320	340	119	115	34	19½	2½	658
N†340J*5A	340	375	93	89	40	21	2½	760
N†360J*5A	360	397	98	94	40	21	2½	796
N†415J*5A	415	449	110	106	40	21	2½	881
N†435J*5A	435	486	89	85	46	22½	3	917
N†453J*5A	453	504	89	88	46	22½	3	942
N†465J*5A	465	502	122	118	40	21	2½	967

Vertical and Horizontal Models

DIMENSIONS IN INCHES

Model Number	Actual U.S. Capacity Gal.	Nominal U.S. Capacity Gal.	A		B	C	Hot Water Outlet Conn.	Approx. Shipping Weight (lbs) @125 PSI
			Vert. Height	Horiz. Length	Jacket Dia.	Floor to Inlet		
N†500J*5A	500	572	81	77	52	24	3	1176
N†505J*5A	505	558	101	97	46	22½	3	1017
N†515J*5A	515	555	134	130	40	21	2½	1053
N†575J*5A	575	630	113	109	46	22½	3	1117
N†580J*5A	580	658	92	88	52	24	3	1310
N†645J*5A	645	702	125	121	46	22½	3	1217
N†675J*5A	675	752	104	100	52	24	3	1456
N†720J*5A	720	774	137	133	46	22½	3	1317
N†765J*5A	765	846	116	112	52	24	3	1602
N†790J*5A	790	846	147	143	46	22½	3	1400
N†840J*5A	840	940	128	124	52	24	3	1748
N†875J*5A	875	981	107	103	58	27½	3	1776
N†1040J*5A	1040	1128	149	145	52	24	3	2003
N†1245J*5A	1245	1395	124	120	64	29	3	3326
N†1530J*5A	1530	1689	148	144	64	27	3	3541

† = Tank Orientation
 V = Vertical
 H = Horizontal
 Saddles required for horizontal models.
 Use Bare Tank Diameter for saddle sizes.

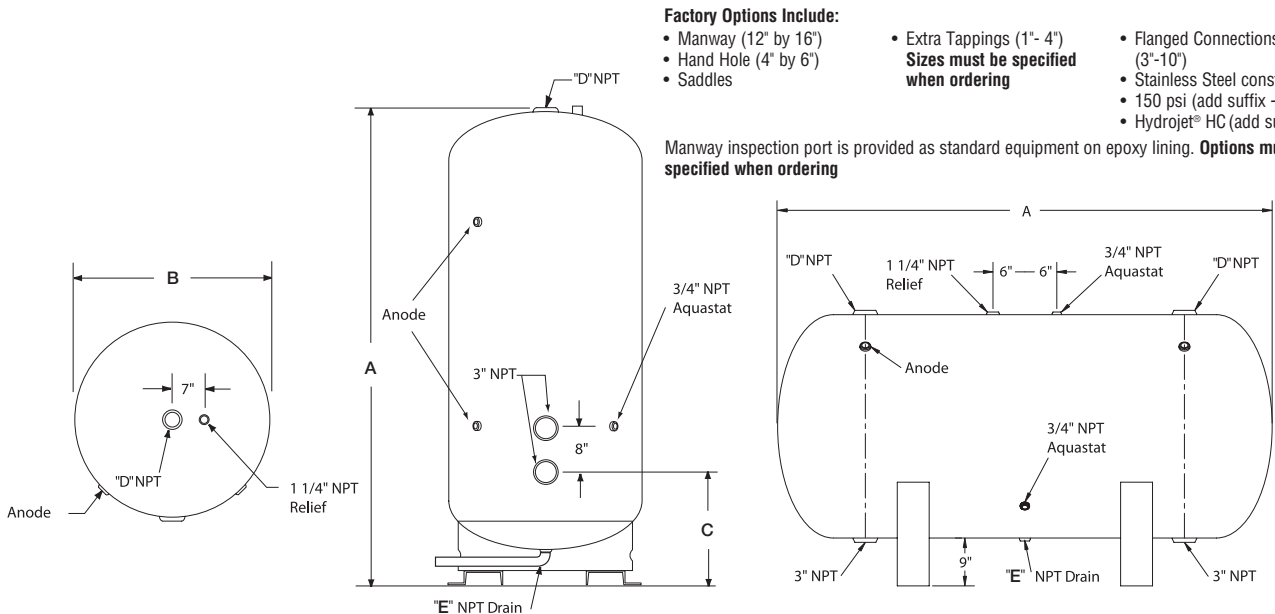
* = Tank Lining/Construction
 G = Vitraglas®
 D = Double Vitraglas®
 E = Epoxy
 S = Stainless Steel

Ten Year Warranty with Double Vitraglas® Lining
 One Year Warranty with Epoxy Lining

Example of full model number when ordering (NV240JG5A)

Commercial
Large Volume Unjacketed Storage Tank Models

- ASME Construction
- 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
- Red Oxide Primer—Completely covers exterior of tank
- 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



Commercial
Large Volume Unjacketed Storage Tank Models

Vertical and Horizontal Models

DIMENSIONS IN INCHES

Meet or exceed ASHRAE 90.1b (current standard)

Model Number	Actual U.S. Capacity Gal.	Nominal U.S. Capacity Gal.	A		B	C	D	E	Approx. Shipping Weight (lbs) @125 PSI
			Vert. Height	Horiz. Length	Jacket Dia.	Floor to Return Conn.	Hot Water Outlet Conn.	Drain Valve	
N†175N*5A	175	193	67	63	30	17½	2½	1	303
N†210N*5A	210	229	79	75	30	17½	2½	1	347
N†240N*5A	240	260	89	85	30	17½	2½	1	383
N†280N*5A	280	303	103	99	30	17½	2½	1	433
N†285N*5A	285	318	76	45	36	19	2½	1	550
N†310N*5A	310	344	82	78	36	19	2½	1	527
N†320N*5A	320	340	115	111	30	17½	2½	1	476
N†340N*5A	340	375	89	85	36	19	2½	1	569
N†360N*5A	360	397	94	90	36	19	2½	1	559
N†415N*5A	415	449	106	102	36	19	2½	1	671
N†435N*5A	435	486	85	81	42	20½	3	1	695
N†453N*5A	453	504	88	51	42	20½	3	1	805
N†465N*5A	465	502	118	114	36	19	3	1	743
N†500N*5A	500	572	77	73	48	22	3	1	928
N†505N*5A	505	558	97	51	42	20½	3	1	874
N†515N*5A	515	555	130	126	36	19	2½	1	815
N†575N*5A	575	630	109	105	42	20½	3	1	863
N†580N*5A	580	658	88	84	48	22	3	1	1045

Vertical and Horizontal Models

DIMENSIONS IN INCHES

Model Number	Actual U.S. Capacity Gal.	Nominal U.S. Capacity Gal.	A		B	C	D	E	Approx. Shipping Weight (lbs) @125 PSI
			Vert. Height	Horiz. Length	Jacket Dia.	Floor to Return Conn.	Hot Water Outlet Conn.	Drain Valve	
N†645N*5A	645	702	121	117	42	20½	3	1	947
N†675N*5A	675	752	100	96	48	22	3	1	1173
N†720N*5A	720	774	133	129	42	20½	3	1	1031
N†765N*5A	765	846	112	108	48	22	3	1	1301
N†790N*5A	790	846	143	139	42	20½	3	1	1101
N†840N*5A	840	940	124	120	48	22	3	1	1428
N†1040N*5A	1040	1128	145	141	48	22	3	1	1652
N†1340N*5A	1340	1457	153	147	54	25½	3	1½	2182
N†1820N*5A	1820	1983	168	168	60	27	3	1½	3110
N†2105N*5A	2105	2276	192	186	60	27	3	1½	3516
N†2395N*5A	2395	2570	216	210	60	27	3	1½	3922
N†2700N*5A	2700	2961	174	168	72	30	3	1½	3851
N†3115N*5A	3115	3384	198	192	72	30	3	1½	4338
N†3530N*5A	3530	3807	222	216	72	30	3	1½	4825
N†4050N*5A	4045	4462	192	93	84	33	3	1½	6009
N†4120N*5A	4120	4406	256	250	72	30	3	1½	5516
N†5695N*5A	5695	6141	262	256	84	33	3	1½	7994

† = Tank Orientation
 V = Vertical
 H = Horizontal
 Saddles required for horizontal models.
 Use Bare Tank Diameter for saddle sizes.

* = Tank Lining/Construction
 G = Vitraglas®
 D = Double Vitraglas®
 E = Epoxy
 S = Stainless Steel

Ten Year Warranty with Double Vitraglas® Lining
 One Year Warranty with Epoxy Lining

Example of full model number when ordering (NV175NG5A)

Commercial
Large Volume Vertical Topcoat Storage Tank Models

- ASME construction
- 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

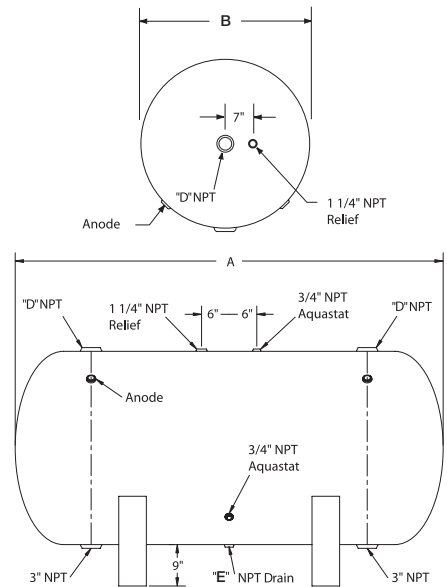
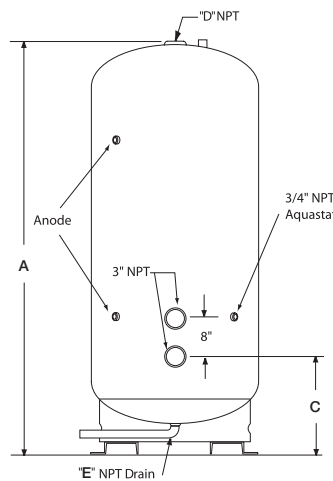


Spray Polyurethane Foam:

Specific Gravity:	1.17 - 1.19
Viscosity:	800 - 1300
Density:	@ 2" 2.10 - 2.35
	@ 4" 1.88 - 1.99
Closed Cell Content:	>90%
K-Factor, initial:	0.155 - 0.170
Permeance:	2.91 (perms)
	2.99 (perm inch)
Dimensional Stability:	+3.3 to +8.2 - Dry Age 28 days (158°F, Dry)
	-0.37 to -0.96 - Freeze 14 day (-20°F)
Flame Spread:	25 - ASTM E-84
Smoke Development:	450
R Value:	7.2/ inch
Max. Thickness:	4"

Acrylic Coating:

Topcoat:	2 coats white, 25 mils
Texture:	Smooth
Grade:	Spray or Roll
Base:	100% Acrylic
Solids by weight:	66% (+/-3)
Solids by volume:	55% (+/-3)
Weight per gallon:	11.65 (+/-2)
Tensile Strength:	300 psi (+/-25)
Elongation:	260% (+/-25)
Durometer hardness:	62 Shore A (+/-2)
Tear Resistance:	85 lbs/ in.
Permeance:	11 U.S. Perms @ 20 mils
Viscosity:	110 K.U. (+/-8)
Codes/ Approvals:	Energy Star, ICC, UL, ASTM D6083
Reflectivity:	New 85%, Aged 78%
Emmissivity:	.89



Commercial
Large Volume Vertical Topcoat Storage Tank Models

Vertical and Horizontal Energy Saver Models

DIMENSIONS IN INCHES

Model Number	Actual U.S. Capacity Gal.	Nominal U.S. Capacity Gal.	A		B	C	D	E	Approx. Shipping Weight (lbs) @125 PSI
			Vert. Height	Horiz. Length	Jacket Dia.	Floor to Return Conn.	Hot Water Outlet Conn.	Drain Valve	
N†175T*5A	175	193	69	65	35	17½	2½	1	303
N†210T*5A	210	229	81	77	35	17½	2½	1	347
N†240T*5A	240	260	91	87	35	17½	2½	1	383
N†280T*5A	280	303	105	101	35	17½	2½	1	433
N†285T*5A	285	318	76	45	41	19	2½	1	550
N†310T*5A	310	344	84	80	41	19	2½	1	527
N†320T*5A	320	340	117	113	35	17½	2½	1	476
N†340T*5A	340	375	91	87	41	19	2½	1	569
N†360T*5A	360	397	96	92	35	19	2½	1	559
N†415T*5A	415	449	108	104	41	19	2½	1	671
N†435T*5A	435	486	87	83	47	20½	3	1	695
N†465T*5A	465	502	120	116	41	19	3	1	743
N†500T*5A	500	572	79	75	53	22	3	1	928
N†515T*5A	515	555	132	128	41	19	2½	1	815
N†575T*5A	575	630	111	107	47	20½	3	1	863
N†580T*5A	580	658	90	86	53	22	3	1	1045
N†645T*5A	645	702	123	119	47	20½	3	1	947

Vertical and Horizontal Models

DIMENSIONS IN INCHES

Model Number	Actual U.S. Capacity Gal.	Nominal U.S. Capacity Gal.	A		B	C	D	E	Approx. Shipping Weight (lbs) @125 PSI
			Vert. Height	Horiz. Length	Jacket Dia.	Floor to Return Conn.	Hot Water Outlet Conn.	Drain Valve	
N†675T*5A	675	752	102	98	53	22	3	1	1173
N†720T*5A	720	774	135	131	47	20½	3	1	1031
N†765T*5A	765	846	114	110	53	22	3	1	1301
N†790T*5A	790	846	145	141	47	20½	3	1	1101
N†840T*5A	840	940	126	122	53	22	3	1	1428
N†1040T*5A	1040	1128	147	143	53	22	3	1	1652
N†1340T*5A	1340	1457	153	147	59	25½	3	1½	2182
N†1820T*5A	1820	1983	168	168	65	27	3	1½	3110
N†2395T*5A	2395	2570	216	210	65	27	3	1½	3922
N†3115T*5A	3115	3384	198	192	77	30	3	1½	4338
N†3530T*5A	3530	3807	222	216	77	30	3	1½	4825
N†4120T*5A	4120	4406	256	250	77	30	3	1½	5516
N†5695T*5A	5695	6141	262	256	89	33	3	1½	7994

† = Tank Orientation

V = Vertical

H = Horizontal

Saddles required for horizontal models.

Use Bare Tank Diameter for saddle sizes.

Ten Year Warranty with Double Vitraglas® Lining

One Year Warranty with Epoxy Lining

Example of full model number when ordering (NV240TG5A)

Note: Please be advised that all tank sizes are available for this topcoat process.

* = Tank Lining/Construction

G = Vitraglas®

D = Double Vitraglas®

E = Epoxy

S = Stainless Steel

Factory Options Include:

• Manway (12" by 16")

• Hand Hole (4" by 6")

• Saddles

• Extra Tappings (1" - 4")
Sizes must be specified when ordering

• Flanged Connections (3"-10")
 • Stainless Steel construction
 • 150 psi (add suffix -5)
 • Hydrojet® HC (add suffix -1)

Manway inspection port is provided as standard equipment on epoxy lining. **Options must be specified when ordering**

Warranty Information

	Limited Tank Warranty	Limited Parts Warranty
Residential Gas Models		
Atmospheric Vent High EF Models	6 or 10 Year	6 or 10 Year**
Atmospheric Vent Damper Models	6 or 10 Year	6 or 10 Year**
Residential High EF Models	6 or 10 Year	6 or 10 Year**
Residential High Performance Models	6 Year	6 Year
Residential TTW® High Performance Models	6 Year	6 Year
Residential Extra Recovery Models	6 or 10 Year	6 or 10 Year**
Residential Upright Models	6 or 10 Year	6 or 10 Year**
Residential Power Vent Models	6 or 10 Year	6 or 10 Year**
Residential Power Direct Vent Models	6 or 10 Year	6 or 10 Year**
Residential Direct Vent Models	6 or 10 Year	6 or 10 Year**
Residential Ultra Low NOx Models	6 or 10 Year	6 or 10 Year**
Residential eF Series® Models	6 or 10 Year	6 or 10 Year**
Residential Manufactured Home Models	6 or 10 Year	6 Year
Residential Infinity Tankless Models	12 Year*	5 Year
Residential Heat Pump Models		
Residential AeroTherm™ Heat Pump Models	10 Year	10 Year
Residential Electric Models		
Residential High Efficiency, Upright, Lowboy Models	6 or 10 Year	6 or 10 Year**
Residential Utility, Wall Hung Models	6 or 10 Year	6 or 10 Year**
Residential Kwickshot® Models	10 Year†	1 Year
Solar Models		
Residential Solar Models	6 or 10 Year	6 Year
Residential Hydronic/Space Heating		
Residential Combi1™ Models	10 Year	6 Year
Residential Combi2™ Models	10 Year	6 Year
Residential Indirect Models		
Residential PowerStor Series® Model	Limited Lifetime	6 Year
Residential PowerStor2 Series® Models	Limited Lifetime	6 Year
Residential PowerStor Series® SS Models	Limited Lifetime	6 Year
Residential Storage Tank		
Residential AST Models	6 Year	6 Year

	Limited Tank Warranty	Limited Parts Warranty
Commercial Gas Models		
Light Duty Commercial High Performance Models	3 year	1 Year
Light Duty Commercial TTW® High Performance Models	3 year	1 Year
Light Duty Commercial Upright Models	3 year	1 Year
Light Duty Commercial Power Vent Models	3 year	1 Year
Light Duty Commercial Power Direct Vent Models	3 year	1 Year
Light Duty Commercial Direct Vent Models	3 year	1 Year
Light Duty Commercial Ultra Low NOx Models	3 year	1 Year
Commercial Flue Damper Models	3 year	1 Year
Commercial Induced Draft Models	3 year	1 Year
Commercial Millivolt Models	3 year	1 Year
Commercial eF Series® Ultra High Efficiency Models	3 year	1 Year
Commercial Ultra Low NOx Models	3 year	1 Year
Commercial Electric Models		
Light Duty Commercial Upright, Lowboy Models	3 year	1 Year
Light Duty Commercial Utility, Wall Hung Models	3 year	1 Year
Commercial Medium Duty Models	3 year	1 Year
Commercial Surface Mount, Immersion Models	3 year	1 Year
Commercial ASME Models	3 year	1 Year
Commercial Brute Models	3 year	1 Year
Commercial Indirect-Fired		
Commercial PowerStor® Models	5 year	1 Year
Commercial Storage Tank		
Commercial Jacketed Models	5 year	1 Year
Commercial Bare Glass Coated Models	5 year	1 Year
Commercial Jacketed Large Volume Models	5 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. *Heat Exchanger Only **10 year parts warranty on warranty upgrade kit models only. †Heater Body Element Assembly.

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