

Commander Series™ Atmospheric Vent Commercial Gas Water Heater



Photo is of
UCG-100H-199-3N

FEATURING:

THE BRADFORD WHITE
ICON^{HD}
COMMERCIAL CONTROL SYSTEM



The Commander Series™ Models feature:

- **ICON HD™**—The proven design of an intelligent Honeywell® Integrated Control combines temperature control, diagnostic codes, and system functions and status into a single control with a digital LCD display.
 - **Operation Mode**—Simple, intuitive temperature adjustment up to 180°F/82°C. The user can easily select between Fahrenheit and Celsius.
 - **Service Mode**—The display has a “Service Mode” for changing the maximum setpoint and accessing information that may aid in the service of the water heater. These eight digitally displayed service screens can be easily cycled through by pressing the select button. The service screens include: max setpoint value, water temperature reading, flame current of pilot flame sensor, current temperature setpoint, F°/C° display change, temperature differential, software version, and error code history (up to ten previous error codes).
- **Optional Air Intake Ducting**—Optional ducting of PVC, CPVC, or ABS air intake. Can either be installed as a traditional atmospheric product requiring inside air for combustion or applications where outside air is preferred.
- **Premix Power Burner**—A self compensating negative pressure system automatically regulates fuel flow when a change in combustion air is detected. This provides for optimum combustion and efficiency. Automatically adjusts for altitudes up to 10,000 ft.
- **Direct Spark Ignition**—For improved operational dependability and durability.
- **Integrated Exhaust System**—New configuration and vent connector height allow for easy replacement of existing atmospheric vent water heaters.
- **Sanitizing Capability**—Complies with sanitation capabilities up to 180°F (82°C).
- **Factory Installed Hydrojet® Sediment Reduction System**—Cold water inlet sediment reducing device helps prevent sediment build up in the tank.
- **Vitraglas® Lining**—Bradford White tanks are lined with an exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. Vitraglas® is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- **Non-CFC Foam Insulation**—Covers the sides of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.
- **Water Connections**—Factory installed true dielectric waterway fittings extend water heater life and eases installation. Multiple water connection locations allow for greater installation flexibility.
- **1" NPT Side Connections for Space Heating.**
- **Up to 82% Thermal Efficiency.**
- **Zero Inch Clearance to Combustibles** Excluding UCG-80H-399 & UCG-100H-399.
- **Hand Hole Cleanout.**
- **NSF Construction Available.**
- **T&P Relief Valve**—Installed.
- **Low Restriction Brass Drain Valve**—Durable tamper proof design.
- **Ultra Low NOx Construction (14 ng/J NOx emissions)**—Natural gas models only.
- **CSA Certified Low Lead Content.**

3 or 5-Year Limited Tank Warranties / 1-Year Limited Warranty on Component Parts.

For more information on warranty, please visit www.bradfordwhite.com

For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,666; 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. Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.

Commander Series™ Atmospheric Vent Commercial Gas Water Heater

Commander Series™ Models

NATURAL GAS

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

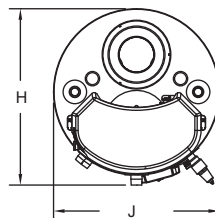
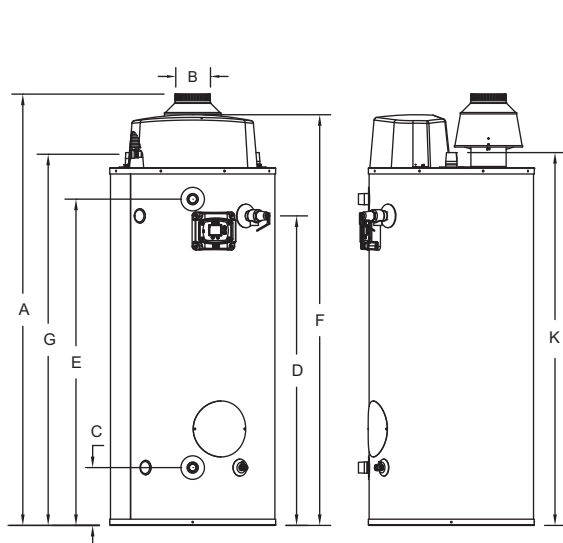
Model Number	Capacity	Input	GPH Recovery at Degree Rise*	A Floor to Top of Vent in.	B Vent Dia. in.	C Floor to Cold Water Inlet in.	D Floor to T&P Conn. in.	E Floor to Hot Water Outlet in.	F Floor to Top of Heater in.	G Floor to Gas Conn. in.	H Depth in.	J Width in.	K Floor to Cold Water Inlet/Hot Water Outlet in.	Water Conn. Dia. in.	Gas Conn. Dia. in.	Relief Valve Open in.	Approx. Shipping Weight lbs.
UCG-80H-125-3N	80 67	125,000	308 123 88	63	5	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-199-3N	80 67	199,999	493 197 141	74 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 67	270,000	665 266 190	74 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 67	399,999	960 384 274	78 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 83	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 83	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 82	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

Model Number	Capacity	Input	LPH Recovery at Degree Rise*	A Floor to Top of Vent mm.	B Vent Dia. mm.	C Floor to Cold Water Inlet mm.	D Floor to T&P Conn. mm.	E Floor to Hot Water Outlet mm.	F Floor to Top of Heater mm.	G Floor to Gas Conn. mm.	H Depth mm.	J Width mm.	K Floor to Cold Water Inlet/Hot Water Outlet mm.	Water Conn. Dia. mm.	Gas Conn. Dia. mm.	Relief Valve Open mm.	Approx. Shipping Weight kgs.
UCG-80H-125-3N	303	36.6	1164 466 333	1600	127	254	1118	1194	1556	1416	762	718	1391	38	19	19	243
UCG-80H-199-3N	303	58.6	1864 746 533	1899	152	254	1118	1194	1556	1416	762	718	1391	38	19	19	243
UCG-80H-270-3N	303	79.1	2517 1007 719	1899	152	254	1118	1194	1556	1416	762	718	1391	38	19	25	247
UCG-80H-399-3N	303	117.2	3634 1454 1038	2000	203	254	1118	1194	1556	1416	762	718	1391	38	19	25	247
UCG-100H-199-3N	379	58.6	1866 745 533	1861	152	254	1334	1410	1772	1607	762	718	1607	38	19	19	286
UCG-100H-270-3N	379	79.1	2517 1006 719	1861	152	254	1334	1410	1772	1607	762	718	1607	38	19	25	286
UCG-100H-399-3N	371	117.2	3757 1476 1060	1962	203	254	1334	1410	1772	1607	762	718	1607	38	19	25	298

For Propane Gas models change suffix "N" to "X". Example: UCG-100H-199-3X (UCG-100H-399 available in Natural Gas only).

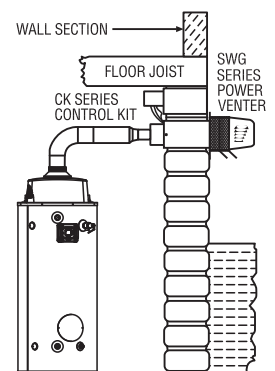
Natural gas models comply with the latest Ultra Low NOx requirements (14 ng/J or less).

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.



TYPICAL APPLICATIONS

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



Sample Specification

The water heater shall be a Bradford White model UCG-_____ with a rated storage capacity of not less than _____ gallons/ liters, a minimum gas input of _____ BTU/Hr., a minimum recovery of _____ GPH/LPH at 100°F (56°C) temperature rise, a Thermal Efficiency Rating of _____. It shall be design certified by CSA International (formerly AGA and CGA) for 180°F (82°C) application, either with or without a separate storage tank. The tank shall be lined with Vitraglas® vitreous enamel and shall have a bolted hand hole cleanout. This water heater shall be equipped with stainless steel cold water inlet, Hydrojet® Sediment Reduction System. The heater shall be insulated with Non-CFC foam. This water heater shall be equipped with an ICON HD™ ignition system, an ASME rated T&P relief valve and a premix combustion system. The water heater shall be factory assembled and tested. A digital LCD display shall be integrated into the front and be an adjustable electronic thermostat to any temperature up to 180°F. A recycling Energy Cut Off (E.C.O.) shuts off all gas in the event of an overheat condition. The entire installation shall be made in compliance with state and local codes and ordinances.

General

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All models are design certified by CSA International (formerly AGA/CGA), to ANSI standard Z-21.10.3, for up to 180°F (82°C) application as an Automatic Storage Heater. As an Automatic Storage Heater, all models are complete, self-contained water heating systems. It needs no separate storage tank, pump, wiring or elaborate piping network. When equipped with a mixing valve, it can supply 180°F (82°C) sanitizing and lower temperature general purpose hot water simultaneously. These models can be used either as a single unit or in multiples connected in series or parallel (recommended).

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



For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089

International: Telephone 215-641-9400 • Telefax 215-641-9750 / www.bradfordwhite.com



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Built to be the Best™

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