



Aero Series  
Commercial Energy Saver  
Multi Flue Oil-Powered Models  
CF-38-3    CF-80-3    CF-100-3



**Features:**

- **Insulation**—high density fiberglass insulation provides a thick blanket around the tank and combustion chamber for more heat retention and maximum fuel efficiency.
- **Vitraglas® lined tank**—water heater tanks are protected from the corrosive effects of hot water by an exclusive ceramic porcelain-like coating. Our high silica Vitraglas® lining provides a tough interior surface for water heater tanks, which must withstand the wearing effects of high volume and high temperature hot water.
- **Factory installed Hydrojet® Sediment Reduction System**—cold inlet sediment reduction device made of stainless steel for increased durability. Helps prevent sediment build up in tank.
- **Magnesium anode rods**—employed to provide an extra measure of corrosion prevention for longer life.
- **Hand hole cleanout**—allows inspection of tank interior and facilitates removal of water heater's principal deterrent to long life—accumulated lime and sediment deposits.
- **Controls**—dual immersion aquastat (supplied with burner) for precise, easy water temperature regulation & safety.
- **Brass drain valve.**
- **T&P relief valve installed.**
- **ASME code construction**—available on 80 and 100 gallon (303 and 379 liters) models, not available on 38 (144 liter) gallon models.
- **38, 80 and 100 gallon (144, 303 and 379 liter) storage tank.**
- **Three year limited warranty on steel tank**—heavy gauge steel automatically formed, rolled and welded to assure a continuous seam for glass lining.
- **One year limited warranty on parts and burner.**
- **Design certified by ULC. Burners are UL listed.**

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385; 6,684,821; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165; 5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983; 4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968; 4,672,919; Re. 34,534. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 1,272,914; 1,280,043; 1,289,832; 2,045,862; 2,112,515; 2,108,186; 2,107,012.

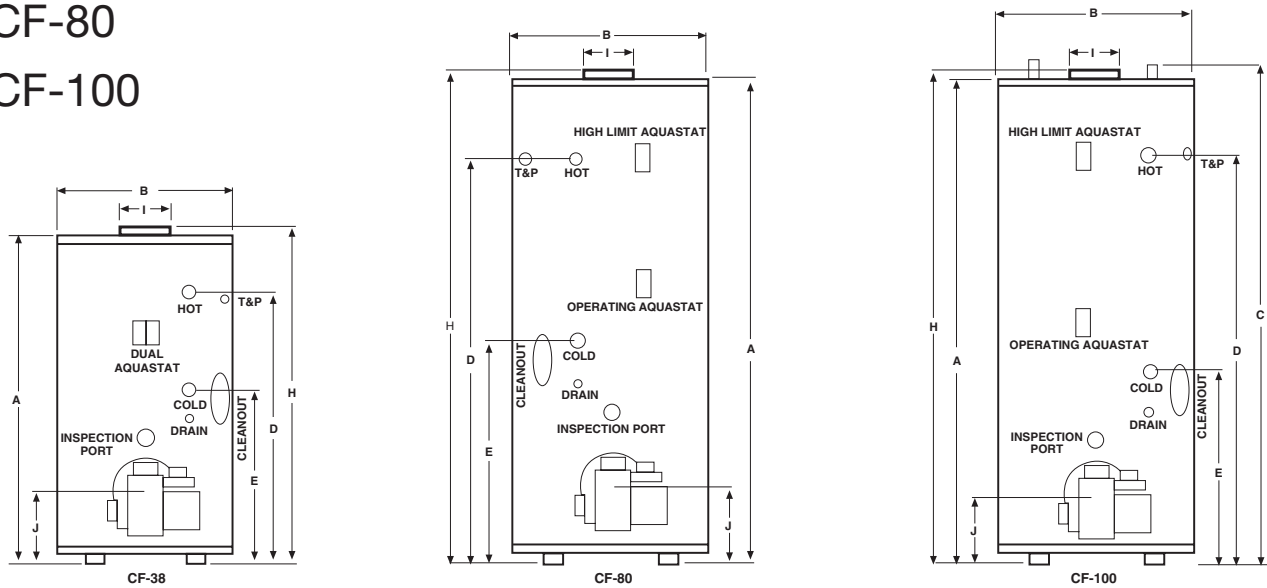


# Commercial Energy Saver Multi Flue Oil-Powered Models

CF-38

CF-80

CF-100



## ENERGY SAVER MODELS

MODEL NUMBER	DIMENSIONS IN INCHES													STD. SHIPPING WEIGHT (LBS.)*	ASME SHIPPING WEIGHT (LBS.)*
	A	B	C	D	E	H	I	J	FL. TO C/L BURNER OPENING	WATER CONN DIA.	HIGH LIMIT & AQUASTAT TAPPING	RELIEF VALVE OPENING	DRAIN VALVE TAPPING		
CF-38-3	51½	28⅝	—	42¼	27	52½	8	11¼	1½ (F&R)	¾	1	¾	403	—	
CF-80-3	73½	32	—	62½	34¼	75	8	11¼	1½ (F) 2 (R)	¾	1	¾	825	850	
CF-100-3	73½	32	75½	63½	30¼	75	8	10½	1½ (T&F) 2 (R)	¾	1	¾	735	768	

MODEL NUMBER	DIMENSIONS IN MILLIMETERS													STD. SHIPPING WEIGHT (KG)*	ASME SHIPPING WEIGHT (KG)*
	A	B	C	D	E	H	I	J	FL. TO C/L BURNER OPENING	WATER CONN DIA.	HIGH LIMIT & AQUASTAT TAPPING	RELIEF VALVE OPENING	DRAIN VALVE TAPPING		
CF-38-3	1299	719	—	1073	686	1337	203	286	38 (F&R)	19	25	19	183	—	
CF-80-3	1867	813	—	1597	883	1905	203	298	38 (F) 51 (R)	19	25	19	370	386	
CF-100-3	1867	813	1918	1603	775	1905	203	267	38 (T&F) 51 (R)	19	25	19	332	348	

\* Does not include burner and controls.

T - Top Water Connection  
R - Rear Water Connection  
F - Front Water Connection

The Top Water Connections for the CF-100 is 23" on center.

The Top Hot Water Connection is (76½"), 1" higher than the Cold Water Connection (75½").

# Specifications for Commercial Multi Flue Water Heaters

	CF-38	CF-80	CF-100
Tank Capacity Gallons	38	80	100
Number of Flues	11	20	12
Firing Rate Range GPH	1.75 to 2.50	3.50 to 5.00	2.50 to 3.00
Model Number	CF-38-350-3	CF-80-700-3(A)	CF-100-420-3(A)
Firing Rate GPH	2.50	5.00	3.00
Btu/hr Input	350,000	700,000	420,000
Recovery Rate – 100°F Rise	334	665	410
– 90°F Rise	371	740	456
Model Number	CF-38-315-3	CF-80-630-3(A)	CF-100-350-3(A)
Firing Rate GPH	2.25	4.50	2.50
Btu/hr Input	315,000	630,000	350,000
Recovery Rate – 100°F Rise	304	608	355
– 90°F Rise	338	676	395
Model Number	CF-38-280-3	CF-80-560-3(A)	–
Firing Rate GPH	2.00	4.00	–
Btu/hr Input	280,000	560,000	–
Recovery Rate – 100°F Rise	273	543	–
– 90°F Rise	304	604	–
Model Number	CF-38-245-3	CF-80-490-3(A)	–
Firing Rate GPH	1.75	3.50	–
Btu/hr Input	245,000	490,000	–
Recovery Rate – 100°F Rise	240	483	–
– 90°F Rise	267	537	–
T&P Valve	Installed	Installed	Included
Dual Aquastat	Installed	Installed	Installed
Maximum Operating Temperature	180°F	180°F	180°F
Flue Collar Size	8"	8"	8"
Number of Anodes	3	4	4
Water Connection Location	Front	Front	Front & Top
Water Connection Type	1½" Male NPT	1½"	1½" & 1½"
Auxillary Connections Location	Rear – 1½"	Rear – 2"	Rear – 2"
Auxillary Connections Type	1½" Female NPT Capped	2" Capped	2" Capped
Hand Hole Clean Out	Included	Included	Included
Water Heater Shipping Weight – lbs.	403	825	735
Water Heater Height	51½"	73½"	73½"
Water Heater Diameter	28¼"	32"	32"
Water Heater Packaging	TriWall Carton	Wood Crate	Wood Crate

(A) ASME Construction available. For ASME construction add "A" to the model number as displayed (Ex. CF-80-490-3A).

**Aero Oil Burner:** The HF-AFC Flame Retention High Speed Oil Burner will be supplied with the following features as standard:

- Pre and Post purge relay
- Solenoid oil valve
- 2 stage oil pump
- 1/4 hp. 3450 rpm, PSC motor
- Solid State transformer

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These models meet or exceed the Thermal Efficiency and Standby Loss Requirements of ASHRAE 90.1b (current edition).

All models are design certified for up to 180°F. (82°C) application as an Automatic Storage Heater, and an Automatic Circulating Tank 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 will supply 180°F (82°C) sanitizing and 140°F (60°C) general purpose hot water simultaneously. These models can be used either as a single unit or in multiples connected in parallel.

#### **Sample Specification**

The water heater shall be a Bradford White model \_\_\_\_\_ with a rated storage capacity of not less than \_\_\_\_\_ gallons, a minimum input of \_\_\_\_\_ BTUH/KW, a firing rate of \_\_\_\_\_ GPH/LPH, and a minimum recovery of \_\_\_\_\_ GPH/LPH at 100°F (56°C). temperature rise. It shall be design certified 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. The tank shall have multiple extruded magnesium anode rods installed in separate head couplings and extended to within three inches (76mm) of the bottom. This water heater shall be equipped with 304L stainless steel cold water inlet, Hydrojet® Sediment Reduction System, an ASME rated T&P relief valve and HF-AFC flame retention high speed oil burner (115V AC required). The entire installation shall be made in compliance with state and local codes and ordinances.

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

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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**  
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**For *Everything* Hot Water**