

NATCO **FlexFlame 94**

94% Efficient, 100% New Water Heater

Why Flex?

- Use with or without a hot water storage tank
- Prioritize temperature or instantaneous flow rate
- 199,950 BTU input per heater: boiler rooms usually not req'd
- 3" PVC vent & fresh-air length up to 100' in different pressure planes
- Internal 1/2 gallon buffer tank

What's New?

- 98% Combustion Efficiency, 94% Thermal Efficiency
- 316L Stainless Steel Flexible Heat Exchanger with large 3/4" inside diameter.



Opening New Possibilities for the Design of Water Heating Systems for Vended and Commercial Laundries.



Where Efficiency Meets Common Sense
I-888-OK NATCO www.nationalcombustion.com

NATCO FlexFlame 94

Specifications and Data

Instantaneous Hot Water Production Rate Per Heater

Size	Gas Data Input BTU's/hr	Gallons Per Minute at Temperature Rise		
		GPM @ 60° Rise	GPM @ 80° Rise	GPM @ 100° Rise
FlexFlame94	199,950	6.3	4.7	3.8

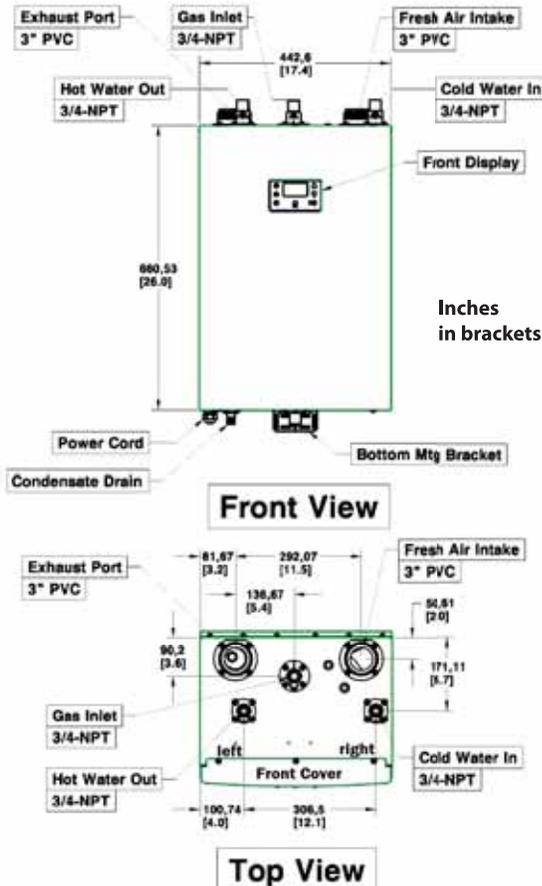
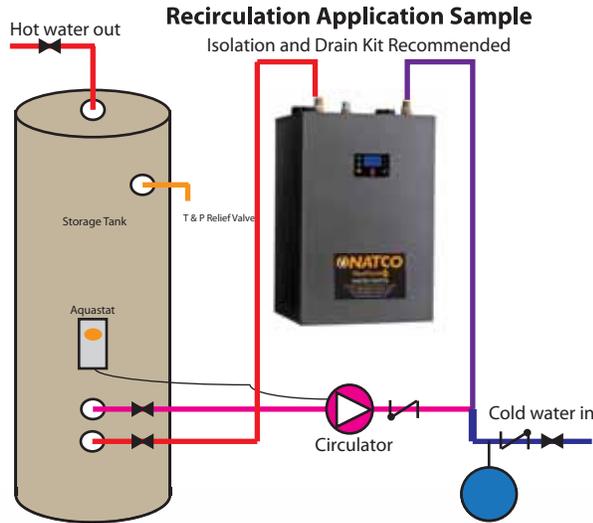
Note: Systems with 2 heaters have 2 times the instantaneous hot water production rate, etc.

Hourly Recovery Rate for Systems Circulating with a Storage Tank

Size	Gas Data Input BTU's/hr	Storage Tank Gallons	Gallons per Hour at Temperature Rise			Sized for # of Washers Approx*
			GPH @ 60° Rise	GPH @ 80° Rise	GPH @ 100° Rise	
FlexFlame94-1	199,950 X 1	80	378	282	228	14
FlexFlame94-2	199,950 X 2	119	756	564	456	28
FlexFlame94-3	199,950 X 3	119	1134	846	684	42
FlexFlame94-4	199,950 X 4	200	1512	1128	912	56

* All systems should be sized by NATCO based on detailed job information. Call 1-888-OK-NATCO.

Parameters	FlexFlame94
Type	Indoor, Wall hung, Fully Condensing
Fuel	Preset for NG / LP convertible
Minimum / Maximum Input (Btu/h)	30,000 / 199,950
Combustion efficiency	98%
Thermal Efficiency	94%
Energy factor	0.93
Dimensions H X W X D (inches)	25.9 X 17.5 X 14.2 (3.7 cu. ft)
Weight (lbs)	90
Water Inlet / Outlet Connection	3/4" NPT
Gas Inlet Connection	3/4" NPT
Minimum Flow Rate	.6 GPM
Ignition	Electronic Spark Ignition
Venting Type	Direct Vent (2 pipe - intake & exhaust), Power vent (1 pipe - exhaust only)
Venting Materials	Sch. 40 PVC, Sch. 40 CPVC, Polypropylene, Stainless Steel
Max 3" Vent Length - Single Pipe / Power Vent	200 ft, deduct 5 ft per 90° elbow
Max 3" Vent Length - Two pipe / Direct Vent	100 ft, deduct 5 ft per 90° elbow
Max 2" Vent Length - Single Pipe / Power Vent (2" not allowed at elevations above 4,000 ft)	26 ft, deduct 5 ft per 90° elbow
Max 2" Vent Length - Two Pipe / Direct Vent (2" not allowed at elevations above 4,000 ft)	21 ft, deduct 5 ft per 90° elbow
Common Venting	Yes
Safety	Flame Rod, Thermal Fuse, Overheat Prevention Device, Fan Speed Monitor, Flue Temperature Monitor, Blocked Vent Detector, Water Leak Detector, Water Shut Off Valve, 2X10A Fuse, Dual Flame Sensing
Water Pressure Min / Max (PSI)	30 / 150
NG/LP- Minimum Static Gas Pressure 1/2"	5" (non-corrugated, black iron)
NG/LP- Minimum Static Gas Pressure 3/4"	2.5" (non-corrugated, black iron)
NG/LP - Maximum Static Gas Pressure	14"
Gas Pressure for Adjustments	8" for NG, 11" for LP
Electrical	120V AC, 60 Hz
Power Consumption	500W (Max 4.2 Amps), 8W (Standby)
Cascading	Masterless, 10 units
Heat exchanger	Expandable, Stainless 316L
Warranty (with recirculation)	Heat Exchanger: 6 years, Parts: 5 years, Labor: 1 year



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