



Thermoplastic Water Heaters

Available in 30, 55, 80, and 119 Gallon Capacities

FEATURES

Resilient Construction

- Long-life, thermoplastic tank construction
- Seamless vessel construction
- Impervious to water quality variations

Easy to Install

- All plumbing connections are top-mount (on all models)
- Single bolt stainless steel collar streamlines coil/element access

Light weight

No required maintenance

No anode rod required

High Accuracy Temperature controls with Thermistors

- Adjustable setpoint & differentials

Warranty

- 10 year, non-prorated residential warranty
- Optional lifetime residential warranty
- 5 year non-prorated commercial warranty



Vaughn Combines Exceptional Performance with High Efficiency

The Featherweight line by Vaughn Thermal Corporation represents the latest in water heater and storage tank innovation, continuing Vaughn's reputation for dependability and longevity in a new lightweight package. With standard top-mount connections and a single bolt stainless steel collar across all models, Featherweight tanks ensure a streamlined installation process—whether an electric water heater, indirect water heater, or storage tank—while the monolithic vessel construction will provide years of worry-free service in any residential or commercial application.

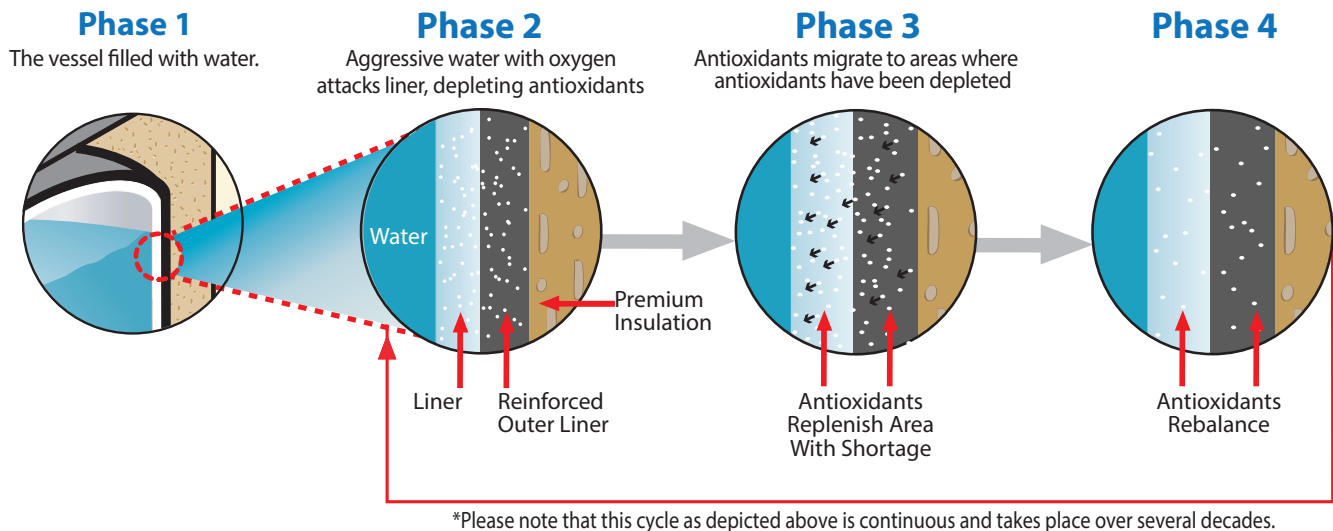
Long Life - Light Weight

What is Featherweight?

The Vaughn Featherweight line of water heaters and storage tanks uses proprietary technology to fuse a polybutene inner liner with a polypropylene and fiberglass structural outer layer at the molecular level to create a lightweight, monolithic composite vessel with seamless construction.

How does Featherweight interact with water

The two bonded layers of the Featherweight tank continuously replenish and rebalance antioxidant levels throughout the vessel over several decades of service.



Tank Lining Comparison

Two common water heater construction materials are glass/enamel lined and stainless steel vessels. We compared the two against our thermoplastic lined tank.

Glass Lined Tanks

- Defects in glaze require anode rod
- Requires regular service calls
- Operating at higher temperatures voids warranty

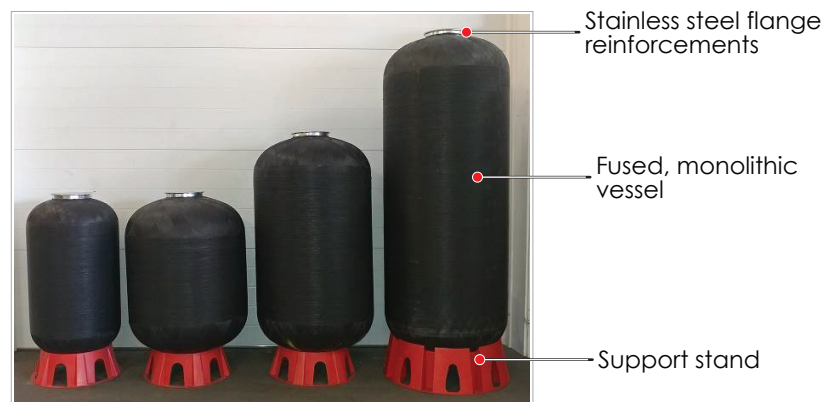
Stainless Steel Tanks

- Chlorides in domestic water can compromise construction
- Welds represent structural weak points
- Expensive to produce

Featherweight (thermoplastic)

- Seamless construction
- No anode rod needed
- No required maintenance
- Immune to water quality variations
- Tolerates higher temperatures and pressures

Thermoplastic Vessel

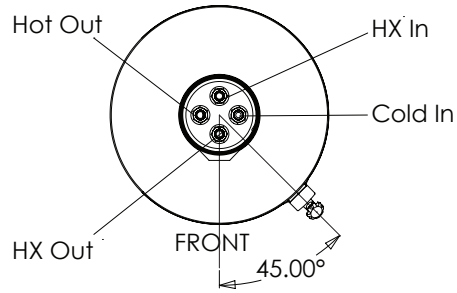


Currently available in 30, 55, 80, and 119 gallon configurations. Additional capacities are in development.

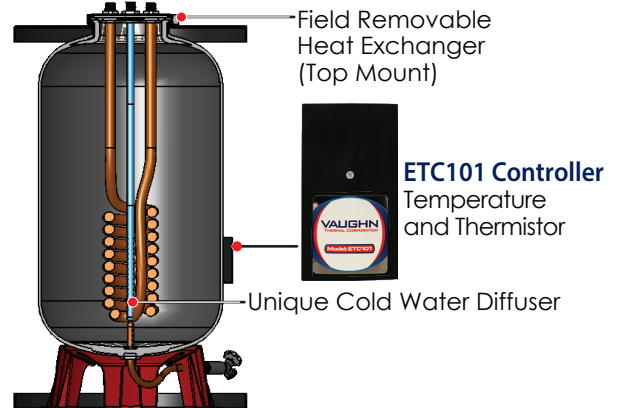
Indirect



Top View



Side View



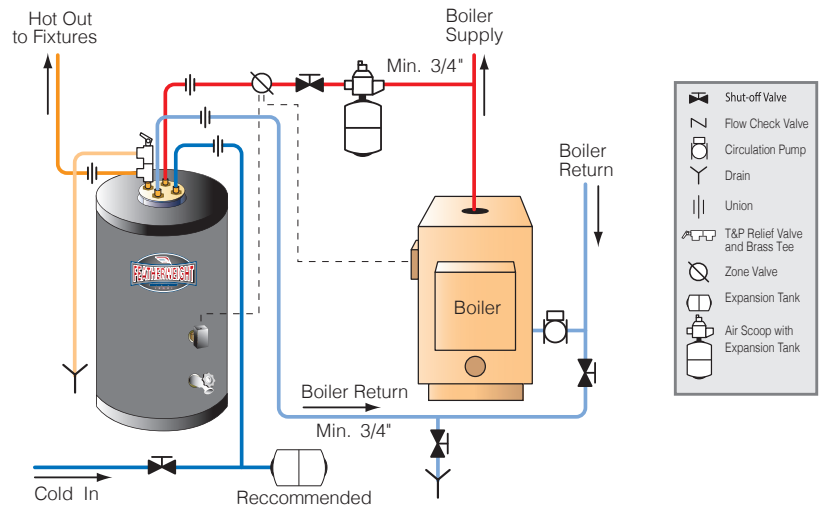
DIMENSIONS

Model	Overall Dimensions (Inches)		Shipping Weight (Lbs)	Domestic Water		Boiler Water Supply/Return (Heating Coil)	T&P Relief Valve
	Height	Diameter		Cold Water Inlet	Hot Water Outlet		
P30F	40.5"	22.75"	70	3/4" MNPT	3/4" FNPT	3/4" MNPT	3/4" FNPT
P55F	41"	28"	95	3/4" MNPT	3/4" FNPT	3/4" MNPT	3/4" FNPT
P80F	53.5"	28"	125	3/4" MNPT	3/4" FNPT	3/4" MNPT	3/4" FNPT
P80FD	53.5"	28"	125	1 1/2" MNPT	1 1/2" FNPT	1" MNPT	3/4" FNPT
P120FD	74"	28"	155	1 1/2" MNPT	1 1/2" FNPT	1" MNPT	3/4" FNPT

PERFORMANCE

Model	First Hour Rating	Boiler Output (6 GPM @ 200°F)	Boiler Water Continuous Flow		Standby Heat Loss
	135°F	BTU/HR	Flow Rate (GPM)	Head Loss (ft. w.c.)	°F/HR
P30F	200	123,000	8 GPM	18.7	0.83
P55F	212	145,000	8 GPM	18.7	0.61
P80F	300	128,000	8 GPM	18.7	0.42
P80FD	382	194,000	14 GPM	16	0.42
P120FD	478	243,000	14 GPM	20	0.41

Piping Diagram



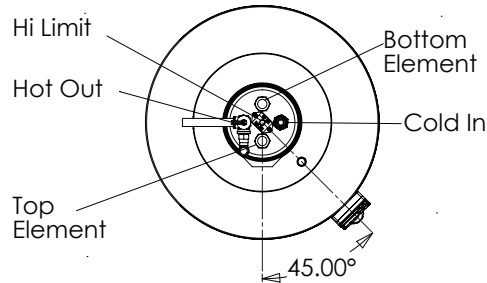
CLEARANCE REQUIREMENTS

Capacity (Gallons)	Measured From Floor
	Height Clearance Required (to remove heat exchanger (in.))
30	68"
55	69"
80	93"
120	134"

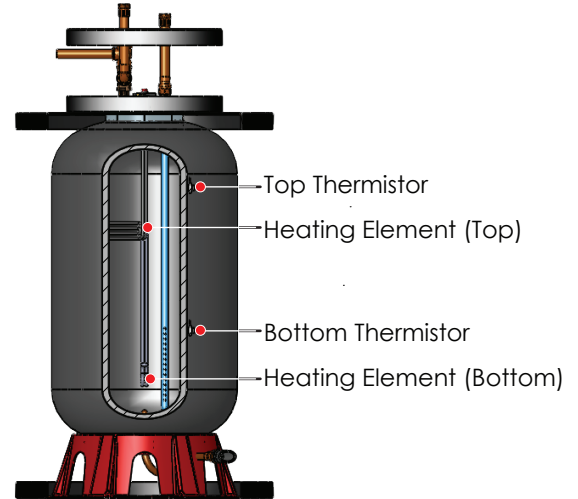
Electric



Top View



Side View



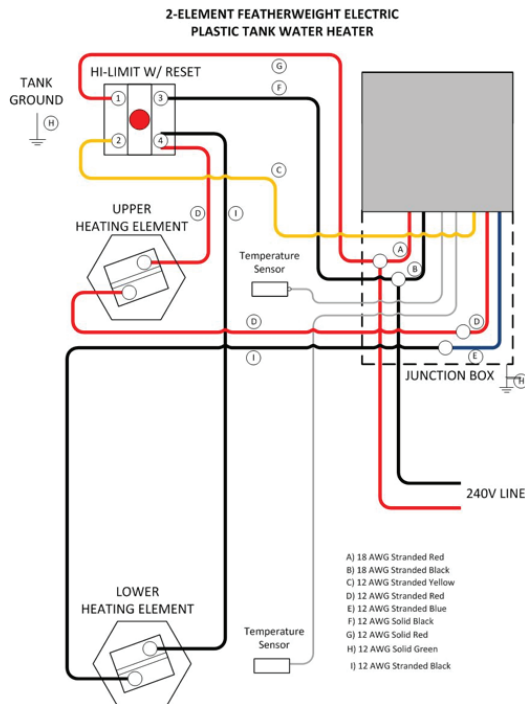
DIMENSIONS

Model	Overall Dimensions (Inches)		Connections	
	Height	Diameter	Cold Water Inlet	Hot Water Outlet
MP30F	40.5"	25"	3/4" Union	3/4" Union
MP55F	41"	30"	3/4" Union	3/4" Union
MP80F	53.5"	30"	3/4" Union	3/4" Union
MP120F	74"	30"	3/4" Union	3/4" Union

CLEARANCE REQUIREMENTS

Capacity (Gallons)	Measured From Floor
	Height Clearance Required to remove electric elements (in.)
30	58"
55	57"
80	69"
120	101"

Wiring Diagram (non-simultaneous)



Top Mount Element Assembly

- Low watt-density incoloy elements
- 3800, 4500, and 6000W elements available. additional configurations coming soon
- No need to drain tank to service
- Single bolt stainless collar clamp makes element assembly simple, streamlining service calls



Featherweight Controller (ETC)

Controller (ETC)

- Easily adjustable setpoint
- Streamlined user interface
- Vacation mode
- Optional customer override
- Full unit diagnostics

