



Light weight, long-life, and seamless thermoplastic tank construction.

Impervious to water quality variations.

All plumbing connections are top-mount (on all models).

Single bolt stainless collar streamlines coil access.

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

An innovative light weight water heater

The Featherweight (FW) line by Vaughn Thermal Corporation represents the latest in water heater and storage tank innovation. With standard top-mount connections and a single bolt stainless steel collar across all models, Featherweight tanks ensure a streamlined installation process. The single monolithic vessel construction will provide years of worry-free service in any residential or commercial application.

Applications

Residential, restaurants, schools, office buildings, and much more. Especially well suited for applications where the installation site is difficult to get to.



Featherweight PF Indirect Water Heater

Available in 30, 45, 55, 80, & 119 Gallon Capacities

PF



FW SERIES

978-462-6683
vaughncorp.com
sales@vaughncorp.com

THE DIFFERENCE: THERMOPLASTIC LINING

Thermoplastic lined tanks offer significant longevity, trouble-free operation and a lower lifetime cost.

Thermoplastic lining provides guaranteed 100% coverage with a minimum thickness of 0.125” Thermoplastic over all internal tank surfaces. In comparison, glass lining is approximately 0.005” thick (thickness of a single piece of paper).

- Made with polybutene and polypropylene
- Accelerated age and temperature testing = **40+ year service life**
- NSF-61 material
- 100% Recyclable
- Lightweight (**<150 lbs shipping weight**)



The inner liner structure and the reinforced structure are highly compatible. During the manufacturing process both structures are fused together while molten to form a single structure called a monolithic structure.

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.

Phase 1

The vessel filled with water

Phase 2

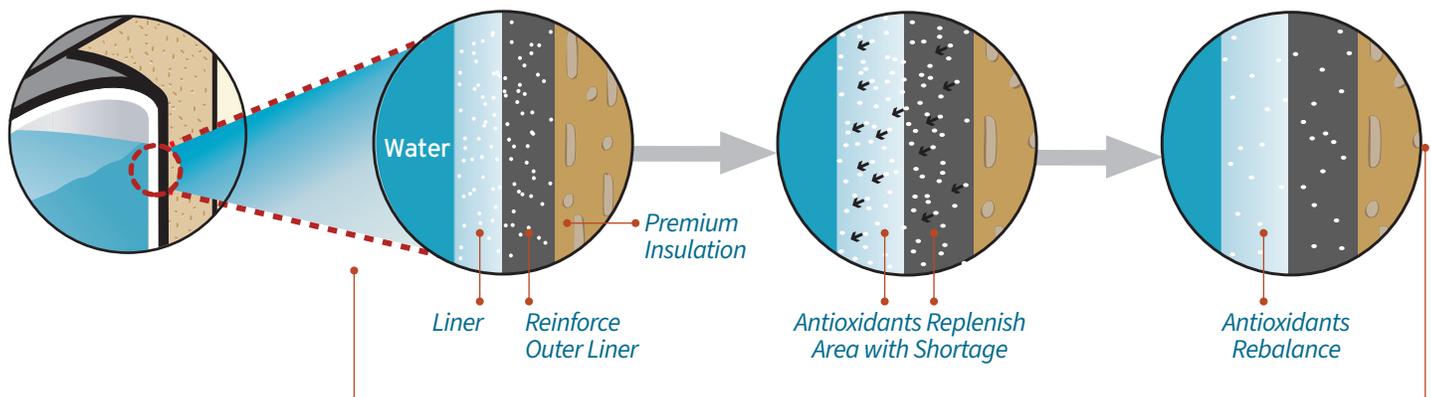
Aggressive water with oxygen attacks liner, depleting antioxidants

Phase 3

Antioxidants migrate to areas where antioxidants have been depleted

Phase 4

Antioxidants Rebalance



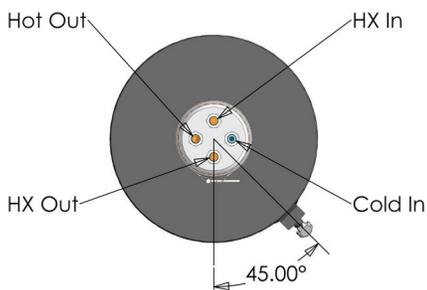
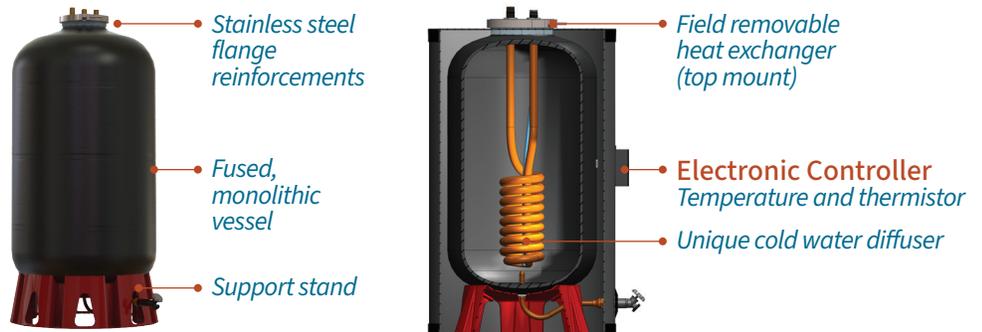
*Please note that this cycle as depicted above is continuous and takes place over several decades.

TANK SPECIFICATIONS

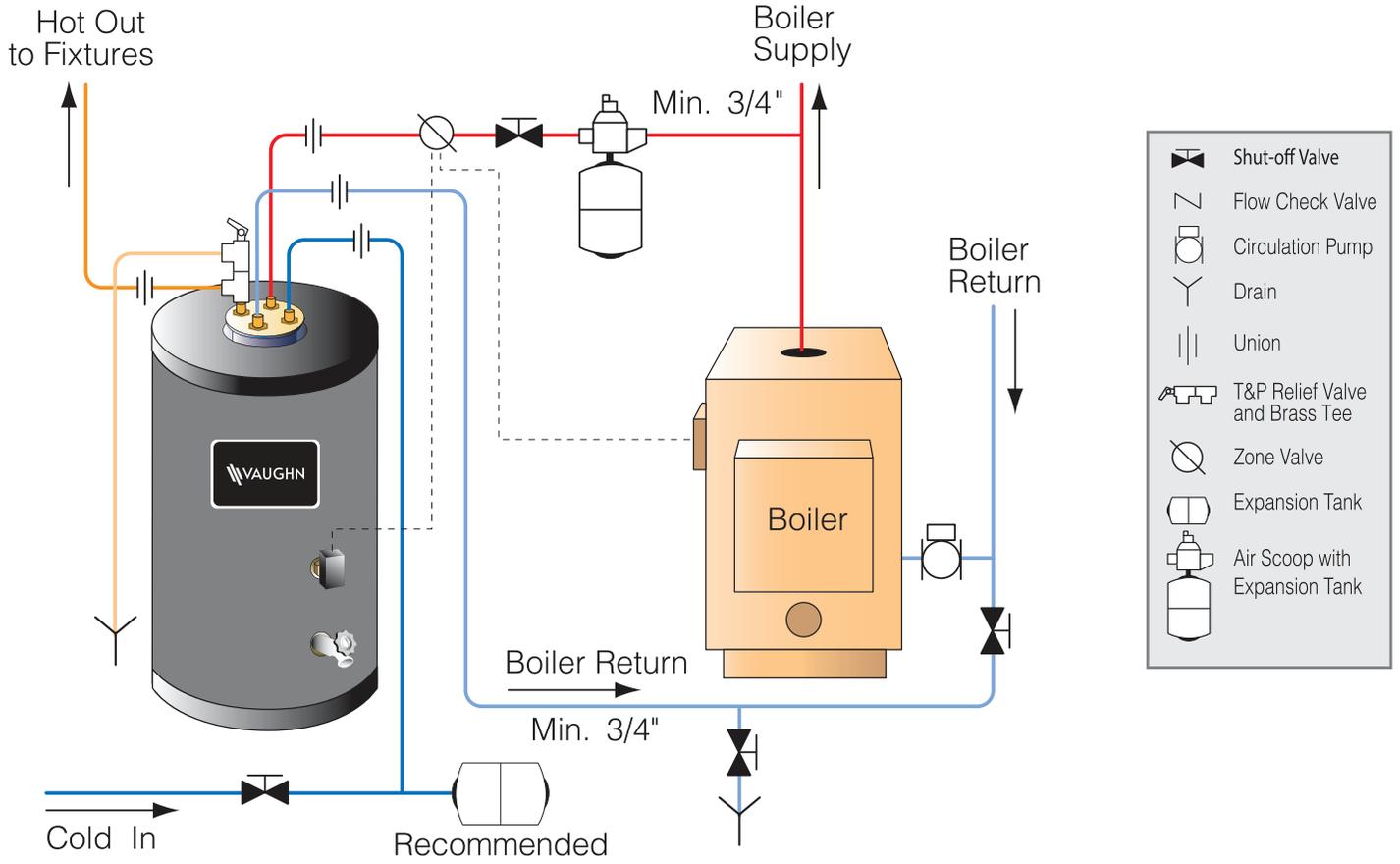
Model	Storage Capacity	Overall Dimensions (inches)		Shipping Weight LBS	Domestic Water		Boiler Water Supply/Return (Heating Coil)	T&P Relief Valve
	GAL	Height	Diameter		Cold Water Inlet	Hot Water Outlet		
P30F	30	40.5	22.75	85	3/4" MNPT	3/4" FNPT	3/4" MNPT	3/4" FNPT
P45F	45	53.5	22.75	120	3/4" MNPT	3/4" FNPT	3/4" MNPT	3/4" FNPT
P45FD	45	53.5	22.75	130	1½" MNPT	1½" FNPT	1" MNPT	3/4" FNPT
P55F	55	41	28	100	3/4" MNPT	3/4" FNPT	3/4" MNPT	3/4" FNPT
P80F	80	53.5	28	140	3/4" MNPT	3/4" FNPT	3/4" MNPT	3/4" FNPT
P80FD	80	53.5	28	150	1½" MNPT	1½" FNPT	1" MNPT	3/4" FNPT
P120FD	119	74	28	155	1½" MNPT	1½" FNPT	1" MNPT	3/4" FNPT

PERFORMANCE SPECIFICATIONS
AHRI LISTED Featherweight Indirect Results

Model	Potable Volume	1 st Hour Rating	Continuous Draw	Minimum Heat Source Output	Heat Source Friction Loss	1st Draw	Standby Loss	Heat Source Volume	Minimum Heat Source Flow
	GAL	GAL/HR	GAL/HR	BTU/HR	FEET W.C.	GAL	F°	GAL	GPM
P30F	30	199	177	115,000	18.7	22	0.8	0.3	8
P45F	45	221	184	115,000	20	37	0.6	0.3	8
P45FD	45	354	315	205,000	16	39	0.7	0.6	14
P55F	55	217	177	115,000	18.7	40	0.6	0.3	8
P80F	80	249	183	114,000	20	66	0.5	0.3	8
P80FD	80	381	315	199,000	16	66	0.6	0.6	14
P120FD	119	477	381	244,000	20	96	0.5	0.8	14

TOP VIEW

SIDE VIEW


PLUMBING DIAGRAM



CLEARANCE REQUIREMENTS

Capacity (gallons)	Measured from Floor	
	Height Clearance Required to Remove Heat Exchanger (inches)	
30	68	
45	93	
55	69	
80	93	
119	134	

