



Grid-Enabled electronic thermostat with communication interface

Communication protocol neutral

Precise temperature control

Activation key functionality on all units over 55 Gallons

WiFi Communication, 4G LTE, CTA2045A

V-Grid series combines innovative design, high performance, energy efficiency, and a 10 yr warranty

Vaughn's V-Grid water heaters will meet the current requirements of utility demand response and load management programs while setting the stage for the introduction of Grid-Interactive Water Heating (GIWH). GIWH adds bi-directional control to electric resistance water heaters allowing the utility or third-party aggregator to rapidly and repeatedly turn them on and off or incrementally increase or decrease their power. When equipped with a grid-interactive control device, a V-Grid electric thermal storage water heater becomes a 'thermal battery' for storing electric energy, having the ability to follow locational marginal pricing, providing fast regulation service and better integrating renewable energy, thereby effectively reducing the carbon footprint of the appliance. Available from 45 to 119 gallon capacities, V-Grid water heaters are designed to meet the long-term performance requirements of the electric utility while seamlessly providing for the hot water needs of the household.



V-Grid Featherweight Water Heaters

Available in 45, 55, 80 and
119 Gallon Capacities

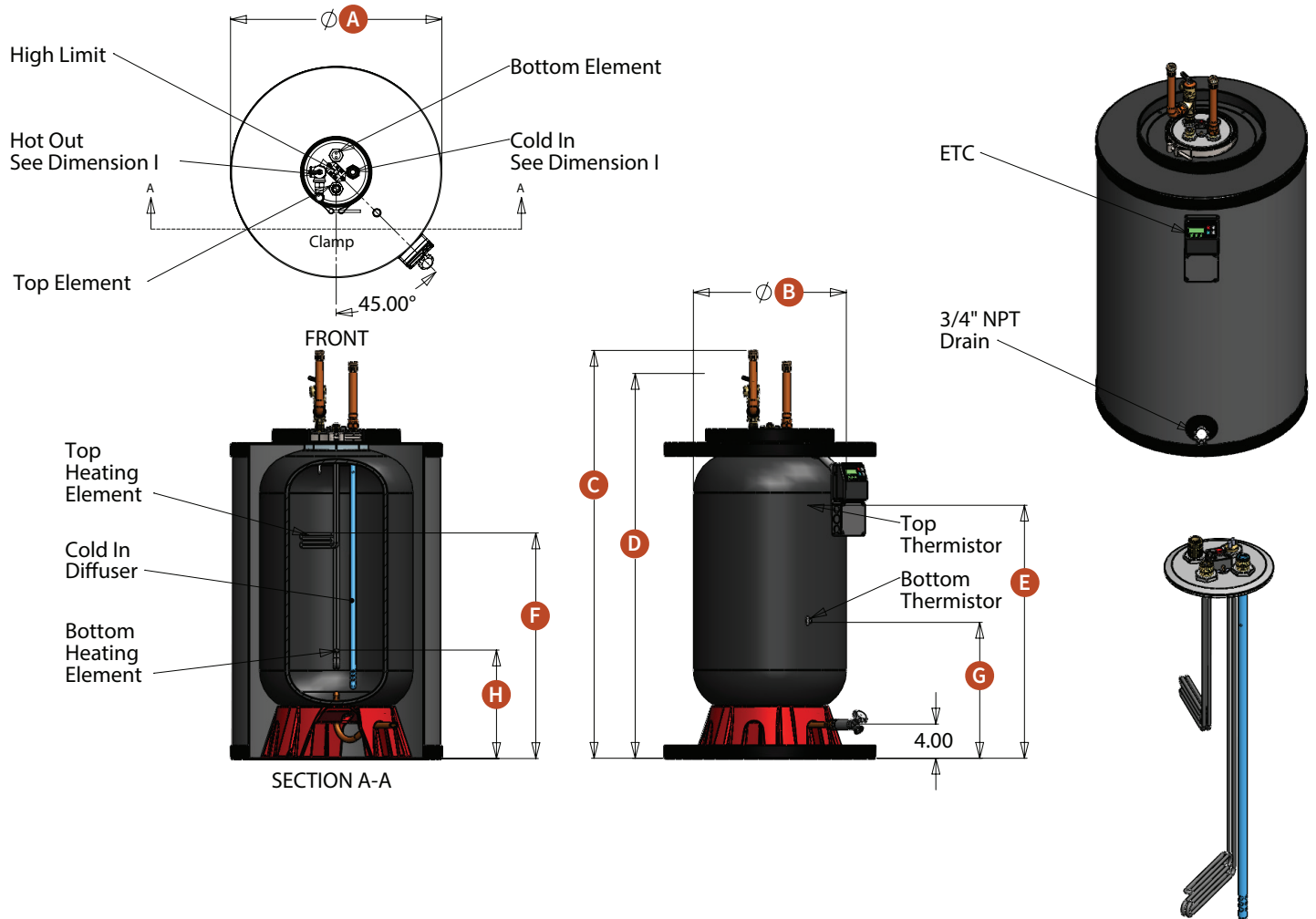
VG-MP



FW SERIES

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V-GRID FEATHERWEIGHT SPECIFICATIONS



TANK SPECIFICATIONS (in Inches)

MODEL	A	B	C	D	E	F	G	H	I
	Jacket Diameter	Tank Diameter	Height to Hot Out	Height to Pan	Height to Top Thermistor	Height to Top Element	Height to Bottom Thermistor	Height to Bottom Element	Cold In & Hot Out Fitting Size
MP45F	25	18	62	58.5	44	39.5	16	10	3/4" NPT
MP55F	30	24	49.5	46.375	30	27	16	13	3/4" NPT
MP80F	30	24	62	58.5	44	39.5	15	10	3/4" NPT
MP120F	30	24	82.5	78	63	59	15	10	3/4" NPT

Note: Meets or exceeds legislatively-mandated efficiency levels for Grid-Enabled ETS water heaters

PRODUCT SPECIFICATIONS

Tank	Featherweight Thermoplastic
Capacities	80, 119 Gallon
Orientation	Vertical
Voltages	208V or 240V
Phase	1 Phase
Inlet Size	3/4" Female NPT
Outlet Size	3/4" Male NPT
Drain Size	3/4" GHT
Relief valve size	3/4" Female NPT
Relief valve type	T&P, 210°F, 150 psi
Thermostat range	110-194°F (surface)
Hi-Limit	190°F manual reset
Design TP	300 psi
Elements	Incoloy sheathed
Insulation	3" polyurethane foam
Tank Warranty	10 Year non prorated, Lifetime warranty optional
Electrical warranty	1 Year
Jacket	High Impact Composite
Finish	White with black trim

GENERAL SPECIFICATIONS

Tank: The Vaughn Featherweight line of water heaters and storage tanks uses proprietary technology to fuse a polybutene inner liner with a polybutylene and fiberglass structural outer layer at the molecular level to create a lightweight, monolithic composite vessel with seamless construction designed for 150 psi working pressure and tested to 300 psi.

Plumbing: 3/4" NPT cold water inlet with non-corrosive dip tube which prevents incoming cold water from mixing too rapidly with the hot water in the tank and assures delivery of more hot water. 3/4" NPT outlet and relief valve fitting.

Electrical: Incoloy sheathed immersion heating elements with low watt density for prolonged life in 208- or 240-volt single phase. An adjustable electronic controller operates in 110-170°F range. Integral hi-limit with manual reset button for over-temperature protection is factory set at 190°F. Upper and lower element configurations are factory wired for non-simultaneous operation.

Insulation: Highly efficient thick polyurethane foam insulation meets or exceeds the requirements of ANSI/ASHRAE/IESNA 90.1-2019 standards for energy efficiency and heat loss.

Jacket: The exterior protective jacket is constructed from high impact composite material which cannot rust or corrode and is maintenance free.



Vaughn is the leading manufacturer of HydraStone (HS) lined and Featherweight (FW) Thermoplastic water heaters. We manufacture 30-120 gallon electric, hybrid, indirect, and solar water heaters for residential and commercial applications as well as energy controllers and electronic devices.

To learn more, contact us

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V1027-A-20250701