VAUGHN
a nudyne company

Grid-Enabled electronic thermostat with communication interface

Communication protocol neutral

Precise temperature control

Activation key functionality on all units over 55 Gal

WiFi Communication, 4G LTE, CTA2045A

V Grid series combines innovative design, high performance, energy efficiency and a 10 year 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 80 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.

Intertek

MADE IN USA
BUY AMERICAN ACT COMPLIANT
CONTAINS IMPORTED COMPONENTS

V-Grid Hydrastone® Water Heaters

Available in 80, 100, and 119 Gallon Capacities

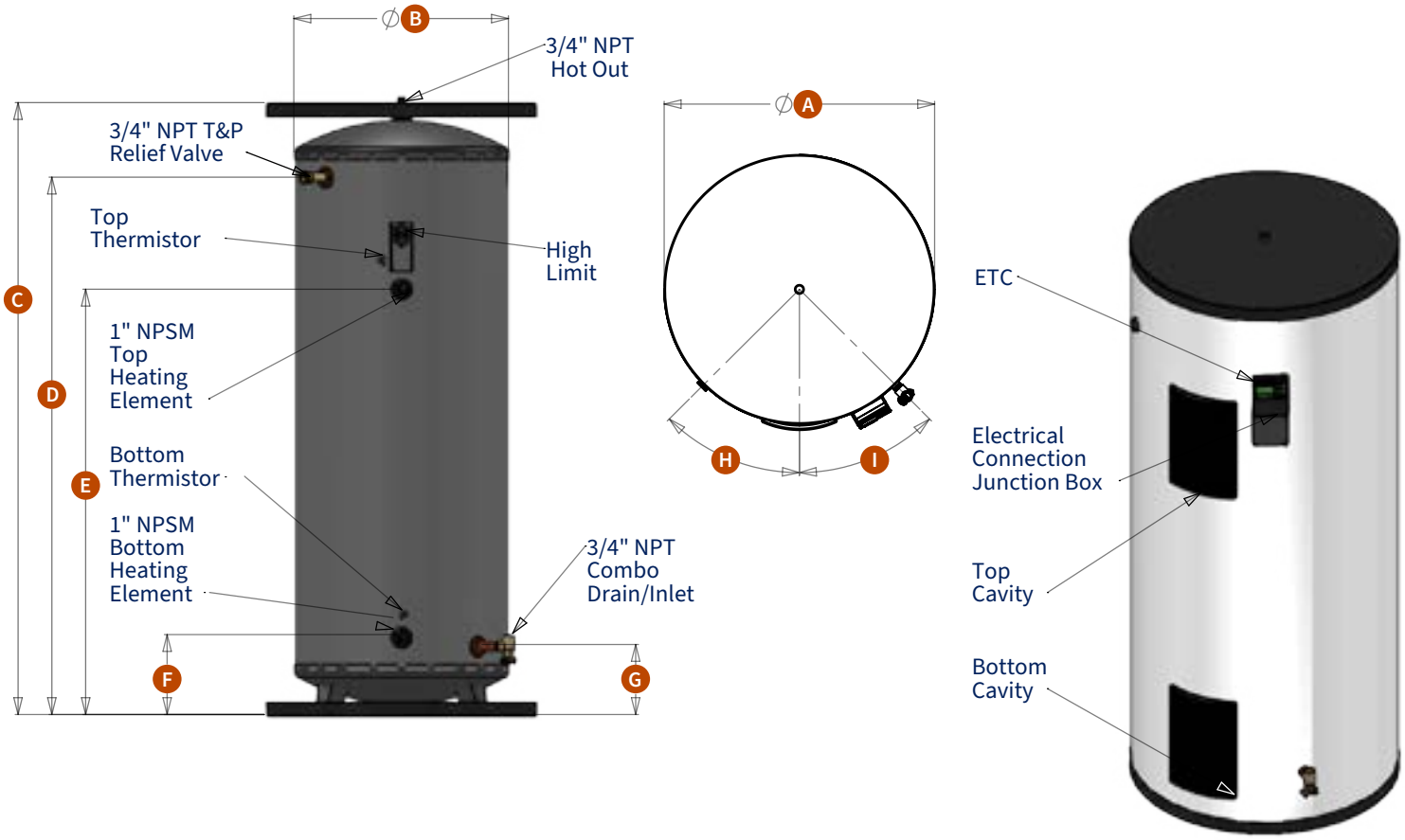
VG-EW



HS SERIES

978-462-6683
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V-GRID HYDRASTONE®-LINED SPECIFICATIONS



TANK SPECIFICATIONS (in Inches)

MODEL	A	B	C	D	E	F	G	H	I
	Jacket Diameter	Tank Diameter	Height to Pan	Height to T&P Relief Valve	Height to Top Element	Height to Bottom Element	Height to Combo Drain	Angle of T&P Relief Valve	Angle of Combo Drain
ME80TE	25	19	72.75	64.375	47.875	8.875	7.875	50	50
ME100E	28	22	68.5	60.375	47.875	8.875	7.875	45	45
ME120E	30	24	68.75	60.375	47.875	8.875	7.875	45	45

PRODUCT SPECIFICATIONS

Tank	HydraStone lined steel
Capacities	80, 100, 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	200°F manual reset
Design TP	300 psi
Elements	Copper or 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 HydraStone® tank is all welded heavy steel construction designed for 150 psi working pressure and tested to 300 psi. Each tank is centrifugally lined with 1/2” thick seamless high density HydraStone lining with guaranteed 100% coverage of all steel surfaces. All tank openings are non-ferrous solid copper-silicon and are resistant to the corrosive effects of hot water.

Plumbing : 3/4" combination cold water inlet and drain, with non-corrosive strata flow diffuser which prevents incoming cold water from mixing too rapidly with the hot water in the tank and assures delivery of more hot water. A 3/4” hot water outlet with a uniquely designed built-in heat trap prevents heated water from radiating through the piping during standby periods.

Electrical: Copper or Incoloy sheathed immersion heating elements with low watt density for prolonged life in 120, 208, 240, 277, 480 volt single phase. An adjustable surface thermostat 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 exceed 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
a **nudyne** company

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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