VAUGHN
a nudyne company

Seamless HydraStone® cement lining provides long tank life

No sacrificial anode rod

High Impact composite jacket cannot rust or corrode

- 3" thick polyurethane foam insulation reduces standby heat loss to maximize operating efficiency
- Low-watt-density element and all copper/brass construction provides protection against mineral build up
- With no anode rod, maintenance is minimum
- ETL approved for radiant heating applications in the USA and Canada
- Residential 10-year tank base warranty, 1-year limited parts warranty

High-efficiency, long life electric water heater

The Vaughn ME residential electric water heater is a high-efficiency, reliable, long lasting HydraStone cement lined tank with proven components offering minimal standby heat loss. The ME is equipped with low-watt-density elements, thereby reducing the potential problem of premature failure due to mineral build-up. The unique cold water inlet gently diffuses the flow of cold water into the lower portion of the tank, resulting in improved stratification, energy efficiency and thermal storage performance. Available in a wide range of sizes, the ME is a versatile fit for residential use.

Applications

Single family and multi-family homes, apartment buildings, and condominiums.

Intertek

AHRI CERTIFIED

MADE IN USA
BUY AMERICAN ACT COMPLIANT
CONTAINS IMPORTED COMPONENTS

Residential Electric ME Water Heater

Available in 30, 40, 50, & 55 Gallon Capacities

ME



HS SERIES

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

PRODUCT SPECIFICATIONS

Tank	HydraStone® Lined Steel
Capacities	30, 40, 50, and 55 Gallons
Orientation	Vertical
Voltages	120 thru 480 Volt
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	110-180°F (surface)
Hi-Limit	190°F or 200°F Manual Reset
Design TP	300 psi
Elements	Incoloy Sheathed
Insulation	3" Polyurethane Foam
Tank Warranty	10 Year Non-Pro-Rated
Electrical Warranty	1 Year
Jacket	High Impact Composite
Finish	White with Black Trim

GENERAL SPECIFICATIONS

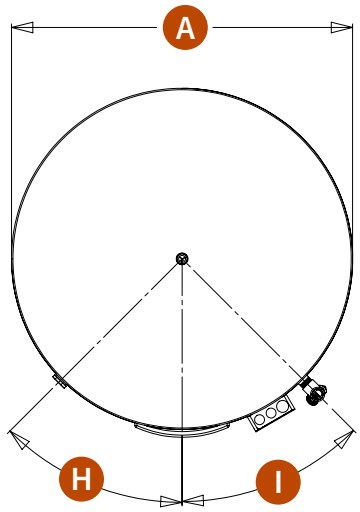
Tank: The Vaughn tank is all welded steel construction designed for 150 psi working pressure and tested to 300 psi. Each tank is centrifugally lined with 1/2" thick seamless high-density HydraStone with guaranteed 100% coverage of all steel surfaces. All tank openings are non-ferrous solid copper-silicon and are resistant to the corrosive effects of hot water. Bronze Fittings

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 ensures delivery of more hot water. A 3/4" hot water outlet with a built-in heat trap prevents heated water from radiating through the piping during standby periods.

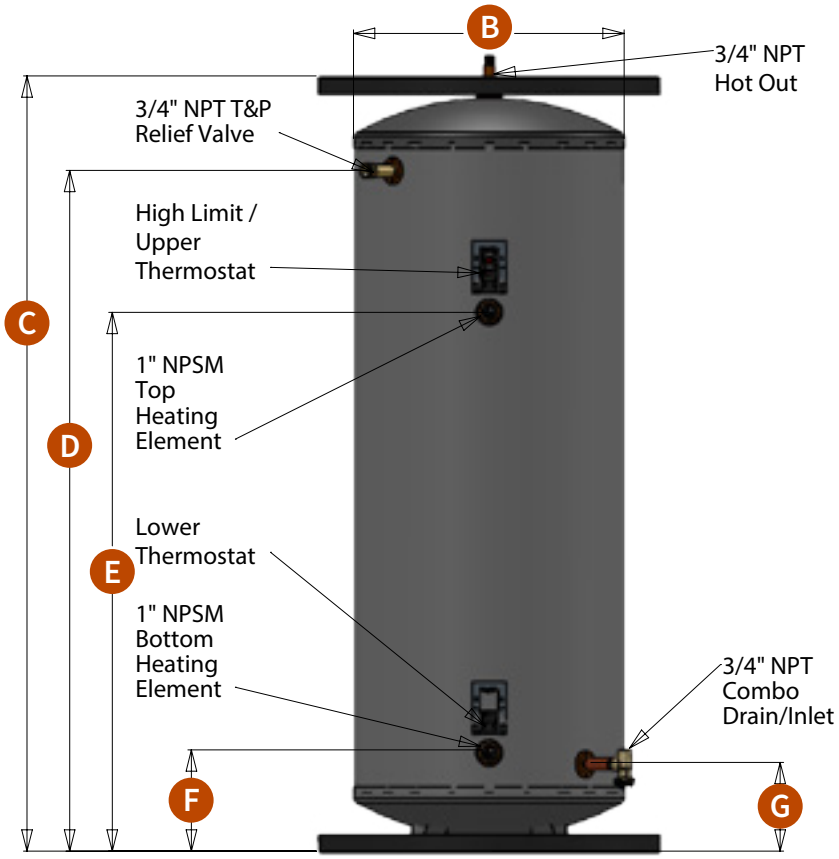
Electrical: Incoloy sheathed immersion heating elements with low watt density for prolonged life in 120, 208, 240, 277, and 480-volt single phase. An adjustable surface thermostat operates in a 110-180°F range. Integral hi-limit with a manual reset button for over-temperature protection is factory set 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.



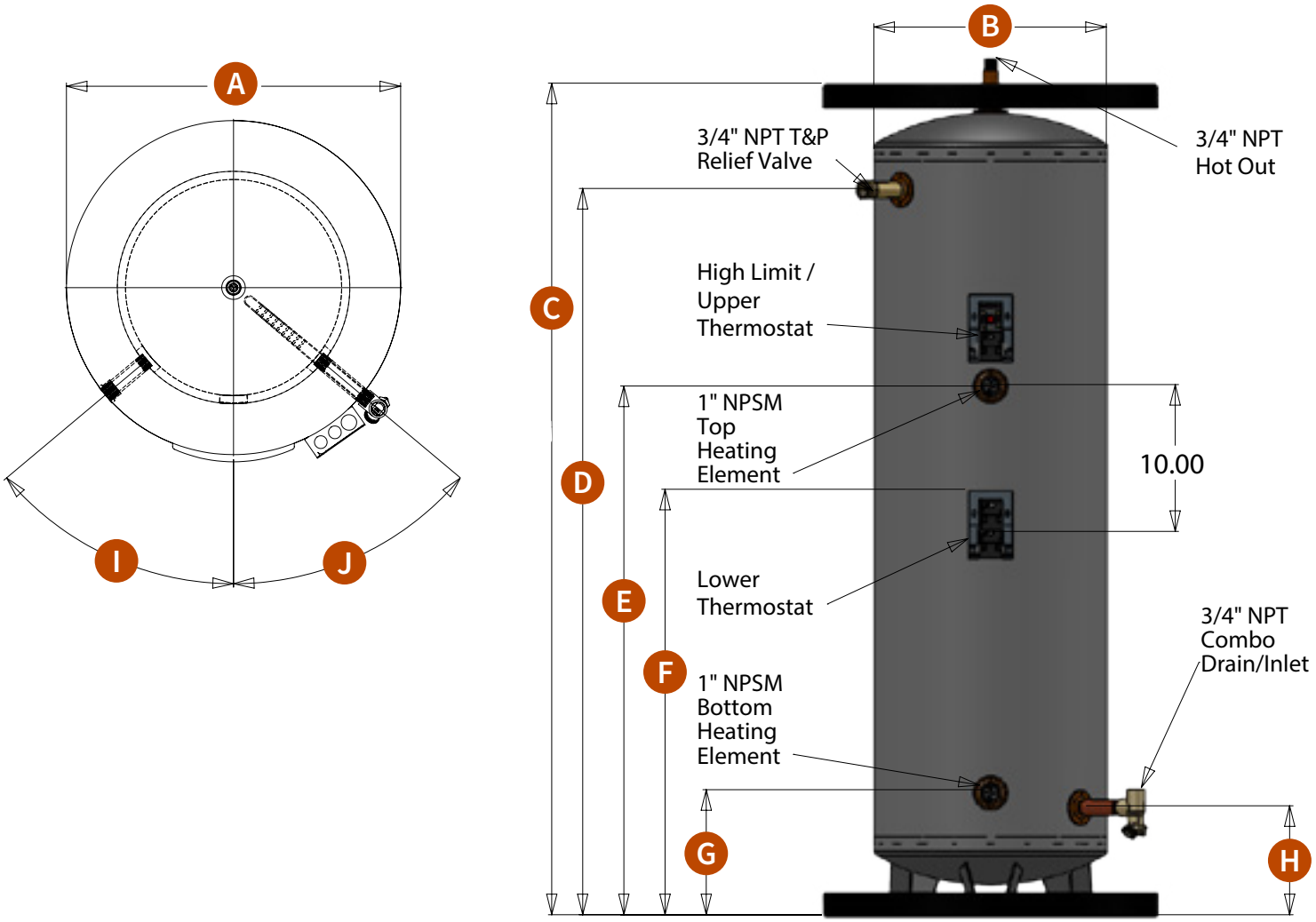
* For Model ME6, "H" is on the same side with "I".



STANDARD TANK DIMENSIONS

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
ME6	20	12	19.0625	12.875	N/A	7.125	6.125	75*	60
ME10	22.75	16	22.5	14.75	N/A	8.5	7.5	50	50
ME20	22.75	16	33.75	26.75	N/A	8.5	7.5	50	50
ME30	22.75	16	41.625	34.25	25.75	8.5	7.5	50	50
ME40	Please refer to page 4								
ME50	25	19	50.75	42.875	32.125	8.875	7.875	50	50
ME50T	22.75	16	67.5	60	47.5	8.5	7.5	50	50
ME55	25	19	59.25	50.875	37.375	8.875	7.875	50	50

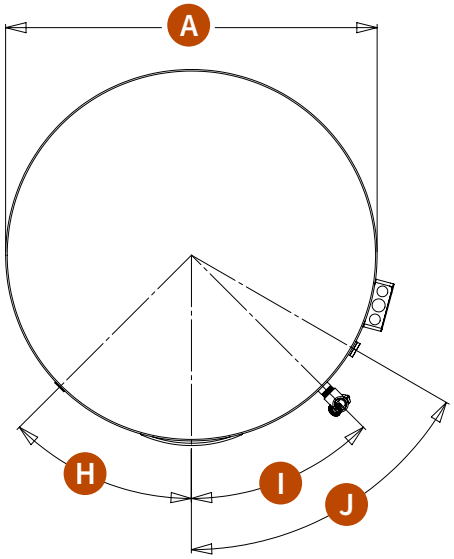
Note: ME6, ME20 and ME50T not AHRI rated

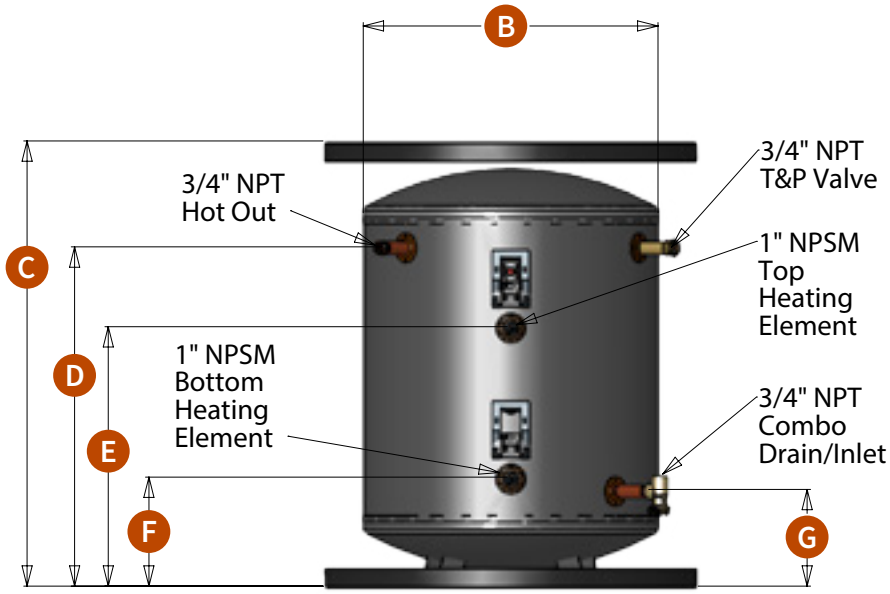


40 GALLON TANK DIMENSIONS

MODEL	A	B	C	D	E	F	G	H	I	J
	Jacket Diameter	Tank Diameter	Height to Pan	Height to T&P Relief valve	Height to Top Element	Height to Thermostat Bracket	Height to Bottom Element	Height to Combo Drain	Angle of T&P Relief Valve	Angle of Combo Drain
ME40	22.75	16	57.25	50	36.5	29.3	8.5	7.5	50	50







UNDER COUNTER TANK DIMENSIONS

MODEL	A	B	C	D	E	F	G	H	I	J
	Jacket Diameter	Tank Diameter	Height to Pan	Height to T&P and Hot Out	Height to Top Element	Height to Bottom Element	Height to Combo Drain	Angle of Hot Out	Angle of Combo Drain	Angle of T&P Relief Valve
ME30UC	25	19	34.75	25.375	21.25	8.875	7.875	50	50	60
ME40UC	28	22	31.75	25.375	20.625	8.875	7.875	45	45	60
ME50UC	30	24	36.25	27.625	22.875	8.875	7.875	45	45	60

Note: all are not AHRI rated

OPTIONS:

- Off-peak wiring for load management savings
- Alternate voltages available
- 4" hand hole cleanout



PERFORMANCE

MODEL	Rated Storage Volume (gal)	First Hour Rating (GPH)	Usage Bin	Uniform Energy Factor
ME30	29	42	Low Usage	0.92
ME40	37	46	Low Usage	0.92
ME50	47	56	Medium Usage	0.92
ME55	52	64	Medium Usage	0.92

Note: For a full list of all Vaughn Uniform Energy Factors, please visit the AHRI Directory at ahridirectory.org



FEATURES

Heat Trap
Built-in heat trap prevents unnecessary heat loss, improves efficiency and reduces operating cost.

Bronze Fittings
Bronze water openings eliminate corrosion due to dissimilar metals. No dielectric unions or sacrificial anode rode required. Standard connection size is 0.75" NPT. (1.5" NPT connections are available upon request.)

Hand Hole Clean-Out Option
Optional 4-inch opening provides easy access to remove severe mineral build-up.

Elements
Special low-watt-density heating elements for reduced mineral build-up and long life.

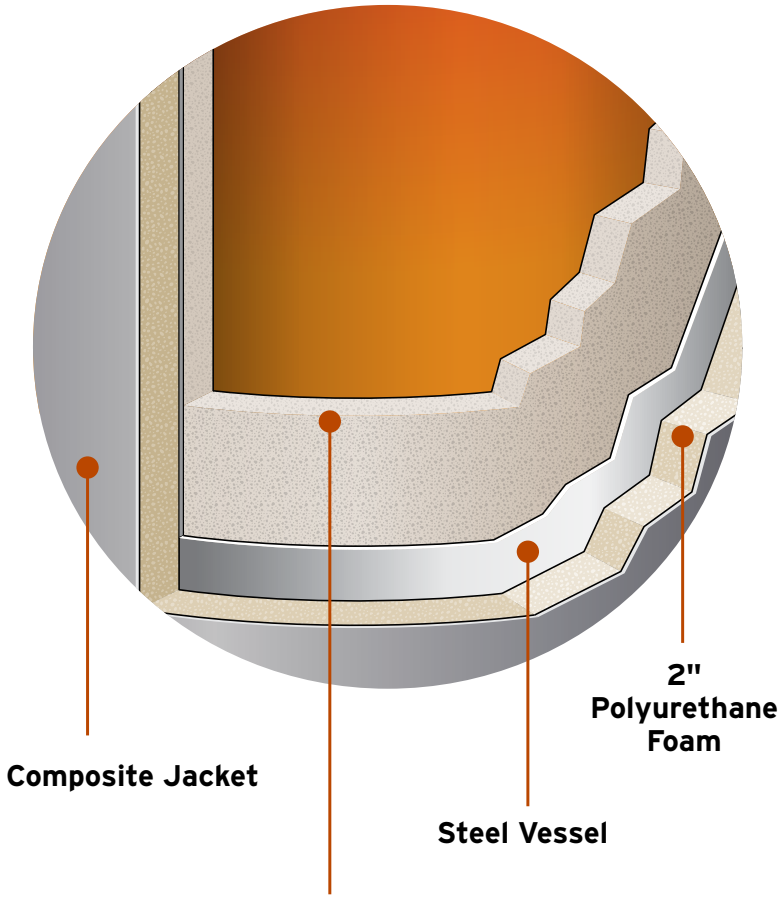
Brass Cold Water Inlet with Diffuser
Introduces cold water at the bottom of the tank and prevents turbulent mixing with heated water.

The Difference: HydraStone® Cement Lining

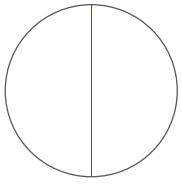
Cement lined tanks offer significant longevity, trouble-free operation and a lower lifetime cost.

Our tanks are lined with a minimum of 1/2 inch high density HydraStone cement – 100 times thicker than glass lining.

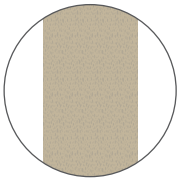
Full coverage is achieved by injecting the precise amount of HydraStone cement into each tank and then centrifugally spun to ensure complete and uniform coverage. This process provides maximum protection from the corrosive effects of hot water. Additionally, cement lined tanks do not require a sacrificial anode, eliminating periodic inspections and replacement costs associated with glass lined tanks.



5/1000 inch glass lining **VS** **1/2 inch HydraStone cement lining**



(actual size)



(actual size)



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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