VAUGHN
a **nudyne** company

Light Duty Electric Water Heater

Available in 30-119 Gallon Capacities

LDC



Three phase unit pictured here, single phase does not include upper control box.

HS SERIES

HydraStone® lining provides longer tank life

With no anode rod, maintenance is minimal

Commercial grade low watt density elements reduce mineral buildup and increase length of tank service life, single and three phase available

- Copper-silicon tappings cannot rust or corrode
- High impact composite jacket cannot rust or corrode
- Polyurethane foam insulation reduces heat loss
- Built-in heat trap lowers operating costs
- 5 year non pro-rated tank warranty is standard
- A hot water outlet with a built-in heat trap ensures efficient operation, keeping energy stored in the vessel

Long lasting, trouble free water heater

The Vaughn Light Duty Electric (LDC) water heater has a number of features not found in other conventional heaters making it better suited to resist the corrosive effects of hot water. The heart of the LDC is a superior storage vessel with HydraStone cement lining, solid copper-silicon threaded tank openings and a built-in heat trap, all of which ensure a longer lasting and energy efficient water heater.

Applications

Office buildings, schools, hospitals, industrial facilities, hotels, and much more.

ETL Intertek · AHRI CERTIFIED · MADE IN USA BUY AMERICAN ACT COMPLIANT CONTAINS IMPORTED COMPONENTS

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SPECIFICATIONS

Tank:	HydraStone® Lined Steel
Capacities:	30–119 Gallons
Orientation:	Vertical
Voltages:	208 thru 600 Volt
Phase:	1 or 3
Inlet Size:	¾" Female or 1½" Male NPT
Outlet Size:	¾" or 1½" Male NPT
Drain Size:	¾" GHT
Relief Valve Size:	¾" 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 Working Pressure:	150 psi
Design Test Pressure:	300 psi
Elements:	Incoloy or Copper
Insulation: **Model S:** **Model ME:**	 2" Polyurethane Foam 3" Polyurethane Foam
Tank Warranty:	5 Year Non Pro-Rated
Electrical Warranty:	1 Year
Jacket:	High Impact Colorized Composite
Finish:	White with Black Trim

ELECTRICAL SPECIFICATIONS

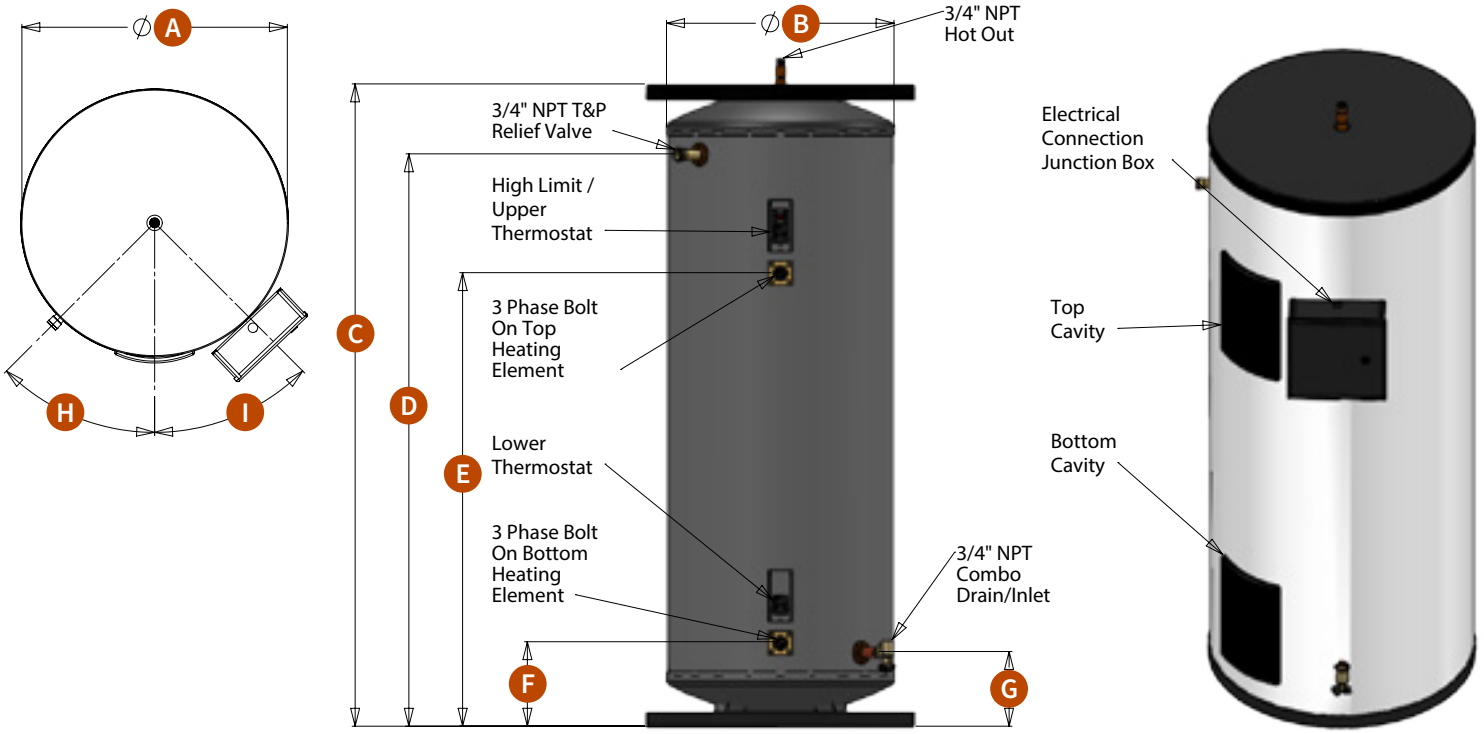
Copper sheathed or incoloy immersion heating elements with low watt density for prolonged life—12.1kW in 208, 240, 277, 480, 600 volt single or three phase (See chart for details). An adjustable surface thermostat operates in 110-180° F range. Integral hi-limit with manual reset button for over-temperature protection is factory set at 180° F or 200° F.

Optional Equipment

- 1.5" Male NPT inlet and outlet water connections
- Alternate voltages available
- 4" hand hole cleanout

PERFORMANCE

Model Number	Measured Volume (Gal)	Input Rate (kW)	Standby Loss (%/hour)
S30	26	12.1	1.20
S40	37	12.1	0.97
S50	45	12.1	0.84
S55	54	12.1	0.74
S80	72	12.1	0.61
S100	88	12.1	0.53
S120	**107**	**12.1**	0.52



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
S30	20	16	40.625	34.25	25.75	8.5	7.5	50	50
S40	20	16	56.25	50	36.5	8.5	7.5	50	50
S50	22.75	19	49.75	42.875	32.125	8.875	7.875	50	50
S50T	20	16	66.5	60	47.5	8.5	7.5	50	50
S55	22.75	19	58.25	50.875	37.375	8.875	7.875	50	50
S65	26	22	46.25	39.375	32.125	8.875	7.875	45	45
S70	22.75	19	67.25	60.375	49.125	8.875	7.875	50	50
S80	26	22	57.25	49.875	40.625	8.875	7.875	45	45
S80T	22.75	19	71.25	64.375	47.875	8.875	7.875	50	50
S100	26	22	67.5	60.375	47.875	8.875	7.875	45	45
S120	28	24	67.75	60.375	47.875	8.875	7.875	45	45

DIMENSIONAL DATA

Storage Capacity Gal	Base Model Number	Dimensions (in)						Shipping Weight Lbs
		Model S Overall Diameter	Model ME Overall Diameter	Model S Overall Height	Model ME Overall Height	Floor to Inlet "A"	Floor to T&P "B"	
30	**S/ME 30**	20	22.75	40.625	41.625	7.5	34.25	185
40	**S/ME 40**	20	22.75	56.25	57.25	7.5	50	240
50	**S/ME 50**	22.75	25	49.75	50.75	7.875	42.875	270
55	**S/ME 55**	22.75	25	58.25	59.25	7.875	50.875	340
80	**S/ME 80**	26	28	57.25	58.25	7.875	49.875	385
100	**S/ME 100**	26	28	67.5	68.5	7.875	60.375	400
119	**S/ME 120**	28	30	67.75	68.75	7.875	60.375	470

LDC Model Number Designation

MODEL	STORAGE CAPACITY GALLONS		ELEMENT SIZE		VOLTAGE	PHASE
S 2" Foam Insulation **ME** 3" Foam Insulation	**30** **40** **50** **55** **80** **100** **119**	—	**6000**	—	**208** **240** **277** **480** **600**	**1** Single Phase **3** Three Phase
		—		—		

Notes 1. 120 volt models are available in 1500, 2000 and 2500 Watts only.

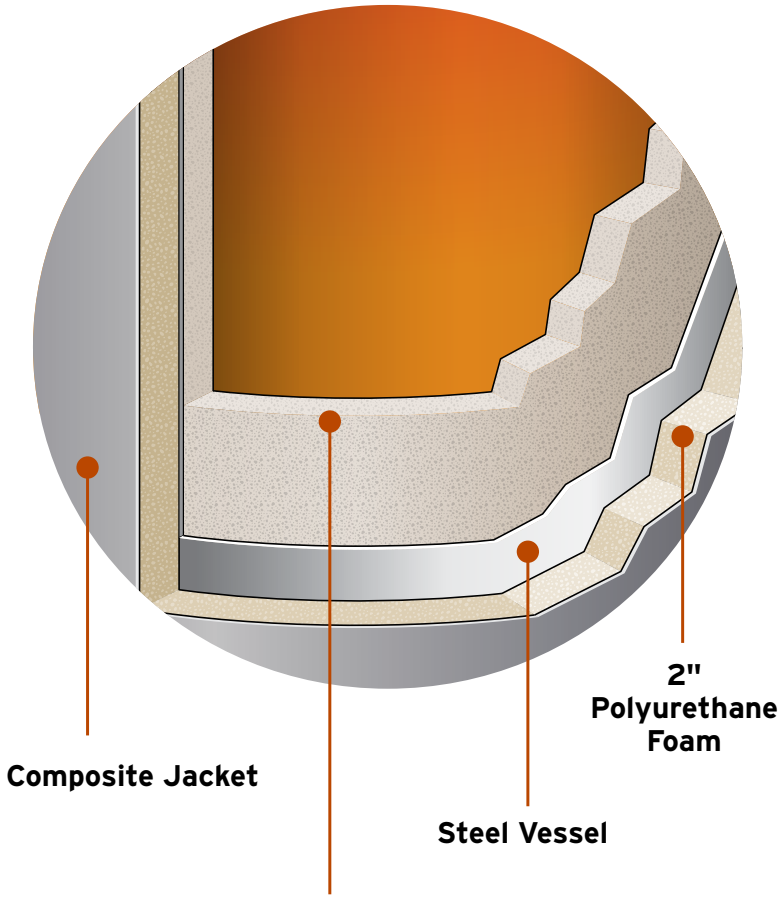
2. The 6, 10, and 20 Gallon models are available in lower element design only. All other sizes have both upper and lower element banks of identical wattage and are wired for non-simultaneous operation.

The Difference: HydraStone® Cement Lining

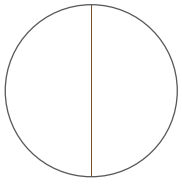
Cement lined tanks offer significant longevity, trouble-free operation and a lower lifetime cost.

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

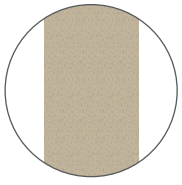
Full coverage is achieved by injecting the precise amount of HydraStone cement into each tank and then centrifugally spun to ensure complete and uniform coverage. This process provides maximum protection from the corrosive effects of hot water. Additionally, cement lined tanks do not require a sacrificial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