

VH

Hybrid Water Heater

VESTA.DS, Inc.
WWW.VESTAHWS.COM

Best of both water heater worlds packaged into one unit!

Energy saving benefit of high efficiency tankless water heater is combined with full stainless steel tank.

This superior water heater can provide immediate flow of hot water from its built-in 3 gallon tank.

Benefit of endless hot water is available at your finger tips!

- 0.91 UEF
- Utilizes existing ½" gas line up to 20'
- Self calibration mode - customizing unit operation parameters
- Convenient installation options - choose floor standing or wall mount installation
- Surge pressure regulator assures your unit is protected from excessive water pressure surge
- Built-in 3 gallon stainless steel tank prevents cold water sandwich
- Automated robotic welding process used on stainless steel heat exchanger construction
- Easy conversion to propane - LP orifice is already in the box
- Environmentally friendly Low NOx combustion system - SCAQMD 1146.2 compliant
- Exhaust gas temperature sensor detects potential issue before it becomes an issue
- Up to 15-year heat exchanger, 5-year parts and 1-year labor limited warranty



Designed for 2" venting
(Up to 50')

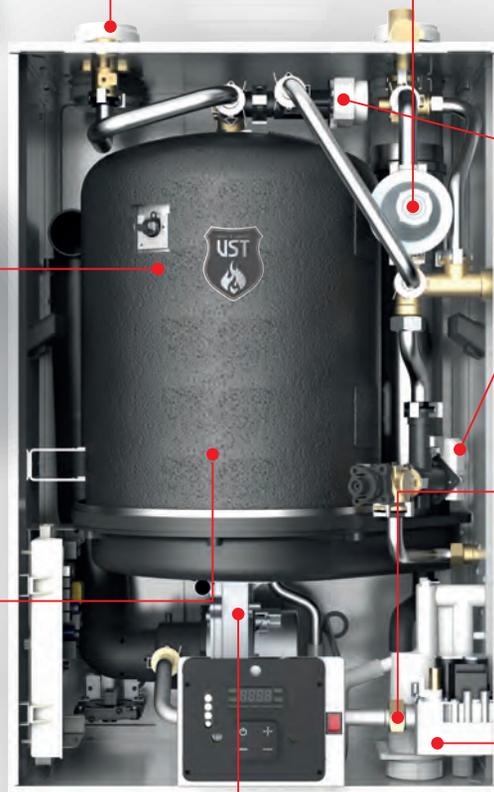


3 gallon reserve tank Low Pressure Drop
Premium grade Stainless steel
Fire Tube (316L)



Eco-friendly Low NOx
Metal Fiber Burner

Fully modulating Turbo Fan



Surge pressure regulating
valve protects
the Heat Exchanger



Flow Control Valve +
Mixing Valve eliminate
the temperature fluctuation



Easy field conversion
from NG to LP

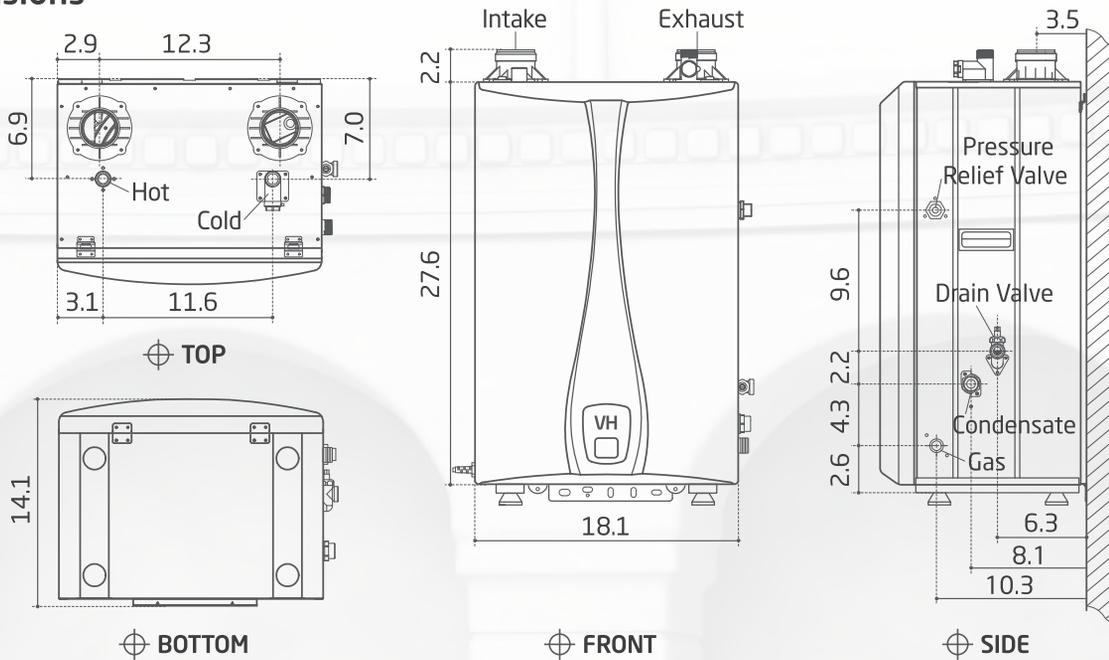
Negative Pressure Gas Valve
for Maximum Efficiency

Premium grade Stainless steel heat exchanger

- Fire Tube
- Maximizing durability
- Minimizing minerals deposits
- Ensuring crystal clear water quality



Dimensions



Specification

MODEL		VH-199
Heat Capacity (Input)	Natural Gas / Propane	38,000-199,000 Btu/h
	UEF	0.91
Flow Rate (DHW)	35 °F (19 °C) Temp Rise	10.8 GPM (42 LPM)
	45 °F (25 °C) Temp Rise	8.4 GPM (32 LPM)
	67 °F (37 °C) Temp Rise	5.6 GPM (21 LPM)
Dimension (W x H x D)		18.1" x 27.6" x 13.6" (460 mm x 700 mm x 345 mm)
Weight		92 lbs (42 kg)
Installation		Indoor wall-mount or Floor standing
Venting Type		Forced draft direct vent
Ignition		Electronic ignition
Water Pressure		150 psi
Supply Pressure	Natural Gas	3.5" ~ 10.5" WC
	Propane	8" ~ 13" WC
Manifold Pressure	Natural Gas (Min.-Max.)	-0.02" ~ -0.25" WC
	Propane (Min.-Max.)	-0.01" ~ -0.15" WC
Reserve Tank		3 Gallons (11 Liters)
Minimum Flow Rate		0.1 GPM (0.4 LPM)
Temperature Range		98°F ~ 160°F (37°C ~ 70°C)
Ultra Low NOx		YES
Connection Size	Cold water inlet	3/4" NPT
	Hot water outlet	3/4" NPT
	Gas inlet	3/4" NPT
	Condensate Drain	3/4" NPT
Power Supply	Main supply	120 V AC, 60 Hz / use less than 5 amp
	Maximum Power Consumption	95W
Materials	Heat Exchanger	Stainless steel
Venting	Exhaust / Intake	
	2" or 3" PVC, CPVC, Polypropylene 2" or 3" Special gas vent type BH (Class II, A/B/C)	
	Vent Clearances	
	Length	0" to combustibles 50 ft (15 m) 100 ft (30 m)
Safety devices		Flame rod, APS, Over heat preventer, Surge pressure regulation valve Exhaust temperature high limit sensor Power surge fuse, Low water cut off switch