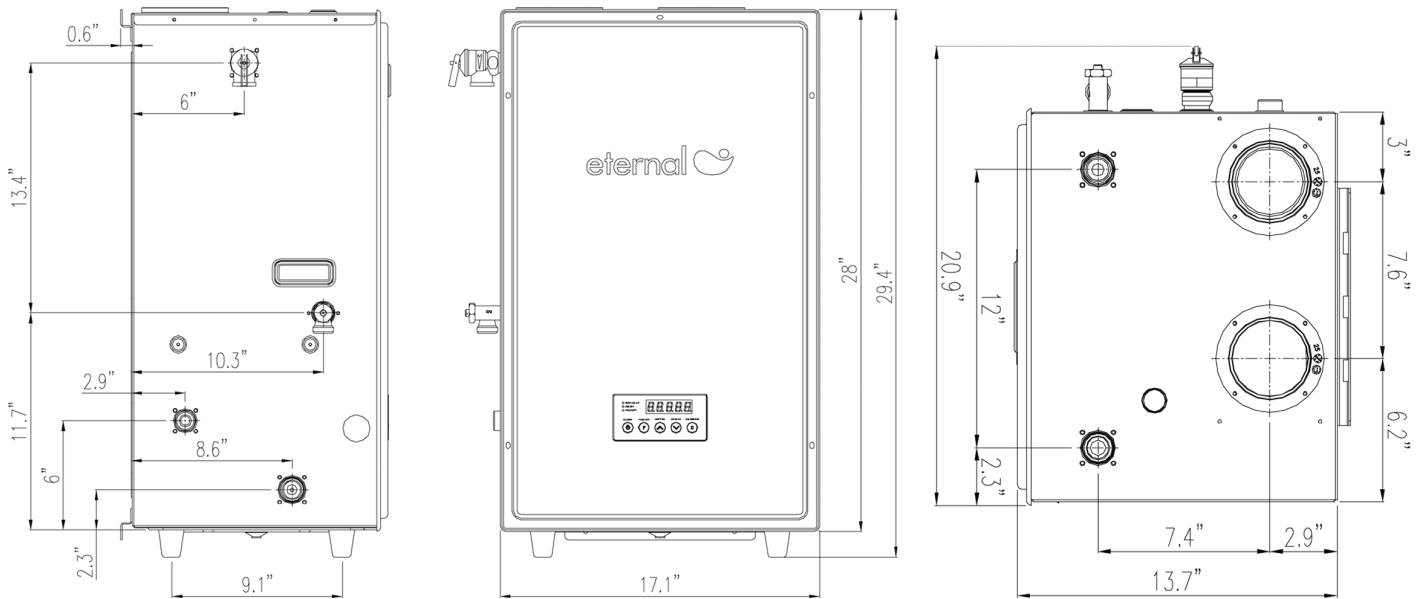


Eternal Condensing Hybrid: Engineering Spec Sheet

Grand Hall USA, Inc. 3838 West Miller Road Garland, Texas 75041 TEL 866 946 1096 FAX 972 279 8440 www.eternalwaterheater.com



Specification:

Water heater(s) shall be Grand Hall Eternal Hybrid Water Heater, model GU145(S) or GU195(S,M), rated at the input and output shown on the CSA Rating Label. The unit(s) shall be design certified to ANSI Z21.10.3. When installed as Power Vent, the unit(s) shall be suitable for indoor and outdoor use. When installed as Direct Vent, the unit(s) shall be for indoor use only.

Heat exchanger shall be of a straight fire tube design and be constructed in its entirety out of stainless steel. The heat exchanger shall be of a low volume design holding no more than 2 gallons of water in storage. The heat exchanger shall be of a self cleaning design that is capable of ejecting sediment buildup out through the hot water outlet of the unit(s).

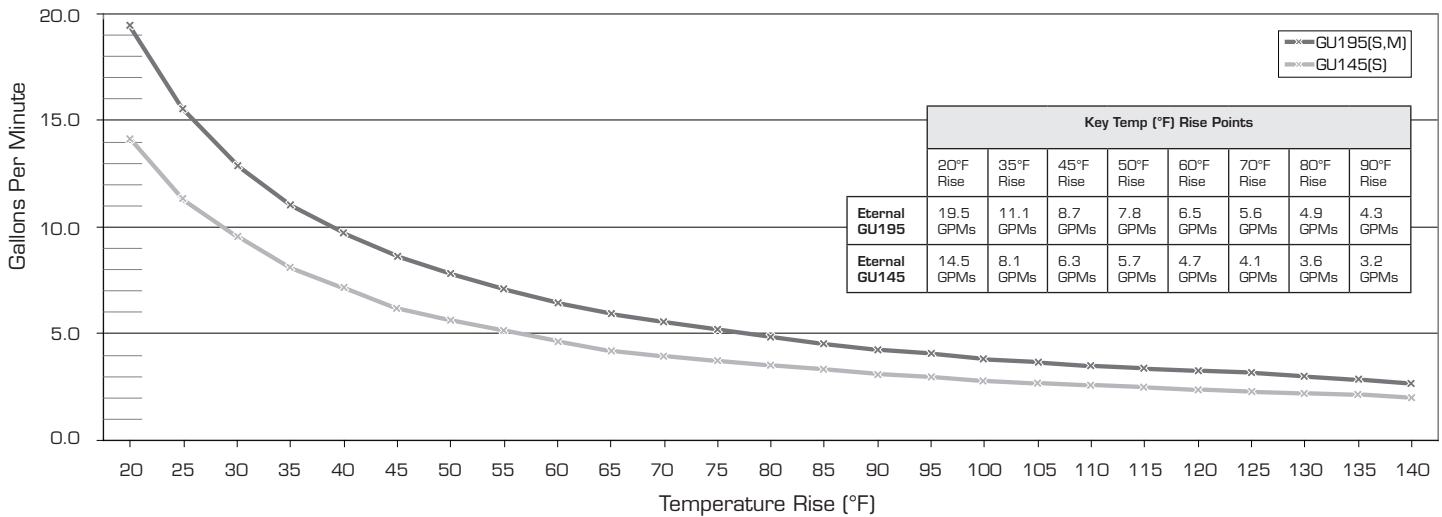
The control system shall consist of a main controller design certified to UL1998, a set of thermistors at the inlet, outlet, fan motor, heat exchanger, dual flow sensors and an electronically controlled mixing valve. The control system shall be capable of causing ignition in the combustion chamber through signals generated by either flow or thermostatic change. The control system shall be self diagnosing and capable of displaying codes to signify component failure or improper operations.

PRODUCT SPECS

		GU145 / GU145S	GU195S / GU195M
Thermal Efficiency / Energy Factor		98% NG / 99% LP / 0.96 Energy Factor	
Installation		Indoor / Outdoor / Wall Hung / Floor Standing	
Flue System		Sealed Combustion Direct Vent / Power Vent Convertible	
Vent Run	3" PVC / 2" PVC*	Up to 100ft, 6 Elbows Max, 5ft Deduction Per Elbow / Up to 35ft, 3 Elbows Max, 5ft Deduction Per Elbow	
Condensate Discharge	Low Fire / Med Fire / High Fire	0.5GPH / 1.1GPH / 1.75GPH	
Condensate pH Level		4 pH	
Gas Type		Pre-set for NG / LP Conversion Kit Included	
Unit Connections	Gas and Water	3/4" Female NPT	
	Electricity	Dedicated 120VAC, 60Hz w/3 Pronged Power Cord	
Gas Input Rate	Min / Max	31,000 BTU/Hr / 145,000BTU/Hr	31,000BTU/Hr / 199,000BTU/Hr
Gas Supply Pressure	NG / LP	3.5"WC to 10.5"WC / 8"WC to 14"WC	
Manifold Pressure	Min / Max	0.1"WC / 1.7"WC	0.1"WC / 3.2"WC
Ignition System		Direct Electronic Ignition w/Automatic Flame Sensing	
Burner System		Single Orifice Premixed Fuel Injection Metal Fiber Infrared	
Gas Valve System		Dual Stage Negative Pressure Full Modulation Air Ratio	
Internal Piping Material		Standard - Copper / S Option - 316L SS / M Option - 316L SS + MCU	
Reserve Tank		Under 2 Gallons	
Electrical Consumption		Standby 8w, Max 51w	Standby 8w, Max 91w
Maximum Noise Level		40dB (a)	50dB (a)
Remote Controller		Up to 3 kits	
Multi Control Unit (MCU)		Up to 2 in manifold, No Built-In MCU / M Option - MCU up to 8 Units	
GPM Capacity Range		0.1 to 14.5 GPM	0.1 to 19.5 GPM
Temperature Sensing		Tank, Cold Inlet, Hot Outlet, Air Thermistors	
Temperature Control		Simulation Feed Forward and Feed Back, Computer Controlled Mixing Valve	
Flow Sensing		Dual Flow Sensors w/Built-in GPM Monitor	
Temperature Settings Range		100F to 180F in 5F Steps, Factory Limited to 140F	
Unit Dimensions (WxHxD)		16.9" x 29.1" x 13.8"	
Unit Weight		96lbs / M Option - 97lbs	
Safety Devices		T&P Valve, Flame Rod, Thermal Fuse (306F), Remaining Flame Detection, Fan RPM Check, Freeze Protection (-4F), Vent Blockage Detection, Thermostat Switches (167F / 203F), Gas Valve Current Leak Detection, Ignition Prevention, Dipswitch Temperature Lock, GFCI w/2 x 5A Fuses	

* 2" PVC Cannot be used at elevations above 4,000ft

ETERNAL HOT WATER MINIMUM FLOW RATE DATA



www.etalwaterheater.com

