Getting Started Guide - Direct Vent
PROFESSIONAL INSTALLATION REQUIRED, ALWAYS READ THE OWNER'S MANUAL

Pre-Installation
Make sure the water and gas supply shut off valve has been closed prior to installing Eternal.

1 Unpack accessories

Remove 2 screws holding the front panel at the bottom, push the panel down and towards yourself to remove.

Take the accessory box out of the front of the unit.

Check contents against the list in the manual to see if anything is missing.

Control Panel

Burner Indicator: Indicates when burner is in operation.

Digital Monitor: Indicates water temperature and shows error code in the event of an error.

ON Indicator: Indicates unit is plugged in and functional.

Power Button: Turns the heater ON or OFF.

Temperature Setting buttons: Used To set water temperature.

2 Ready unit for install

a. Intake and Exhaust Tops
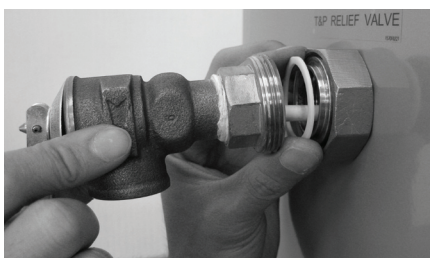

Place the black Vent Top on the intake hole towards the left rear of the unit.

Secure Vent Top with 4 screws to the Top Panel.

Place the orange gasket ring on the bottom of the Vent Collar

Mount and secure the Vent Collar onto the aluminum flange, and secure the collar with 4 screws to the Top Panel.
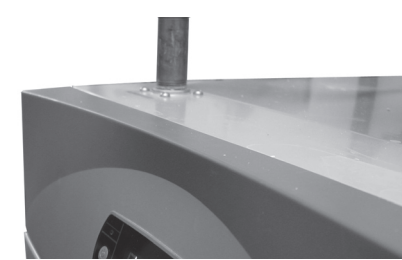
b. T&P Relief valve

Insert O-ring gasket before installing T&P valve to ensure a tight seal.

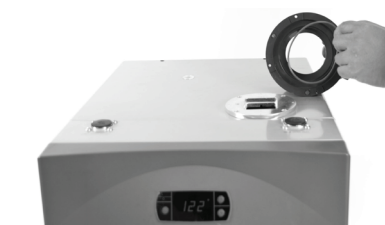Install the T&P Valve on the side of the unit and tighten.

c. Connectors

Thread water nipples and gas connector with proper sealant, then install and secure with plumbing wrench. Be SURE to use ONLY brass nipples as water connectors, other types of nipples will cause corrosion.

Make sure the gas connector is 3/4" ID and with gas volume enough for your unit.

3 Install in the right environment

a. Gas supply

Check to see what size gas pipe your home has from the meter into your home. Eternal requires at least 3/4" gas pipe for optimal performance. Undersized fuel line will diminish performance or cause shut-downs.

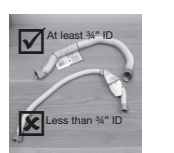| Recommend Gas Pipe Size (Diameter, for Natural Gas)	
Distance from gas meter	Pipe size (inches)
0 ft. to 20 ft.	3/4 inch
20 ft. to 60 ft.	1 inch
60 ft. to 100 ft.	1 – 1/4 inch

Use the above chart as a quick reference. To precisely determine what size gas line you need from your gas meter to where the water heater will be installed, look up Gas Supply Piping Charts on page 25 in your Operator's Manual.

Make sure the gas pipe from the meter is sized properly to supply the total BTU load of all gas appliances, ie. furnace+oven+ water heater.

Connect the gas supply to the unit. Make sure the gas connection hose you use is the right capacity for Eternal.

Make sure the Internal Diameter (ID) of the Gas Connection Hose is at least 3/4"

Check the BTU rating on the hose packaging.
GU20DV = 145,000
GU26DV = 180,000
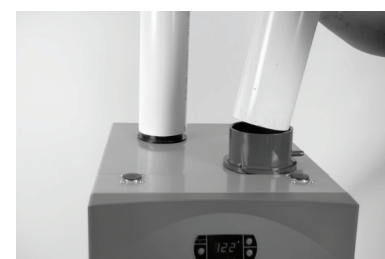GU28DV = 199,000
GU32DV = 236,000

b. Venting

Eternal is Direct Vented, and must be exhausted with 4" Schedule 40 PVC. The intake pipe can be plastic or metal. Termination can be either horizontal or vertical. In general the shorter the total vent length the more economical the install.

Slide intake pipe over the black Vent Top and make sure the seal between pipe and collar is tight.

Use the orange rubber ring on the black Vent Top if you wish to use PVC as intake. The gasket provides an airtight seal between the pipe and the collar.
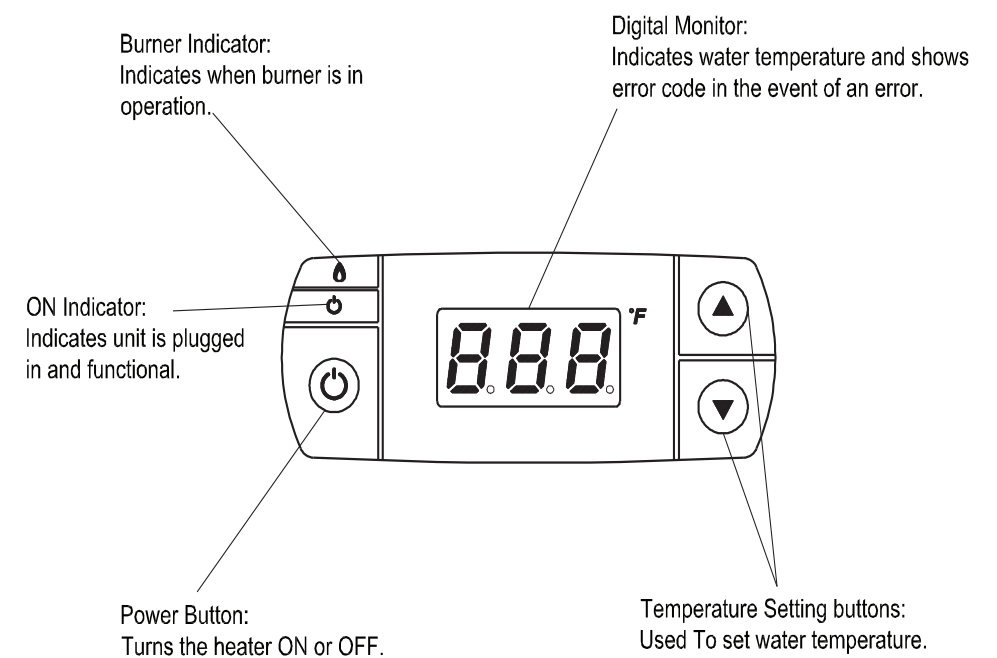

Insert the PVC vent pipe into the Exhaust Collar but do not use glue to seal the connection, the collar acts as a coupling and forms an airtight seal.

Connect the cold water supply on the right and hot water outlet on the left. Do not reverse the water connections as the unit will not work. Make sure the pipes are tightened to avoid leaks.

Attach 3/8" ID vinyl tubing on the drain spout of the vent collar and direct tubing to a suitable waste drain.

4 Initial operation

a. Open water supply shut off valve and fill the unit fully with water
b. Open nearby faucet to purge the line of air, close faucet when purged
c. Open gas shut off valve
d. Plug in the unit and press the power button to turn on
e. Wait for the initialization cycle to complete, this will take a few minutes
f. Once the unit is on standby mode, you can freely change the temperature setting by pressing either the up or down button
g. That's it! Enjoy endless hot water. Don't forget to register your Eternal!