

Project #:

Date:

Engineer:

Project Name:

Prepared By:

Location:

Bid Date:

Contractor:

# ETi 400® ASME

## Natural Gas (NA) Propane Gas (LP) Pool Heaters

### Submittal Data

#### Features

- ▶ 96% Efficiency
- ▶ ASME Code Bronze Headers
- ▶ ASME Code Titanium and Stainless Steel-Fin Tube
- ▶ 50 lb. Pressure Relief Valve
- ▶ Small Footprint
- ▶ Unitherm Governor Anti-Condensation Control
- ▶ Indoor/Outdoor

Model	Natural Gas	Propane Conversion Kit
ETi 400 NA (ASME)	461113	476072

#### Heat Exchangers

- ASME HLW stamped; 100 PSIG MAWP
- National Board Listed
- Bronze headers
- Finned tubing
  - Titanium (Inner Tube)
  - Stainless Steel (Outer Tubes)
- ASME Steel tube sheet
- Silicone O-Rings
- Fixed high limit, manual reset 160°F
- Fixed high limit, auto reset 135°F
- 50 PSIG Pressure Relief Valve
- Water connections
  - Right hand (standard)
  - Left hand (optional - field change)
- Flow configuration (two-pass)

#### Controls

- Firemans Switch
- Multiple Heater Connections
- Single mechanical temperature control
- Runtime (Hours heater is active)
- Cycles (Heater On/Off cycles)
- Stack Flue Sensor Temperature
- Flame Sensor status
- Digital display with diagnostics
- 126 Error Messages on LCD
- Firemans Switch
- Input Power
  - 115/240V, 60Hz, 1 Ph Power supply
  - 115/240/24V Transformer
- Safety Interlocks
  - Electronic, Intermittent Ignition
  - High limit switch (HLS)
  - Auto Gas Shut-OFF (AGS)
  - Stack Flue Sensor shut down (SFS)
  - Water pressure switch (PS)

#### Gas Control Train

- Fuel
  - Natural gas
  - Propane (minimum grade HD-5) (requires propane conversion kit)
- Combination control valve
- On/off firing
- ANSI Z21.56 Design certified

#### Construction

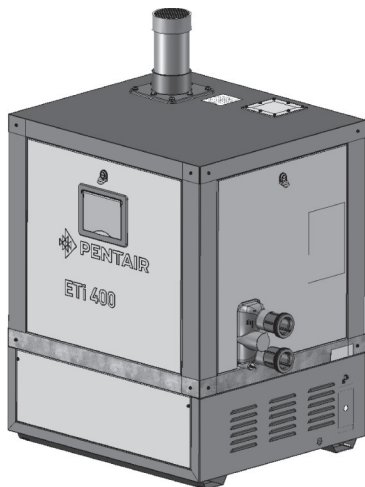
- Front controls
- Stainless steel burners
- Indoor/outdoor
- Can be installed on combustible surface

#### Venting

- Category IV (Vertical or Horizontal)
- Indoor Heater Installation
  - Direct Air Intake Duct with 3-inch PVC Pipe
  - Vertical Negative Pressure (positive draft) - Type B vent pipe
  - Clearances from combustible surfaces: 6 in (15 cm) for top and for all sides
  - Listed for installation on combustible surfaces
- Outdoor Heater Installation
  - Built-In Stackless Venting System
  - Exhaust Grill Vent

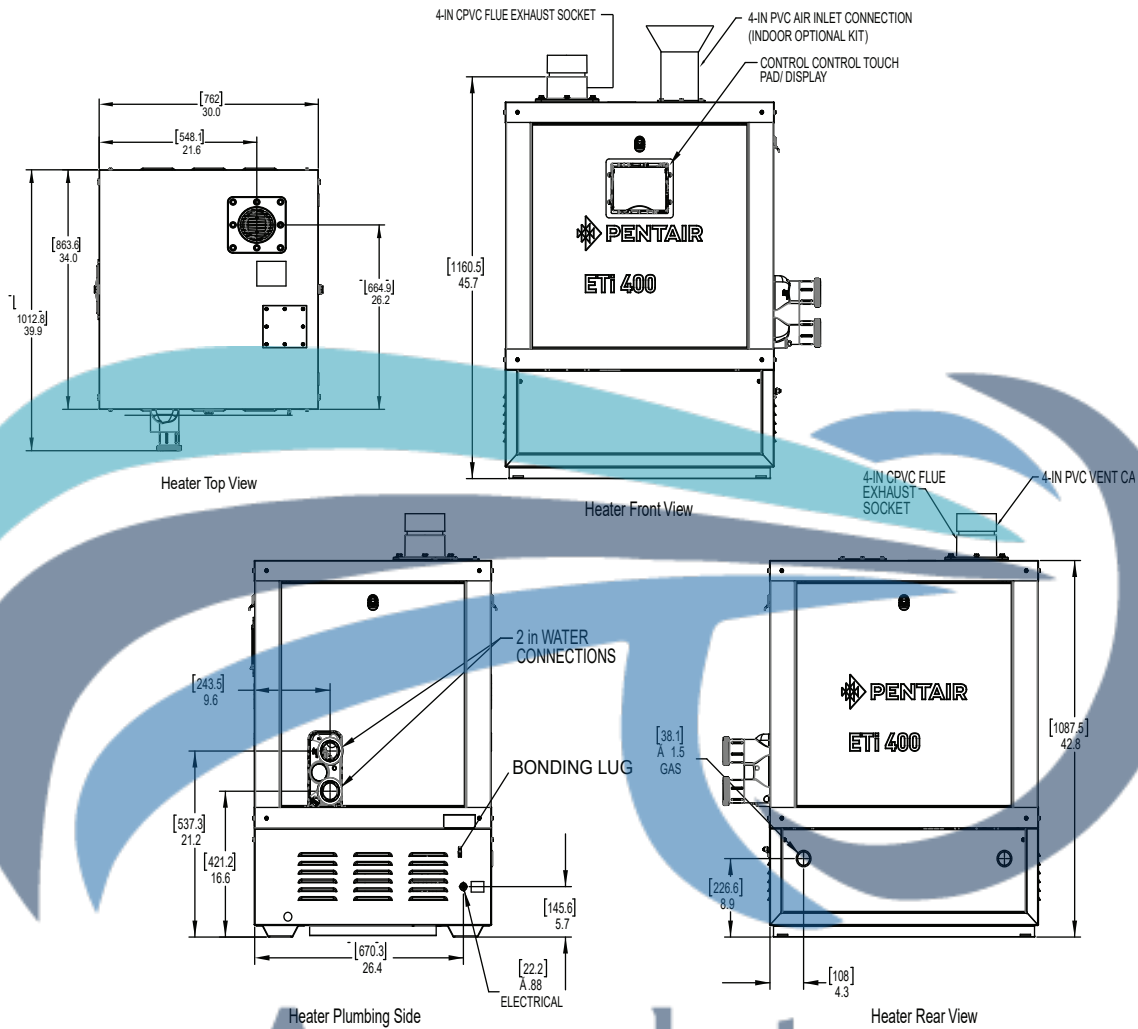
#### Other options

- Bolt Down Bracket Kit, P/N 460738



# ETi 400<sup>®</sup> ASME Gas Pool Heaters

Model \_\_\_\_\_



Heater Model Part #	Nominal kBTU (kW) Output	Dimensions inches (cm)				Shipping Weight lbs. (kg)
		Cabinet Width	Flue Dia.	Gas Conn.	Water Conn.	
461113	400 (117.23)	30.0 (762)	4 (10.2)	0.75 (1.9)	2 (5.1)	379 (171.9)

## Air Supply Requirements Guide

Minimum Net Free Open Area for Each Opening* (Square Inches/Centimeters)				
Model	All Air From Inside Building		All Air From Outside Building	
	Combustion	Vent	Combustion	Vent
ETi 400	400 sq. in. 2580 sq. cm.	400 sq. in. 2580 sq. cm.	100 sq. in. 645 sq. cm.	100 sq. in. 645 sq. cm.

Note (\*) Area indicated is for one of two openings; one at floor level and one at the ceiling.

## Combustion Air Supply

For indoor installation, the heater location must provide sufficient air supply for proper combustion and ventilation of the surrounding area (see Air Supply Requirements Guide). The minimum requirements for the air supply specify that the room in which a heater is installed should be provided with two permanent air supply openings; one within 12 inches (30 cm) of the ceiling, the other within 12 in (30 cm) of the floor for combustion air, in accordance with the latest edition of ANSI Z223.1, or the National Fuel Gas code, the CSA B149.1, Natural Gas and Propane Installation Codes, as applicable, and any local codes that may apply. These openings shall directly, or through duct, connect to outdoor air.



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P/N 476305.A 2/2021