

SpecAdvantage with PhD

For Commercial and Industrial Applications

Specifications

Electric Tankless Hot Water Heater

Applications

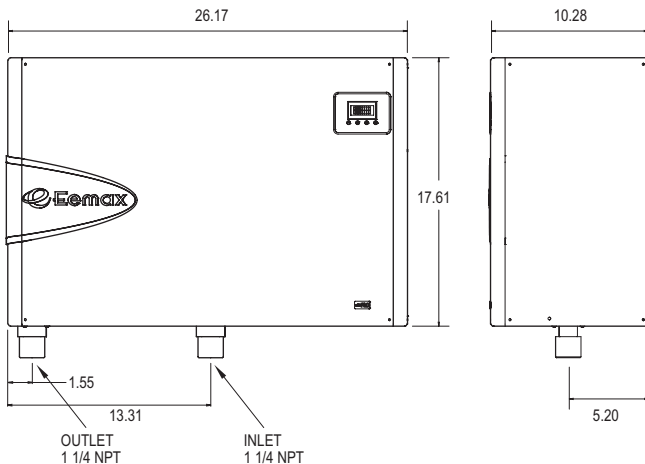
- Booster applications up to sanitation temperatures
- Commercial kitchen
- Process heating
- High volume domestic hot water
- Glycol heating
- Emergency eye wash and safety showers
- 40 gpm washdown

Performance Features

- Designed for commercial and industrial applications
- Capable of high volume and high temperature applications
- Fully modulating - Predictive control algorithm and diverse safety features ensures precise temperature control
- T&P not required per UL499 (check local codes)
- Thermo-Optical Sensor for infrared element monitoring
- Field programmable, updatable firmware, and adjustable turn-on
- Highly visible LCD display and control with built in diagnostics

Optional Features (NEMA cabinet required)

- N4, N4X (304SS) N4X6 (316SS) enclosures
- Free standing legs
- Freeze protection for harsh climate, up to -30°F
- Electrical disconnect
- GFCI
- Explosion proof – C1D2 Compliant, local certification required. Class Z purge and pressurization system provided with pressure switch for alarm controls. For classification other than C1D2 please contact the factory to discuss options.
- Siren and beacon - audible and visual alarm (C1D2 compliant when paired with explosion proof package)



65 lbs. Designed for wall mounted installation.
Free standing legs and other options listed on page 8.

Electrical configuration and requirements

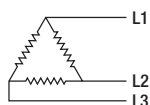
All Eemax three phase units are custom made to order and as such, are non-returnable and non-refundable. We urge you, therefore, to check your electrical supply, making sure all criteria for operating your Eemax water heater are met.

Eemax 600v, 480v and 208v

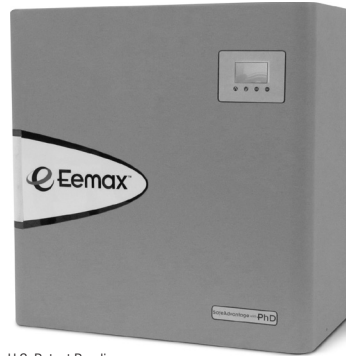
Three Phase Units

Delta Configuration

Requires: 3 Lives and 1 Ground (earth)



Information and product specifications contained in this document are subject to change without notice.



U.S. Patent Pending



The wetted surface of this product contacted by water contains less than 0.25% lead and meets ANSI/NSF 372



SpecAdvantage
with PhD
Technology

Suggested Specification

Tankless water heater shall be an Eemax SpecAdvantage model number AP _____.

Optional factory installation in a ____ (N4/N4X/N4X6) enclosure.

Enclosure to be fitted with the following features:

- ___ **FP** Freeze protection (-30°F)
- ___ **EDS** Non-fused disconnect
- ___ **FDS** Fused disconnect
- ___ **EP** Explosion proof (C1D2 compliant)
- ___ **GFCI** True RMS GFCI with digital display and reset
- ___ **SK** 24" legs for free standing applications
- ___ **RD** Remote display
- ___ **SB** Siren and beacon
- ___ **DC** Dry contact

Tankless water heater must have water connections on the bottom, and be constructed with NSF 61 listed materials. Direct heating element to be non-ferrous, cartridge style, designed for field replacement. Tankless water heater to utilize a dual PID algorithm, actively managing power application to real-time system demand. Integrated flow meter capable of volumes in excess of 40 GPM drives predictive control algorithm. Water heater must be protected by redundant safeties. Redundant safeties to include thermo mechanical safety switches, infrared element monitoring via thermo optical sensors, and dual temperature monitoring via master control board. Tankless water heater user interface must have the following capabilities:

- Selectable display including Celsius/Fahrenheit, inlet temperature, outlet temperature, flow rate, and set point temperature.
- Must be capable of displaying flow rate in gallons per minute or liters per minute.
- Diagnostic features to include error and fault code display.
- Control board must maintain error/fault history of 9 events.
- Capable of factory coded temperature setting (max. and min.)
- Capable of firmware upgrades via USB port
- Capable of BMS integration
- Available Data logger for monitoring of internal I/O values and 4 external inputs.
- Compliant with ANSI Z358.1 tepid water without additional mixing or purge features (inlet temperatures must not exceed 100°F when selecting an EE or EFD option)

