



# models 9326 & 9327

PHD - Parabolic Heat Design Tankless Heater

## FEATURES & BENEFITS

### MODEL 9326

Unit enclosed in a powder-coated, cold rolled steel NEMA 4 rated cabinet.

### MODEL 9327

Unit enclosed in a 304 or 316 stainless steel NEMA 4X rated cabinet.

### CONSTRUCTION

Manufactured from NSF-61 listed materials.

### SAFETY and RELIABILITY

Thermo-Optical sensor for protection against entrained air or improper commissioning.

### CONTROL and CONSUMPTION

Active energy management to ensure optimal application of energy based on real-time systems demands. Multistage element turn-on. Visual interface for field programming. BMS capable.

### MODULAR HEATING CHAMBER ASSEMBLY

Up to 6 heating cartridges and up to 12 direct heating elements with molded-in termination rods. Flow, fault codes, and system stations displayed on LCD.

### COMPACT POWER

Uses up to 21kW per heating chamber.

### PREDICTIVE CONTROL ALGORITHM

Uses a high-capacity flow meter with inlet and outlet temperature sensors to maintain set temperature points.

### DIAGNOSTICS

On-board diagnostics with digital LCD display.

### MAINTENANCE

Fully serviceable, easy maintenance access.

## OPTIONAL FEATURES

- 600VAC 3Ø 130kW and 150kW
- Free-Standing Legs
- Class 1, Division 2\*
- GFCI (Ground Fault Circuit Interrupter)\*
- Freeze Protected for harsh climates, down to -30° F (-34.4° C)\*
- Disconnect Switch\*

\* The above four options come with a larger enclosure. See Page 3 for details.



## SPECIFICATIONS

**54-126kW 480v and 130 and 150kW 600v:** Size: 24"H x 30"W x 13.5"D  
(60.96 cm x 76.2 cm x 34.3 cm)  
Weight: 116 lbs. (52.62 kg)

**Rated Pressure:** 150psi

**Certifications:** 54-126kW 480V heaters are UL listed to ANSI/UL 499 standard  
130kW and 150kW 600V heaters are UL listed to CSA22.2 No.88 standard

**Unique Features:** Optic heat sensing safety parabolic heat design

**Standard Temp Setting:** 90° F (32.2° C)

**Temp Accuracy:** +/- 1° at steady state flow

**Max Flow Rate:** 40 GPM (151.4 LPM)



# SAFETY APPLICATIONS

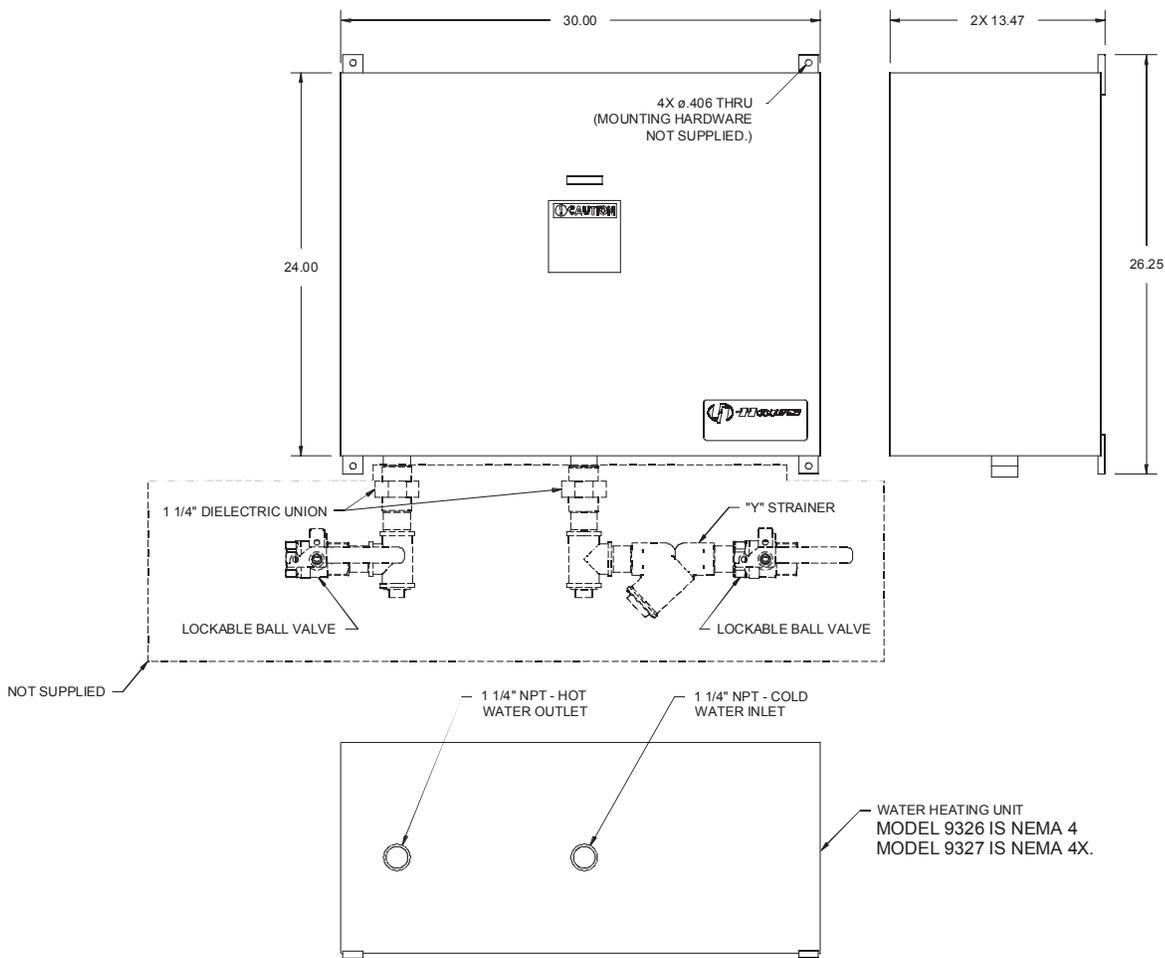
## EYE/FACE WASH & DRENCH SHOWERS

Please specify power requirements when selecting a model.

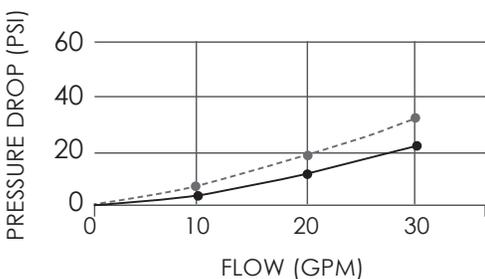
|                            | VOLTAGE (Delta) | POWER (KW) | AMPS       | RECOMMENDED WIRE SIZE | TURN-ON (GPM) | PHASE | NPT FITTING | TEMPERATURE RISE IN GPM (°F) |      |      |      |      |      |      |      |      |
|----------------------------|-----------------|------------|------------|-----------------------|---------------|-------|-------------|------------------------------|------|------|------|------|------|------|------|------|
|                            |                 |            |            |                       |               |       |             | 3.0                          | 4.0  | 5.0  | 6.0  | 20.0 | 23.0 | 26.0 | 30.0 | 40.0 |
| Model 9326/9327            | 480v 3Ø         | 54         | 65A/phase  | 4 AWG                 | 1.5           | Three | 1.25"       | 123°                         | 92°  | 61°  | 49°  | 18°  | 16°  | 14°  | 12°  | 9°   |
| Model 9326/9327            | 480v 3Ø         | 72         | 87A/phase  | 3 AWG                 | 2.5           | Three | 1.25"       | •                            | 123° | 82°  | 66°  | 25°  | 21°  | 19°  | 16°  | 12°  |
| Model 9326/9327            | 480v 3Ø         | 108        | 130A/phase | 1 AWG                 | 2.5           | Three | 1.25"       | •                            | •    | 123° | 98°  | 37°  | 32°  | 28°  | 25°  | 18°  |
| Model 9326/9327 (Standard) | 480v 3Ø         | 126        | 151A/phase | 2/0 AWG               | 2.5           | Three | 1.25"       | •                            | •    | •    | 115° | 43°  | 37°  | 33°  | 29°  | 22°  |
| Model 9326/9327            | 600v 3Ø         | 130        | 125A/phase | 1 AWG                 | 2.5           | Three | 1.25"       | •                            | •    | •    | 118° | 44°  | 39°  | 34°  | 26°  | 22°  |
| Model 9326/9327            | 600v 3Ø         | 150        | 144A/phase | 2/0 AWG               | 2.5           | Three | 1.25"       | •                            | •    | •    | •    | 51°  | 45°  | 39°  | 34°  | 26°  |

• Temperature electronically limited to factory preset not to exceed temperature.

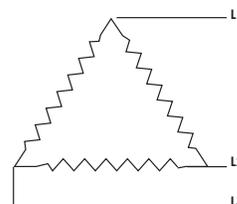
## INSTALLATION DRAWING



## PRESSURE DROP



## ELECTRICAL CONFIGURATION & REQUIREMENTS



### Three Phase Units Delta Configuration

Requires: 3 Lives and 1 Ground (earth)

## OPTIONS

### NEMA 4/4X ENCLOSURE

- NEMA 4 or 4X cabinet required when choosing any of the below options, FP, GFCI, EDS, and/or EP
- NEMA 4 powder-coated, waterproof, and pressurization enclosure
- NEMA 4X stainless steel, waterproof, corrosion-resistant, insulated, and pressurization enclosure for harsh outdoor environments. Available in 304 or 316 Stainless Steel.
- Enclosure Type: UL508A listed type 4 wall-mounted enclosure
- Enclosure Material: 14 GA Steel
- External Height A: 36" (91.44 cm)
- External Width B: 30" (76.2 cm)
- External Depth C: 17" (43.18 cm)



### FP - Freeze Protected

- Internal thermostatically-controlled enclosure heater
- Enclosure heater element capacity: 1200W
- Enclosure heater thermostatic range: 32° F to 140° F (0° C to 60° C)
- Heater protects internal components to -30° F (-34.4° C)
- Insulation: water-resistant Neoprene foam gasket
- IP Rating: 66

### GFCI - Ground Fault Circuit Interrupter

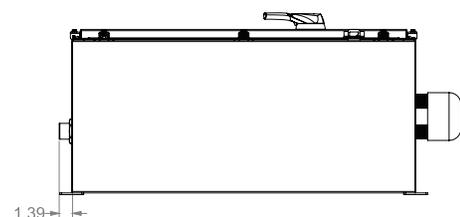
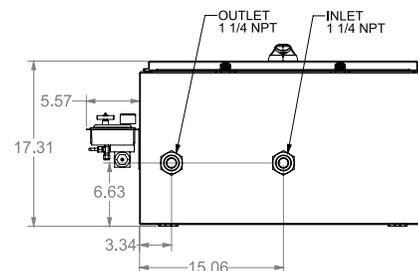
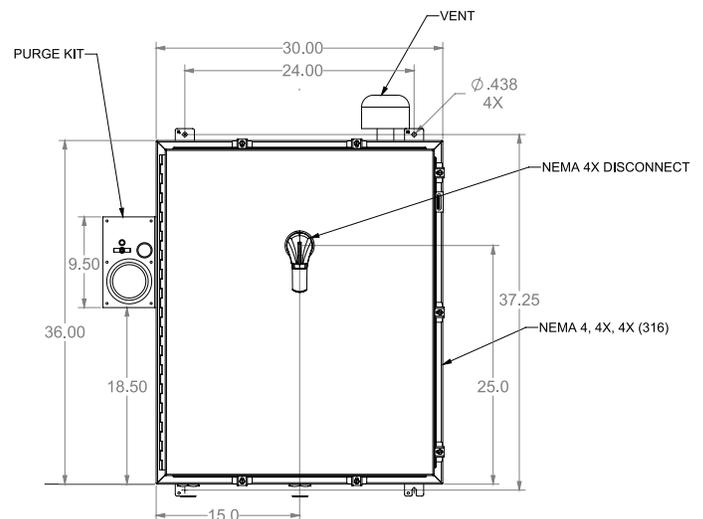
- True RMS GFCI
- Digital display
- Enclosed manual reset

### EDS - Electrical Disconnect Switch

- UL98 non-fusible indoor disconnect
- Rated at 600v with 100 or 200 amp capacity (predetermined by kW of water heater)

### EP - Explosion Proof

- Large-volume pressurization purge controller (volume up to 90 cubic feet) 3003 Lps, NEC type Y Class 1 Div 2, Groups A, B, C and D classified by Underwriters Laboratories, NFPA 496 - 1993

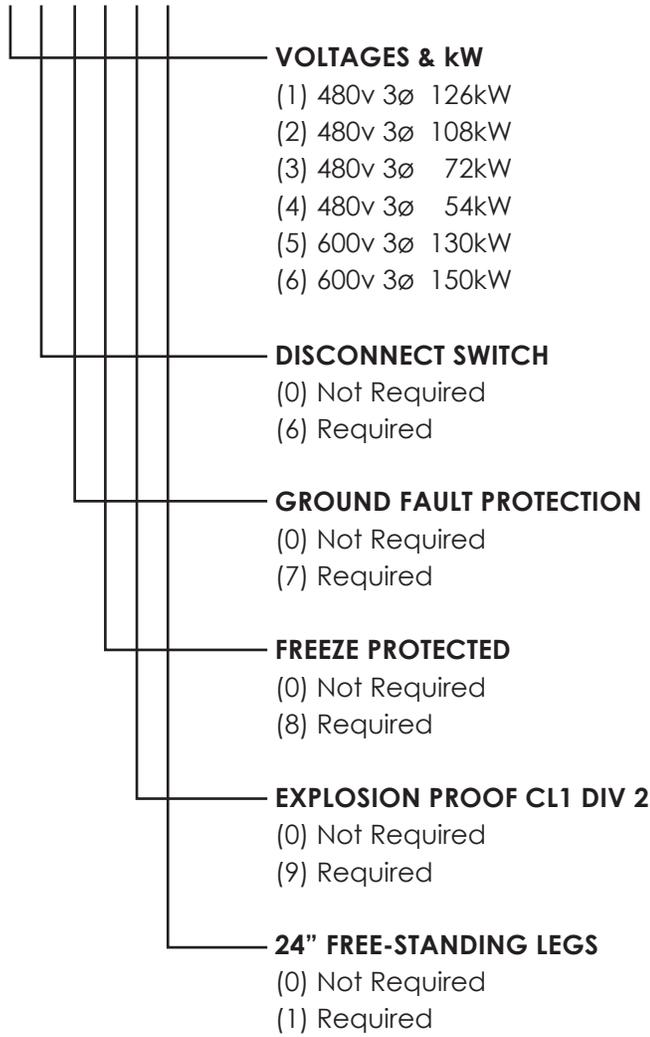


# MODEL CONFIGURATION OPTIONS

Complete your custom configuration by selecting the options and their corresponding number.  
Place the number in the allocated order to complete your configuration.

## models 9326 or 9327

X X X X X X



For Model 9327 only, select the final option below:

## model 9327

X X X X X X X



Your configuration model \_\_\_\_\_.

Questions? Call Haws Customer Service at 775.359.4712