

## APPLICATIONS

The **Haws® 9327CE** Instantaneous Electric Water Heater is designed to provide immediate tepid water for safety showers and eyewashes. In accordance with EN 15154 guidelines, tepid water, ideally between 20°C and 25°C, ensures that victims can use the emergency equipment for the recommended 15 minutes without the risk of hypothermia or scalding.

Capable of delivering between 9.5 and 151 liters per minute of tepid water, the 9327CE can feed either a combination safety shower or multiple eyewash stations. When activated, the instantaneous heater quickly heats the water to the set tepid temperature in a matter of seconds. The predictive control algorithm ensures precise temperature control (+/- 1°C at steady state flow) of the tepid water.

The 9327CE Instantaneous Water Heater simplifies installation by integrating directly into the cold water supply pipe for the safety equipment, eliminating the need for a thermostatic mixing valve. It is a safe and smart solution, providing endless tepid water for emergency equipment across all industries, including offshore applications.



## KEY FEATURES

### CE Certification

The CE certification affirms the conformity of instantaneous water heater 9327CE with European health, safety, and environmental protection standards

### Parabolic Heat Design

The Parabolic Heat Design™ enables fast water heating and minimal pressure drop

### Precise Temperature Control

Predictive control algorithm and diverse safety features for precise temperature control

### Updatable Firmware

Field programmable and updatable firmware provide flexibility for future adaptations

### High Operational Reliability

Thermo-optical sensor for monitoring infrared elements ensures high operational reliability

### Protection Against Entrained Air

Thermo-optical sensor for protection against entrained air or improper commissioning

### Stainless Steel Cabinet

Robust cabinet made of 304 or 316 stainless steel allows for indoor and outdoor installation (IP 66 / NEMA 4)

### Numerous options

Wide range of factory-installed options available to meet on-site requirements

## TECHNICAL INFORMATION

Cabinet:	Stainless steel
Voltage:	400 V
Rated power:	50/75/100/120 kW
Flow rate:	max. 151 liters per minute (l/min)
Optimum operation pressure:	4.1 – 6.2 bar
Standard temperature setting:	29.4 °C
Dimensions (H x W x D):	762 x 667 x 342 mm
Cold water inlet:	1 1/4" NPT(M)
Tepid water outlet:	1 1/4" NPT(M)

## BENEFITS

### INCREASED EMPLOYEE SAFETY

Tepid water allows employees to remain in the water flush for the required 15 minutes without the risk of hypothermia or scalding.

### REDUCED ENERGY CONSUMPTION

The instantaneous water heater not only reduces energy consumption but also promotes sustainability. By consuming power only when actively heating water, it minimizes unnecessary energy usage, contributing to a greener and more eco-friendly approach.

### LOW ENERGY AND MAINTENANCE COSTS

The low energy and maintenance costs of this system contribute to a sustainable approach by eliminating the need for continuously heated water in stand-by systems. By efficiently using energy only when necessary, the system reduces overall energy consumption, resulting in lower carbon emissions and environmental impact.

### REDUCED LEGIONELLA RISK AND IMPROVED HYGIENE

By eliminating standing tepid water in the system, the risk of Legionella growth is reduced, promoting a healthier environment with improved overall hygiene.

### SPACE-EFFICIENT DESIGN

Compared to alternative solutions, the instantaneous heater has a small footprint as it eliminates the need for boilers, pumps, and tepid water loops.

### FLEXIBLE INSTALLATION

9327CE can be mounted on a wall above or near the emergency equipment to free up floor space.

### EASY INTEGRATION

The Instantaneous Water Heater requires only a power cable, making it simple to integrate into existing solutions.

### RELIABLE AND SAFE OPERATION

Maintains the defined water temperature (+/- 1°C at steady state flow) without the need for additional tanks, valves, pumps, or other features.

### COMPLIANCE WITH STANDARDS

The instantaneous water heater complies with the CE standard and is suitable for use with eye wash stations and emergency showers according to EN 15154 or ANSI.Z358.

### 9327CE SELECTION CHART

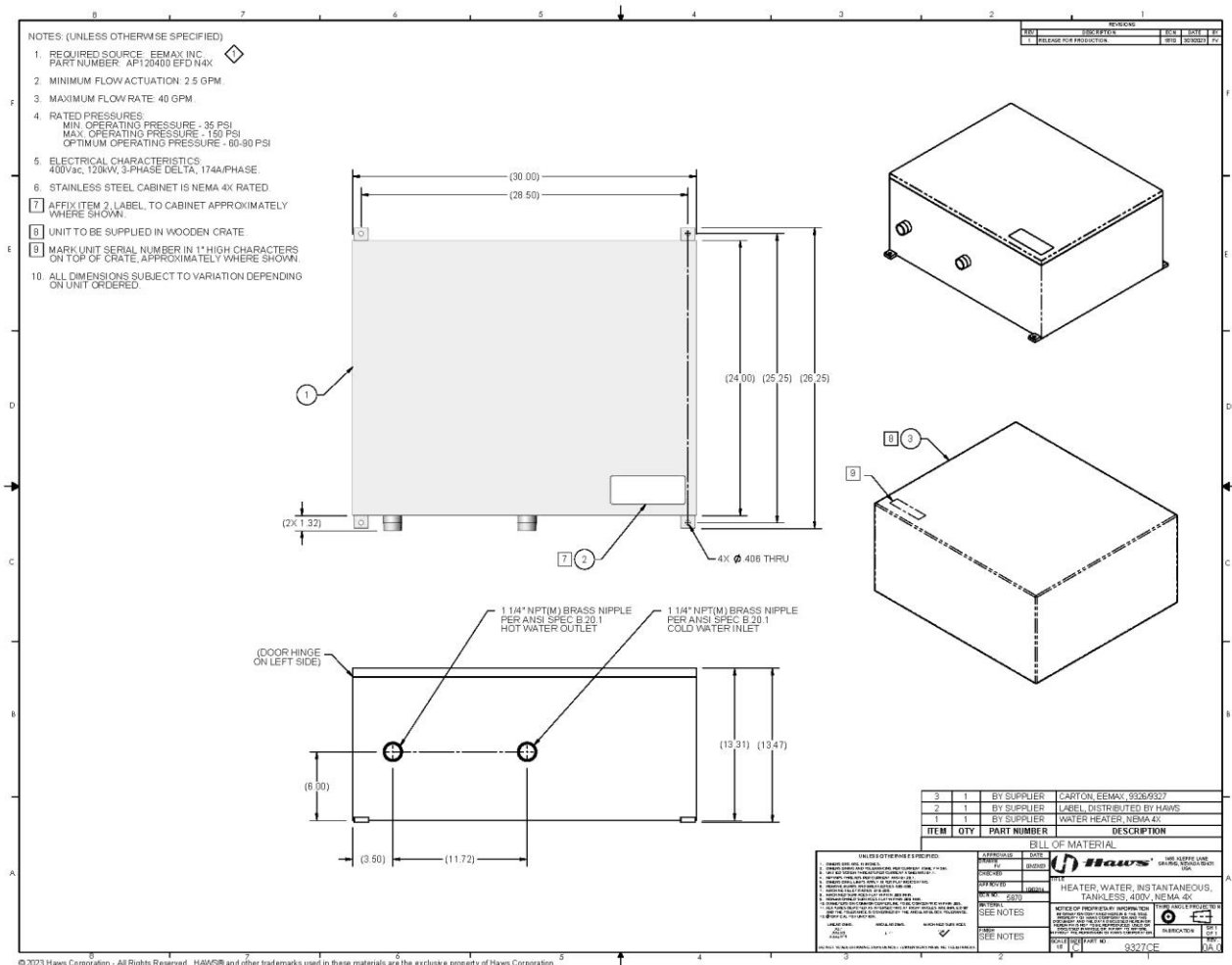
#### Steps to Select the Correct Version of your 9327CE Heater:

1. Determine the desired water temperature increase: Calculate the temperature difference between the desired outlet temperature and the inlet temperature.
2. Determine the maximum flow rate: Consider the requirements of the downstream eyewashes and emergency shower(s).
3. Refer to the table below: Find the corresponding electrical power requirement for the heater based on the determined temperature increase and maximum flow rate.

By following these steps, you can accurately select the right version of the 9327CE heater for your specific needs.

		Temperature Rise [°C]								
		Eyewash Applications				Safety Shower Applications				
Voltage	Rating	11 l/min	15 l/min	19 l/min	23 l/min	76 l/min	87 l/min	98 l/min	114 l/min	151 l/min
400 V	50 kW	63 °C	47 °C	38 °C	32 °C	9 °C	8 °C	7 °C	6 °C	5 °C
400 V	75 kW	•	71 °C	57 °C	47 °C	14 °C	12 °C	11 °C	9 °C	7 °C
400 V	100 kW	•	•	76 °C	63 °C	19 °C	16 °C	15 °C	13 °C	9 °C
400 V	120 kW	•	•	•	76 °C	23 °C	20 °C	18 °C	15 °C	12 °C

### INSTALLATION DRAWING



## OPTIONS

### VOLTAGES & kW

The CE certified instantaneous heater 9327CE is available in 400 V and offers four power ratings (50 kW, 75 kW, 100 kW, and 120 kW). These options provide flexibility to adapt the heater to meet specific onsite requirements based on the desired temperature increase and maximal flow rate.

### FUSED DISCONNECT SWITCH

The Fused Disconnect Switch (FDS) option allows the heater to be safely shut down at the heater via a safety lockout with the additional benefit of fuse protection integral to the disconnect.

### NON-FUSED DISCONNECT SWITCH

The Non-Fused (electrical) Disconnect Switch (EDS) option allows the heater to be safely shut down at the heater via a safety lockout.

### GROUND FAULT PROTECTION

The Ground Fault Circuit Interrupter (GFCI) is a true RMS sensing unit which continuously monitors the current flowing into the heater. In the event of an electrical hazard where there is an electrical path to ground in excess of prescribed limits, the GFCI will immediately power down the heater.

### FREEZE PROTECTED

The Freeze Protection option includes a cabinet heater which continually monitors temperature and turns on at 4 °C to prevent freezing and the potential of product damage.

The Freeze Protection option does not include heat trace material for the incoming and outgoing water lines.

### FREE-STANDING LEGS

The Stand Kit (SK) option is available for locations that are not able to wall mount the unit, or that require a free standing unit.

### CABINET MATERIAL

The IP66-rated cabinet is made of stainless steel 304 or 316, offering durability and corrosion resistance. Designed for harsh environments, it is suitable for applications where the heater may be exposed to corrosive or abrasive substances. This includes petrochemical facilities, including offshore oil installations.

### DRY CONTACTS

The Dry Contact option allows for remote monitoring of the water heater.

### REMOTE DISPLAY

The Remote Display option moves the control panel off of the heater itself and positions the display on the exterior of the cabinet, making monitoring or temperature adjustment much easier.

All options are factory installed. It is important to note that no options are available as retrofits.

## MODEL CONFIGURATION

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

<b>Model 9327CE</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>0</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	
										<b>Voltages &amp; kW</b>
										(A) 50 kW / 400 V
										(B) 75 kW / 400 V
										(C) 100 kW / 400 V
										(D) 120 kW / 400 V
										<b>Disconnect Switch</b>
										(0) Not required
										(5) Fused disconnect switch (FDS)
										(6) Non-fused disconnect switch (EDS)
										<b>Ground Fault Protection (GFCI)</b>
										(0) Not required
										(7) Required
										<b>Freeze Protection</b>
										(0) Not required
										(8) Required
										<b>600 mm (24") Free Standing Legs</b>
										(0) Not required
										(2) Required
										<b>Cabinet Material</b>
										(1) 304 stainless steel
										(2) 316 stainless steel
										<b>Dry Contacts</b>
										(0) Not required
										(3) Required
										<b>Remote Display</b>
										(0) Not required
										(4) Required

Your model configuration: \_ \_ \_ . \_ 0 \_ . \_ \_ \_

If you have any queries, please do not hesitate to contact Haws EMEA at +41 34 420 60 00 or [info@haws.ch](mailto:info@haws.ch).