HEATEC® FIRESTORM®

WATER HEATERS

ASTEC

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- **99% Efficient**
- **Water termperatures up to 185˚F**
- **Flow rates up to 1,200 gpm**

With the Firestorm heater, water is heated on-demand. Unlike using a heated water tank, there is no need to heat, store and maintain the temperature of thousands of gallons of water.

Firestorm heaters are designed to heat water for a wide variety of business operations. They provide a constant supply of hot water for clean-up operations. And they provide heated water used in the manufacturing process of many products. Certain models are certified for food service and carry the NSF seal of approval.

Firestorm heaters have extremely high thermal efficiency: up to 99 percent. They raise the temperature of water up to 185 degrees F at flow rates from 13 to 1,200 gpm depending on heater size. Stack temperatures are close to incoming water temperatures.

APPLICATIONS

- **Food processing**
- **Ready-mix concrete**
- **Car and truck washes**
- **Poultry**
- **Aquaculture**
- **Bottling**
- **Carpet and textile**
- **Pharmaceutical**
- **Oil, gas & chemical**
- **Railroads**
- **Commercial laundries**
- **Hotels**

Many models of the Firestorm heater are certified for food service in accordance with NSF/ANSI Standard 5. They are gas-fired and all parts that contact the water they heat are lead free.

CONTROLS

Control panel is UL certified and meets NEMA 4 requirements for protection against windblown dust and rain, splashing water and hose-directed water. It includes a PLC (programmable logic controller) for automated control of the heater. It also includes a Fireye Flame Monitor that provides microprcessor-based burner management.

SERVICE AND SUPPORT

We back our products with 24/7 support from our in-house parts and service departments. Our engineers and sales staff are available for project consultation, and our factory-trained service technicians can install and setup your new Heatec Firestorm instantaneous hot water heater for you.

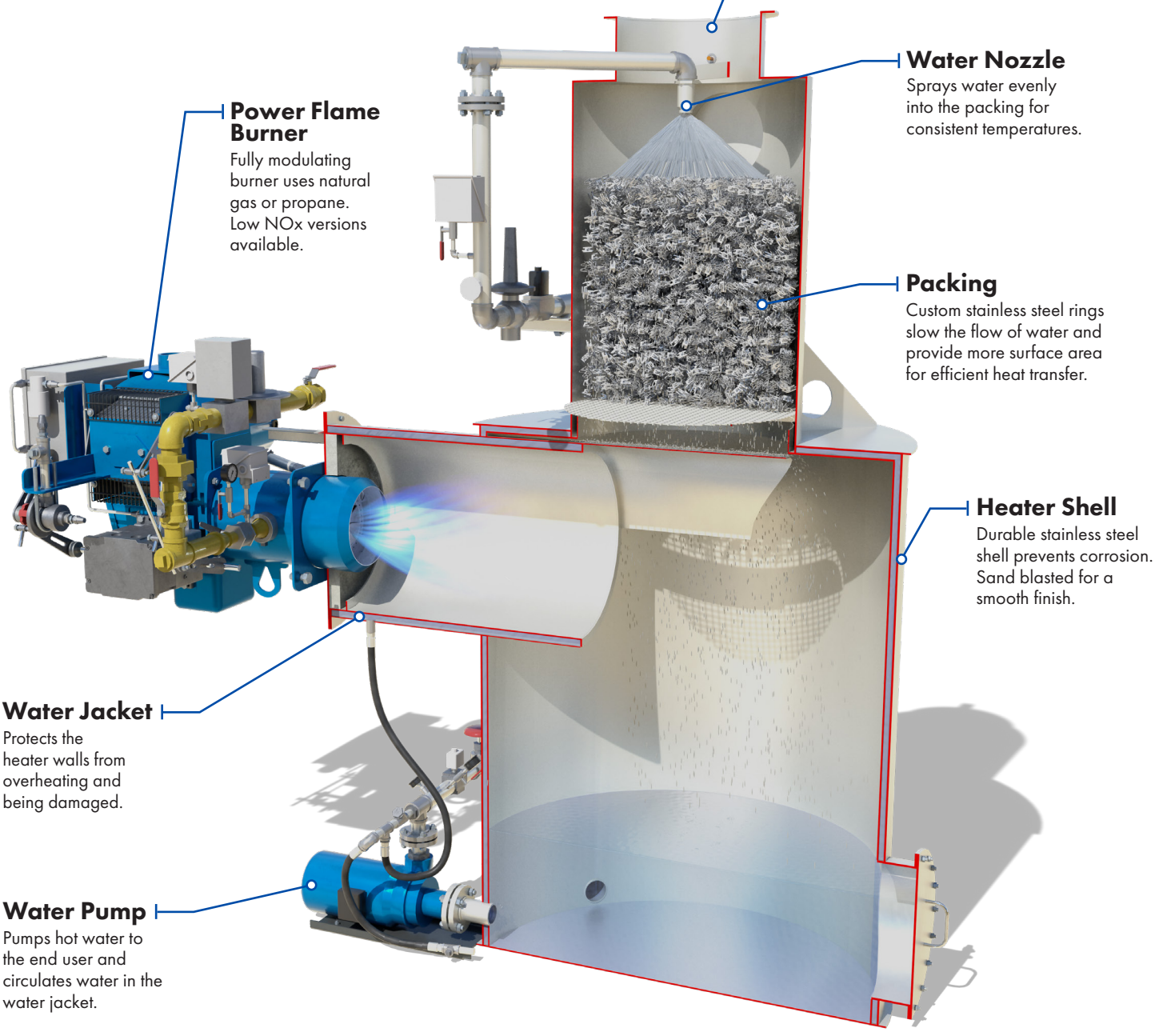
DESIGN AND FEATURES

The heater uses a fully-modulating, forced-draft burner that fires into the side of the heater shell. Cold water is sprayed into the top of the shell and migrates downward through a bed of stainless steel rings, called packing. Packing temporarily slows the flow of water and provides surface area for heat transfer. As water migrates downward through the packing, hot burner gases flow upward through the falling water. The water is heated by direct contact with the hot burner gases. Heated water flows to the bottom of the shell where it accumulates momentarily. The hot water is pumped from the collection area at the bottom of the shell to the location where it is used.

SAFETY FEATURES

Firestorm heaters provide safe, unattended operation. Burner controls include a Fireye Flame Monitor to provide microprocessor-based burner management. This ensures that all safety limits are met before the burner is fired. Low-level switches prevent the burner from firing unless water is flowing through the heater. This prevents the walls of the heater from being damaged by overheating. High-level switches shut off the burner and incoming water.

Scan to watch the video.



Exhaust Stack
Gases exiting the heater are cool as a result of the high thermal efficiency.

Water Nozzle
Sprays water evenly into the packing for consistent temperatures.

Power Flame Burner
Fully modulating burner uses natural gas or propane. Low NOx versions available.

Packing
Custom stainless steel rings slow the flow of water and provide more surface area for efficient heat transfer.

Heater Shell
Durable stainless steel shell prevents corrosion. Sand blasted for a smooth finish.

Water Jacket
Protects the heater walls from overheating and being damaged.

Water Pump
Pumps hot water to the end user and circulates water in the water jacket.

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