HEATEC® AQUATEC® BATH HEATER

PROCESS HEATERS

ASTEC™

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Heatec Aquatec is the premier line of industrial bath heaters available from Astec. The heaters offer unique benefits compared to other types of heaters and are fully customizable to accommodate your requirements, including environmental regulations. Some benefits of using a bath heater include:

- Electrical power over 24V is not required to operate natural draft configuration
- No catalyst regeneration
- Process fluids are isolated from the burner flame
- Prevents damaging hydrate formation
- Low process heat flux
- Low process temperature heating without flue gas condensation

APPLICATIONS

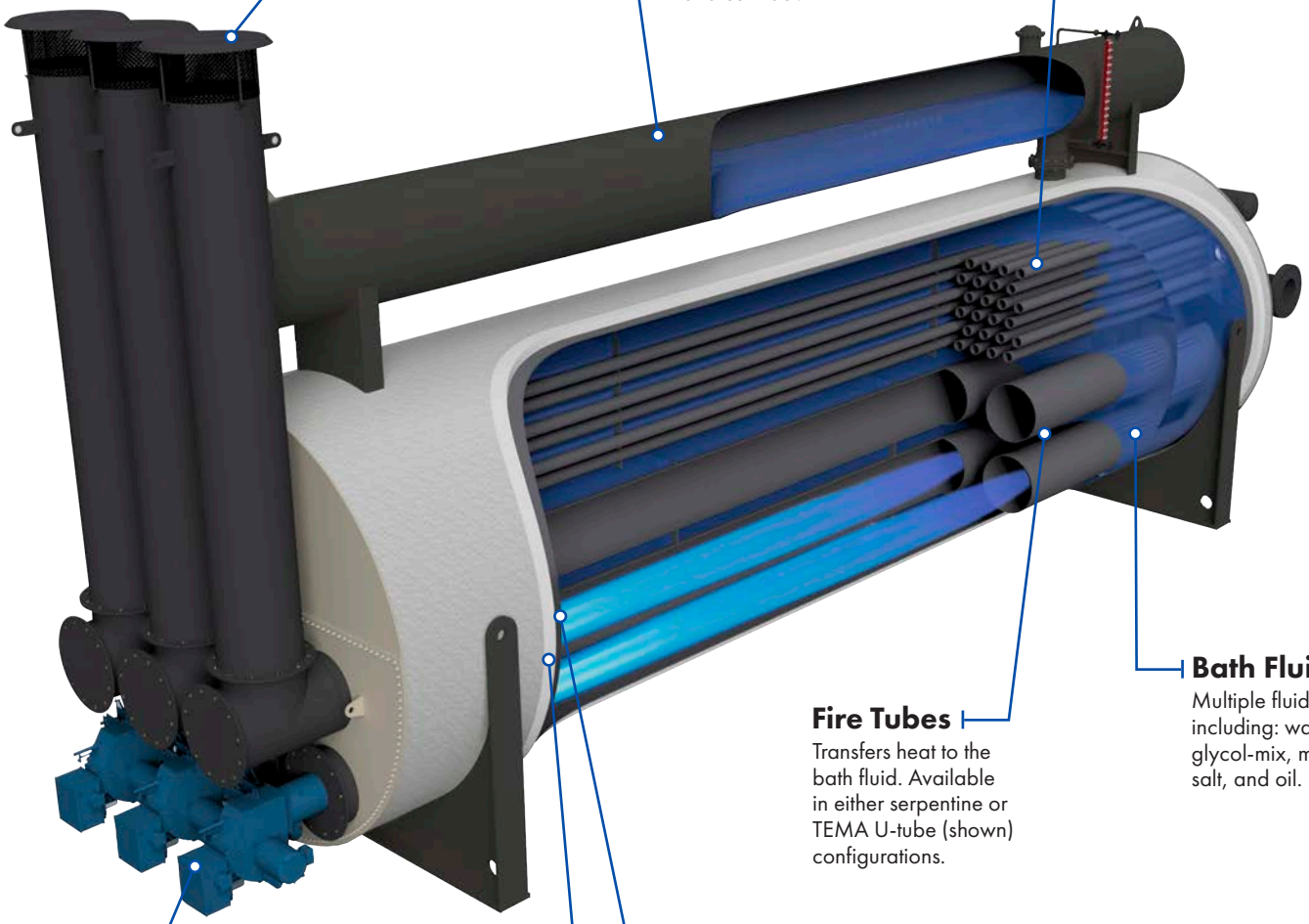
- Power Generation Plants
- Compressor Stations
- Well-Heads
- Offshore Platforms
- Refineries
- City Gates
- Fuel Gas Conditioning
- Crude Oil Treatment

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 Aquatec bath heater for you.

DESIGN AND FEATURES

- Built to meet API-12K design requirements
- Process bundles and fire tubes are field removable



Process Bundle
Absorbs heat from the bath fluid to heat a product, typically natural gas or crude oil. Built to ASME Section VIII, Division 1 standards.

Expansion Chamber
Minimizes evaporation and allows bath fluid to expand and contract.

Exhaust Stacks

Bath Fluid
Multiple fluid options including: water glycol-mix, molten salt, and oil.

Fire Tubes
Transfers heat to the bath fluid. Available in either serpentine or TEMA U-tube (shown) configurations.

Heater Shell
Contains the bath solution. Typically made of carbon steel but other materials are a vailable.

Burners
Forced draft (shown) or natural draft designs available. Configurable for one or more burners.

Insulation
Insulates the heater shell and is wrapped in aluminum cladding.

CUSTOMIZATION/UPGRADES

- Precise process temperature control
- PLC with DCS or SCADA integration
- Fuel gas preheating
- Process gas metering and pressure let down
- Recon® monitoring system
- Single digit emissions
- Cold weather enclosure
- Configurable for use in hazardous areas per FM, NEC, NFPA, CSA, ATEX, IECEx, and GOST requirements

FORCED VS NATURAL DRAFT

The main difference between the two designs is how combustion air is generated. In a forced draft system, the air is pushed into the burner with a blower, while in a natural draft system, the air is pulled through the burner by the stack draft. Natural draft can also be designed to operate off-grid with solar power.

Our bath heaters can utilize natural gas, waste gas, light or heavy fuel oil, propane, dual fuel burners, and/or electric elements.

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