SNA SERIES
Fluid heating for emergency safety shower systems

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KELTECH
ELECTRIC TANKLESS
WATER HEATERS

Keltech is the recognized leader in commercial electric tankless water heating systems. Whether your application is industrial, hotels, stadiums, food processing, or safety, there is a Keltech tankless water heating solution. With unmatched quality and durability, Keltech manufactures the fastest, most reliable, and most efficient tankless water heaters in the industry.

Keltech tankless heaters are offered in a full line of products for an extensive range of applications as well as custom designs for unique environments. Keltech tankless water heaters have been on the market for over 25 years and are now an integral part of Bradley Corporation's water heating solutions. For 95 years, Bradley has manufactured commercial safety, water tempering, and washroom products. Today, Bradley is the industry's most comprehensive source of commercial and industrial plumbing fixtures, tankless water heaters, washroom accessories, partitions, emergency fixtures, and plastic lockers.

Save Energy
Inefficient boiler systems have to generate heat and maintain temperature 24 hours per day, 7 days per week. Keltech tankless heaters only heat water when needed. And, Keltech's innovative controller is fully modulating so you only use the actual kW needed, not full power or stages.

• Save Space
A large commercial tank water heater requires a large space. Keltech tankless water heaters only require 3 square feet (0.3 square meters) of space to generate up to 491,000 BTUs.

• Simple Installation
Requires only one electrical connection and water. No pumps, no external fusing, and no design needs to be considered externally – it's all built into the heater.

• Simple to Maintain
No tank to maintain, no anodes, no softeners.

• Simply the Best
Built to the toughest standards with the highest quality materials and engineered to meet the world's most demanding applications.

SNA SERIES
SAFETY SHOWER APPLICATIONS
SNA Series

SNA Series safety shower heaters are heavily engineered and a perfect solution for workers at risk from chemical injury. Designed to meet ANSI Z358.1 standards, heaters activate only when needed and provide an unlimited supply of tepid water to meet the needs of your safety shower application. Keltech’s electrical components also ensure tepid water standards (100°F/38°C) are never exceeded with its three-tier anti-scald protection and hot water purge. Heaters activate at 1.5 GPM (5.7 L-Min) and can handle water flow up to 50 GPM (189 L-Min).

SNA Series heaters can be paired with any of Bradley’s high-quality safety showers to provide a safe working environment for employees. Depending on the application, Keltech can also offer a turnkey solution with one of the pre-assembled and transportable Design on Demand™ Skid Series products featuring SNA heaters.

Applications include emergency shower or combination shower/eyewash systems, hazardous chemical environments, scientific laboratories and manufacturing environments.

Whatever your specific application is, Keltech has a tankless heating solution.

**kW Range**
- 36 - 144 kW

**Flow Range**
- 1.5 - 50 GPM (5.7 - 189 L-Min)

**Standard Voltages**
- 480V, 600V 3-Phase Delta

**Code Compliance & Certifications**

- **Lead-Free**
  Brass/Copper heat exchangers certified to NSF/ANSI 372

- **Third-Party Certified**
  ETL listed to UL499, UL50E, NFPA 496 (for hazardous locations)
  C-ETL listed to CSA-C22.2 No.88.

- **Compliant to NEC/NFPA 70 and Canadian Electrical Code C22.1**

- **ASME Certified**
  Keltech SNA units (63 kW and over) are the only electric tankless water heaters National Board certified with the HLW stamp.
SNA SERIES

STANDARD FEATURES

PID Temperature Controller
More energy efficient and reliable than traditional microprocessors, Keltech heaters hold temperature as demand changes regardless of incoming ground water temperature. Power is infinitely variable, with no fixed inputs. The PID controller makes it possible to modulate the amount of power applied to the elements while also dispersing the required power evenly across all elements. This unique feature increases the product’s life cycle.

Simple Touch Operation
Digital LED screen with touch pad for easy operation shows set point and output temperature.

Precise Temperature Range & Flow
The electronic power modulation system can control outlet water temperature to within +/- 1°F (+/-0.56°C) over a wide range of flow rates. Precision temperature controls make Keltech tankless water heaters the preferred choice for process heating applications or an alternative to high energy consuming boiler use.

Incoloy 800 Elements
Recognized for extending the life of the metal components. Provides protection, durability and resistance to scaling from hard water. Water is only heated when flowing; this means sediment will not collect in the heat exchanger.

Low Watt Density Element
Extremely low wattage is applied per square inch of the element for improved heat transfer & reduced scaling which results in a longer lasting element.

Electrical Design
Requires only one service feed per unit. Includes internal fusing as standard, which provides superior protection. Units have a delta wiring system and do not require a neutral.

Minimal Pressure Drop
Keltech’s best in industry low pressure drop reduces or eliminates the need & expense associated with adding pressure booster pumps.

Liquid-Cooled Solid State Relays
Liquid-cooled, solid state relays provide silent switching which has a faster response than mechanical relays to help maintain an accurate temperature. Relay switching controls also provide an infinitely variable power draw.

Auto Reset High Limit Switch
Internal circuit breakers monitor for over temperature conditions and ensure individual chambers do not exceed standards. Should the heater’s safety circuits sense a problem prior to manual shut down, power is safely interrupted at a mechanical relay.

Bi-metal Manual Resets
Every heater that Keltech engineers includes a separate set of circuits that monitor over temperature conditions. Should overheating occur, each sector of the heat exchanger has a dedicated thermal switch that breaks power. Normal operation cannot be resumed until the safety switch is manually reset.
NEMA 4 Enclosures
Standard floor cabinet enclosure is NEMA 4 rated and constructed of 14 gauge steel and powder coated with corrosive resistant paint. Enclosure protects the components of the safety shower heater from dust & water.

TepidGuard™ Overshoot
Patented TepidGuard anti-scald protection will automatically open & purge latent heat to maintain temperatures on low and high flow applications. Feature both actively monitors temperature within the heater while operational & passively monitors the water temperature while the heater is inactive. This ensures output temperature will remain within ANSI specifications.

Activation Requirements
On-demand heaters require a minimum flow rate for activation. Water heaters come standard with 1.5 GPM (5.7 L-Min) activation set point & can provide flow up to 50 GPM (189 L-Min). Minimum flow requirements provide maximum efficiency.

Durable Plumbing Assembly
All units consist of brazed joints, a brass and copper heat exchanger, industrial-grade flow sensor and brass castings/fittings at all directional changes.

Premium Materials
All waterways consist of high-quality copper and brass construction tested to 300 PSI (20.7 bar). Robust lead-free brass castings & flanges are CNC cut from solid brass blanks for precision fit. High-quality copper and brass construction extend the life of the heat exchanger.

Reliable Performance & Minimal Maintenance
The heater maintenance schedule falls within the normal facilities maintenance program requirements. LED indicators, test buttons, and reset buttons on the front cover dramatically reduce the need to open the enclosure making maintenance or troubleshooting even easier.

Easy to Install
Heaters can be floor-mounted almost anywhere. Without a traditional tank the SNA Series saves space in any installation location.

BIM-REVIT MODELS AVAILABLE FOR ALL KELTECH SERIES @BRADLEYCORP.COM
NEMA 4X Enclosures
For harsh environments, NEMA 4X watertight enclosures are available for an additional level of protection. Enclosures are made from 304 or 316 stainless steel.

Freeze Protection Package
For temperatures lower than 33°F (0.56°C), Keltech offers two freeze protection packages. ENHT offers protection to -20°F (-29°C) & ENHT30 offers protection to -30°F (-34°C). Includes internally insulated NEMA 4/4X enclosure and thermostatically controlled heater to maintain internal temperatures above freezing.

Internal Fused Disconnect
The internal fused disconnect interlocks with the enclosure door when energized, prohibiting access to a live cabinet. There is no need to install an external disconnect.

ASME Heat Exchanger
Units 63 kW & higher have the option to be fitted with internal plumbing certified to Section IV of the ASME Boiler and Pressure Vessel Code – an industry exclusive certification.

Activation Alarms
Keltech offers two levels of building communication alarm options:
• AL3 provides dry contacts that open to signal flow of water has activated the heater
• AL3-SL additionally activates a local audible and visual stack light alarm on the heater

Integral Ground Fault
Detects electrical leakage from external sources and protects the equipment, electronics and heat exchanger by terminating power to the elements and disabling operation of the unit.

Design on Demand™ Solutions
SNA Series heaters are engineered for durability and performance in any emergency/safety application. And, when unique environments require innovative solutions, Bradley Engineers design custom systems for any heating need:

• When recirculation or a booster heater is needed, Keltech fully-modulating liquid-cooled heaters are the perfect solution.
• Custom solutions available for your unique application requirements.
• When the run is too long or pressure is too low, Keltech booster systems are pre-piped and ready to be installed in Series or in parallel.
• Work directly with a Keltech System Design Consultant.
OPTIONAL FEATURES

Explosion-Proof Purge System

SNA Series safety shower heaters in NEMA 4/4X enclosures can be equipped with an explosion-proof purge system. The type of purge system determines the classification or division the enclosure will meet. SNA Series use a system that conforms to Class 1, Division 2 hazardous area standards. Electrical components installed in NEMA 4/4X enclosures allow the system to be pressurized by clean instrument air or inert gas. Heat, moisture, dust and corrosion are eliminated by providing the enclosure with a slow but continuous flow of inert gas or dry compressed air. This process removes flammable gases and/or prevents the accumulation of ignitable dusts within the protected enclosure. The purge system:

- Conforms to Class 1, Division 2 hazardous area standards; other class and division ratings may be available
- Reduces heat build-up in the enclosure
- Inhibits metal corrosion and reduces moisture buildup
- Provides continuous monitoring capabilities
- Eliminates large, heavy explosion-proof enclosures
- A constant supply of inert gas or clean air required

All plumbing fittings are 1-1/4" (32 mm) NPT female threaded

1. Suggested region for power entrance. Entrance hole and components to be provided by installer.
2. Purge control panel Class 1 Division 2.
3. Spark arrestor with calibration orifice is located in the bottom of the enclosure.
4. Purge gas/compressed air inlet fitting here.

All installation egress from panel must be sealed (electrical conduit) for proper explosion-proof installation.
Design on Demand:
A complete solution in one compact, portable package
Keltech Skid Series are easy to specify for your unique application and can be easily transported with a forklift. Connect a water and power supply and the Keltech Skid Series is ready for any situation – even remote locations.

- Electric tankless water heater
- Pre-piped & assembled
- Mounted on portable, pre-assembled steel skid
- Back-to-back SNA & SNAR heaters
- Safety systems

Applications
Emergency shower or combination shower/eyewash systems
Hazardous chemical environments
Power plants
Manufacturing environments
Waste water treatment plants
Mining
Process Heating

MODEL SNA-SKID
Safety skid with two tankless heaters
- Pre-piped, pre-assembled skid system
- Back-to-back SNA & SNAR safety heaters
- Higher flow demand safety fixture applications
- Transportable
SNA SERIES

DESIGN ON DEMAND™ SOLUTIONS

MODEL S19361
Safety skid with tankless heater and safety fixture

Tankless Heater
- Includes SNA heater with a Bradley emergency fixture, drain pan and drain, pre-assembled to skid
- NEW TepidGuard™ discharge thermally protects water inside the heater during use and stand-by
- Meets ANSI Z358.1 standards
- Provide continuous tepid water for multiple incidents with zero recovery time
- ETL & cETL certified to UL and CSA Standards

Combination Drench Shower & Eye/Face Wash
- Dual eye/face wash with Halo™ Technology provides 85% facial coverage – best in the industry
- Bowl and SpinTec™ Showerhead: stainless steel or ABS plastic
- Hinged dust cover in stainless steel or plastic
- Piping options: stainless steel or galvanized steel protected with BradTect™ corrosion-resistant yellow coating
- Exceeds minimum water flow of 3 GPM (11.4 L-Min) at 30 PSI (2.0 bar)
- UL classified to meet ANSI Z358.1

MODEL S19361F
Freeze-protected safety skid with tankless heater and safety fixture

Tankless Heater
- Includes single freeze-protected SNA heater with freeze-protected Bradley emergency fixture, drain pan, pre-assembled to skid
- NEW TepidGuard™ discharge thermally protects water inside the heater during use and stand-by
- Meets ANSI Z358.1 standards
- Provide continuous tepid water for multiple incidents with zero recovery time
- ETL and cETL certified to UL and CSA Standards

Combination Drench Shower & Eye/Face Wash
- Electric heat trace cable
  - Thermal rating: 5 watts/foot (31 cm)
  - Self regulated to -50°F (-45.5°C)
  - Protects against overheating and cold spots
  - 3/4" (19 mm) polyethylene pipe insulation
- ABS plastic outer shell with four easy-to-remove sections and sealed with vinyl trim
- Thermostat opens at 64°F (18°C) and closes at 54°F (12°C)
- Valve opens at 35°F (2°C) internal water temperature to prevent freezing
- 1/2" (13 mm) eyewash valve & 1" (25 mm) shower valve
- UL Plumbing listed to meet ANSI Z358.1 and CSA certified 161166
BIM-REVIT models available on bradleycorp.com