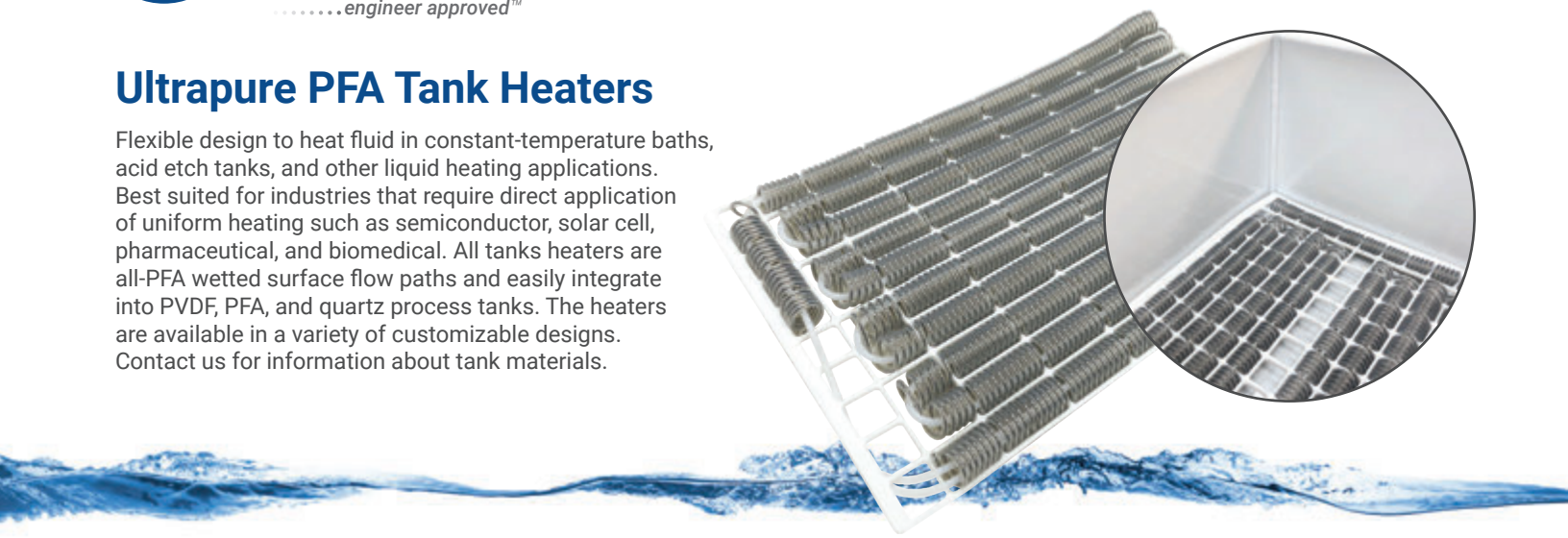
WHITE KNIGHT®
engineer approved™

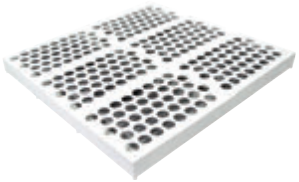
PFA TANK HEATERS

Ultrapure PFA Tank Heaters

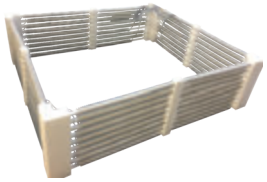
Flexible design to heat fluid in constant-temperature baths, acid etch tanks, and other liquid heating applications. Best suited for industries that require direct application of uniform heating such as semiconductor, solar cell, pharmaceutical, and biomedical. All tanks heaters are all-PFA wetted surface flow paths and easily integrate into PVDF, PFA, and quartz process tanks. The heaters are available in a variety of customizable designs. Contact us for information about tank materials.



Grid Heater



Frame Heater



Fence Heater

Circular Heater

Ultrapure Design

- All-PFA wetted surfaces
- Patented Heateflex® heating coil
- Effective solution for harsh chemicals

Fast Response

- Low watt density; ≤ 4 watts/in^2
- Superior temperature response with patented heating element

Compact Design

- Heating element technology maximizes power in small footprint
- Custom sizes for easy integration

No N_2 Purge Required

- PFA extruded over heating element eliminates need for Nitrogen purge
- Reduces operational costs

Available Options

- Perforated top and bottom floor grid
- Thermal cut-off sensor for 72-240°C
- PFA tubing on lead wires (10-ft)
- Additional lead wires (15-ft or 20-ft)
- Over-temperature thermocouple
- Process thermocouple
- Platinum or embedded ground wire

Models

Model	kW	Height	Benefits
Grid	1-6	3/4 in.	Most compact
Frame	1-30	1-1/2 in.	Design for higher kWs
Fence	1-10	Variable	Heater element on sides of tank
Circular	1-10	Variable	

Specifications

Flow Path	PFA
Sizes	1-30 kW*
Voltages	120-480 VAC 1 or 3 phase*
Max Temp	200°C (392°F)
Temperature Accuracy	±0.1°C*
Efficiency	>99 %

** Depends on style and voltage.*
***Contingent on Customer's use.*

Ultrapure Heateflex® Heating Element

Heateflex® coils are specialized heating elements with PFA wetted surfaces for ultrapure applications. They are ideal for harsh chemicals to up to 200°C.

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