



Accuheat® PFA In-Line Heaters for Aggressive Acids & Chemicals

Accuheat® PFA in-line heaters are designed for hydrofluoric acid (HF), potassium hydroxide (KOH), and other chemistry compatible with PFA. They push widely accepted high-purity fluids to operating extremes while maximizing performance and reliability. For over 45 years, our engineers have refined and improved heated quartz bath technologies for the harsh environments and critical needs of Semiconductor and related industries. That knowledge resulted in unmatched performance, simplified installation and maintenance as well. White Knight offers a wide range of standard and custom models to allow for easy integration into almost any application.



Features & Benefits

- No O-ring seals
- All wetted surfaces are high purity PFA
- PTFE housing for double containment
- Maximized watt density for performance
- Light weight construction
- Small foot print enabled by unique design
- Zero maintenance required
- PFA fluid path, wide chemistry compatibility
- High temperature capability >180°C

Unsurpassed Reliability

- Heavy gauge pre-formed Inconel element can stand up to high stress conditions without breaking down
- Power modulator monitors heater element temp and prevents heat buildup inside the housing
- Sealed housing prevents chemistry from attacking internal components and provides secondary containment
- Internal leak detect strip gives early detection of chemical leaks (requires external monitor)
- All wiring is run in FEP conduit to prevent chemical attack
- Indirect heating design, no submerged heater elements
- No N₂ or gas purge required

Single Pass Point of Use



Specifications

Heater	Accuheat® PFA In-line Chemical Heater
Process Chemistries	Dilute Hydrofluoric acids (DHF), Buffered Hydrofluoric acids (BHF), Buffered Oxide etch (BOE), Alkaline Chemicals (TMAH, KOH, NaOH), Fluorinated Solvents, Hydrofluoric Acid, Glycol, and more
Max Operating Temperature	180°C
Max Pressure	40 psi at 180°C
Wattages Single-Tube	1.5-12 kW
Wattages Dual-Tube	15-24 kW
Voltages	200-400 VAC, single or 3 phase, model dependent
Sensors	2 thermal couples, 1 over temp switch
Mounting	Horizontal or vertical
Connections	Fit-One standard, customer requested connections available
Certifications	UL Recognized (Pending)
Compliant to Requirements	CE, Semi S2, Semi S3
Warranty	12 months

Recirculating Loop

