

Accuheat® PFA In-Line Solvent Heaters for IPA, EKC, Acetone, Ethanol, NMP, and more

Accuheat® PFA in-line solvent heaters are ideal for IPA (Isopropyl alcohol), NMP, and much more. IMTEC introduces Gen.1.5 of the high-purity PFA solvent in-line heater. This in-line heater is designed to safely heat volatile flammable solvents while maintaining a high-purity flow path. Equipped with multiple safety devices, an improved purge path, and upgraded insulation materials, this in-line heater is certified for operation within a Class I, Division II environment. Single pass or recirculating, this in-line heater is ready to deliver stable fluid temperatures over a range of flow rates.



Features & Benefits

- Class I, Division II Environment Compliant (Third Party Certified)
- Continuous internal flow path, no O-rings or compression seals
- All wetted surfaces are high-purity PFA
- Stainless steel grounded housing
- Wiring shielded with grounded conduit
- Maximized watt density for performance
- Zero maintenance required
- PFA fluid path, wide solvent compatibility
- Redundant Over-Temperature Devices
- Stainless Steel housing and metal core enables a grounded construction preventing spark generation
- All wiring shielded with conductive, grounded, PTFE conduit preventing spark generation
- Low flow N2 housing purge provides positive pressure inert environment preventing the possibility of flame or ignition
- Indirect heating, no immersed heater elements which can lead to shock or contamination
- Small foot print enabled by unique design

Unsurpassed Reliability

- Heavy gauge pre-formed Inconel element can stand up to high stress conditions without breaking down
- Power modulator monitors core temperature and prevents heat buildup inside the housing
- Sealed housing prevents chemistry from attacking internal components
- All wiring is run in conduit to prevent chemical attack
- Indirect heating, no immersed heater elements
- Improved purge path for more reliable N2 flow
- Continuous internal fluid path, no O-rings
- Cellular Silicone Foam insulation provides unobstructed purge path

Specifications

Heater	Accuheat® PFA In-line Solvent Heater
Process Chemistries	IPA (Isopropyl alcohol), EKC (EKC265, EKC830, EKC270), Acetone, Ethanol, Toluene, MEK (methyl ethyl ketone), NMP, and much more.
Max Operating Temperature	89°C
Max Pressure	40 psi at 89°C
Wattages Single-Tube	1.5-12 kW
Voltages	200-400 VAC, single or 3 phase, model dependent
Sensors	2 T/Cs , 1 Over-Temp Switch
Mounting	Horizontal or Vertical
Connections	3/4-in Fit-One or S300 Pillar
N2 Ports	Inlet, Outlet, Pressure Monitor
Certifications	<p>IECEx Standards: IEC 60079-0:2017 IEC 60079-2:2014 IEC 61010-1 , IEC 61010-2-10 UL 499 & CSA 22.2 No.88</p> <p>ATEX Standards: EN 60079-0:2018 EN 60079-2:2014/AC:2015</p> <p>USA/CAN Standards: NFPA 496:2016 Ed.2017 UL 60079-0:2019 Ed.7 UL 60079-2:2017 Ed.6 CSA C22.2 No. 60079-0:2019 Ed.4 CSA C22.2 No. 60079-2:2016 Ed.2</p> <p>USA - Class 1, Division 2, Group A, B, C, AND D, Type Z; T2 Class 1, Zone 2, Aex pzc IIC T2 Gc</p> <p>CAN - Ex pzc IIC T2 Gc</p>
Compliant to Requirements	Semi S2 & S3
Equipment Marking	II 3G Ex pzc IIC T2 Gc Ex pzc IIC T2 Gc IECEx ETL 19.0027U ITS19ATEX104872U
Warranty	12 Months