

Fluoropolymer Heater

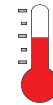
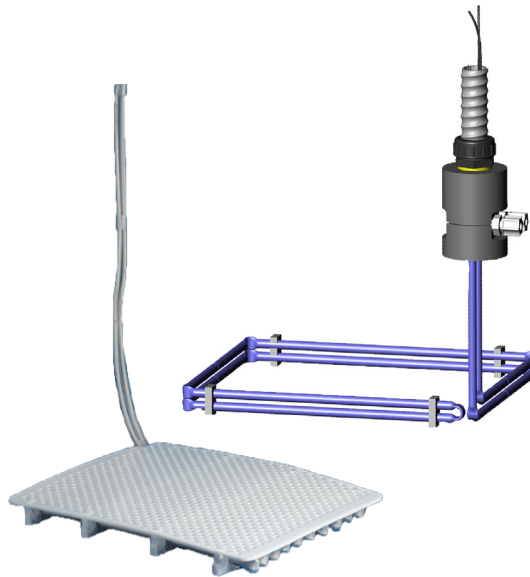
Excellent chemical resistance to aggressive acids!

Compatible with virtually any chemistry

Process temperature uniformity with low Watt density design

High efficiency & compact design

Extended service life with patented purge feature



Up to 130°C (266°F)



250 to 12,000 Watts

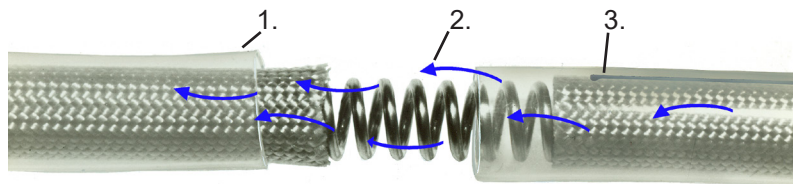


120 to 600 Volts
Single or three phase



PTFE sheath

Purged Heater Element Construction



1. Fluoropolymer Sleeve Heating Element

Resistance element sleeved in braided material for even coil separation. The entire element is given an outer sleeving of pre-tested & pre-extruded fluoropolymer tubing. THIS IS NOT A COATED PRODUCT.

2. N₂ Purge System

Monitors heater integrity & prevents condensation or diffusion of corrosive gases by purging nitrogen or clean dry air through the tubing.

3. Over-Temperature Thermocouple

Protects the integrity of the heater. If an operator should leave the heater on while draining or aspirating a tank, when used in conjunction with a temperature control device, it will automatically shut off the heater when it is exposed to air.

**PROCESS
TECHNOLOGY**

ISO 9001:2015
WITH DESIGN CERTIFIED

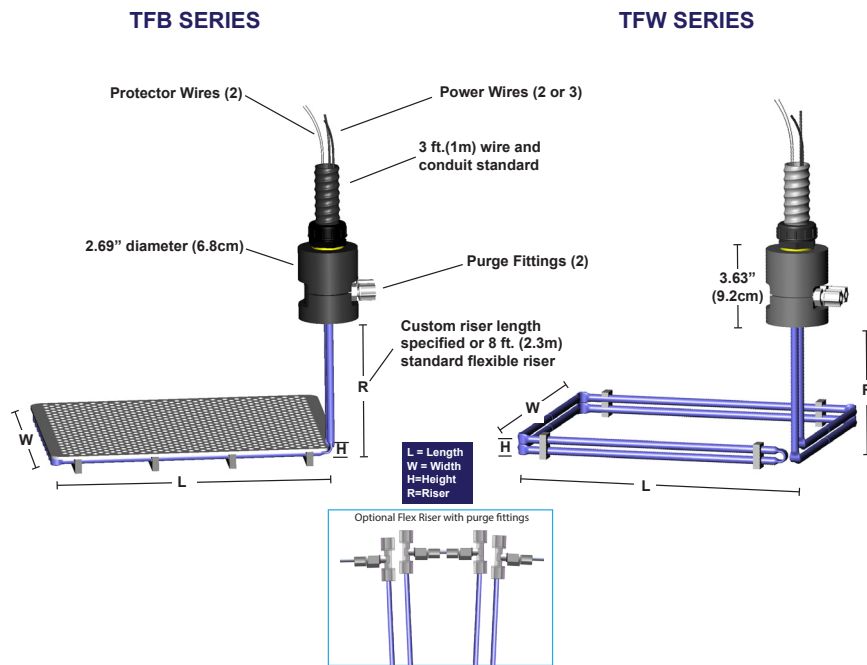
Features & Values

- Years of trouble-free performance in the most demanding chemical applications, such as semiconductor, FPD, MEMS, & biomedical industries
- PTFE heater element with 38mm (.015 in.) thick fluoropolymer sheath for safety & long service life
- Patented “purged” element design ensures maximum element life by removing chemical permeation
- 100% fluoropolymer wetted surfaces for virtually any non-flammable process solutions including HF & KOH
- Low Watt density design promotes process temperature uniformity

Specifications

Wattages	250 to 12,000 Watts
Voltages	120 to 600 Volts Single or three phase.
Temperature Range	Up to 130°C (266°F) For higher temperatures, see options section
Options Available (Consult Factory)	<ul style="list-style-type: none"> ▫ Custom heater configurations built to customer specifications ▫ 76mm(.030 in.) thick sheath available for applications above 130°C or for use with certain chemistries, such as nitride etch or HF. ▫ PID temperature control module ▫ Element gas purge flow regulator panel ▫ Special configurations & lengths ▫ Longer wire & conduit lengths ▫ Bolt down feature ▫ Lower Watt densities for highly viscous solutions & technical acids ▫ Customized process & over-temperature control sensors

Dimensions



Ordering Information

TFB Bottom Heater consist of:
PTFE ensleeved heating element
PTFE guard
8 foot heater leads
Nitrogen purge connections
Overtemperature thermocouples
Optional "TCO" thermal cut off heater fuse

1	TFB	-	1000	-	XXX
Number of Layers	Model		Wattage		Plan Number
1	TFB	-	250-12,000	-	XXX (assigned)
2	TFW				
3					
4					

