

**PROTHERM™ series FSA heaters are highly efficient, fast response, medium wavelength infrared heaters designed for use in general industrial process heating applications for sensitive products such as coating webs or textiles.**

- Operates at element temperatures up to 2100 f (2.0 micron-peak).
- Designs up to 50 watts per square inch.
- Unique serpentine metallic elements.
- Perforated face for air impingement.
- Highly efficient and effective.  
Efficiencies exceeding 89% have been proven, **the highest in the industry.**
- Heats up to processing temperatures in about 30 seconds.
- Cools down to "safe" temperatures in 30 seconds or less.
- Operating life in excess of 10,000 hours is expected when operated at 80% of rated output.
- Can be mounted horizontally or vertically without element sag.
- Self cleaning, maintenance free.
- Resistive load can be precisely controlled.
- Completely field survivable.
- Heats all colors uniformly.



### **Standard Features**

- Extruded aluminum case
- Stainless steel protective face screen
- Mounting studs
- 6" lead wires in a 2x4 or 4x4 junction box
- Dimensions (custom sized)  
Maximum width = 18"  
Maximum length = 16"  
(Standard length is heated length + 3")  
Thickness = 5" plus air fittings, ducts or blowers  
(including protective face screen)



### **Optional Features**

- Stainless steel case
- Aluminized steel case
- Built in type "K" thermocouple
- Long lead wires
- Special conduit fittings
- Flexible metallic conduit
- Air input fans, blower, or ducts
- Special mounting devices or locations
- Multiple zones