

Tel: 828.684.3766

Fax: 828.684.3768



**F A R N A M**  
**CUSTOM PRODUCTS**

Custom Air Heaters

a higher degree of performance

## Custom Air Heaters



**We develop and manufacture innovative custom heater solutions for clients who want to improve their product's performance, reliability and cost.**

Farnam specializes in Air Heaters and has the greatest range of electric air heating platforms and designs. Every air heater is designed to maximize convection efficiency. From 50 watts to 100,000 watts we provide the greatest range of solutions all tailored for maximum benefit for each specific application.

By learning about your application we can develop heaters which will be optimal for it. Our cost effective custom heater solutions are tailored to deliver maximum advantages for each specific application.

**Our custom products help create a competitive advantage for our clients. The following examples of custom air heaters suggest the wide range of solutions.**



1. Miniature heat torch mounted on circuit board. Had to fit 1" space and focus hot air precisely to help blow mold pouches on blood analyzer. Has to heat ambient to 390F in 3.5 seconds. Thermocouple is built in.



2. Food service cooker. Heater designed to fit narrow slot for maximum heat transfer and minimal product size. Circuits are canted to turbulate the air for maximum efficiency. Cuts cooking time by 40% and browns product too. Passes 2500 volt hi-pot at 1000F.







3. Small 1/8" diameter heater for assembly into 0 clearance probe in a scientific instrument. Precision heating of gas stream is critical. A custom RTD has been designed into this small package. Heater integrates air tight seal inside probe.



4. 15kw Convection heater for Food Service ReThermalization Cart. Designed for ruggedness and to bring 60 lbs. of frozen meals to 140F in 20 minutes.



5. Circuit board mounted heater for product where there was 'no space' for a heater and the discharge temps had to be thoroughly mixed and even. Heater designed to fit in the scroll of the blower in an aerodynamic low profile so that the performance of the blower is not affected.



6. Very efficient, low mass heaters for tubes and round ducts. These can be offered in a large range of sizes. Fast heat response, low pressure drop.



7. Low mass, highly efficient, and 3 phase heaters supplied in tubes with over temp protectors.



8. Custom Duct heaters. These are rugged, low mass & very low pressure drop heaters. Since the circuits are supported and exposed directly to the air flow they are very efficient and long lasting products.



9 Heater with integrated Venturi plate completes the blower and mounts easily to the blower housing. Client needed well mixed warm air but had a temperature sensitive material near the exhaust. So, we designed the heater to almost nest into the impeller for max. efficiency and mixture. Heater overtemp device is configured to stop blower motor.