



## Accuheat® Quartz In-Line Gas Heaters

Accuheat® G-Series gas heaters are robust, efficient, and pure. Quartz is the only material to contact gasses being heated, which prevent particle adders and contaminates. Their reliable, robust design consists of each quartz tube along with over-temperature sensors. The heaters are available in various sizes, wattages, and in single-tube or double-tube configurations. Single or double-tube configurations allow for a wide range of temperatures and flows. Double-tube configurations allow for high flows, almost a doubling of a single-tube configuration. Flexible controls are also available to monitor and adjust the heater element temperature for low flow, intermittent applications. Power Modulators are available separately to protect heaters against low-no flow conditions.

### Features & Benefits

- All quartz gas flow path, metal-free path
- Double-tube construction for efficient heat transfer
- FM-4910 compliant PVDF housing
- RTD provided for monitoring internal gas temperature
- Over-temperature thermocouple attached to heater element provided for redundant protection
- Over-temperature snap switch acts as backup safety

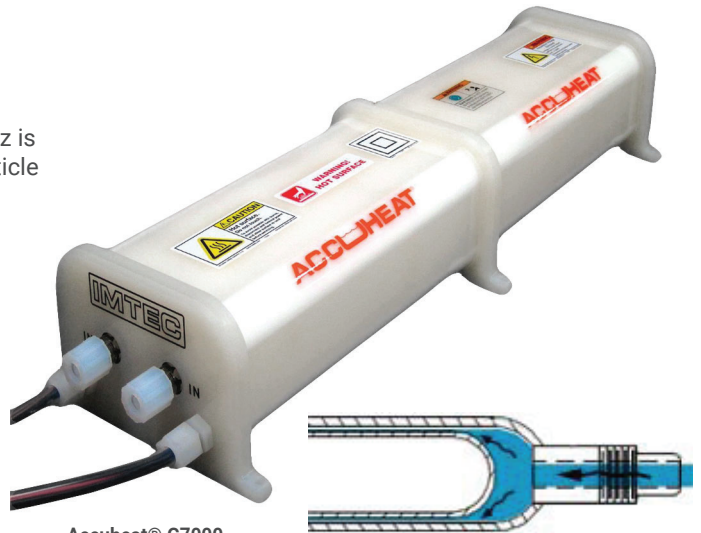
### Compatible Gases

Accuheat® heaters are compatible with many gases.

- Ammonia (NH3)
- Helium (He)
- Argon (Ar)
- Hydrogen (H2)
- Arsine (AsH3)
- Hydrogen Bromide (HBr)
- Boron Trichloride (BCl3)
- Hydrogen Chloride (HCl)
- Carbon Dioxide (CO2)
- Nitrogen Heater (N2)
- Carbon Monoxide (CO)
- Chlorine (Cl2)
- Nitrous Oxide (N2O)
- Oxygen (O2)
- Disilane (Si2H6)
- Sulfur Dioxide (SO2)
- Methylsilane (SiH3CH3)
- And more...



Accuheat® G3500  
Single-Tube Heater



Accuheat® G7000  
Dual-Tube Heater

Accuheat® tube-in-tube quartz path

### Tube-in-Tube Quartz Gas Flow Path

The unique tube-in-tube quartz design offers efficient heat transfer in an ultrapure, non-metallic, narrow flow path. The all-quartz flow path eliminates metals that could break down and shed particulates. Quartz offers more efficient heat transfer than other materials. The narrow flow path ensures close contact of the gas to heated surfaces, which dramatically improve efficiency compared to other designs.

### Specifications

|                                 |  |
|---------------------------------|--|
| <b>Heater</b>                   | Accuheat® Quartz In-line Gas Heater  |
| <b>Models</b>                   | G3500 & G7000  |
| <b>Wattages</b>                 | Single Tube - 3.0 KW @ 208V or 4.0 KW @ 240V<br>Double Tube - 6.0 KW @ 208V or 8.0 KW @ 240V<br><i>*Wattage dependent on voltage, 208 &amp; 240 VAC available.</i> |
| <b>Heater Element Max. Temp</b> | 300°C  |
| <b>Max. Gas Temp</b>            | Flow Dependent   |
| <b>Over-Temp Sensor</b>         | (1) J-Type T/C, (1) Thermostatic Snap Switch   |
| <b>Heater Temp Sensor</b>       | (2) J-Type Thermocouples   |
| <b>Connection</b>               | 1/2-in Flared Stem with Carbon Filled Nut  |
| <b>Power Cord</b>               | 10 Foot PFA Conduit  |
| <b>Dimensions (LxWxH, in.)</b>  | G3500 (31.0 x 6.5 x 5.0)<br>G7000 (31.0 x 9.0 x 5.0)   |

### Custom Designs Available

Does your equipment need a special size or wattage? Do you need special sensors or other features? Custom units can reduce integration and enhance performance. We specialize in OEM custom units and with our integrated manufacturing, we can create your custom unit with minimal added cost.

