# High-Temperature Circulation Heaters

New Product Preview CAST-X HT



Cast Aluminum Solutions serves semiconductor manufacturers with precision-engineered heated products, including platens, circulation heaters and custom-designed thermal transfer components.

CAS technicians and engineers work closely with customers. Some see our team as an extension of their engineering department. The CAS Team understands your processes, needs and challenges. We leverage this insight to develop innovative products that help you run more efficiently and produce higher-quality end products.

These are the dynamics behind the new "CAST-X HT" line of high temperature circulation heaters, capable of achieving temperatures up to  $1112^\circ$ F (600°C).

Using the proven CAST-X design as a baseline, the HT line features a bronze body with the elements and tube cast-in. Like all CAST-X heaters, the fluid or gas <u>never contacts the heating elements</u>, which reduces contamination and improves safety and reliability.



#### **FEATURES:**

- Indirect Heating (fluid/gas never contacts heating elements)
- Operating Temperatures to 1112°F (600°C)
- Moisture Resistant "Stand-Off" Enclosures
- · Optional Insulating Jackets
- Optional Thermocouple Sensors
- Self-Draining
- Available in 3 Sizes
- Variety of Volt / Watt Options
- Space-Saving Compact Footprint
- Non-Welded Design
- Compatible with High-Pressure Applications

#### **APPLICATIONS:**

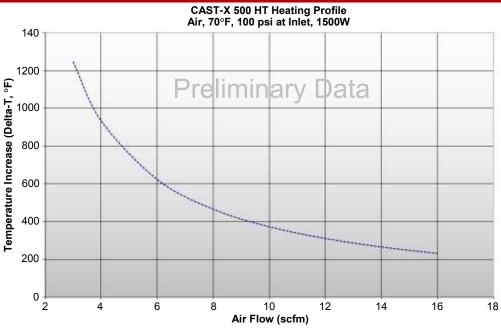
- Dry Etch & OLED Applications
- Multi-Stage Heating
- Steam Generation & Vaporization
- High-Temp Wet Bench Processes
- Nitrogen Heating

Please contact your CAS representative for more information about this exciting new addition to our product lineup.

## **High-Temperature Circulation Heaters**

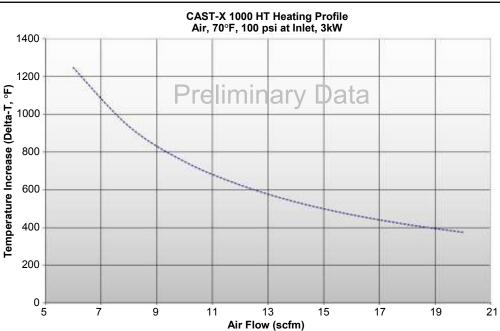
## **CAST-X 500 HT**





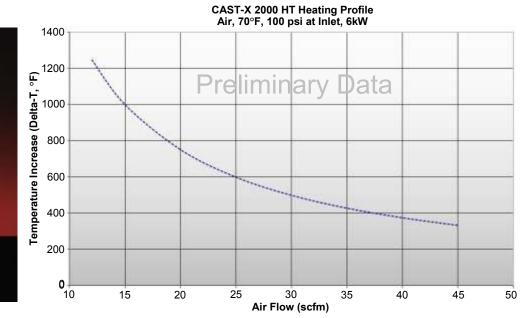
### **CAST-X 1000 HT**



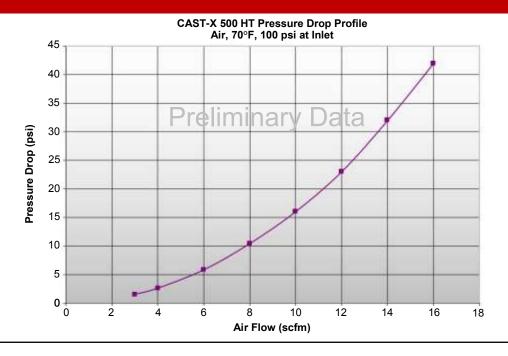


## **CAST-X 2000 HT**



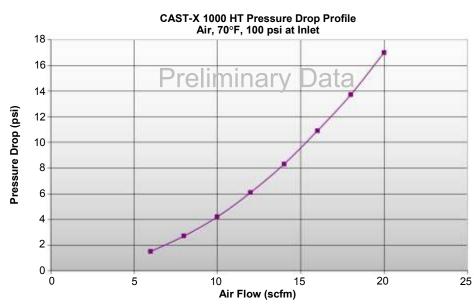


## for Critical Semiconductor Applications



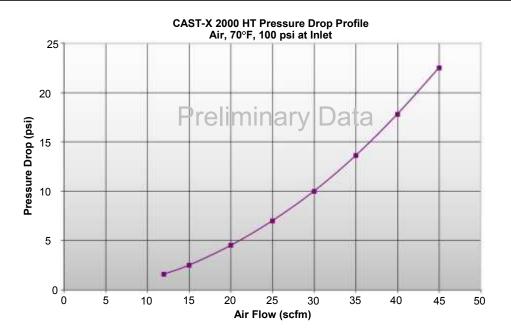


The CAST-X 500 HT delivers unprecedented heat for such a small unit. Although compact, it is practical for a number of applications.





CAST-X 1000 HT has a tall standoff for the housing, protecting electronic components and ensuring worry-free operation.





CAST-X 2000 HT is our largest high-temp model, suitable for higher-output applications. All models are available with insulating jackets.

## Thermal Solutions to Fit Your Exact Specifications

## **CAST-X 500 HT**

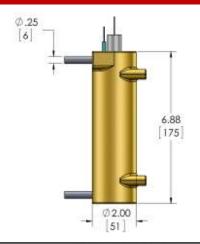
MAX PRESSURE: 1400 psi [96 bar]

at 1000°F [537°C]

FLOWPATH TUBE: 1/4" [6.35 mm] OD 0.028" [0.710 mm] wall

#### **HEATER TERMINATIONS AVAILABLE:**

- Stainless Steel Hose
- Stainless Steel Braid





### **CAST-X 1000 HT**

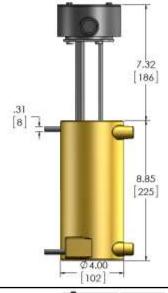
MAX PRESSURE: 1100 psi [75 bar]

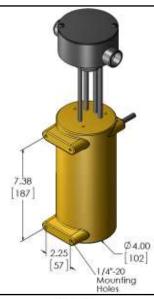
at 1000°F [537°C]

FLOWPATH TUBE: 5/16" [7.94 mm] OD 0.028" [0.710 mm] wall

#### **ENCLOSURES AVAILABLE:**

- Moisture-Resistant Enclosure
- Dust-Proof Enclosure





### **CAST-X 2000 HT**

MAX PRESSURE: 1785 psi [123 bar]

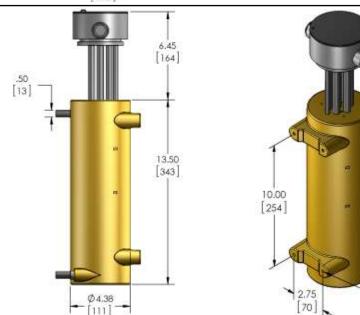
at 1000°F [537°C]

FLOWPATH TUBE: 1/2" [12.7 mm] OD 0.065" [1.650 mm] wall

#### **ENCLOSURES AVAILABLE:**

- Moisture-Resistant Enclosure
- Dust-Proof Enclosure

Primary Measurements in Inches Metric in [Brackets]



Cast Aluminum Solutions utilizes state-of-the-industry engineering & manufacturing processes to deliver thermal solutions that are well-designed, thoroughly-tested and delivered to your precise specifications. We work closely with our customers to devise practical solutions to complex issues. Speak to a CAS representative to discuss how we can assist with achieving your goals for better processing results and higher-quality end products.



#### **Cast Aluminum Solutions**

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1/4" - 20 Mounting

Holes

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