



HORIZONTAL TUBE FURNACES

SPECIFICATIONS SHEET



CERTIFIED:
ISO 9001:2015



**NUCLEAR QUALITY
ASSURANCE**
ASME NQA-1:2008

PRODUCT OVERVIEW

- Standard process lengths up to 36" / 91cm for tubes up to 4" / 10cm O.D. If your process requires a larger tube, we can help.
- Sustained operating temperatures up to 1800 degrees Celsius.
- Single and multi zone designs.
- Our benchtop scale horizontal tube furnaces have a compact design. They are light in weight and have a small footprint. A rectangular top plug allows easy access to the furnace interior. Tube support insulation in the furnace bottom helps prevent high temperature creep.
- Cool exteriors for operator safety. Convection cooling design eliminates the need for cooling fans.
- The highest quality insulation materials.
- The highest quality wire wound, silicon carbide, or molydisilicide elements depending upon the maximum desired furnace operating temperature.
- Furnace control systems are UL508A compliant as certified by Intertek. Our control systems are normally housed in a separate enclosure but can be integrated into a single unit with the furnace if desired.
- Furnaces that meet your process requirements, from standard models to custom designed systems.



PRODUCT FEATURES



01 Water cooled end caps.

Optional water cooled end caps create exceptional gas sealing and allow shorter tubes to be used. Shorter tubes have greater resistance to thermal shock.



02 Gas mixing and delivery systems.

Optional gas mixing and delivery systems include mass flow controllers, software driven digital control systems, optional fluid distribution headers.



03 Gas detection and exhaust systems.

Optional gas detection and exhaust systems with automatic furnace shutdown and audible alarms.

04 Fiber insulation.

Optional fiber insulation tube end plugs (not pictured).

Control Systems

Every Deltech control system is certified by Intertek to be UL508A compliant. Standard safety features include an emergency stop, door interlocks, safety relay, and isolation switches.

Nema One enclosures with a side hinged front door opening allows easy access to all components.

Eurotherm 3504 autotuning programmable temperature controller is our standard; other controllers are available upon request.

Optional, customized HMI systems (Human Machine Interface) allow remote access and control, data acquisition, and event logging.

Deltech Control Systems Include:

- Control Concepts power controllers.
- Maddox transformers.
- Olsun transformers.



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TECHNICAL DATA SPECIFICATION

Model	Tube O.D.	Hot Zone Length	Furnace Dimensions	Power Requirements	Weight
				For 1700° / 1800°	
DT-HTOS-6	Up to 3.25" 83mm	6in / 15cm	19" x 15" x 25" 48cm x 38cm x 64cm	3 kW / 7.5 kW	150 LB / 70 KG
DT-HTOS-12	Up to 3.25" 83mm	12in / 30cm	19" x 16" x 37" 48cm x 41cm x 94cm	10 kW / 15 kW	220 LB / 100 KG
DT-HTOS-18	Up to 3.25" 83mm	18in / 46cm	19" x 16" x 42" 48cm x 41cm x 107cm	12.5 kW / 15 kW	350 LB / 160 KG
DT-HTOS-24	Up to 3.25" 83mm	24 in / 61cm	19" x 16" x 49" 48cm x 41cm x 125cm	15 kW / 15 kW	385 LB / 175 KG
DT-HTOS-30	Up to 3.25" 83mm	30 in / 76cm	19" x 16" x 55" 48cm x 41cm x 140cm	20 kW / 20 kW	436 LB / 198 KG
DT-HTOS-36	Up to 3.25" 83mm	36 in / 91cm	19" x 16" x 61" 48cm x 41cm x 155cm	22.5 kW / 22.5 kW	478 LB / 220 KG



We are renowned for our custom work.

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CONTACT US!

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