



VERTICAL TUBE FURNACES

SPECIFICATIONS SHEET



CERTIFIED:
ISO 9001:2015



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

PRODUCT OVERVIEW

- Single and multi-zone designs. Each zone is individually temperature controlled.
- Sustained operating temperatures up to 1800 degrees Celsius.
- Specify tube size up to 4" / 10 cm O.D. and hot zone length up to 36" / 91 cm.
- Mullite tubes are thermal shock resistant, and can be used at operating temperatures up to 1600 degrees Celsius. Above that, 99.8% alumina tubes are required to prevent creep.
- Bottom loading vertical tube design (VTOSD) for applications in which a load platform is required, such as when the material to be heated in inert gas needs to be placed in a small crucible. Your choice of electric or pneumatic lift.
- Custom configurations for use with creep rigs and other materials testing devices.



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

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.

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.

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

Deltech Control Systems Include:

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

TECHNICAL DATA SPECIFICATION

Model	Tube O.D.	Hot Zone Length	Furnace Dimensions	Power Requirements	Weight
For 1700° / 1800°					
DT-VT-6	Up to 3.25" 83mm	6in / 15cm	19" x 17" x 35" 48cm x 43cm x 89cm	3 kW / 7.5 kW	110 LB / 50 KG
DT-VT-12	Up to 3.25" 83mm	12in / 30cm	19" x 17" x 41" 48cm x 43cm x 104cm	10 kW / 15 kW	155 LB / 70 KG
DT-VT-18	Up to 3.25" 83mm	18in / 46cm	19" x 17" x 47" 48cm x 43cm x 120cm	12.5 kW / 15 kW	200 LB / 91 KG
DT-VT-24	Up to 3.25" 83mm	24in / 61cm	19" x 17" x 53.5" 48cm x 43cm x 136cm	15 kW / 15 kW	250 LB / 114 KG
DT-VT-30	Up to 3.25" 83mm	30in / 76cm	19" x 17" x 59.5" 48cm x 43cm x 151cm	20 kW / 20 kW	300 LB / 136 KG
DT-VT-36	Up to 3.25" 83mm	36in / 91cm	19" x 17" x 65.5" 48cm x 43cm x 167cm	22.5 kW / 22.5 kW	350 LB / 159 KG

Bottom Loading Vertical Tube (VTOSD)

Model	Tube O.D.	Hot Zone Length	Furnace Dimensions	Power Requirements	Weight
For 1700° / 1800°					
DT-VTOSD-6	Up to 3.25" 83mm	6in / 15cm	26" x 21" x 51" 66cm x 53cm x 130cm	3 kW / 7.5 kW	220 LB / 100 KG
DT-VTOSD-12	Up to 3.25" 83mm	12in / 30cm	26" x 21" x 57" 66cm x 53cm x 145cm	10 kW / 15 kW	225 LB / 116 KG
DT-VTOSD-18	Up to 3.25" 83mm	18in / 46cm	26" x 21" x 63" 66cm x 53cm x 160cm	12.5 kW / 15 kW	300 LB / 136 KG
DT-VTOSD-24	Up to 3.25" 83mm	24in / 61cm	26" x 21" x 69" 66cm x 53cm x 175cm	15 kW / 15 kW	350 LB / 159 KG
DTVTOSD-30	Up to 3.25" 83mm	30in / 76cm	26" x 21" x 75" 66cm x 53cm x 191cm	20 kW / 20 kW	400 LB / 182 KG
DTVTOSD-36	Up to 3.25" 83mm	36in / 91cm	26" x 21" x 81" 66cm x 53cm x 206cm	22.5 kW / 22.5 kW	600 LB / 273 KG

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