

TOP HAT FURNACES

SPECIFICATIONS SHEET



CERTIFIED:
ISO 9001:2015



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

PRODUCT OVERVIEW

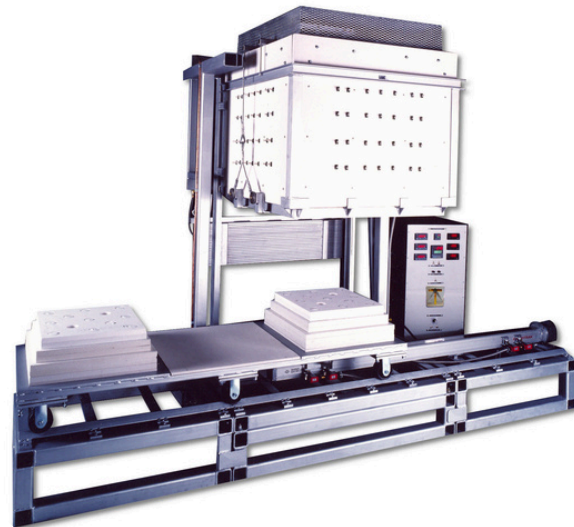
- Deltech top hat furnaces offer superior temperature uniformity by design. The heating elements are evenly spaced on all four sides.
- Furnace linings of the very best quality board and blanket are used to allow rapid heating and cooling.
- In production size top hats, our unique pin-and-washer anchoring system maintains structural integrity through high fires and rapid cycling.
- Your choice of pneumatic (100 psi facility air required) or electric actuation systems. The pneumatic system features variable travel speed; the electric has a fixed rate of approximately 88cm per minute.
- Atmosphere envelope furnaces for processing in inert gases and up to 5% hydrogen mixtures.
- Sturdy fiberboard exterior panels are offset from the furnace shell to facilitate convection cooling, keeping the furnace skin temperatures at safe levels without the use of cooling fans.
- Forced air and vent flap options to facilitate binder burnout and speed cooling rates as needed. Special “vortex” air flow designs.
- Multi-car systems with programmable operation.
- 1500, 1600, 1700, and 1800 degrees Celsius models offer sustained operation at the maximum rated temperature.
- Deltech designs and manufactures furnaces that meet your process requirements, from modified standard models to custom systems.



TOP HAT FURNACES

TECHNICAL DATA SPECIFICATION

Model	Workspace Size	Furnace Dimensions	Power Requirements	Weight
For 1700° / 1800°				
DT-TH-6	6" cubed 152mm cubed	35" x 25" x 42" 89cm x 64cm x 107cm	3 kW / 3 kW	170 LB / 77 KG
DT-TH-8	8" cubed 203mm cubed	36.5" x 25.5" x 44" 93cm x 65cm x 112cm	6 kW / 7.5kW	270 LB / 123 KG
DT-TH-10	10" cubed 254mm cubed	38.5" x 27.5" x 49" 98cm x 70cm x 124cm	6 kW / 10 kW	710 LB / 323 KG
DT-TH-12	12" cubed 305mm cubed	42.5" x 37" x 51" 108cm x 94cm x 130cm	15 kW / 15 kW	850 LB / 386 KG
DT-TH-14	14" cubed 356mm cub	45.5" x 39" x 53" 116cm x 99cm x 135cm	15 kW / 15 kW	1095 LB / 498 KG
DT-TH-16	16" cubed 406mm cubed	48.5" x 41" x 55" 123cm x 104cm x 140cm	20 kW / 20 kW	1350 LB / 614 KG
DT-TH-20	20" cubed 508mm cubed	69" x 71.5" x 100.5" 175cm x 182cm x 255cm	36 kW / 36 kW	2600 LB / 1182 KG
DT-TH-24	24" cubed 610mm cubed	74" x 76" x 109" 188cm x 193cm x 277cm	50 kW / 50 kW	3250 LB / 1477 KG
DT-TH-36	36" cubed 914mm cubed	85" x 84" x 121" 216cm x 213cm x 307cm	75 kW / 90 kW	4260 LB / 1936 KG
DT-TH-48	48" cubed 1219mm cubed	90" x 94" x 162" 229cm x 239cm x 411cm	115 kW / 140 kW	5500 LB / 2500 KG



ATMOSPHERE ENVELOPE (AE)*

Model	Workspace Size	Furnace Dimensions	Power Requirements	Weight
For 1700° / 1800°				
DT-TH-AE-6	6" cubed 152mm cubed	34.5" x 20.5" x 38.5" 88cm x 52cm x 98cm	3 kW / 3 kW	170 LB / 77 KG
DT-TH-AE-8	8" cubed 203mm cubed	36.5" x 22.5" x 40.5" 93cm x 57cm x 103cm	6 kW / 7.5kW	270 LB / 123 KG
DT-TH-AE-10	10" cubed 254mm cubed	38.5" x 27.5" x 49" 98cm x 70cm x 124cm	6 kW / 10 kW	710 LB / 323 KG
DT-TH-AE-12	12" cubed 305mm cubed	45" x 38" x 54.5" 114cm x 97cm x 138cm	15 kW / 15 kW	850 LB / 386 KG
DT-TH-AE-14	14" cubed 356mm cub	47" x 40" x 70" 119cm x 102cm x 178cm	15 kW / 15 kW	1095 LB / 498 KG
DT-TH-AE-16	16" cubed 406mm cubed	49" x 42" x 72" 124cm x 107cm x 183cm	20 kW / 20 kW	1350 LB / 614 KG
DT-TH-AE-20	20" cubed 508mm cubed	65.5" x 66.5" x 86.5" 166cm x 169cm x 220cm	36 kW / 36 kW	2600 LB / 1182 KG
DT-TH-AE-24	24" cubed 610mm cubed	69" x 70.5" x 90.5" 175cm x 179cm x 230cm	50 kW / 50 kW	3250 LB / 1477 KG
DT-TH-AE-36	36" cubed 914mm cubed	81" x 82.5" x 102.5" 206cm x 210cm x 260cm	75 kW / 90 kW	4260 LB / 1936 KG
DT-TH-AE-48	48" cubed 1219mm cubed	108" x 161" x 165" 274cm x 409cm x 419cm	115 kW / 140 kW	5500 LB / 2500 KG

* Maximum operating temp in inert gases is 100°C lower than rated furnace temperature due to element limitations.



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.



We are renowned for our custom work.

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