



GLASS MELT FURNACES
SPECIFICATIONS SHEET



CERTIFIED:
ISO 9001:2015



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

PRODUCT OVERVIEW

- Resistance heated with the choice of element dependent upon the maximum operating temperature.
- Bottom loading with pneumatic (100 psi required) variable speed lifts; electric (fixed travel speed) actuators are also available. Bottom load is optimal for rapid quenching.
- Other furnace models – for example top hat and front loading – can be modified for use as glass melt furnaces.
- Every Deltech glass melt furnace features a ceramic lining which is highly resistant to glass attack.
- Split plug and top cylinder allows ready access through the furnace roof for glass stirring apparatus.
- Atmosphere Envelope models for operation in inert atmospheres. Optional vacuum assisted evacuation and backfill. Optional gas mixing and delivery systems.
- Optional element protection liners shield heating elements when the glass fumes produced are especially destructive to molydisilicide. Halogen containing glasses are examples.
- Sustained operating temperatures up to 1800 degrees Celsius.
- Optional programmable stirring mechanism controls the motor power to maintain rpm through changes in viscosity.
- Optional robotic functionality for applications such as automated melt pours.
- Optional sight ports.
- Optional drain plugs in load platforms to allow glass to flow directly from the crucible into a form for cooling.
- Optional kiln cars to manually or automatically remove one form and replace it with another.



GLASS MELT FURNACES

TECHNICAL DATA SPECIFICATION

Model	Workspace Size	Furnace Dimensions	Power Requirements	Weight
For 1700° / 1800°				
DT-RS-OS	5" (127mm) diameter 6" (152mm) high	29.5" x 21" x 40" 75cm x 53cm x 102cm	3 kW / 7.5 kW	254 LB / 115 KG
DT-RS-78	7" (178 mm) diameter 8" (203mm) high	33" x 24" x 50" 84cm x 61cm x 127cm	10 kW / 10kW	310 LB / 141 KG
DT-RS-12	11" (279mm) diameter 12" (305mm) high	37" x 28" x 51.5" 94cm x 71cm x 131cm	12.5 kW / 15 kW	670LB / 304 KG
DT-RS-14	11" (279mm) diameter 14" (356mm) high	48" x 34" x 58" 122cm x 86cm x 147cm	15 kW / 25 kW	720 LB / 232 KG
DT-RS-1816	18" (457mm) diameter 16" (406mm) high	49" x 37" x 74" 124cm x 94cm x 188cm	25 kW / 36 kW	1520 LB / 690 KG
DT-RS-1824	18" (457mm) diameter 24" (610mm) high	49" x 37" x 86" 124cm x 94cm x 218cm	25 kW / 36 kW	1820 LB / 826 KG

ATMOSPHERE ENVELOPE (AE)*

Model	Workspace Size	Furnace Dimensions	Power Requirements	Weight
For 1700° / 1800°				
DT-RS-AE-OS	5" (127mm) diameter 6" (152mm) high	24" x 17" x 49" 61cm x 43.18cm x 124cm	3 kW / 7.5 kW	260 LB / 118 KG
DT-RS-AE-78	7" (178 mm) diameter 8" (203mm) high	24.5" x 19.5" x 52" 62cm x 50cm x 132cm	10 kW / 10kW	320 LB / 145 KG
DT-RS-AE-12	11" (279mm) diameter 12" (305mm) high	41" x 28" x 66.5" 104cm x 71cm x 169cm	12.5 kW / 15 kW	760 LB / 345 KG
DT-RS-AE-14	11" (279mm) diameter 14" (356mm) high	38" x 30" x 65.5" 97 cm x 76cm x 166cm	15 kW / 25 kW	915 LB / 415 KG
DT-RS-AE-1816	18" (457mm) diameter 16" (406mm) high	60" x 38" x 83" 152cm x 97cm x 211cm	25 kW / 36 kW	1670 LB / 758 KG
DT-RS-AE-1824	18" (457mm) diameter 24" (610mm) high	60" x 40" x 95" 152cm x 102cm x 241cm	25 kW / 36 kW	2000 LB / 907 KG

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



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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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