



# Bottom Loading

1500 °C – 1800 °C

## Deltech Furnaces

ISO 9001:2015 certified



- Octagonal, cubic, and square bottom loading workspaces.
- Pneumatic (100 psi required) or electric (including screw jack) lift systems. Pneumatic systems are variable speed; electric feature fixed travel rates.
- Silicon carbide or molydisilicide heating elements, depending upon maximum operating temperatures.
- Our unique impact-resistant fiberboard exterior design facilitates convection cooling (no fans required) while keeping the outer surfaces cool to the touch for operator safety.
- The highest quality fiberboard, blanket, and ceramic insulation materials.
- Optional programmable door operation
- Optional forced air and roof vents to facilitate binder burnout, faster cooling, or increased airflow as needed to meet process requirements.
- *Atmosphere envelopes* for applications requiring inert atmospheres. Optional vacuum assisted evacuation and backfill. Optional gas mixing and delivery systems
- Removable atmosphere modification kits allow inexpensive operation in inert gases as needed.
- Furnace control systems are UL508A compliant as certified by Intertek.

Square Bottom Loading

<b>Model</b>	<b>Workspace Size</b>	<b>Furnace Dimensions</b>	<b>Power Requirements</b>	<b>Weight</b>
			<b>For 1700° / 1800°</b>	
DT-SBL-6	6" cubed 152 mm cubed	27" x 18.5" x 47" 69cm x 47cm x 119cm	6 kW / 10kW	225 LB / 102 KG
DT-SBL-8	8" cubed 203mm cubed	29" x 20.5" x 49" 74cm" x 52cm x 125cm	6 kW / 10kW	275 LB / 125 KG
DT-SBL-12	12 " cubed 305mm cubed	33" x 24.5" x 51.5" 84cm x 62cm x 131cm	15 kW / 15 kW	385 LB / 175 KG
DT-SBL-16	16" cubed 406mm cubed	42.5" x 32.5" x 68.5" 108cm x 83cm x 174cm	20 kW / 36 kW	510 LB / 232 KG
DT-SBL-18	18" cubed 406mm cubed	98.5" x 58" x 91" 250cm x 147cm x 231cm	36 kW / 36 kW	580 LB / 264 KG
DT-SBL-24	24" cubed 610mm cubed	113.5" x 64" x104" 288cm x 163cm x 264cm	50 kW / 50 kW	770 LB / 350 KG
DT-SBL-36	36" cubed 914mm cubed	125.5" x 76" x 128" 319cm x 246cm x 325cm	90 kW / 90 kW	1160 LB / 527 KG

Square BL Atmosphere Envelope (AE)\*

<b>Model</b>	<b>Workspace Size</b>	<b>Furnace Dimensions</b>	<b>Power Requirements</b>	<b>Weight</b>
			<b>For 1700° / 1800°</b>	
DT-SBL-AE-6	6" cubed 152 mm cubed	27" x 19" x 47" 69cm x 48cm x 119cm	6 kW / 10kW	225 LB / 102 KG
DT-SBL-AE-8	8" cubed 203mm cubed	29" x 24" x 50.5" 74cm" x 61cm x 128cm	6 kW / 10kW	275 LB / 125 KG
DT-SBL-AE-12	12 " cubed 305mm cubed	33" x 28" x 56.5" 84cm x 71cm x 144cm	15 kW / 15 kW	385 LB / 175 KG
DT-SBL-AE-16	16" cubed 406mm cubed	38" x 32" x 68.5" 97cm x 81cm x 174cm	20 kW / 36 kW	510 LB / 232 KG
DT-SBL-AE-18	18" cubed 406mm cubed	106" x 65" x 89" 269cm x 165cm x 226cm	36 kW / 36 kW	580 LB / 264 KG
DT-SBL-AE-24	24" cubed 610mm cubed	115.5" x 71" x101" 293cm x 180cm x 257cm	50 kW / 50 kW	770 LB / 350 KG
DT-SBL-AE-36	36" cubed 914mm cubed	128" x 82.5" x 125" 325cm x 210cm x 318cm	90 kW / 90 kW	1160 LB / 527 KG

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

## Octagonal Bottom Loading

Model	Workspace Size	Furnace Dimensions	Power Requirements	Weight
			For 1700° / 1800°	
DT-BL-56	5" (127mm) diameter 6" (152mm) high	26" x 17" x 38" 66cm x 43cm x 97cm	3 kW / 7.5 kW	150 LB / 70 KG
DT-BL-86	8" (203mm) diameter 6" (152mm) high	29.5" x 19" x 37" 75cm x 48cm x 94cm	6 kW / 7.5 kW	275 LB / 125 KG
DT-BL-812	8" (203mm) diameter 12" (305mm) high	32" x 20" x 50.5" 81cm x 51cm x 128cm	10 kW / 10 kW	300 LB / 136 KG
DT-BL-96	9" (229mm) diameter 6" (152mm) high	30.5" x 20" x 37" 77cm x 51cm x 94cm	7.5 kW / 10 kW	300 LB / 136 KG
DT-BL-912	9" (229mm) diameter 12" (305mm) high	30" x 20" x 43" 76cm x 51cm x 109cm	10 kW / 12 kW	320 LB / 145 KG
DT-BL-1112	11" (279mm) diameter 12" (305mm) high	32" x 23" x 50.5" 81cm x 58cm x 128cm	10 kW / 12 kW	360 LB / 164 KG



Not looking for something standard? We are renowned for our custom work. Just ask!

# 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.
- Olsun transformers.