

ACCURATE THERMAL SYSTEMS FLUIDIZED TEMPERATURE BATHS

APPLICATIONS

Nitinol stent shape setting

General heat treatment of devices & materials

Temperature sensor and system calibration

Heating of reactors

Thermal analysis of circuits & components

BENEFITS

Large working volume – 7.3” diameter by 15” and 25” depth

4000 and 6000 watt heat capacity

Excellent stability and uniformity throughout operating range

Designed and manufactured in USA

CE marked

Accurate Thermal Systems

MODEL FTBSL15 & FTBSL25 FLUIDIZED TEMPERATURE BATHS



Model FTBSL15 with particulate collar

- Fully automatic Fluidizing air control
- Advanced 4 temperature zone PID controller
- Cover and lid design that controls and minimizes media loss
- Independent over-temperature limit protection
- Included RS485 computer interface with Windows PC control and scheduling software
- Optional interface for control from any PC on the corporate network

With over 25 years of experience with Fluidized Bath technology we have developed a range of products that offer outstanding performance, safety and value that are unmatched. Unlike competing Fluidized baths our systems have a smaller footprint, include advanced features and cost thousands of dollars less and are much safer than salt baths with thermal response that is 2 to 3 times faster than ovens. Our systems offer a versatile and open workspace while providing excellent temperature stability and uniformity.

Fluidized Temperature Baths have been the heat source of choice for over 20 years by many leading Fortune 500 medical device manufacturers and research companies who require fast heat up of their immersed devices and materials with minimal quenching.

**ACCURATE
THERMAL
SYSTEMS**
BETTER BY DEGREE

MODEL FTBSL 15 & FTBSL25

FEATURES AND SPECIFICATIONS

WHAT'S INCLUDED

- Fluidized Bath
- bath media
- Bath cover and Lid
- RS485 interface, cable and Windows PC software
- Instruction manual
- particulate extraction collar

WHAT DO I NEED TO RUN THE SYSTEM

- 240 VAC mains, 50/60hz - 20 amp supply (FTBSL15)
- 30 amp supply (FTBSL25) - Clean dry air supply at a fixed 50 PSI, max flow of 3.5 CFM

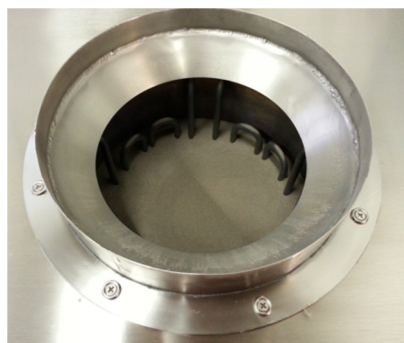
SERVICES AVAILABLE

- Technical support
- Application support
- Installation and setup
- Maintenance

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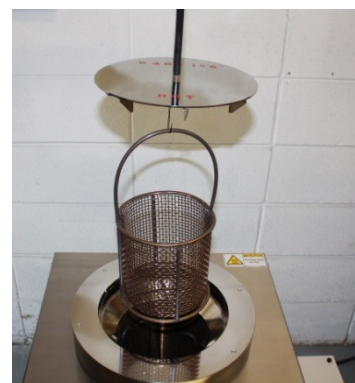


4104 Sylon Blvd
Hainesport, NJ 08036 USA
Ph: 609-326-3190
Fax: 609-479-5124
Email: sales@accuthermal.com
Website: www.accuthermal.com



Accurate Thermal Systems have developed an innovative cover and lid system that minimizes media loss out of the bath opening keeping the operating area cleaner and media loss to a minimum. Media is either blocked by the lid or collected on the cover flange which drops back into the system. The included particulate exhaust collar when used with an exhaust blower and cyclone will capture media when it rises out of the bath.

The lid that is placed onto the cover contains a handle that is elevated above the lid away from heat. The lid can be easily modified by customers to suspend devices, mandrels or apparatus for immersion of devices into the bath or can be used with the optional parts basket. Thermo-wells can also be added for calibration of a quantity of temperature sensors and systems.



Lid with optional parts basket

Specifications

Model	<u>FTBSL15</u>	<u>FTBSL15</u>	<u>FTBSL25</u>	<u>FTBSL25</u>
Temperature range	50 to 605°C			
Bath media	Brown Aluminum oxide	White Activated alumina	Brown Aluminum oxide	White Activated alumina
Working volume, inches	7.25 x 15	7.25 x 15	7.25 x 25	7.25 x 25
Typical stability at 500°C	±0.3	±0.15	±0.6	±0.4
Calibrated accuracy -	±3.0	±3.0	±3.0	±3.0
Radial uniformity at 500°C (depth, inches)	0.6° (10)	0.2° (10)	1.0° (15)	0.5° (15)
Axial uniformity at 500°C (over 9 inch range)	1.0°	0.8°	1.5°	1.2°
Heat up time to 500°C, 240V supply	135 minutes	65 minutes	180 minutes	100 minutes
Cool down time – 500 to 200°C	215 minutes	195 minutes	215 minutes	200 minutes
Power – 240 V, single phase, 50/60 hz.	4000 watts	4000 watts	6000 watts	6000 watts
Air pressure & flow required, max	50 PSI(3.4 bar), 3.5 CFM (100 lpm)			
Overall footprint, H x W x D - inches	27 x 24 x 21	27 x 24 x 21	41 x 24 x 21	41 x 24 x 21
Total weight with aluminum oxide	210 lbs	165 lbs	360 lbs	270 lbs
RS485 USB interface & PC software	Included			
Catalog number	ATS2019	ATS2022	ATS2021	ATS2023
<u>Optional Accessories</u>				
Recommended spare lid	ATS1040			
Parts basket – 6.5" diameter x 6.5" D	ATS1086			
Tiered basket – 1.5" deep x 6.7"W (Qty)	ATS1098 (2)	ATS1098 (2)	ATS1096 (4)	ATS1096 (4)
Parts catch basket	ATS1099	ATS1099	ATS1097	ATS1097