

FSB-200 Series

Industrial Fluidized Sand Baths



Safe, efficient, and cost-effective cleaning of tooling, components, and parts

After years of success, plastic manufacturers have come to depend on Cole-Parmer fluidized baths for safe, efficient and cost effective cleaning of tooling, components, systems, and parts (dies, breaker plates, nozzles, tools, tips, spinnerets, extruder screws, manifolds, etc.).

Our industrial fluidized baths will remove almost all polymers including plastic, paint, epoxy, rubber, and adhesives, as well as other hydrocarbon-based products such as oils, fluids, grease, lubricants, and coatings.

Parts immersed into the fluidized bath are cleaned by the high temperature (up to 600 °C) environment within a bath media of fluidized aluminum oxide that instantly starts to degrade plastic to carbon, which then leaves the bath as CO₂.

This instant heating and minimized quenching gives shorter cleaning times than with conventional ovens, and with the even and consistent heat of the bath, results in greatly reduced metal fatigue and tool damage.

The baths can be fluidized with either compressed house air or an inert gas such as nitrogen or argon. It should be noted that fluidized baths and the action created in the aluminum oxide is not abrasive to items immersed for normal cleaning or heat treatment times.

Typical cleaning times range from 30 minutes to 2 hours depending on bath loading, temperature and amount of material to be cleaned.

FEATURES

- Removes plastics, paints, epoxy, rubber, adhesives, grease, lubricants, and oils
- No tool damage or abrasion in cleaning
- Fast cleaning minimizes production equipment down-time
- Dry, inert, non-toxic aluminum oxide is a safer alternative than dangerous chemicals or solvents
- Requires one bag of 100 lb brown sand (item number 01184-61)
- Bath reservoir measures (depth x dia.): 40.5 x 25.5 cm (16 x 10 in.); when using sample basket: 30.5 x 21.3 cm (12.0 x 8.4 in.)
- 3 year warranty

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Cole-Parmer®
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*Enquiries from Germany and France are now handled in our St Neots office by native speaking experts.



Industrial fluidized bath FSB-200-I-5L



Industrial fluidized bath FSB-200-I-12L

Other Applications

The excellent thermal performance of Cole-Parmer industrial fluidized baths make them a good choice for basic heat treatment, test and calibration, as well as reactive analysis.

Some of these applications include tempering, annealing, nitriding, distillation, curing, exothermic and endothermic reactions, and thermal analysis of devices, components, and materials.

Specifications

Specifications	FSB-200-I-5L	FSB-200-I-12L
Temperature Range	50 °C to 600 °C	50 °C to 600 °C
Type of Controller	3 Term PID	4 Term PID
Sensor Type	Type K Thermocouple	Type K Thermocouple
Temperature Stability at 450 °C	±1 °C	±1 °C
Display Resolution	°C	°C
Working Volume Diameter	25.9 cm	25.9 cm
Working Volume Depth	30.5 cm	30.5 cm
Load Capacity	5 L	12 L
Air Pressure kPa (psi)	170 to 1030 (25 to 150)	170 to 1030 (25 to 150)
Air Consumption at Ambient (max)	115 L/min	115 L/min
Air Consumption at 450 °C (max)	48 L/min	48 L/min
Heat Up Time 20 °C to 450 °C	105 minutes	105 minutes
Heat Up Time 20 °C to 600 °C	150 minutes	150 minutes
Power Consumption	4 kW	6 kW
Dimensions (W x H x D)	52.1 x 68.6 x 52.1 cm (20.5 x 27.0 x 20.5 in.)	60.9 x 104.1 x 53.3 cm 24 x 41 x 21 in.)
Net Weight	60 kg	84 kg
Weight Including Alundum	100 kg	157 kg
Warranty	3 years	3 years

Ordering Information

Description	Series Number	Model Number	Legacy SKU	Item Number
Industrial fluidized bath, 5 L, 230 VAC, 50/60 Hz, excludes alumina, 25 kg	FSB-200	FSB-200-I-5L	FIFB51D	01184-10
Industrial fluidized bath, 12 L, 230 VAC, 50/60 Hz, excludes alumina, 25 kg	FSB-200	FSB-200-I-12L	FIFB52D	01184-20

Accessories

Description	Series Number	Model Number	Legacy SKU	Item Number
Lid for 5 L and 12 L Industrial Fluidized Baths	FSB-200	—	F6165	01184-52
Extraction collar for 5 L and 12 L Industrial Fluidized Baths	FSB-200	—	F6157	01184-54
Standard basket, 5 L	FSB-200	—	FA624	01184-64
Deep Basket, 5 L	FSB-200	—	FA625	01184-66
Standard Basket, 12 L	FSB-200	—	7031658	01184-70
Deep Basket, 12 L	FSB-200	—	7031659	01184-72
Cyclone and Collection Bin	FSB-200	—	FSCN1	01184-80
Brown Aluminum Oxide, 45 kg	FSB-200	—	BROWNALO	01184-61