

Cole-Parmer®

Cole-Parmer® Industrial Fluidized Baths - FSB-200-I-5L, FSB-200-I-12L

- 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, nontoxic aluminum oxide is a safer alternative than dangerous chemicals or solvents
- Requires one bag of 100 lb brown sand 01184-61
- Bath reservoir measures 16" deep x 10" dia (40.5 x 25.5 cm); when using sample basket: 12" deep x 8-3/8" dia (30.5 x 21.3 cm)



Industrial Fluidized Bath FSB-200-I-5L

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Industrial Fluidized Bath FSB-200-I-5L



Industrial Fluidized Bath FSB-200-I-12L

After years of success, plastic manufacturers have come to depend on Cole-Parmer® fluidised 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.

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.

Technical Specification

Specification	FSB-200-I-5L	FSB-200-I-12L
Temperature range	50°C to 600°C	50°C to 600°C
Type of Control	3 term PID	4 term PID
Sensor Type	K type thermocouple	K type thermocouple
Temperature Stability at 450° C	±1°C	±1°C
Display resolution	°C	°C
Working Volume Diameter (mm)	259	259
Working Volume Depth (mm)	305	305
Load Capacity (L)	5	12
Air pressure kPa (psi)	170 to 1030 (25 to 150)	170 to 1030 (25 to 150)
Air Consumption L/min at Ambient (max)	115	115
Air Consumption L/min at 450o C (max)	48	48
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 (kW)	4	6
Dimensions L x W x H (mm)	521 x 521 x 686	1041 x 609 x 533
Net Weight (kg)	60	84
Weight incl. alundum (kg)	100	157

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Cole-Parmer® Industrial Fluidized Bath 5 Litres, 230V 50/60Hz. Excludes alumina - 25kg	01184-10	FSB-200	FSB-200-I-5L	FIFB51D
Cole-Parmer® Industrial Fluidized Bath 12 Litres, 230V 50/60Hz. Excludes alumina - 25kg	01184-20	FSB-200	FSB-200-I-12L	FIFB52D

Accessories

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Cole-Parmer Essentials® Lid for 5L and 12L Industrial Fluidized Baths	01184-52	FSB-200	-	F6156
Cole-Parmer Essentials® Extraction Collar for 5L and 12L Industrial Fluidized Baths	01184-54	FSB-200	-	F6157
Cole-Parmer Essentials® Standard basket 5L	01184-64	FSB-200	-	FA624
Cole-Parmer Essentials® Deep basket 5L	01184-66	FSB-200	-	FA625
Cole-Parmer Essentials® Standard basket 12L	01184-70	FSB-200	-	7031658
Cole-Parmer Essentials® Deep basket 12L	01184-72	FSB-200	-	7031659
Cole-Parmer Essentials® Cyclone & Collection Bin	01184-80	FSB-200	-	FSCN1
Cole-Parmer Essentials® Brown Aluminum Oxide 45 Kg	01184-61	FSB-200	-	BROWNALO

Cole-Parmer®
essentials

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.