

Techne Industrial Fluidized burnoff baths

New Product improvements!

Techne Industrial Fluidized baths are the primary choice of Plastics Manufacturers for the efficient and safe cleaning of parts and tooling used in the plastics manufacturing process including extruder dies, injector nozzles, screws, screens, manifolds, breaker plates or any other part that can be removed for cleaning. Here are some of the benefits of our Fluidized bath cleaning systems:

Key benefits and features:

- Cleans tooling by temperature & time - typically **30 minutes** at 1000°F (typical temperature - contact the material manufacturer for the proper burnoff temperature - never exceed the auto ignition temperature)
- **prevents damage** to tooling as opposed to using scrapers and wire brushes.
- Fluidized bath action is **non-abrasive** to any tools or parts put into the bath including those highly polished.
- Much **more efficient** than ovens (all heat is lost when opening the door) or using a torch to burn off residue. Many ovens provide uneven heat across the part surface causing **metallurgy stress and damage**. No nasty chemicals like those required for Ultrasonic cleaning baths.
- **Far safer** than a blow torch - operator is not exposed to fumes or smoke from burning off plastic residue. Fumes and odors are exhausted away from the operator area. Eliminate manual cleaning **saves man hours**.
- Costs of the system are typically **recovered in less than a year**.
- These Fluidized baths are also excellent choices for general **heat treatment**, **reactive chemistry analysis** or any other process requiring a stable temperature and open work area.

Details, slide show and photos of cleaned parts

- [Send us one of your parts for a free sample cleaning.](#)
- [Before and after photos of cleaned parts](#)
- [Check out a slide show of the cleaning process](#)
- [Details on the cleaning process and maintenance](#)



Extruder parts before and after being cleaned in a Techne Industrial Fluidized bath

IFB Series Industrial Fluidized Baths



NEW FEATURE >> The IFB-51 and IFB-52 baths now incorporate an acrylic flow meter and fine adjustment valve for precisely setting, measuring and controlling the Fluidization air. This new feature greatly improves the stability to $\pm 1.0^{\circ}\text{C}$ and accuracy to ± 10.0 throughout the operating range. A label above the flow meter shows the factory suggested settings to use. See a close up image of the [new Flow meter](#).

The main differences between the IFB51 and IFB52 are the total heater power and size of the working area, both of which are given below. The IFB Series Fluidized baths are controlled via a three term (PID) digital controller offering a resolution of 1 degree. Temperature feedback is from a type K thermocouple. A solid state relay is used to pass power to the heaters during heat up and when maintaining the set temperature. Both units employ an independent over-temperature contactor to disable power to the heaters in the event of a controller or thermocouple failure.

IFB 51 Specifications

Temperature range	50-600°C
Overall size (HxWxD)	27 x 21 x 21
Internal size (diam. x depth*)	10.2 x 16
Working volume (diam. x depth)	10.2 x 12
Maximum work load (lb.)	30
Typical accuracy **	$\pm 10^{\circ}\text{C}$
Typical Stability **	$\pm 1.0^{\circ}\text{C}$
Air requirements, psi fixed at	30
Aluminum oxide required (lb.)	85
Aluminum oxide supplied (lb.)	100
Maximum work load (lb.)	30
Voltage supply	240
Power requirements	4KW
Phase	single
Shipping weight (lb.)	110
HZ	50/60
Warranty - 6 months parts & labor	

*From top of porous plate to the top of bath
 **2 hours after setpoint is reached, 8" immersion depth.

IFB 52 Specifications

Temperature range	50-600°C
Overall size (HxWxD)	41 x 24 x 21
Internal size (diam. x depth*)	10.2 x 30
Working volume (diam. x depth)	10.2 x 26
Maximum work load (lb.)	60
Typical accuracy **	$\pm 10^{\circ}\text{C}$
Typical Stability **	$\pm 1.0^{\circ}\text{C}$
Air requirements, psi fixed at	30
Aluminum oxide required (lb.)	160
Aluminum oxide supplied (lb.)	200
Maximum work load (lb.)	55
Voltage supply	240
Power requirements	6KW
Phase	single
Shipping weight (lb.)	153
HZ	50/60
Warranty - 6 months parts & labor	

*From top of porous plate to the top of bath
 **2 hours after setpoint is reached, 15" immersion depth.

IFB51 Ordering Information
See the system layout below

<u>Description</u>	<u>Catalog #</u>
IFB-51	3032700
Parts basket for use without collar 6036157	7031103
Deep parts basket for use with collar 6036157	7031102
Retort lid	6036156
Extraction fan - smoke & odor exhaust	7030772
Extraction collar - smoke & odor exhaust	6036157
CN-100 Cyclone (*formerly part No. 3031500)	7031154*
Aluminum Oxide 100lb	7030464
Download the Aluminum Oxide MSDS	

IFB 52 Ordering Information
See the system layout below

<u>Description</u>	<u>Catalog #</u>
IFB-52	3022900
Parts basket for use without collar 6036157	7031658
Deep parts basket for use with collar 6036157	7031659
Retort lid	6036156
Extraction fan - smoke & odor exhaust	7030772
Extraction collar - smoke & odor exhaust	6036157
CN-100 Cyclone (*formerly part No. 3031500)	7031154*
Aluminum Oxide 100lb	7030464
Download the Aluminum Oxide MSDS	

Full system layout with accessories

