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Model FB08 and FB08C setup and operation tips

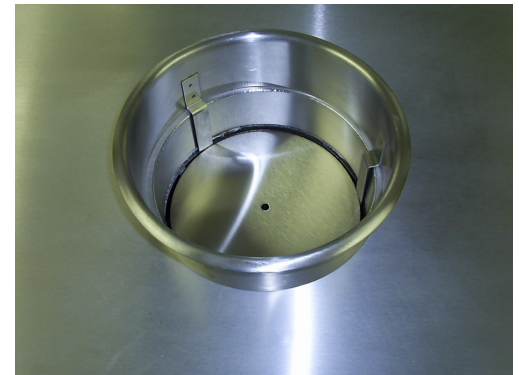
How high should we fill the alumina?

When fluidized the alumina level should be six inches from the top surface of the bath at your maximum operating temperature. As pictured to the right the alumina is at the correct level when you just see the tops of the heaters. Note that the alumina does exhibit expansion with heat so you will need to verify the level at your operating temperature.



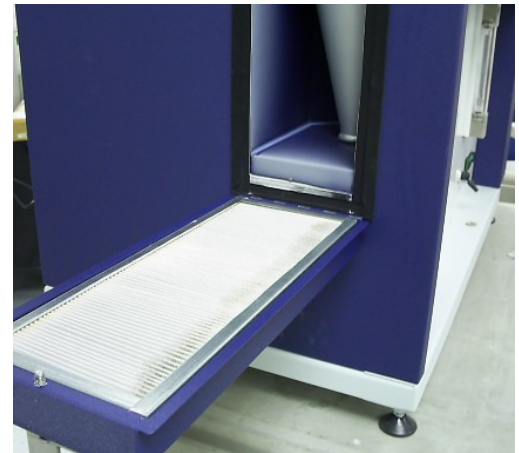
Should we put a cover on the bath to keep heat and alumina in?

With the extraction air on the bath should never be covered. A cover will create negative pressure inside the bath quickly pulling a lot of alumina out which will quickly fill up the jar, increase dusting and block the filter chamber. Always using the supplied collar and probe plate to obtain the best dust control and collection. The probe plate should be the basis for designing a holder for your devices or components to be immersed into the bath. A plate with a handle should be designed for use as a blank when the bath is not in use. A second handle could be used on the additional plate for lowering devices into the bath.



How often should the filter be changed?

We recommend that the filter and chamber be vacuumed out every 2 weeks with daily bath use. The filter should be replaced approximately every 6 months with daily bath use.





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Does the dust collection jar fill up quickly?

The jar may fill up in an 8 to 12 hour period if the bath is operated at the higher temperatures (>450°C). Always empty the jar when the alumina reaches the 'shoulder' of it. Be careful when handling the jar to prevent chipping on the top; if chipped it will leak alumina into the surrounding area and should be replaced.



Can we shut the air and power off to the FB08 when done?

On the standard FB08 power can be shut off at any time. However the air supply must remain on with the bath fluidized until the temperature is below 200°C or damage may occur. With the FB08C, both air and power must remain on until the bath temperature drops to below 200°C. It may take the bath a couple of hours to cool down to this level from the highest temperatures.

Will the FB08 bath operate on a 208VAC mains supply?

For effective heat up and performance we strongly recommend a mains voltage supply between 220 and 240VAC. A 208VAC supply will reduce the baths power capacity by 25%. For 208VAC we suggest our boost transformer part # 7032838. Contact us for details.

How do we set the Rotameter air flow rate on the standard FB08 when our inlet pressure is set at 60 PSI?

See the flow chart in the next page for recommended settings when using the standard FB08. Note that an over Fluidized bath can create more dusting in the general area and fill up the jar much quicker. Your air supply should delivery a minimum of 60 PSI at a maximum 4 CFM of flow.



Do you have a video available for the FB08?

Yes, click on this link to view our YOUTUBE video

<http://www.youtube.com/watch?v=l2FaaokueCQ>



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FB08 Suggested Flow rate table

Set fluidizing air flow via the front panel flow meter according to the following table. These values will give good performance and should be used as a starting point. Optimum flow rates can be obtained by performing a thermal analysis and profile at your operating temperature. You should use the lowest flow rate possible that gives acceptable results.

| Temp °C | Temp °F | Flow rate – liters/minute |
|---------|---------|------------------------------|
| 25 | 77 | 23.0 |
| 50 | 122 | 22.0 |
| 75 | 167 | 21.5 |
| 100 | 212 | 20.5 |
| 125 | 257 | 20.0 |
| 150 | 302 | 18.5 |
| 175 | 347 | 18.0 |
| 200 | 392 | 17.0 |
| 225 | 437 | 16.5 |
| 250 | 482 | 15.5 |
| 280 | 536 | 15 |
| 310 | 590 | 14 |
| 340 | 644 | 13.5 |
| 370 | 698 | 11.5 |
| 430 | 806 | 11.0 |
| 490 | 914 | 10.0 |
| 550 | 1022 | 9.5 |
| 610 | 1130 | 8.5 |
| 670 | 1238 | 8.0 |