

ACCUBATH® Xe

Extreme Duty Constant Temperature Baths
Designed for safe and reliable heating up to 300°C



In 1982, Imtec introduced the Accubath quartz heated tank and it quickly became the standard for quality and performance for Semiconductor manufactures worldwide.

Throughout it's history, Imtec has taken pride in listening to it's customers and responding with products to meet the stringent requirements of an evolving industry.

We were the first with a dedicated Nitride etch system to improve uniformity, performance, and reliability, and later introduced the Aquaseal®, the most important improvement ever made for increasing service life.

The 190°C limitation of the standard Accubath has been more than adequate for the semiconductor industry but with new processes being developed for emerging industries, there is a need for higher temperatures.

Once again, Imtec is responding with the new Xe series for extreme duty applications up to 300°C. We have used our knowledge from building tens of thousands of quartz heated baths and analyzing failure modes to understand and meet the challenges posed when running chemistries at extreme temperatures.

Through innovative thinking and careful design, the challenges have been met enabling our customers to make their own breakthroughs.

Sapphire etching and beyond

The Accubath Xe was designed with Sapphire etching in mind but we know there are other processes that will benefit from the increased chemical reactivity that higher temperatures provide. Processes that were previously thought to be too slow due to temperature limitations may now be practical.

Designed to take the heat

The liquid in the Accubath Xe tank comes in contact with nothing but high purity quartz. No teflon connections, sensors, or any other parts are used in the process area. Even the built in condensing coils and automated lid are quartz. For reliability, a special version of Imtec's patented Aquaseal was developed to prevent a failure of the critical seal material that isolates the heater components from the environment. Even the housing is special, utilizing Halar for it's superior temperature and chemical compatibility as well as special construction techniques to isolate the heat inside.

Auxiliary modules make it complete

No drain valve works at these temperatures so a quartz aspirator was designed and built in Imtec's quartz fabrication facility to remove the chemistry without having to wait for it to cool.

The aspirator drains the tank to a cool-down module below the tank. The cool down module has quartz cooling coils to assist in lowering the chemistry temperature quickly.

Also available is the quartz secondary containment module that can hold the entire contents of the tank in the case of a tank breach.

The modules working together create a system that addresses all the challenges of working with extreme temperature chemistries allowing you the freedom to experiment with processes previously not possible.

Once developed, you can be assured that The Accubath Xe series bath will allow a safe and reliable means of running your process in production.

Customized for the OEM

As with all of our products, Imtec is ready to work with OEM's to create custom high temp components that integrate easier, are more serviceable, and provide greater value to your customer.

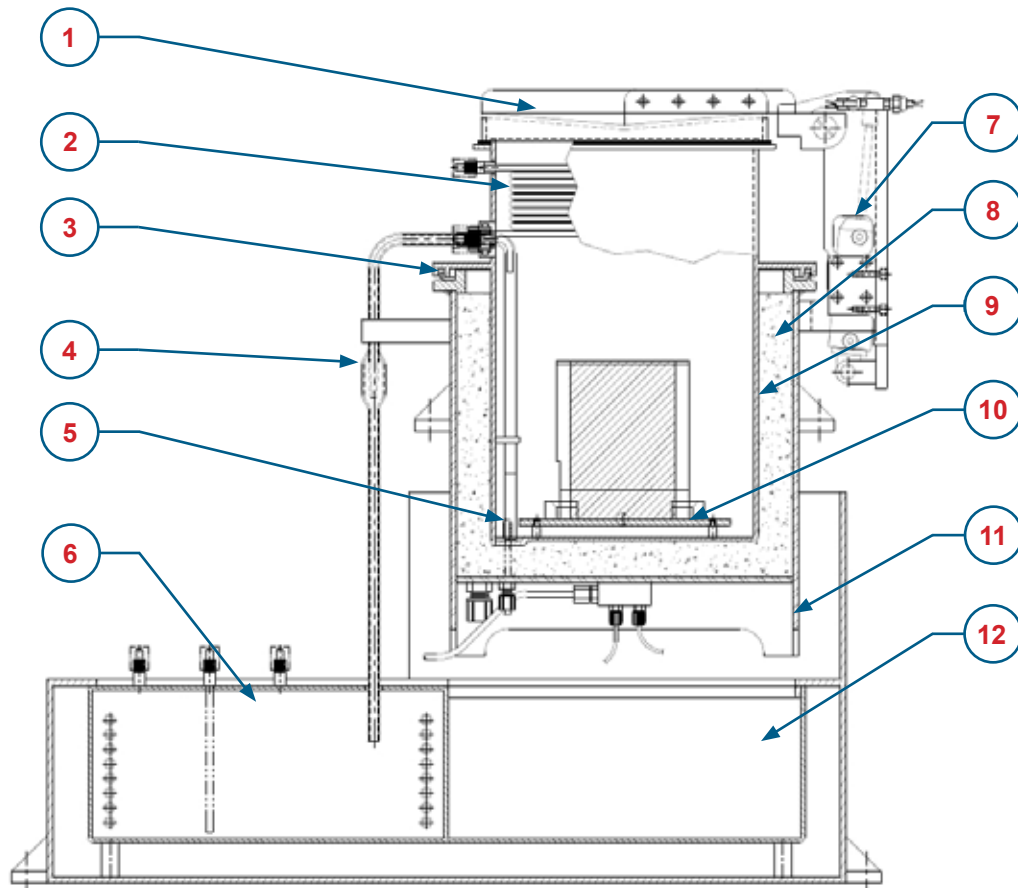
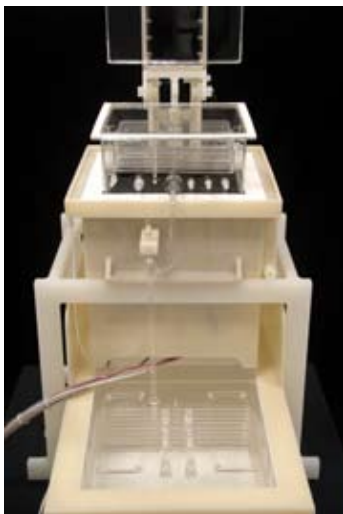
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ISO 9001
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Accubath Xe Features

1. Inverted Quartz Autolid keeps condensate inside the tank
2. Quartz cooling coils minimize the vapor cloud near the lid
3. Patented Aquaseal lowers flange temperature and protects critical quartz to plastic sealant
4. Quartz air operated aspirator effectively drains the process chamber even at max operating temperature
5. Quartz RTD wells protect the temp sensor and allow accurate temperature readings
6. Quartz cool down box contains drained hot chemistry until it is safe for house facilities
7. Hydraulically actuated cylinder for smooth control of lid operation
8. Super high-density Aluminum Silicate insulation keeps the heat in
9. Quartz inner chamber with heavy gauge inconel heating element
10. Quartz locator plate designed to hold your specified carrier
11. Halar housing for superior temperature and chemical compatibility
12. Quartz secondary containment tank holds hot liquid in case of tank breach