

Nano DeBEE

BEE INTERNATIONAL
NEXT GENERATION HOMOGENIZERS

EMULSIFYING
CELL RUPTURE
DISPERSING
GRINDING



Electric Bench-top Ultra High Pressure Homogenizer With Modular Homogenizing Cell

- Capable of the Highest Processing Intensity (45,000 psi; 3,100 bar)
- Homogenizing Cell with no moving parts; configured with ease for broad range of product requirements
- Size Reduction to Nanometers
- Handles Abrasive and Viscous Materials
- Cell Rupture with the Highest Yield
- Innovative Intensifier Pump offer Portability and Easy Cleanup



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We're experienced with every nuance of high energy product processing. Unlike any homogenizer before, the Nano DeBEE gives you the highest process intensity in the industry and our patented modular homogenizing cell. You now have independent control of pressure, flow, cavitation, impact, shear, *and* process duration. Now you can fit the machine to your application and get the results you want *fast*.



BEE INTERNATIONAL is dedicated to advancing the technology of homogenization. Our research and development is ongoing, and you can depend on our precision engineering, quality manufacturing and worldwide service for the highest reliability.

Contact us for FREE consultation and confidential, no obligation sample testing.

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Nano DeBEE

The highest processing energy in an electric bench-top unit for your new product development

This cost effective electric-hydraulic unit offers a reliable and consistent process that produces scaleable results for a wide variety of products and materials. Just plug it in and turn it on to achieve your homogenizing goals. The Nano DeBEE is ideally suited for a wide range of laboratory applications in the Pharmaceutical, Biotechnology, Cosmetic, Chemical and Food Industries. So advanced, it's actually simple!

- Patented DeBEE modular homogenizing cell with NO moving parts
- Homogenizing cell supplied with alternate components for a wide range of applications
- Six Nano DeBEE models available for process pressure up to 45,000 PSI (3,100 Bar) and flow capacities up to 150 ml/min
- Configured to 110V or 220V single phase power supply
- Easy cleaning and maintenance – can be autoclaved
- Proven scale-up to production flow rates
- Sample size as small as 20 ml
- Control all parameters affecting the process
- Quite operation, below 65 dBA
- Stainless steel enclosure
- Separate hydraulic power unit may be installed remotely at the user's convenience



Specifications:

- Adjustable Operating Pressure:
 - Nano DeBEE 30: 2,000 to **30,000 PSI** (140 to 2,070 Bar)
 - Nano DeBEE 45: 2,000 to **45,000 PSI** (140 to 3,100 Bar)
- Flow Rate Capacity Available:

Hyd. Power Unit	Flow Rate
1 HP	40 ml/min
2 HP	80 ml/min
3 HP	120 ml/min

- Adjustable back-pressure: 0 to 5,000 PSI (345 Bar)
- Dimensions: 31"W x 8"D x 9"H (79 x 20 x 23 cm)
- Weight: 45 lbs. (20 Kg.)

