

Micro DeBEE

BEE INTERNATIONAL
NEXT GENERATION HOMOGENIZERS

EMULSIFYING
CELL RUPTURE
DISPERSING
GRINDING



Ultra-High Pressure Homogenizer **Air-operated Benchtop**

- Cell rupture with the highest yield
- Particle size reduction
- Stable micro / nano emulsions & dispersions
- Guaranteed scalability

Unmatched Results in Fewer Passes



Micro DeBEE

The highest processing energy in a bench-top unit for your product formulations!

An innovation in process equipment, the air operated Micro DeBEE homogenizer combines a variety of mixing tools into one advanced instrument. With unique process setups you can select the intensity and force of mixing parameters:

- Cavitation
- Shear
- Impact
- Pressure
- Back-pressure
- Process duration

Proven to achieve industry leading results for **cell lysis, nano emulsions and dispersions, and particle size reduction:**

- High yield cell lysis
- Extend product stability
- Improve bioavailability
- Tighter particle size distribution



The Nano DeBEE is:

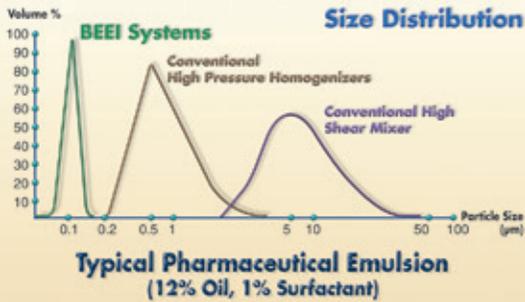
- Easy to use and clean
- 100% Scalable
- Air operated, in-line, continuous operation
- Low maintenance costs

	Pressure	Flow Rate			Required Air
		mL / min	L / hr	gal / hr	SCFM / PSI
Mini DeBEE 30	30,000 PSI	250	15	4	50 / 90
	2,000 bar				
Mini DeBEE 45	45,000 PSI	250	15	4	50 / 150
	3,100 bar				
Dimensions		84 x 36 x 46 cm H / 33" x 14" x 18" H			
Weight		36 kg / 80 lb			
Minimum Volume		12 mL with Small Volume option			



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We're experienced with every nuance of high energy product processing. Unlike any homogenizer before, the Micro 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.



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