

## Pion 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
- Pressure
- Shear
- Back Pressure
- Impact
- Process Duration

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

- Cell rupture with the highest yield
- Particle size reduction
- Stable micro/nano emulsions and dispersions
- Guaranteed scalability
- *Unmatched results in fewer passes*



# Pion Micro DeBEE

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 Micro DeBEE is:

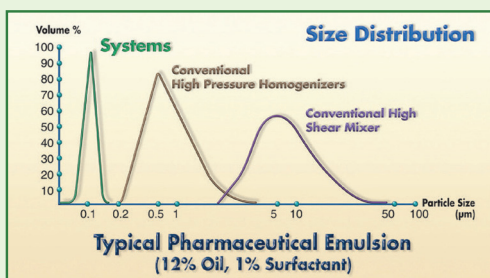
- Easy to use and clean
- 100% Scalable
- Air operated, in-line, continuous operation
- Low maintenance costs

## Specifications

- Flow rate: 250 mL/min (15 L / hr or 4 gal / hr)
- Operating Pressure: 2,000 - 30,000 psi (150 - 2,000 bar)
- Dimensions: 35" x 14" x 18" H (89 x 36 x 45 cm H)
- Weight: 80 lb (36 kg)
- Drive: Pneumatic
- Required Air Supply: Clean, dry air; 0-35°F Dew Point; scfm @ 100 psi



## Emulsifying • Cell Rupture • Dispersing • Grinding



Pion is experienced with every nuance of high energy 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 over pressure, flow, cavitation, impact, shear and process duration. Now you can fit the machine to your application and get the results that you want *fast*.

We are dedicated to advancing homogenization technology across multiple different industries and applications. Our research and development is ongoing, and you can depend on our precision engineering, quality manufacturing, and worldwide service for the highest reliability.



**Pion stands behind the science**

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Specifications subject to change without notice