

# NETZSCH

Proven Excellence.



## Economic Dispersionizer *OMEGA*<sup>®</sup> *LAB*

Laboratory Economic Dispersionizer

# NETZSCH OMEGA<sup>®</sup> LAB

## Laboratory Economic Dispersionizer

### Economic Dispersionizer OMEGA<sup>®</sup>

- Models from laboratory to pilot plant all the way to production scale
- Easy integration into existing processes (e.g. end-of-pipe)
- Reduced energy consumption compared to standard processes
- Significantly less heat generation during dispersion compared to other high-pressure homogenizers

### Pharmaceutical Model OMEGA VITA<sup>®</sup>

- Electro-polished model with a surface roughness Ra < 0.4 µm for product-wetted surfaces
- FDA / USP Class VI certified seals
- Validation documentation in accordance with cGMP
- IQ / OQ protocols and documentation
- Factory acceptance test (FAT)
- Site acceptance test (SAT)
- Clean in Place (CIP)
- Sterilization in Place (SIP) with sterile steam (up to 140°C)

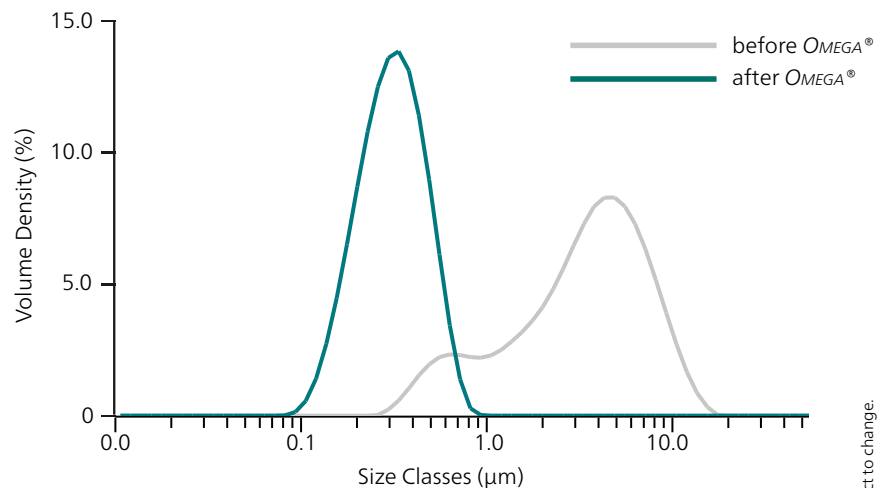
### Economic Dispersionizer OMEGA<sup>®</sup> LAB

- Single-piston pump
- Pneumatic motor (6 bar - 8 bar / 640 ml/min)
- Weight 50 kg
- Pressure range 30 bar - 700 bar
- Output up to 0.35 l/min
- Wear-resistant diamond dispersion unit
- Sample sizes from 50 ml
- Extremely easy handling
- Highest reproducibility

### NETZSCH Dispersion Device:

- Innovative dispersion technology comprising a combination of a unique nozzle and a homogenization valve up to 700 bar
- Efficient emulsification with narrow droplet size distributions into the nanometer range
- Efficient dispersion of agglomerates
- Targeted debundling of fibers, tubes and delamination of layered structures
- Increased breakdown of additives possible

### Nano-Emulsions with OMEGA<sup>®</sup>



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