SEEFRIED
Verfahrenstechnik

HOMOGENIZING MIXER

SYMEX CML500



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For efficient production and scale-up of demanding products in pharmaceutical and cosmetic applications.

Ideal for the production of emulsions, gels, suspensions, creams, lotions, toothpastes and pastes.

Technical Data – CML 500

- Usable volume: approx. 500 liters
- Total volume: approx. 780 liters
- Minimum volume: approx. 125–160 liters
- Permissible vessel pressure (product): -1 to +2 bar
- Jacket pressure: up to +4 bar
- Product temperature: up to approx. 133 °C
- Jacket temperature: up to approx. 151 °C
- Material (product-contact parts): stainless steel 316L / 1.4404
- Design: pressure- and vacuum-rated according to AD 2000

FEATURES

Anchor agitator with baffles
- Speed range: approx. 11 – 66 rpm
- Power: approx. 7.5 kW
- Optimized for high-viscosity products
- Uniform mixing and efficient heat transfer

High-performance homogenizer
- Power: approx. 16 – 20 kW
- Speed: up to approx. 3,000 rpm
- High shear forces for stable emulsions
- Rotor/stator system

Additional Features
- Hydraulic lid lifting system
- Vacuum operation possible
- Double jacket vessel (2-zone heating)
- Multi-port connection dome
- Sight glass with double wiper and lighting
- Dosing vessel (approx. 8 liters)
- Sampling valve
- Diaphragm and butterfly valves

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CIP and Process System
- Multiple CIP connections
- Rotating spray nozzles (360°)
- Recirculation line for homogenizing and product transfer
- Cleaning of vessel and piping

Advantages
- Combination of mixing and homogenizing in one system
- High process reliability due to closed design
- Vacuum processing for air-free products
- Reproducible and consistent product quality
- Suitable for high-viscosity and sensitive products
- Hygienic design (GMP suitable)
- Flexible use for different batch sizes

Typical Applications
- Pharmaceutical products (ointments, gels)
- Cosmetic creams and lotions
- Emulsions (O/W and W/O)
- Suspensions
- Toothpastes and pastes

Availability
Overhauled by SYMEX
Good used condition
Inspection possible by appointment
Available at short notice

Turnkey support including installation and commissioning possible



Lid & CIP CML500



Homogenizer & Vessel CML500



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SEEFRIED Verfahrenstechnik GmbH
An der Brake 45
28844 Weyhe
Germany

Tel. +49 (0) 172 9591625
Mail info@s-vt.net
Web www.s-vt.net