

AVESTIN EMULSIFLEX C1000 HIGH PRESSURE HOMOGENISER

Production Scale High Pressure Homogeniser/ Cell Lysis System

The EmulsiFlex C1000 from Avestin is a production scale homogeniser, ideal for a wide range of applications including nanoparticles, emulsions, liposomes and lysis of even tough cells like E-Coli and yeast.

The C1000 is electrically powered with a motor-driven triplex pump designed to ensure continuous flow rate.

The unique EmulsiFlex design ensures that there are no O-rings or gaskets in the entire path of the product. This means less risk of contamination, easier cleaning and no leakage.

Pressures of up to 30,000 psi enable the EmulsiFlex C1000 to process the toughest samples at a rate of up to 1,000L / hr.



AVESTIN

HIGH PRESSURE HOMOGENISERS AND LIPSOME EXTRUDERS

The EmulsiFlex C1 0

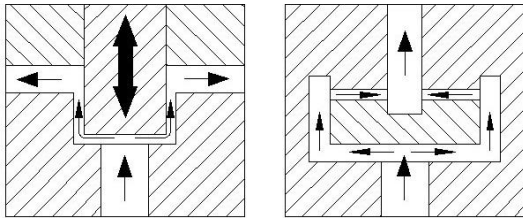
Electrical gear-motor driven high pressure triplex pump with frequency inverter with negligible pressure pulsation
Programmable logic controller (PLC) with touch screen human machine interface (HMI)

Three axial pump bodies individually mounted and made of hardened stainless steel

Ceramics for long lasting high performance

Sanitary process connections for product inlet

No O-rings or gaskets in the product path: all face seals are precision-machined metal-to-metal or metal-to-ceramic



Homogenising Valve

Dynamic and fully ceramic homogenising valve with pneumatic control

Virtually no air consumption

Easy disassembly for cleaning or inspection

Scalable performance

Performance

Feeds from variety of vessels

Constant flow-through capacity of up to 1 L/hr

Flow rate is independant of homogenising pressure

Minimal sample volume with minimal holdback < ml

Two Models Available

A - Fully adjustable up to 20,000 psi / 1,380 bar

B - Fully adjustable up to 30,000 psi / 2,000 bar

Temperature Control

Stringent inlet and outlet temperatures can be controlled with the installation of a cooling coil or a heat exchanger

Cleaning and sterilisation

Suitable for CIP (Clean-In-Place), cleanrooms and for GMP manufacturing

All materials within the wetted parts will withstand prolonged exposure to high pressure steam for the purposes of sterilisation (SIP)

Optional GMP certification available

Power Requirements

C

Clean, dry compressed air at 7 bar

Recirculating water

Dimensions

5 5mm x 5 mm W x 5 5mm H
Weight 5 g