

AVESTIN EMULSIFLEX C55 HIGH PRESSURE HOMOGENISER

Production Scale High Pressure Homogeniser / Cell Lysis System

The EmulsiFlex C55 from Avestin is a pilot-scale high pressure homogeniser, ideal for a applications including:

- Cell Disruption
- Emulsions
- Liposomes
- Particle Size Reduction



The C55 is electrically-powered, with a triplex pump designed for quiet operation and high throughput.

Avestin's unique, dynamic homogenising valve design minimises blockage risk and there are no O-rings or gaskets in the entire product path, meaning reduced risk of contamination and easier cleaning.

Adjustable homogenising pressures of up to 30,000 psi enable the processing of even the toughest samples, at a rate of 55L / hr.

AVESTIN

HIGH PRESSURE HOMOGENISERS AND LIPSOME EXTRUDERS



The EmulsiFlex C55

- 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 connection for the product inlet
- No O-rings or gaskets in 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 a variety of vessels
- Constant flow-through capacity of up to 55 L/hr
- Flow rate is independent of homogenising pressure
- Minimal sample volume 100ml with minimal holdback <6ml

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 sanitary heat exchanger

Cleaning and sterilisation

- Suitable for CIP (Clean-In-Place) cleanrooms and for GMP manufacturing
- All materials within the wetted parts path will withstand prolonged exposure to high pressure steam for the purposes of sterilisation
- Optional GMP certification available

Requirements for Operation

- 380 - 500V, 50Hz, 3 phase
- Clean, dry compressed air (or gas) at 6-8 bar
- Recirculating water

Dimensions

- 660mm (L) x 660mm (W) x 749mm (H)
- Weight: 200kg