

## **AVESTIN EMULSIFLEX D20**

### *HIGH PRESSURE HOMOGENISER*

The EmulsiFlex D20 from Avestin is a pilot-scale high pressure homogeniser, ideal for a wide range of applications including:

- Cell disruption
- Emulsions
- Liposomes
- Particle Size Reduction

The D20 is electrically powered, with a duplex pump designed for quiet operation

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 20L / hr

#### **The EmulsiFlex D20**

- Electrically driven double-acting high pressure pump, developed and manufactured by Avestin
- Specially designed pump motor valve ensures quiet operation
- No O-rings or gaskets in product path: all face seals are precision-machined metal-to-metal or metal-ceramic

**AVESTIN**

## Homogenising Valve

- Scalable performance
- Easy disassembly for cleaning or inspection
- Dynamic and fully ceramic homogenising valve with pneumatic control
- Virtually no air consumption

## Performance

- Stainless steel sample reservoir
- Flow rate is independent of homogenising pressure
- Constant flow through capacity of 20 L / hr, nominal
- Minimal sample size 50 ml with minimal holdback <4 ml

## Two models available

- A - Fully adjustable up to 20,000 psi / 1380 bar
- B - Fully adjustable up to 30,000 psi / 2000 bar

## Temperature Control

- Product temperatures can be controlled via installation of a cooling coil or sanitary heat exchanger, depending on the level of temperature control required

## 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
- Optional GMP certification available

## Requirements for Operation

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

## Dimensions

- 715 mm (W) x 610 mm (D) x 635 mm (H)
- Weight: 110kg

