

HP202 & HP203: Laboratory inline high pressure homogenisers

## Homogenises and Emulsifies

with great accuracy and reproducibility



### Introduction OMVE HP202 & HP203 homogenisers

The OMVE laboratory high-pressure homogenisers are designed to be installed inline with the OMVE HT220 HTST/ UHT system or with other small scale continuous flow heat treatment systems.

The homogenisers are standard supplied on a mobile frame and with a stainless steel hopper for stand-alone use. The change over from an inline system to a stand-alone system is done within minutes.

#### Features

- Flexible connection set
- Removable stainless steel funnel
- Variable throughput
- Standard with two stage homogenisation valves
- Analogue pressure gauges
- Comprehensive safety device
- Mounted on a mobile frame
- Minimum dead volume

#### Benefits

- Suitable for upstream and downstream
- Suitable to be used stand-alone and inline
- Adjustable to the flow rate of the HTST/ UHT system
- Most applications can be simulated
- Clear overview of the pressures
- Safe in use
- Flexible to use at different locations
- Minimum of product loss

### Optional accessories

- Aseptic version
- Condensate heat exchanger for aseptic use
- Pulsation dampers
- Digital pressure gauges (standard for the HP203)
- Safety screen
- Automatic system pressure control
- Data logging system

The **HP202 & HP203** are standard equipped with a connection set for up stream and down stream homogenisation.

With the automatic system pressure control, the homogeniser is save and easily to use in a complete processing line. When the homogeniser is set to the correct pressure, the automatic system pressure control will monitor and adjust the pressure to the set point. This means a minimum loss of product and during filling the operator has not to worry about cavitation in the homogeniser.

### Specifications

Product code	HP202	HP203
Max. viscosity (inline)	2000 cPs	2000 cPs
Max. particle size	0,5mm [0.02"]	0,5mm [0.02"]
Operating temperature	< 90°C [ <i>&lt;194 °F</i> ]	<105°C [ <i>&lt;221 °F</i> ]
Adjustable flow rate	10 - 30 l/h [2.2 – 6.6 <i>gph</i> ]	10 - 22 l/h [2.2 – 4.8 <i>gph</i> ]
Homogenisation pressure	600 bar(g) [ <i>~8702 psi(g)</i> ]	1000 bar(g) [ <i>~14503 psi(g)</i> ]
Pressure reading	Analogue (optional: digital)	Digital
Homogenising stages	Two	Two
Number of plungers	2	1
Minimum feed pressure	1 bar(g) [ <i>~14.5 psi(g)</i> ]	1 bar(g) [ <i>~14.5 psi(g)</i> ]
<b>Dimensions</b>		
Complete unit l x w x h	900 x 700 x 1400mm [35.4" x 27.5" x 55.1"]	900 x 700 x 1400mm [35.4" x 27.5" x 55.1"]
Total weight	180 kg [397.8 <i>lbs</i> ]	140 kg [309.4 <i>lbs</i> ]
<b>Cleaning</b>		
Cleaning temp. @ 30 min.	90°C [194 °F]	90°C [194 °F]
Sterilisation temp. @ 30 min.	140°C [284 °F]	130°C [266 °F]
<b>Materials</b>		
Casing / connection	Stainless Steel 316	Stainless Steel 316
Mobile skid	Stainless Steel 304	Stainless Steel 304
<b>Electrical requirements</b>		
	400V / 3ph / 50 - 60Hz / 16A (3ph + N + E)	400V / 3ph / 50 - 60Hz / 16A (3ph + N + E)
	230V / 1ph / 50 - 60Hz / 16A	230V / 1ph / 50 - 60Hz / 16A
	Other electrical requirements available on request	