

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><194 °F</i>]	<105 °C [<i><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>]
Dimensions		
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>]
Cleaning		
Cleaning temp. @ 30 min.	90 °C [194 °F]	90 °C [194 °F]
Sterilisation temp. @ 30 min.	140 °C [284 °F]	130 °C [266 °F]
Materials		
Casing / connection	Stainless Steel 316	Stainless Steel 316
Mobile skid	Stainless Steel 304	Stainless Steel 304
Electrical requirements		
	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	