



## MODEL Homogenizer Molecola

By the world leader in ultra high-pressure application, a new design of compression head with:

- Minimum dead volume
- Innovative design of the liquid end for minimized sterilization time

MODEL	MAX. POWER kW	PRESSURE bar			CAPACITY l/h
		1.000	1.200	1.500	
MOLECOLA	15	300	200	200	

\*Values referring to machines with fixed capacity

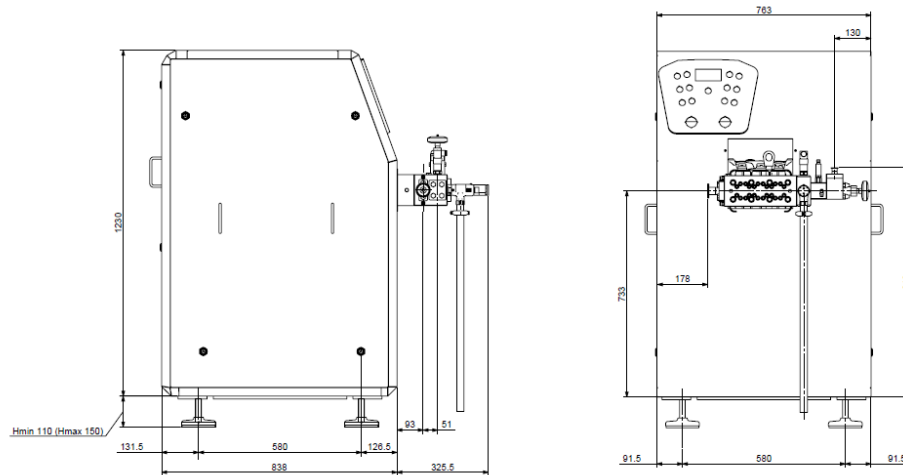
\*\*Values referring to products with a max viscosity of 500Cp

### TECHNICAL DATA

Plunger number	3
Stroke (mm)	50
Weight (kg)	550
Water consumption (l/h)	8
Lubrication oil quantity (kg)	4
Connection product inlet/outlet	Tri clamp 1"
Max. installed power (kW)	15

Design according to MACHINE DIRECTIVES and the HARMONIZED EUROPEAN STANDARD in force.





## FEATURES

Liquid End: mono-block shoot peened stainless steel compression head made from Super Duplex SAF2507, 3 Tungsten Carbide plungers, Ultra High-Density plunger seals for very high pressure

Homogenizing group:

- Hydro-pneumatic actuation of homogenizing pressure for a great stability
- Tungsten Carbide Homogenizing valves

Stellite™ Ball valves, suction and delivery valve seats integrated in a single component

Drive unit:

- Splash lubrication system
- Die cast aluminium crankcase
- Nitridized crankshaft
- Direct transmission system with integrated gear reducer with belts and pulleys

Overpressure valve, cooling plunger system with flow switch alarm on water circuit

Terminal box and control panel for local/remote control

Easy opening panels

Friendly maintenance of the liquid end

Digital pressure transmitter 4-20mA

## MAIN OPTIONS

Second stage homogenizing group

Homogenizing group:

- Manual adjustment of the pressure by handwheel

Pumping plungers availability:

- Ceramics

Solvent resistant configuration installing special seals

Aseptic execution

- Sterile water generator by means of condensed steam generator
- Patent pending sterile water generator by means of microfiltration

Vibration and temperature monitoring and alarm

Explosion proof design

Soud-proof design

Standard or sharp edge homogenizing valve with different geometries, materials availability:

- Ceramics

Design suitable with: 3A, EHEDG or PHARMA

- Low roughness and electropolished wetted parts
- Certification manual for cGMP

Electric power board:

- For Fixed or Variable capacity
- Remote Control by 4-20 mA signal
- Fully Automatic pressure control by means of PLC

Inlet and outlet connections:

- DIN 11851, Tri Clamp, SMS
- High pressure outlet
- Option upon request

