



ENGLISH

H.P. Homogenizers  
& Plunger Pumps

# Industrial Homogenizers



TECHNICAL DATA SHEET MODELS:

**HOMOLAB 2.20**  
**HOMOLAB 2.50**



Watch the video



[www.fbftalia.it](http://www.fbftalia.it)

FBF Italia laboratory homogenizers feature an innovative configuration, equipped with two pumping pistons.

Thanks to this unique functionality, the homogenising heads more stably process test product samples.

This leads to a high level of data reliability, ensuring much more dependable results compared to using machines with a single piston.

Such characteristics enable the transfer of optimised homogenisation conditions from laboratory research to industrial production.

## COMPRESSION HEAD AND HOMOGENIZING VALVE

- Compression head manufactured from a single block of high quality stainless steel (duplex 2205 or equivalent)
- Suction and discharge valves (ball type) in zirconium oxide
- Replaceable valve seats in food-grade tungsten carbide
- Safety valve of spring type
- Pressure gauge of digital type
- Pressurizable stainless steel hopper, complete with connection for compressed air inlet, suitable to treat products with viscosity up to 2.000cPs
- Homogenizing valves made of food grade tungsten carbide
- 2nd Homogenizing stage, suitable to work with pressure up to 150 bar (15 MPa)



## PUMP BODY, TRANSMISSION AND STRUCTURE

- Pump body made of a premium grade high-resistance cast iron
- Crankshaft machined from a solid piece, nitrited and checked using ultrasounds
- Oil splash type lubrication, in oil bath mechanical organs
- Frame constructed from a square-section stainless steel pipe, provided with dismantable stainless steel panels with satin finish
- Electrical motors of leading Companies in alternate current
- Control panel with operation and check buttons
- Electrical plant projected on respect of IEC standards, positioned onto the machine, with direct start

### HOMOLAB 2.20

- 20 l/h (50 Hz), 24 l/h (60 Hz)
- Double homogenizing stage
- 1st stage adjustable up to 1.800 bar (180 Mpa)
- 2nd stage adjustable up to 150 bar (15 Mpa)
- No. 2 plungers

### HOMOLAB 2.50

- 50 l/h (50 Hz), 58 l/h (60 Hz)
- Double homogenizing stage
- 1st stage adjustable up to 600 bar (60 Mpa)
- 2nd stage adjustable up to 150 bar (15 Mpa)
- No. 2 plungers

## TECHNICAL FEATURES

Homogenizer	Engine	Capacity (50/60 Hz)	Max. pressure (1st/2nd stage)	Dimensions max. particles	Volume hopper	Weight (approx.)
Model	(kW)	(l/h)	(bar)	(mm)	(l)	(kg)
<b>HOMOLAB 2.20</b>	1,5 kW, 6P., 3F.	20/24	1.800/150	≤ 0,2	0,8/1,6	110
<b>HOMOLAB 2.50</b>		50/60	600/150	≤ 0,4		115

The Homolab 2.20 and Homolab 2.50 homogenizers are laboratory machines that boast easy installation (they do not require piston cooling water) and straightforward usage (manual adjustment of homogenisation pressures via handwheels).

Choosing to equip them with two pumping pistons is fundamental for us to provide reliable results. The machine comes complete with a double homogenization stage and a pressurizable hopper (available in 0.8 or 1.6 litres); the only optional accessory is the hopper with a cavity for passing hot water (to be supplied).

