



ENGLISH

H.P. Homogenizers  
& Plunger Pumps

# Industrial Homogenizers



TECHNICAL DATA SHEET MODELS:

**FBF 6030 • FBF 6037  
FBF 6045**



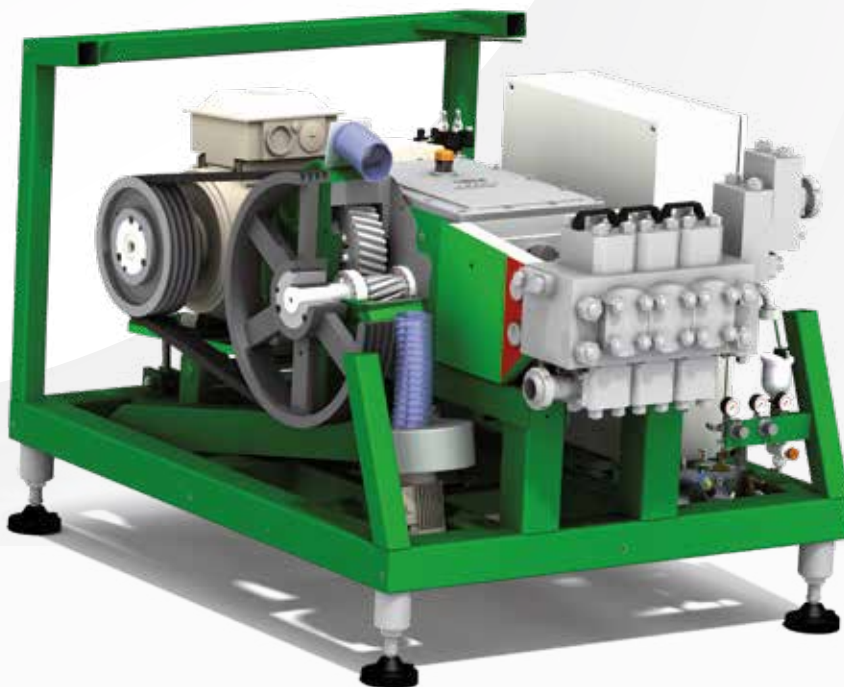
Watch the video



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

## COMPRESSION HEAD AND HOMOGENIZING VALVE

- Compression head manufactured from a single block of high quality stainless steel (duplex 2205 or equivalent), machined and ultrasounds checked, with a 5 year guarantee against cracking
- Each valve assembly is housed within an individually inspectable duplex 2205 (or equivalent) stainless steel block
- Plungers in stainless steel with double coating in chrome and DLC (Diamond Like Carbon)
- Rear water chambers (significant reduction in water consumption) containing double bushings for plungers alignment
- Valve group assemblies have replaceable seats and hemispherical valve shutters, ideal for processing a very wide range of products
- Homogenizing valves designed to provide efficient use of energy, with high stability and alignment of the moving parts (impact head) due to the hydrodynamic assembly, which ensures a vibration-free homogenization
- Safety valve, in sanitary execution, of spring type with replaceable shutter and seat



## MOTORIZATION

- Pump body made from a thick walled premium grade high-resistance cast iron, engineered to withstand heavy loads and cancel out vibrations
- Crankshaft made of special type ultrasounds checked steel, machined from a heat treated solid piece with high-quality finishing of the crankpins and complete nitriding; supported by 5 heavy-duty roller bearings (with bronze bearings used on the crank pins only)
- Power transmission with double reduction stage: "V" belts/pulleys, semi-automatic tensioning system, with two helicoidal gears in the pump body (slow gear coupled directly on the crankshaft)
- Pressurized type lubricating plant, correct oil level checked by a proper inspection window installed on the machine front side, irregular oil pressure alarm with warning light, drive impurities filtering. For the best thermal balance / dissipation all transmission's components are oil splashed
- 3 phase, 4 pole, AC electric drive motor of leading Companies
- Frame made of thick carbonated steel square section pipe, powder coated, supplied with dismantlable satin finish stainless-steel panels

## MAINTENANCE KIT

- Initial spare parts set supplied with the machine includes the following: full set of gaskets, a set of valve springs and a complete safety valves set
- Set of tools for ordinary maintenance
- Lubrication oil
- Instruction and maintenance manuals (2 copies + CD ROM)

## STANDARD OPTIONS

- 2nd stage homogenizing valve controlled by a special oil-pneumatic system
- Digital pressure transducers and analogue gauges with 4-20 mA output
- Fixed Capacity (internal electrical board)
- Variable Capacity (external stainless steel panel)
- Aseptic Version with "sterility barriers" traced with steam condensate created by an integrated plant
- Pulsation dampeners on product inlet and/or outlet connections, for special aseptic version as well
- Pressure gauge with alarm contacts for the automatic cut-off of the homogenizing pressure, complete with timing device to manage the start/stop of the homogenizing valves
- Automatic homogenization pressure controller

## TECHNICAL FEATURES

Homogenizer	Engine	Plungers	Water consumption	Dimensions	Weight (approx.)
Model	(kW)	(Nr.)	(l/h)	LxPxH (cm)	(kg)
<b>FBF 6030</b>	30				
<b>FBF 6037</b>	37	3	90-120	135x190x140	1.750-1.850
<b>FBF 6045</b>	45				

## FUNCTIONAL FEATURES

Operating pressure	bar	100	130	150	180	200	230	250	300
Capacity	from (l/h)	6.200	6.200	6.200	5.200	4.700	4.200	3.700	3.200
	to (l/h)	11.500	10.000	9.400	7.500	7.000	6.000	5.500	4.700

Technical specifications can vary and are subject to change without notice

