HIGH PRESSURE HOMOGENIZERS

# FBF8075 | FBF8090 | FBF8110 | FBF8132

## Compression head and Homogenizing valve

- The Compression head is manufactured from a single block of high quality stainless steel, of a special type, forged and checked with ultrasounds, with a 5 year guarantee against cracking and defects
- Each valve assembly is housed within an individually inspected special AISI 316 stainless steel block
- Pumping Pistons manufactured with a rear cooling chamber, a double guide to keep a perfect alignment, and a special "Diamond Like Carbon" plating (as a standard)
- 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 - Structure

- The Pump body is made from a thick walled premium grade high-resistance cast iron, engineered to withstand heavy loads and cancel out vibration
- The crankshaft is made from a special forged steel, machined from a solid piece, "multi-step" heat treatments, superfinishing of the goosenecks and complete nitriding, is checked using ultrasounds. The crankshaft is supported by 5 robust roller bearings (with bronze bearings used only on the crank pins)
- Power transmission with double reduction stage: "V" belts/pulleys, with semi–automatic tensioning system, with two helicoidal gears within the pump body (slow gear coupled directly on the crankshaft)
- Lubricating plant of pressurized type with the level of the oil detected by a proper sensor, cooling of the oil by a tubular heat-exchanger, an alarm for irregular pressure, an alarm for high temperature, and driven filtering of any possible impurities. For the best thermal balance/dissipating all transmission components are immersed in an oil bath
- 3 phase, 4 pole, AC electric drive motor of leading Company
- The frame is constructed from a square-section carbonated steel pipe coated in a powder painting , and supplied with dismountable stainless steel panels with satin finish

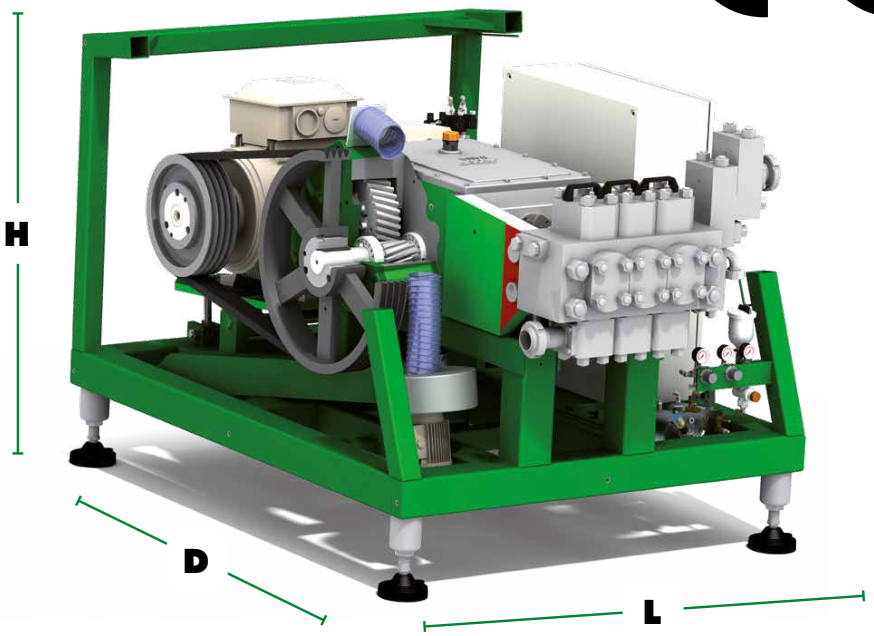
## Maintenance kit

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

HIGH PRESSURE FBF ITALIA HOMOGENIZERS

CE

| Technical Features | | |
|---|---|---|
| **FBF**8075 | kW | 75 |
| **FBF**8090 | kW | 90 |
| **FBF**8110 | kW | 110 |
| **FBF**8132 | kW | 132 |
| Pumping pistons | N. | 3 |
| Water consumption | l/h | 90-120 |
| Weight | kg | 3.230 - 3.500 |
| Dimensions (LxDxH) | cm | 180x220x160 |




## 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 (electrical plant placed inside the machine for all the power at 380/460V and 75 kW at 200/240V; external, stainless steel made with soft-starter equipment for 200/240V at 90 kW and over)
- Variable Capacity (remote stainless steel cabinet; conditioning unit with 110/132 kW only at 200/240V)
- 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

| Functional Features | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Operating pressure | bar | 100 | 130 | 150 | 180 | 200 | 230 | 250 | 300 |
| Capacity | from (l/h) | 16.500 | 16.500 | 16.000 | 12.500 | 12.500 | 10.500 | 10.000 | 8.500 |
| | to (l/h) | 25.000 | 25.000 | 24.000 | 20.000 | 18.000 | 16.500 | 15.000 | 12.000 |

Technical specifications can vary and are subject to change without notice

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MADE IN ITALY

English version

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