



**FBF8075 FBF8090 FBF8110 FBF8132**

HIGH PRESSURE HOMOGENIZERS & PLUNGER PUMPS



### 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 - STRUCTURE

- 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, driven impurities filtering. For the best thermal balance/dissipation all transmission's components are oil splashed.

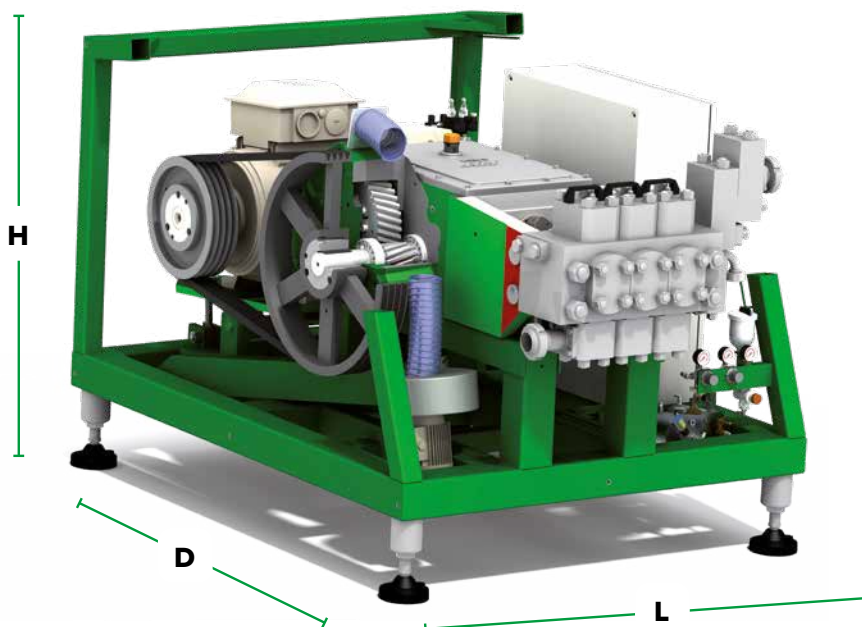
- 3 phase, 4 pole, AC electric drive motor of leading Companies.
- Frame made of thick carbonated steel square-section pipe, powder coated, supplied with dismountable satin finish stainless-steel panels.

### 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).

## TECHNICAL FEATURES

<b>FBF8075</b>	kW	75
<b>FBF8090</b>	kW	90
<b>FBF8110</b>	kW	110
<b>FBF8132</b>	kW	132
Plungers	No.	3
Water consumption	l/h	90-120
Weight	kg	3.230 - 3.500
Dimensions (LxDxH)	cm	180 x 220 x 160



## 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