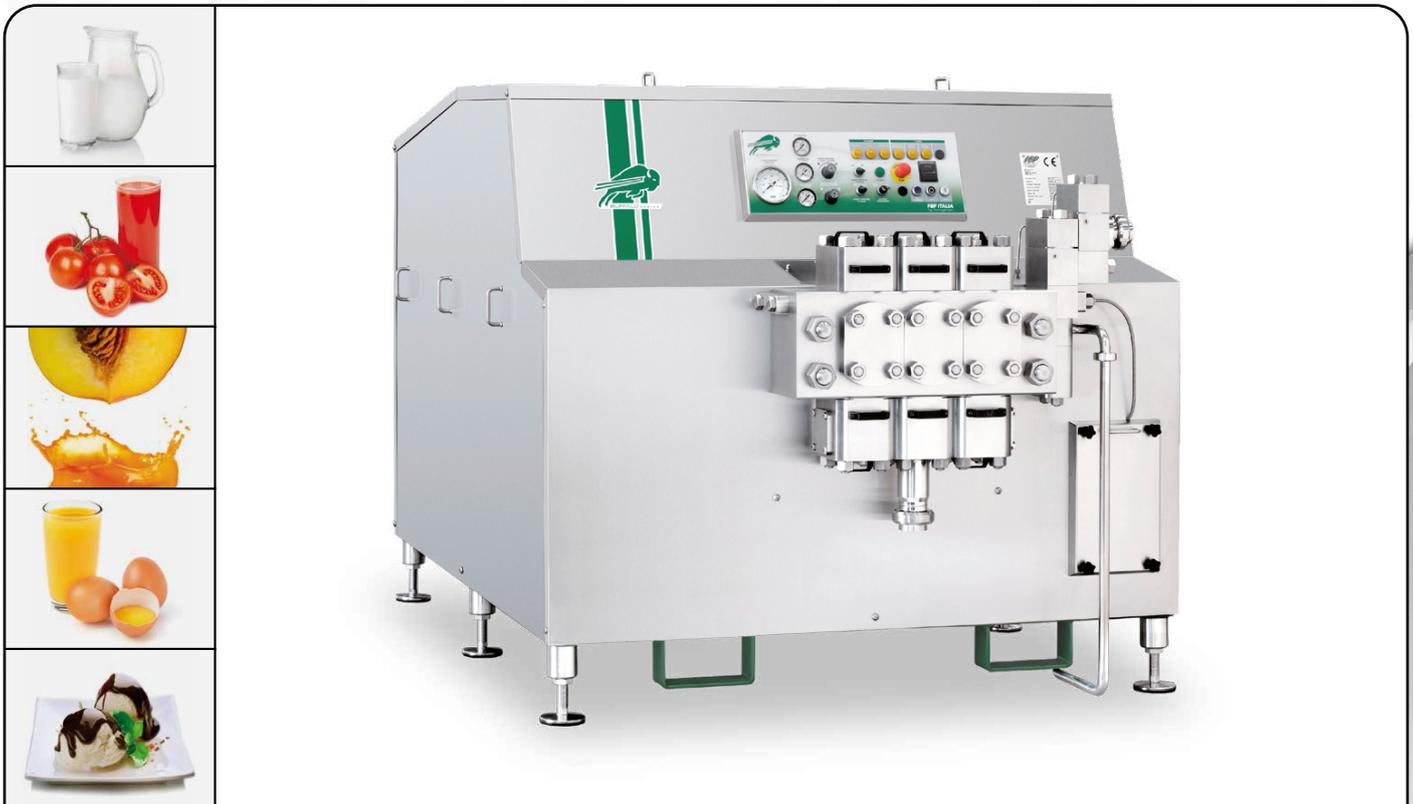


**FBF9090 | FBF9110 | FBF9132 | FBF9160**



#### 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, super-finishing of the goosenecks and complete nitriding, is checked using ultrasounds. The crankshaft is supported by robust roller bearings (with bronze bearings used only on the crank pins): 5 bearings for machines equipped with 3 pumping pistons, 7 bearings for machines equipped with 5 pumping pistons
- 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

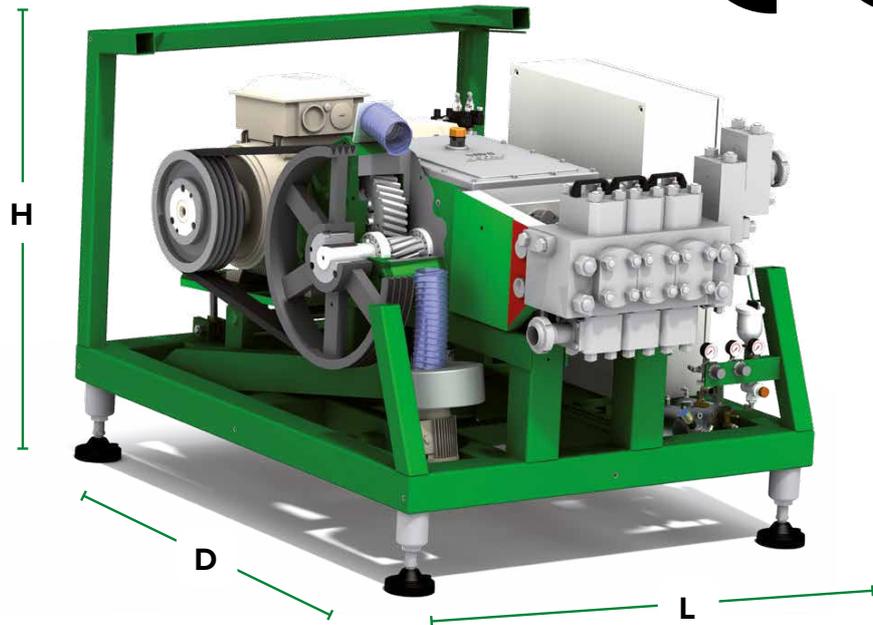
- 3 phase, 4 pole, AC electric drive motor of leading Company
- The frame is constructed from a square-section carbonated steel pipe coated in a powder painting, and supplied with dismountable stainless steel panels with satin finish

#### 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)



Technical Features		
FBF9090	kW	90
FBF9110	kW	110
FBF9132	kW	132
FBF9160	kW	160
Pumping pistons	N.	3
Water consumption	l/h	150-180
Peso	kg	5.150 - 5.500
Dimensions (LxDxH)	cm	190x260x180



### Standard options

- 2nd stage homogenizing valve controlled by a special oil-pneumatic system
- Fixed capacity (electrical plant placed inside the machine for supply as 380/460V up to 132 kW; external, stainless steel made with soft-starter equipment for superior powers and supply as 200/240V)
- Variable Capacity (remote stainless steel cabinet; conditioning unit with 110/132 kW only 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
- Digital pressure transducers and analogue gauges with 4-20 mA output
- 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)	26.000	26.000	25.000	21.000	19.000	17.000	16.000	13.000
	to (l/h)	40.000	39.000	33.000	27.000	25.000	22.000	20.000	16.000

Technical specifications can vary and are subject to change without notice

