

FBF4011 | FBF4015 | FBF4018 | FBF4022



Compression head and homogenizing valve

- The compression head is manufactured from a single block of high quality stainless steel, of special type, forged and checked with ultrasounds, with a 5 year guarantee against cracking and defects
- The pumping pistons are coated with special "Diamond Like Carbon" plating (as a standard)
- The valve group assemblies have replaceable seats and hemispherical valve shutters, making them ideal for processing a wide range of products
- The Homogenizing valves are designed to be energy efficient, 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 steel, machined from a solid piece, which has been heat treated and with super-finishing of the goosenecks and complete nitriding; the crankshaft is supported by robust roller bearings (with bronze bearings used only on the crank pins)
- Power transmission with a double reduction stage: "V" belts with reduction gear with parallel axes, sourced from a leading Company (eliminating the need for water cooling)
- 3 phase, 4 pole, AC electric drive motor supplied by a leading Company
- Lubricating plant of pressurized type. The correct oil level is checked by a proper inspection window installed on the

front side of the machine and a warning light turns on in the event of irregular oil pressure, and a driven filtering out of possible impurities. For the best thermal balance/dissipating all transmission components are immersed in an oil bath

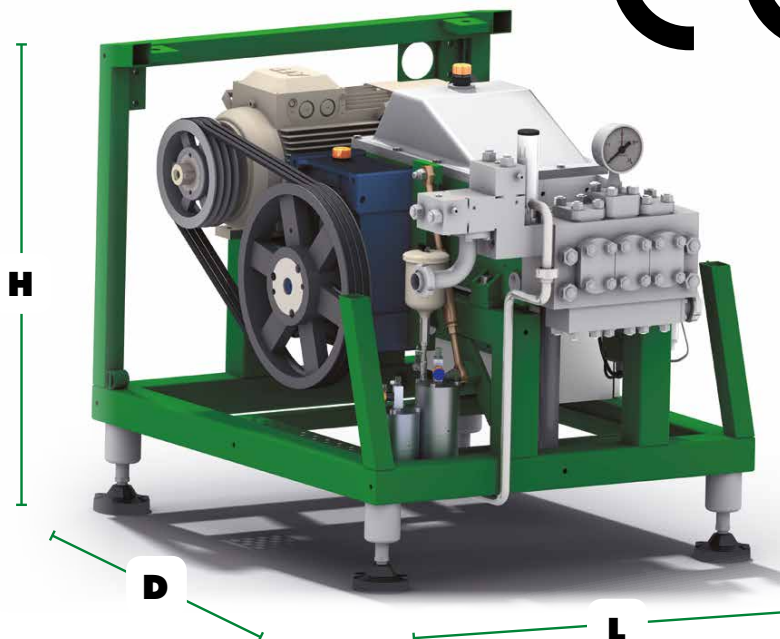
- The frame consists of a thick square-section of carbonated steel, and powder coated, and supplied with dismountable panels made of stainless steel with satin finish

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 normal maintenance
- Lubrication oil (pump body and gearbox)
- Instruction and maintenance manuals (2 copies + CD ROM)



Technical Features		
FBF4011	kW	11
FBF4015	kW	15
FBF4018	kW	18,5
FBF4022	kW	22
Pumping pistons	N.	3
Water consumption	l/h	100
Weight	kg	800-850
Dimensions (LxDxH)	cm	115x140x120



Standard options

- 2nd stage homogenizing valve controlled by a special oil-pneumatic system
- Digital pressure transducers and analogue gauges with 4-20 mA output
- Variable Capacity (A stainless steel panel mounted directly above the machine)
- Aseptic Version with "sterility barriers" traced with steam condensate created by an integrated plant
- Fixed Capacity (internal electrical board)
- 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)	2.200	2.200	2.200	1.800	1.700	1.300	1.300	1.100
	to (l/h)	6.000	4.500	4.000	3.500	3.000	2.500	2.000	2.000

Technical specifications can vary and are subject to change without notice