

FBF1002 | **FBF2003** | **FBF2004** | **FBF3006** | **FBF3008** | **FBF3011**



Compression head and Homogenizing valve

- The Compression head is manufactured from a single block (easy and fast maintenance) of high quality stainless steel of a special type, with a 5 year guarantee against cracking and defects
- Pumping Pistons coated with a special "Diamond Like Carbon" plating (as a standard)
- Interchangeable Valve group assemblies available in special materials depending on the products to be processed
- 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

- The pump body is made using 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/pulleys, with parallel axes reduction gear
- 3 phase, 4 poles, AC electric drive motor of leading Company
- Lubricating plant of oil splash type. The mechanical components are in oil-bath and the correct oil level is checked by a proper inspection window installed on the front side of the machine

Structure

- The structure is made from square-section pipe frame in stainless steel execution, provided with separate 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)



FBF3006

FBF3008

FBF3011

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)
- Fixed Capacity (internal electrical board)
- 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

Hmogenizer	Engine	Pumping pistons	Water consumption	Dimensions	Weight (approx.)	Hmogenizer	Engine	Pumping pistons	Water consumption	Dimensions	Weight (approx.)
Model	(kW)	(N.)	(l/h)	LxDxH (cm)	(kg)	Model	(kW)	(N.)	(l/h)	LxDxH (cm)	(kg)
FBF1002	2,2	2	60	58x85x77	170	FBF3006	5,5	3	70	85x115x92	410
FBF2003	3	2	60	85x115x92	360	FBF3008	7,5	3	70	85x115x92	420
FBF2004	4	2	60	85x115x92	365	FBF3011	11	3	70	100x130x100	470

Functional Features

Model	Operating pressure	bar	100	130	150	180	200	230	250	300
FBF1002	Capacity	from (l/h)	50	50	50	50	50	50	50	50
		to (l/h)	300	300	300	250	200	200	150	150
FBF2003 FBF2004	Capacity	from (l/h)	350	350	350	300	250	250	200	200
		to (l/h)	650	650	600	500	450	400	350	300
FBF3006 FBF3008 FBF3011	Capacity	from (l/h)	700	700	650	550	500	450	400	400
		to (l/h)	2.100	2.100	2.100	1.700	1.600	1.200	1.200	1.000

Technical specifications can vary and are subject to change without notice

