



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



**FBF1002**



**FBF2003**

**FBF2004**

### 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**

GraphoService/Parma

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

Functional Features										
Model	Operating pressure	bar	100	130	150	180	200	230	250	300
<b>FBF1002</b>	Capacity	from (l/h)	50	50	50	50	50	50	50	50
		to (l/h)	300	300	300	250	200	200	150	150
<b>FBF2003</b> <b>FBF2004</b>	Capacity	from (l/h)	350	350	350	300	250	250	200	200
		to (l/h)	650	650	600	500	450	400	350	300
<b>FBF3006</b> <b>FBF3008</b> <b>FBF3011</b>	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

English version



[www.fbftalia.it](http://www.fbftalia.it)

**FBF ITALIA S.r.l.** Via Are, 2 43038 Sala Baganza (Parma) Italy  
Phone: + 39 0521 548211 Fax: +39 0521 835179 info@fbftalia.it



Tel: 866-777-6060  
Fax: 866-777-6383

Springer Pumps, LLC

Website: [www.springerpumps.com](http://www.springerpumps.com)  
Int'l: +001 267 404 2910