



FBF5018 | FBF5022 | FBF5030



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 5 robust roller bearings (with bronze bearings used only on the crank pins)

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).

3 phase, 4 pole, AC electric drive motor of leading Company

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

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)

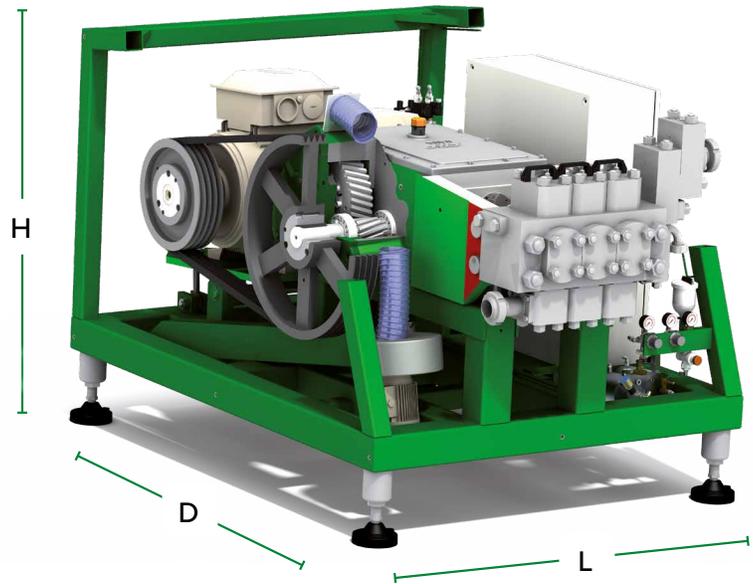


3A certification available for U.S.A., on demand for Canada



TECHNICAL FEATURES

FBF5018	kW	18.5
FBF5022	kW	22
FBF5030	kW	30
Pumping pistons	N.	3
Water consumption	gph	23.77 – 31.70
Weight	lbs	2,645 – 2,799
Dimensions (LxDxH)	in	47.24 x 61.02 x 51.18



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 (remote stainless steel panel, with soft-starter)

Variable Capacity (remote stainless steel panel).

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	psi	1,450	1,885	2,175	2,610	2,900	3,335	3,625	4,351
Capacity	from (gph)	-	1,241.61	1,109.52	977.44	845.35	713.26	581.18	581.18
	to (gph)	-	1,585.03	1,585.03	1,320.86	1,188.77	1,056.69	924.60	792.52

Technical specifications can vary and are subject to change without notice