

Made for big tasks. The efficient large systems from LEGIO.

These systems are either mounted on racks or in containers, for stationary or mobile applications. The high-efficiency ultrafiltration units are based on more than 25 years of experience. The extension options range from basic equipment with all required auxiliaries up to fully-automated, extremely environmentally friendly versions, which only require sea salt to carry out regular disinfection of the ultrafiltration modules. The basic concept

always remains the same and forms the basis for a standard series with the highest possible operational safety, but which can be individually adapted to the local requirements.

GPRS systems for global monitoring are also available.

Drinking water systems

LBFK-12-240-4



Series LBF-drinking water



Building connection, drinking water supply, backwater supply

LEGIO.filter large systems drinking water

Assembly versions*

Mobile systems	Standard shipping container with or without insulation
	Length: 10 ft (3 m) – 20 ft (6 m) – 40 ft (12 m), height: 2.5 m, width 2.6 m
	Double doors at front, sealed base, ISO-corners, CSC signs for marine transport
	Extension with hot-dip galvanised steel profiles for high loads during transport
Rack systems	Frames constructed from hot-dip galvanised steel profiles

System		LEGIO.modul – ultrafiltration	
Filter elements	individually replaceable	Effective total area	depending on the required discharge flow and load
Cleaning process	electronically controlled back wash and forward flush	Surface loading	50 l/m ² h – 130 l/m ² h
Flushing intervals	Freely programmable load-dependent	Pressure loss approx.	0.5 – 1.0 bar
		Maximum differential pressure	1.0 – 2.5 bar
Pipework material	PVC, PE-X brass	Bacterial filtering performance	> LOG 9 – 99.9999999%
Maximum operating pressure	up to 6 bar	Pore size	0.02 µm ~ 100 – 150 kDa
Test marks	DVGW, KTW, CE-compliance, DIN depending on system	Temperature resistance	up to 20°C, up to 40°C**
		Housing	PVC
		Performance	According to requirement

* see price list, ** additional price, changes and errors reserved

Equipment alternatives**

Control via PLC or LEGIO.control	LEGIO.box with GPRS-LAN-analogue data transfer of the operating parameters
Set up in containers or on racks depending on dimensional requirements	
LEGIO.prefilter (pre-filter cyclone with metal edge)	Buffer battery for all 24-volt systems and consumers
Conventional pre-filter	Connection for solar energy supply
Integral disinfection backwash according to LEGIO principle	Tools
Classic back-flushing with permeate tank	Spare parts set
Electrolytic disinfection – environmentally friendly, energy efficient	
Classic disinfection	
Pressure increase pumps	
Activated charcoal	
Selective ion exchanger	

Functional equipment

Alternative connections*

Fully automated	Container: side or below
Partially automated	Rack: as required according to specification
Manual mode	AC = 110V / 230V / 400V (50Hz / 60Hz)

Assembly

Container for static use on concrete block foundations.
Container for mobile use on vehicles or hard surfaces.
Racks with fixing set (feet, anchors, bolts) for concrete floors.

Disclaimer:

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