

Small-size sewage treatment system with microfiltration

BUSSEMF

Water of the next generation

The **BUSSEMF** type MF-HKA 4 (general design qualification approval no. Z-55.3-60) for 1 to 4 people households consists of two double-wall safety tanks for installation in a frost-free room in the basement or in an adjacent building (garage, garden house, etc.). If water cannot enter the system by gravity, a water hoisting machine is needed. This is available as an optional item. Sufficient level floor space is needed for installation, operation and maintenance and the room must be at least 2 meters high.

If the room is less than 2 m high and construction permits, the two tanks can be recessed in the floor. The modular design makes the system adaptable to most local sites. The system is ventilated into the open through the wastewater downpipe or a separate ventilation duct can lead out of the building. If more wastewater must be treated, e.g., when more people live in the house, the **BUSSEMF** can be added to.

If the treated water cannot flow from the system by gravity 30 cm above ground level, an optional filtrate hoister can bridge the difference. We recom-

mend to store the purified wastewater (filtrate) in a treated water tank with 500 l useful capacity. If you want to use the purified water for flushing, an automatic machine can feed it in the treated water pipe. If you want to water your garden, the treated water can be stored in a rainwater tank.

The standard system is installed and ready for service within a few hours. Automatic absence control ensures that the system remains in full biological operation also when you are not at home for several weeks.

To ensure smooth operation of the system, a service contract is concluded with every customer. The process and also the membranes require maintenance by the supplier or another specialized company.

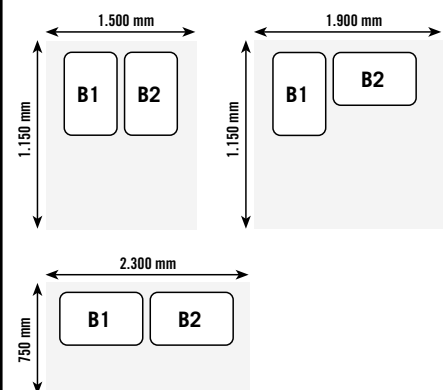
Type MF-HKA 4

The space-saving all-in solution in your basement



Illustration typical

Possible layout versions (top view)



Dimensions are without space for operation and maintenance

Optional units

Wastewater hoisting machine

Filtrate hoisting machine FH 450

Filtrate double hoisting machine FHD 450

Activated charcoal filter unit (incl. 175 l treated storage tank)

Treated water storage tank, single-wall, 500 l capacity

Automatic house water machine, 800 W

Specifications are subject to change
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Technical specifications	BUSSE-MF type MF-HKA 4	
Connection size	persons	1 - 4
Max. daily wastewater volume	[m ³ /d]	0,60
Max. daily sludge load	[kg BOD ₅ /d]	0,24
Power supply (AC)	[V]	230
Power consumption (min-max)	[kWh/d]	1,8 - 3,0
Min. room height	[m]	2,0
Safety tank (double wall) one tank footprint 0.75 m x 1.15 m	[ea.]	2
Required inlet height in system	[m]	> 1,65
COD obtained in discharge	[mg/l]	< 75 (Ø 30)
BOD ₅ obtained in discharge	[mg/l]	< 15 (Ø 5)
Conc. of filterable mat. obtained in discharge	[mg/l]	< 50 (Ø < 1)
Obtained NH ₄ -N concentr. obtained in discharge	[mg/l]	< 10 (Ø 3)
Bathing water directive (76/160/EEC)	[CFU/ml]	Limit and conduct. complied with
Watering water acc. DIN 19650	[CBU/ml]	Suitability classes 2, 3 and 4

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