

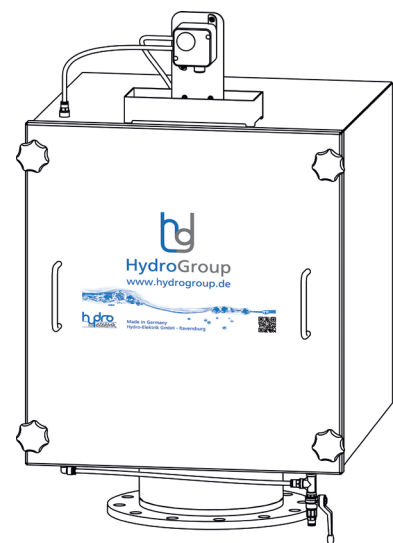
Air filter for drinking water storage systems LF 500, LF 1000, LF 2000

The air filter models LF 500, LF 1000 and LF 2000 have been specially developed for venting and ventilating drinking water storage systems. The two-stage filtration system consisting of a pre-filter and fine filter eliminates the tiniest airborne particles from intake air, thus optimally protecting drinking water (H13 HEPA filter in compliance with EN 1822).

The compact filter units in a high-grade stainless steel housing can be easily integrated into drinking water storage system ventilation lines.

These units excel thanks to:

- Two-stage filtration in a compact stainless steel housing with integrated condensation drainage
- Large filter surfaces with high-grade filter units made of glass fibre
- Integrated differential pressure measurement with potential-free contact connected to alarm system
- Maintenance-friendly design for easy filter replacement
- Optional:
wall bracket, connecting piping,
use of activated carbon filter



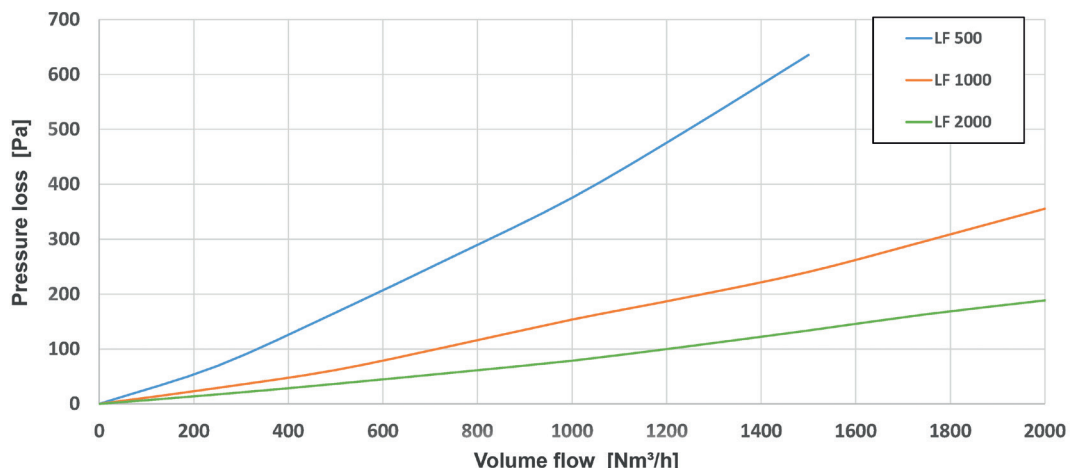
Areas of use Drinking water storage systems require an air supply line to allow air to escape when systems are filled and air to flow in when they are emptied. It is especially important to remove particulates and the tiniest airborne particles such as pollen from inflowing outdoor air.

H13 HEPA fine filters boast a retention rate of $\geq 99.95\%$ for particles measuring 0.01-1 μm in diameter, thus offering excellent protection, even against bacteria. The ready-to-connect stainless steel housings are designed for easy fitting to stainless steel drinking water storage systems with a flange. They can also be attached to tanks in other designs if suitable preparations are made at the installation site. The required brackets, pipeline pieces and moulded parts can be provided and delivered to meet project-specific requirements.

The maximum air quantity and the maximum permitted positive or negative pressure in the drinking water storage system are decisive when selecting the right filter. The air volume is calculated based on the maximum water withdrawal or input (the higher value is decisive).

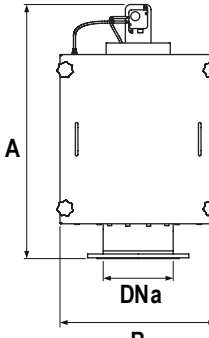
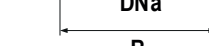
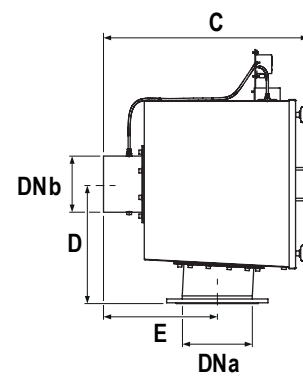
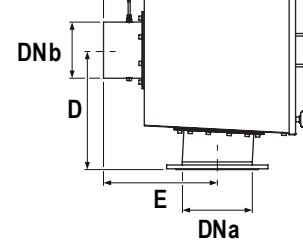
Characteristic curves

Filter resistance (pre-filter and fine filter)



Models and technical data

Designation		LF 500	LF 1000	LF 2000
Article no.		207664	207688	207689
Nominal airflow rate	[Nm³/h]	500	1000	2000
Weight	[kg]	40	75	100
Filter class		ePM1 55%		
Pre-filter	(ISO 16890)	H13		
Fine filter	(EN 1822)	-20 to +60		
Operating temperature	[°C]			
Materials		Stainless steel 1.4571		
Housing		Glass fibre		
Filter				
Differential pressure switch		IP54		
Protection class as per EN 60529		40-600		
Adjustment range	[Pa]	Potential-free contact DC 24 V		
Signal				

Dimensions [mm]		LF 500	LF 1000	LF 2000	
A		813	990	1140	
		560	610	780	
B		770	800	800	
		381	466	541	
C		428	444	444	
		DNa	DN 250	DN 250	DN 250
D		DNb	DN 150	DN 200	DN 200
		E			