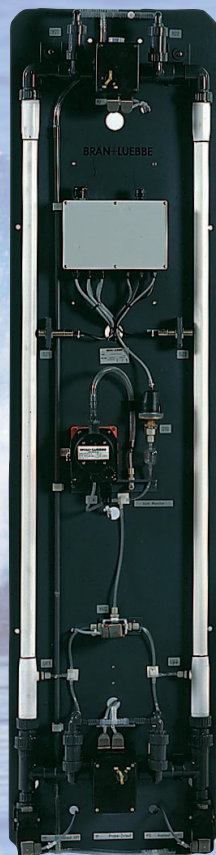


- *Filter unit for Bran+Luebbe On-line Monitors*
- *for municipal and industrial waste water treatment plants*

The UltraFiltration unit provides a clean sample stream for on-line monitors and is specially designed for difficult samples such as waste water with a high content of solids or bacteria.

Ultrafiltration



Ultrafiltration

All particles with a molecular weight >20,000 are retained by the membrane filter. When the filter surface becomes blocked, operation switches to the second filter tube and the first one is cleaned.

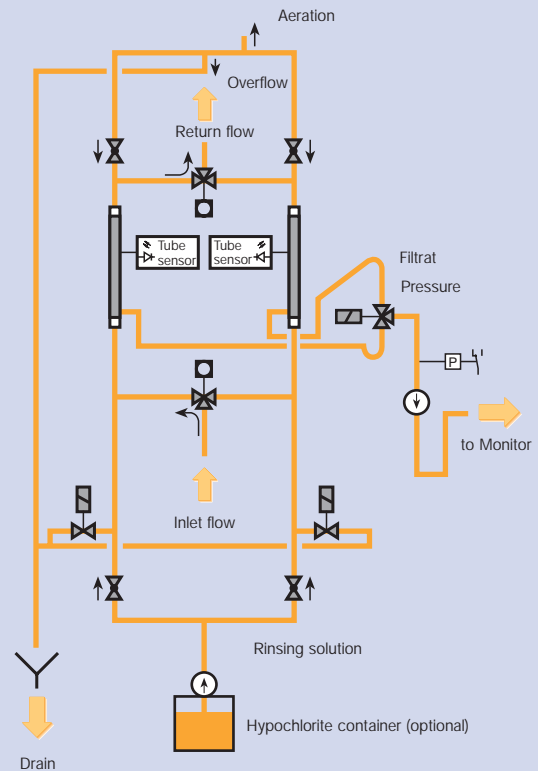
Filter changeover and cleaning can be manual or automatic, depending on the model.

Operation

A sample pump (side or immersed type) provides a continuous stream of sample at 8 m³/h through one filter tube while the other tube is in stand-by.

The filter tubes operate under virtually zero pressure conditions. The filtrate pump has two functions: It determines the filtrate volume and supplies the Monitor with the necessary sample pressure.

Several models are available with different levels of automation. Each one can be upgraded to a higher model type if requirements change.



Operation diagram, type Typ 2VA

Filters for different requirements.

- | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> ■ Type 2H
Manual filter change,
manual cleaning
manual valves | <ul style="list-style-type: none"> ■ Type 2HA
Automatic filter change,
manual cleaning
electric changeover
valves, manual valves | <ul style="list-style-type: none"> ■ Type 2HASP
Automatic filter change,
cleaning pump
electric changeover
valves, manual valves
1 hypochlorite container,
1 pump | <ul style="list-style-type: none"> ■ Type 2VA
Automatic filter change,
automatic cleaning
electric changeover
valves,
electric shut off valves,
no-return valves,
1 hypochlorite container,
1 pump |
| <ul style="list-style-type: none"> ■ Type 2HSP
Manual filter change,
cleaning pump
manual valves,
1 hypochlorite container,
1 pump | | | |

Technical data

No. of filter tubes
2, alternate operation

Separation
separates solids, colloids
and large molecules
Mol. W >20000

Chemical resistance
pH 2 - 12

Sample temperature
max. 45°C

Sample pressure
max. 2 bar

Filtrate volume
approx. 2 l/h, depending
on filtrate pump

**Environmental
temperature**
0 - 45°C

Cleaning interval
depends on sample
contamination:
typically 1 - 4 weeks

Option
sample supply pump

Design
side-channel or
immersion type

Pump power
8 m³/h

Delivery head
max. 30 m

Suction head
max. 2 m

Weight
approx. 33 kg

Dimensions (HxWxD)
2000 x 500x160 mm