

# Filtration Unit

## DESCRIPTION

The 3S filtration system is connected to a 3S analyzer and filters out suspended solids to provide a clean sample to the analyzer.

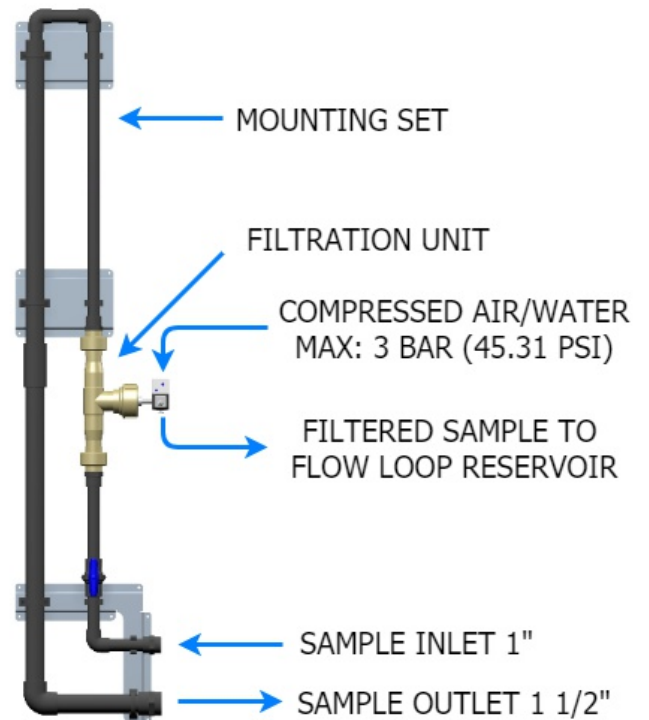
The filtration system has an automated backflush system that uses compressed air to clean the filter element.

As the main volume of the sample stream passes through the polypropylene or stainless steel filter quickly, only the sample quantity necessary for the analysis is filtered. This avoids a build-up on the filter element.

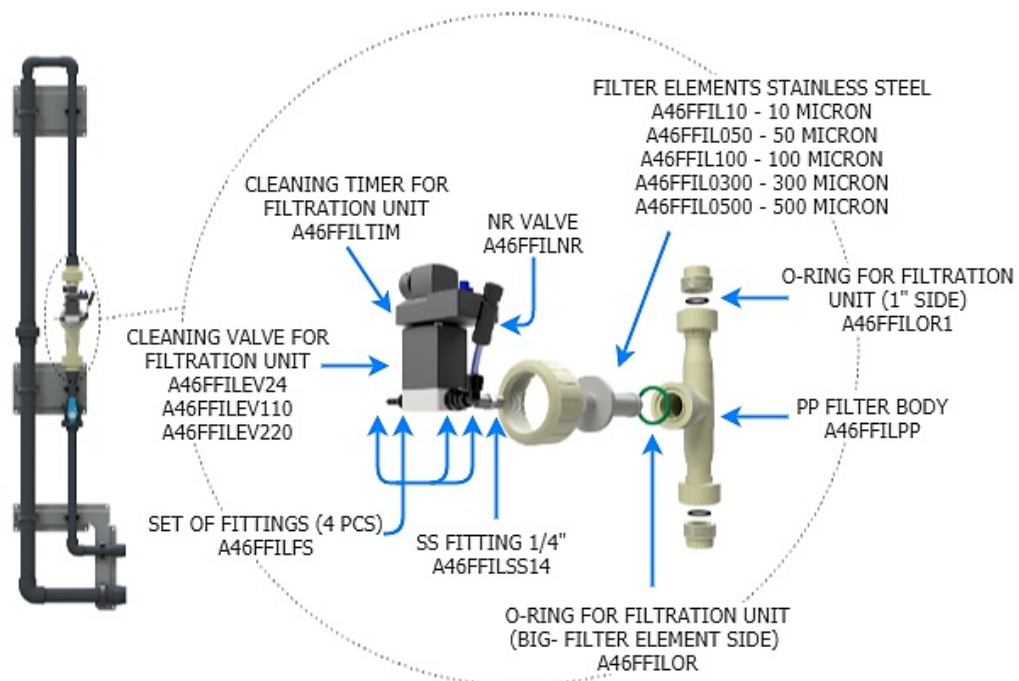
The filter assembly is equipped with a programmable electronic timer that controls the backflush operation.

Power supply: 220 VAC or 110 VAC

Filter's connections to the process: 1" NPT



## EXPLODED VIEW



## TECHNICAL SPECIFICATIONS

Power Supply	Customer must specify 110 VAC, 220 VAC or 24 VDC
Filter Body Material	PP (polypropylene)
Filter Element	Stainless Steel AISI 316
Protection Grade	IP65
Solenoid Valve (wet part)	Stainless Steel AISI 16 - Buna
Power Consumption	8 VA
Filter Mesh	10, 50, 100, 300 or 500 micron
Cleaning Interval Period	1 - 45 minutes (selectable)
Dimensions	220 mm x 380.6 mm x 1864 mm (8.7 in x 15.0 in x 73.4 in)
Weight (filtration unit only)	Approx. 1 Kg (2.2 lbs)
Sample Inlet Connection	25.4 mm (1.0 inch)
Sample Outlet Connection	38.1 mm (1.5 in)
Filter Outlet Connection (Compressed Air/Water)	6.0 mm (0.24 inc) O.D. tubing
Filter Outlet Connection (Sample Outlet)	6.0 mm (0.24 in) O.D. tubing
Filter Main Connections	25.4 mm (1.0 in)
Sample & Ambient Temperature	5 – 55 °C (41 - 131 °F)
Min/Max Sample Line Pressure	0.3 Bar (4.35 psi) / 2.5 Bar (36.26 psi)
Minimum Sample Line Flowrate	0.1 m <sup>3</sup> /h (100 L/h)
Sample Outlet Flowrate	0.1 – 2 L/min depending on sample line pressure
Compressed Air or Water Pressure	At least 20% above sample line pressure up to 3 bar (43.51 psi)

## ORDERING INFORMATIONS

### Power Supply 110 VAC

- A46SF10100 - Filtration unit 10 micron 110 VAC
- A46SF50100 - Filtration unit 50 micron 110 VAC
- A46SF10010 - Filtration unit 100 micron 110 VAC
- A46SF30010 - Filtration unit 300 micron 110 VAC
- A46SF50010 - Filtration unit 500 micron 110 VAC
  
- A46SFMKIT0 - Mounting set for filtration unit

### Power Supply 230 VAC

- A46SF10200 - Filtration unit 10 micron 230 VAC
- A46SF50200 - Filtration unit 50 micron 230 VAC
- A46SF10020 - Filtration unit 100 micron 230 VAC
- A46SF30020 - Filtration unit 300 micron 230 VAC
- A46SF50020 - Filtration unit 500 micron 230 VAC
  
- A46SFMKIT0 - Mounting set for filtration unit