



### Application

The filter combination consists of two filter systems, which are connected in series. A manometer (econometer) is mounted at the input connection and displays the abrasion.

The econometer controls the current pressure difference and informs about the necessary change of the used filter element.

### Dimensions

H x W x D: 295 mm x 266 mm x 130 mm  
(Height incl. manometer)  
Pneumatic connection:  
G 1/4" (input and output)

### Mounting

The filter combination has to be mounted vertically.

### Medium

Air oder neutral gas (filtered)

### Material

Surface :  
Polyester resin (powder-coated)  
Case : Aluminium pressure casting  
Union nut : Aluminium with acoustic warning signal  
Econometer : Plastic  
Enclosure sealing : Solvent free O-ring (material Perbunan)

### Weight

1.0 kg (volume 0.37 l) per filter

### Operating pressure

Minimum: 1.5 bar, maximum: 16 bar  
Filter combinations for maximum pressures of 50 bar resp. 350 bar are available on request.

## Filter elements

### 1. Filter stage PE filter unit



### 2. Filter stage SMF filter unit

#### Filter elements

##### 1. Filter stage (PE filter unit)

Sintered polyethylene  
Pore size 25  $\mu\text{m}$   
Separation of solid particles, oil and water

##### 2. Filter stage (SMF filter unit)

Polyurethane microfilter fleece  
Pore size 0.01  $\mu\text{m}$   
Separation efficiency 99.99999 %  
Concentration of remaining oil 0.01  $\text{mg}/\text{m}^3$

#### Functioning

##### 1. Filter stage (PE filter unit):

Compressed air, contaminated with fine dust is filtered by the filter material. Solid particles, which are larger than 25  $\mu\text{m}$ , cannot pass the filter because of different filter processes like impact and filtration.

##### 2. Filter stage (SMF filter unit):

Effective two stage filter process with a integrated 1  $\mu\text{m}$  upstream filter. Fluid and solid particles up to a size of 0.01  $\mu\text{m}$  will be separated by using different filter processes like impact, filtration and diffusion.

We recommend the exchange of the PE- and SMF filter units after one year at the latest referring to the degree of soiling.

#### Permissible temperatures

Enclosure: min.  $-25^{\circ}\text{C}$  / max.  $+120^{\circ}\text{C}$   
Econometer (manometer): max.  $+60^{\circ}\text{C}$   
PE filter unit: max.  $+80^{\circ}\text{C}$   
SMF filter unit: max.  $+80^{\circ}\text{C}$

#### Fixing

In the scope of delivery included wall mount. The filter combination is delivered pre-assembled. Before installing only the both wall fastenings must be mounted to the right and left. Please remove the cap nuts and spring washers, slide the wall fastening to the threaded bar and secure it with the lock washer and the nut.

#### Scope of delivery

2-stage filter combination with PE- and SMF-filter unit, wall fastening, screws, installation manual

##### Advice:

The package does not include fittings that in the filter combination on input and output 1/4 inch thread can be screwed. Matching fittings: see our accessories catalog.