

# PSA



## **PSA air purifier**

The PSA air purifier is perfect for purifying supply air when background levels are high and excellent purity is required.

**PSA** is typically used in industrial applications for protecting electronics and electrical devices from corrosion caused by the surrounding air. It is also perfect for purifying compressor intake air and eliminating odors in wastewater systems.

The PSA air purifier is modularly constructed and allows the building of one or more chemical filtering stages using C-12 filter sections. Pre- and post-filtering can be added.

### Purifier unit

Standard material: acid-resistant steel plate  
 Connection: flange joint with counter flanges

### Filter sections

Filter section type: C-12  
 Main dimensions: 300 x 300 x 300 mm  
 Medium volume: approx. 15 dm<sup>3</sup>  
 Material: ABS plastic

### Fields of use

- + Electrical rooms
- + Data centers
- + Wastewater treatment plants
- + Composting plants
- + Protection of electronics
- + Control rooms
- + Wastewater pumping stations
- + Compressor intake air

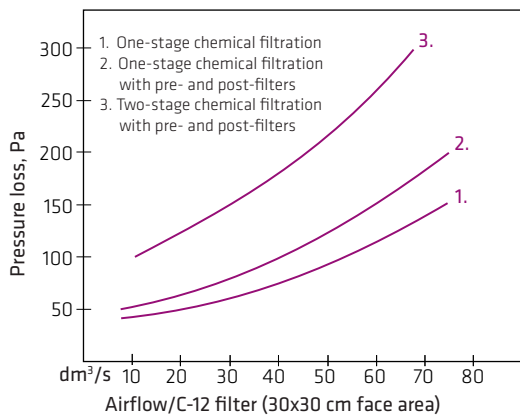
### Other equipment

Pre-filter: filtration class M6  
 Post-filter: filtration class F9

### Scaling

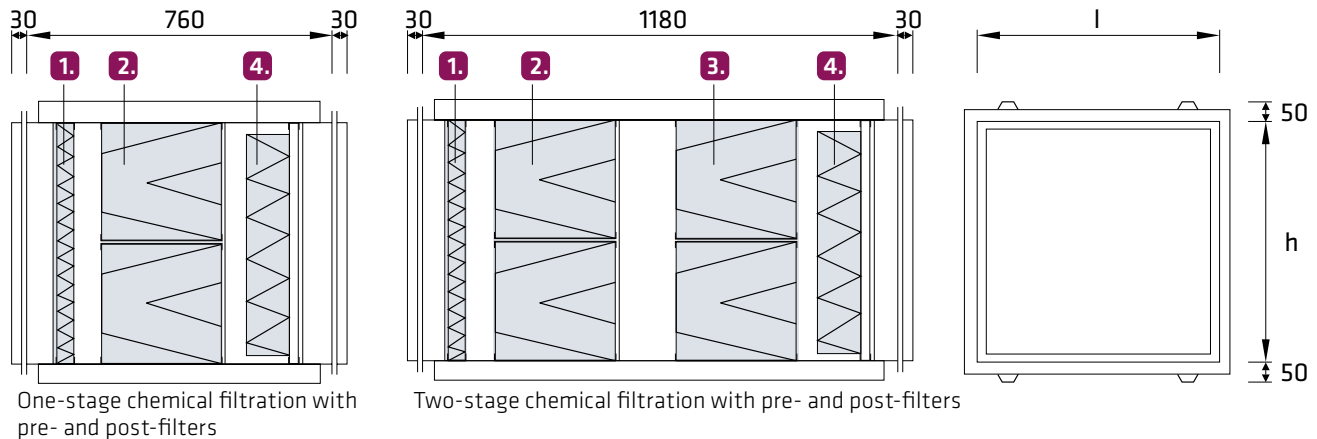
The contaminant removal efficiency of PSA air purifiers is over 99%. The delay of the air flow in the filtration material is normally scaled between 0.25 and 1.5 seconds. The minimum delay per filtration stage is 0.25 seconds.

#### Pressure loss data



#### Scaling

One-stage chemical filtration	Two-stage chemical filtration	h mm	l mm	Airflow dm <sup>3</sup> /s (max)	C-12 filter pcs, 1-stage/2-stage
PSA 111-FE	PSA 112-FE	300	300	... 30	1 / 2
PSA 121-FE	PSA 122-FE	300	600	... 120	2 / 4
PSA 211-FE	PSA 212-FE	600	300	... 120	2 / 4
PSA 221-FE	PSA 222-FE	600	600	... 240	4 / 8
PSA 231-FE	PSA 232-FE	600	900	... 360	6 / 12
PSA 241-FE	PSA 242-FE	600	1200	... 480	8 / 16
PSA 321-FE	PSA 322-FE	900	600	... 360	6 / 12
PSA 341-FE	PSA 342-FE	900	1200	... 720	12 / 24
PSA 421-FE	PSA 422-FE	1200	600	... 480	8 / 16
PSA 431-FE	PSA 432-FE	1200	900	... 720	12 / 24
PSA 441-FE	PSA 442-FE	1200	1200	... 960	16 / 32
PSA x-y-1-FE	PSA x-y-2-FE	x-300	y-300	x· y- 60	x·y / x·y·2



- 1. Pre-filter
- 2. Chemical filtration, 1st stage
- 3. Chemical filtration, 2nd stage
- 4. Post-filter