



# VOKES AIR

Taking small steps together, always ahead, towards a better world

## ScandSafe

Airing filter





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Airing filter

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## APPLICATIONS

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Clean Air



Power Generation



Clean Room



Industrial

## KEY FACTS

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- ▶ Airing filter for:
  - Water reservoirs
  - Food containers
  - Silos etc
- ▶ Air filter especially designed for humid environments
- ▶ High efficiency
  - H13 HEPA filter

### ScandSafe

- ▶ **Airing filter for efficient filtration of the inlet air to water reservoirs, etc.**
- ▶ **Replaces the present air pipe.**
- ▶ **Can easily be equipped with locking device for protection against unauthorised entrance.**
- ▶ **A cost effective way to keep the water surface clean.**
- ▶ **H 13 HEPA grade efficiency assures filtration of all pollens, spores, products of combustion, sponges, etc.**
- ▶ **Tested by SP, Swedish National Testing and Research Institute, report no ETv P3 02296.**
- ▶ **Fulfil the demands in Swedish Standard SS-EN 1508.**



## The Problem

When the water level in the reservoir sinks, outside air is sucked into the tank and with it air pollutants. These pollutants soon cover the water surface and the inside walls of the reservoir. From a hygienic point of view, this layer of impurities is undesirable since it can spread through the water pipes to the users. The outdoor air holds many contaminants such as:

- ▶ Combustion products from car engines and incineration plants
- ▶ Heavy metals, lead, pollen, spores, fungus, etc.

Furthermore, recent terror events world-wide has created an awareness of the risks for sabotage in connection with easily accessible water reservoirs. In Switzerland, there has been a law since 1975 stating that all water reservoirs must be equipped with an airing protection system.

## The Solution

To prevent contamination from entering the reservoir, an air filter housing complete with air filter is installed on the airing pipe. The microfilter is classified H13 according to the EN 1822 standard which means it filtrates 99.99% of all particles sized 0.3  $\mu\text{m}$  or bigger. Using this type of filter ensures that most occurring types of contamination are filtrated. See Ultrafilter.

## The closed airing system

In order to achieve perfect function a closed airing system must be created, i.e. all air must pass through the filter. All other air valves must be closed and the air must only enter the reservoir through the microfilter in ScandSafe. As a precaution against possible filter clogging, ScandSafe WR-180 is equipped with two automatic, resetable vacuum valves. The valves open at 1000 Pascal and automatically shut when the pressure decreases. This function makes it a maintenance free security system and guarantees that air passes through the filter when it is needed.

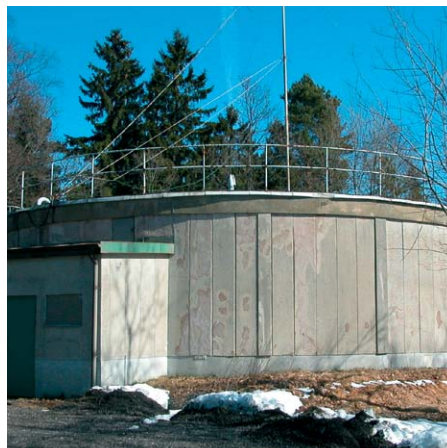
## Dimensioning of the airing system

The volume of the passing air defines the size of filter and filter housing. The maximum drawing off/refilling of water per unit of time = airflow. 1 litre of water  $\approx$  1 litre of air.

## Ultrafilter

The microfilters used in the airing system are made of moisture-repellent material. The filters have a large surface area that combines with the low airflow to ensure a long lifetime. The normal lifetime of these filters, based upon experience and tests, is 3-4 years, but normally the filters are changed every second year.

Additionally, this type of filter in grade H13 is frequently used as protection against radioactive contamination, chemical and biological substances at civil defence and military establishments.

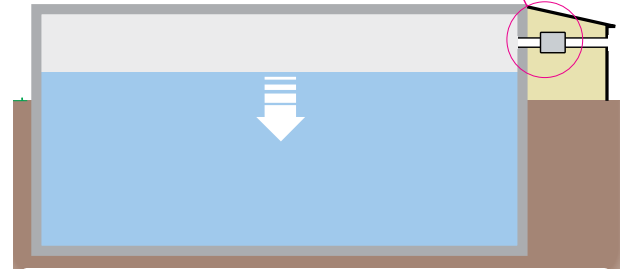
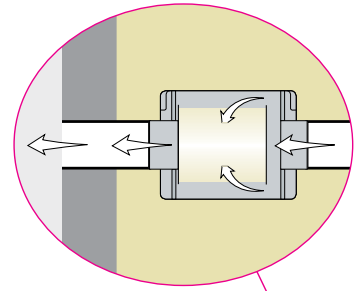


## ScandSafe JKG-W

JKG-series is designed for indoor installations, horizontal on wall or in the ceiling. JKG-W-series is manufactured in welded PVC.



Functional design for ScandSafe JKG airing filter

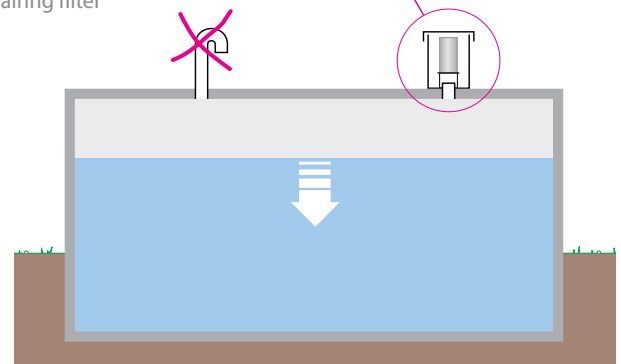
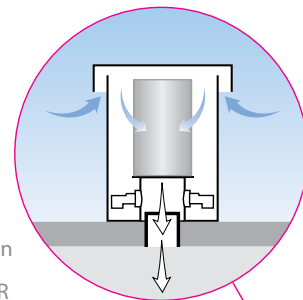


## ScandSafe WR

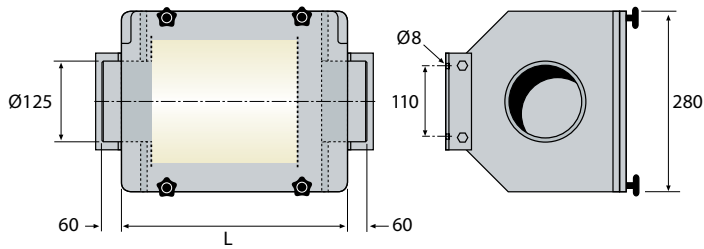
WR-series is designed for installations outdoors, on the reservoir roof and as replacement for the standard air intake pipe. WR-series is manufactured in acid proof stainless steel, AISI 316.



Functional design for ScandSafe WR airing filter

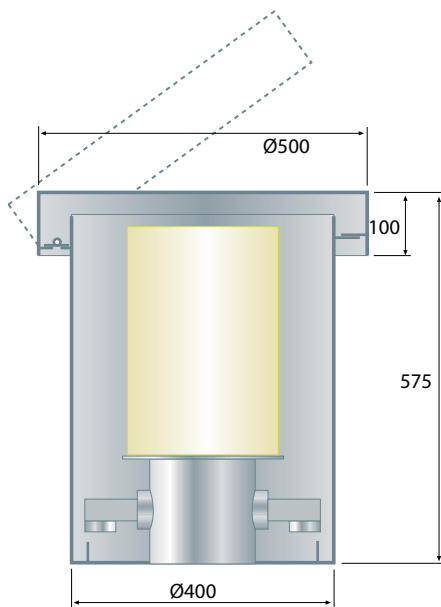


## Technical data ScandSafe JKG-W

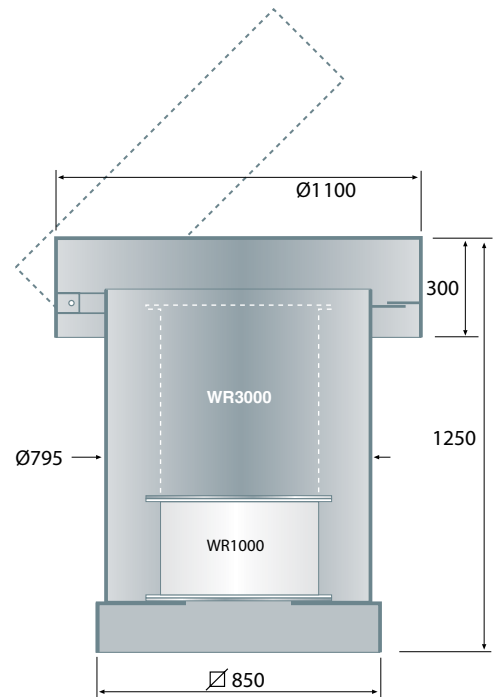


Type	JKG-W 19/20	JKG-W 19/30	JKG-W 19/40
Max air flow, m <sup>3</sup> /h	90	120	180
Transition, Ø mm	125	125	125
L mm	291	391	491
Weight, kg	6	8	10

## Technical data ScandSafe WR



Type	WR-180
Max air flow, m <sup>3</sup> /h	180
Transition, Ø mm	100-160
Weight, kg	28



Type	WR-1000	WR-3000
Max air flow, m <sup>3</sup> /h	1000	3000
Transition, Ø mm	max 700	max 700
Weight, kg	135	150

In case of bigger air flows/treservoirs, please contact Vokes Air for tailor-made solutions.

## OUR LOCATIONS

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### ÖSTERREICH

Tel: +43 (0) 1 698 66 77 0

### FRANCE

Tel: +33 (0) 164 076 125

### ITALIA

Tel: +39 022 692 6321

### SOUTH AFRICA

Tel: +27 (0) 114 250 470

### SVERIGE

Tel: +46 (0) 325 661 600

### UNITED KINGDOM

Tel: +44 (0) 1282 686 266

### DANMARK

Tel: +45 364 966 00

### SCHWEIZ

Tel: +41 (0) 433 992 700

### NEDERLAND

Tel: +31 888 653 724

### DEUTSCHLAND

Tel: +49 (0) 2339 128 00  
oder +49 (0) 6181 9082 01

### ESPAÑA

Tel: +34 937 522 718

In view of continuous research and development we reserve the right to modify specifications and dimensions without prior notice. For quoted standards, the issue valid at the print date of this leaflet is relevant.  
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