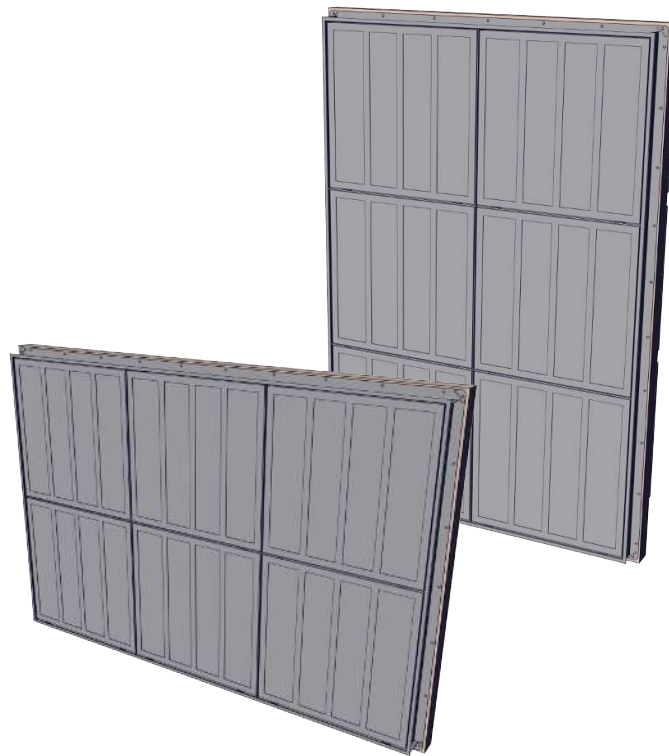


Air in - Filtering Filter System Mounting Guide



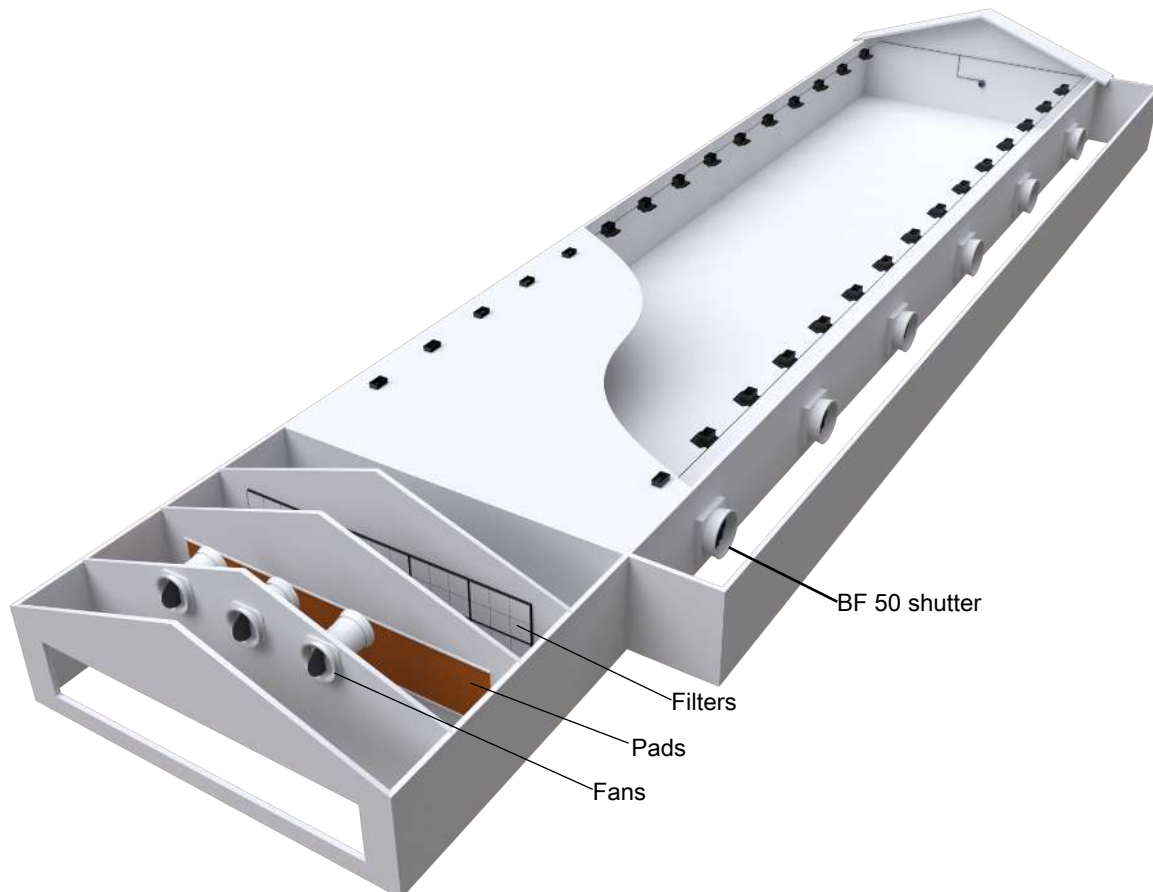
1	Product description	4
2	Product survey	5
3	Technical data	6
3.1	Dimensions	7
3.1.1	Filter frame vertical	7
3.1.2	Filter frame horizontal	8
3.1.3	Prefilter.....	9
3.1.4	Main filter	9

1 Product description

The filter system filters incoming air to prevent airborne diseases.

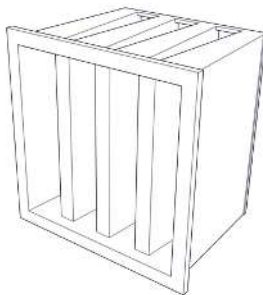
The infection risk of airborne diseases such as PRRS, Mycoplasma, etc. is reduced significantly when the ventilation air is filtered. Two filters are installed in each filter frame. A pre-filter (G4/MERV 8) and a main filter (F9/MERV 15 or E10/MERV 16).

The filter wall must be able to withstand pressure of 50 kg per m².



Central positive pressure system with filters and exhaust via BF 50 shutter.

The purpose of the pre-filter is to protect the main filter and it must be replaced after 6-12 months depending on the conditions.



The main filter is made from fiberglass and efficiently removes sources of infection from the airflow. The filter is designed for use in farming applications, such as pig farms. The rigid design of the filter and the pleated filter medium ensure the supply of the required air quality when used in ventilation systems in pig houses. The filter medium repels water, oil, hydrocarbons, and salt, while the plastic frame is corrosion-resistant. The efficiency of the fiberglass media is independent of electrostatic charge. It maintains its effectiveness over time, in contrast to electrostatically charged synthetic filters where efficiency decreases when used in pig houses. The main filter must be replaced approx. every third year depending on the conditions.

2 Product survey



431013 Metal filter frame 3x2 vertical

The filter frame is used when the frame is placed vertically.



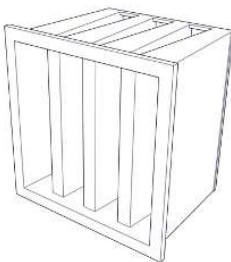
431014 Metal filter frame 3x2 horizontal

The filter frame is used when the frame is placed horizontally.



431001 Pre-filter G4/MERV 8 592x592x44

The pre-filter is used in front of the main filter and must be mounted in the filter frame.



431002 Main filter F9/MERV 15 592x592x440

At a differential pressure of 24 Pa the filter has an air output of 1,000 m³/h.

431003 Main filter E10/MERV 16 592x592x440

At a differential pressure of 40 Pa the filter has an air output of 1,000 m³/h.

The main filter is used after the pre-filter and must be mounted in the filter frame.

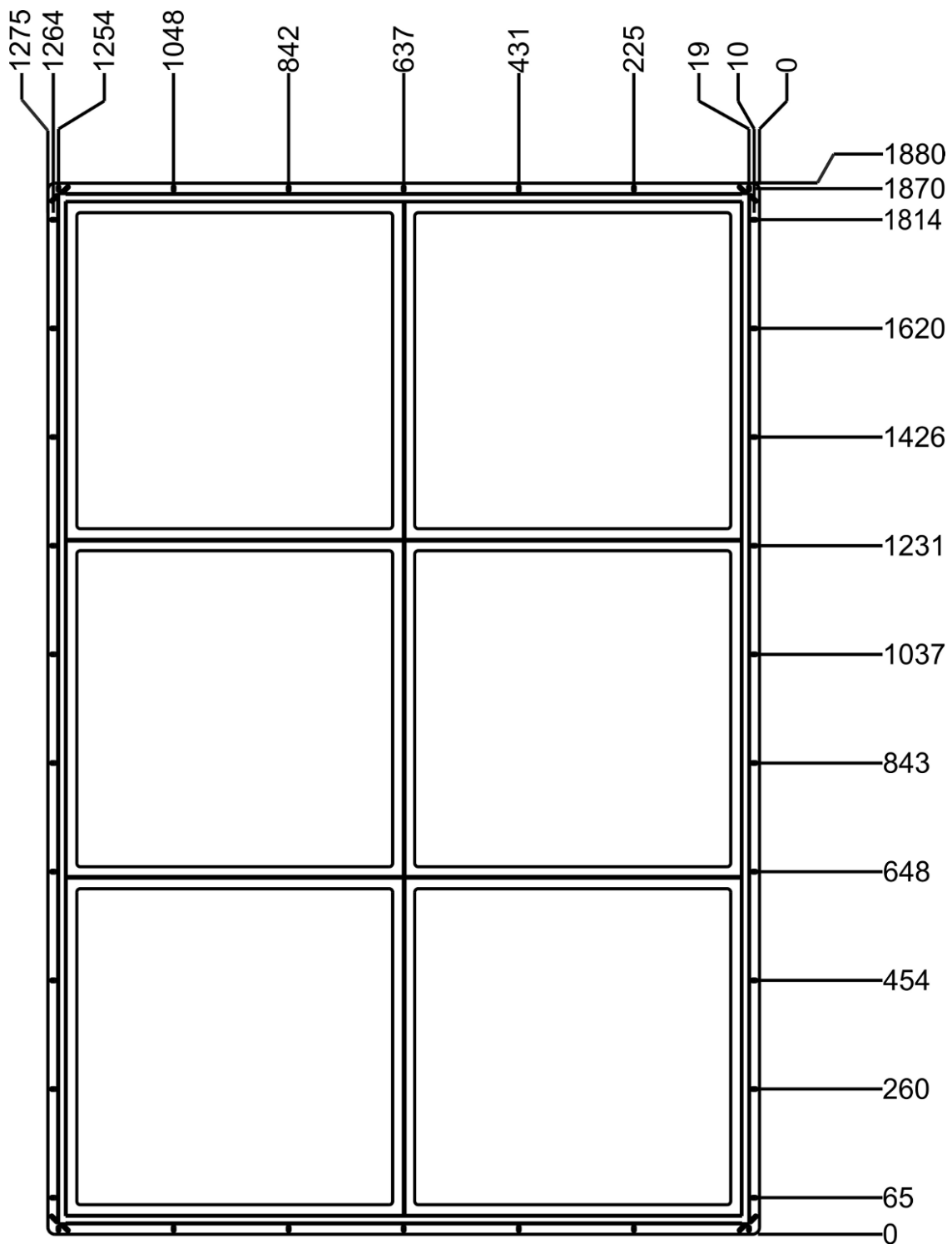
3 Technical data

		431001 MERV 8 pre-filter 44 mm	431001 MERV 8 pre-filter 44 mm
		431002 MERV 15 filter 440 mm	431003 MERV 16 filter 440 mm
Mechanical			
Material		Stainless steel AISI 304	
Output			
Air output at -10 Pa	m ³ /h	460	260
Air output at -20 Pa	m ³ /h	760	480
Air output at -30 Pa	m ³ /h	1020	680
Air output at -40 Pa	m ³ /h	1250	870
Air output at -50 Pa	m ³ /h	1470	1060
Air output at -60 Pa	m ³ /h	1680	1240
Air output at -70 Pa	m ³ /h	1880	1410
Air output at -80 Pa	m ³ /h	2070	1590
Air output at -90 Pa	m ³ /h	2260	1760
Air output at -100 Pa	m ³ /h	2440	1930
Environment			
Temperature, operation	°C	-30 to +60	
Storage temperature	°C	-40 to +60 and protected against direct sunlight.	
Ambient humidity, operation	% RH	0-95% RH	
Shipment			
Filter frame (H x W x D)	mm	1880x1275x80	
Pre-filter (H x W x D)	mm	594x594x45	
Main filter (H x W x D)	mm	592x592x440	
Weight filter frame	g	15500	
Weight pre-filter	g	500	
Weight main filter	g	11000	

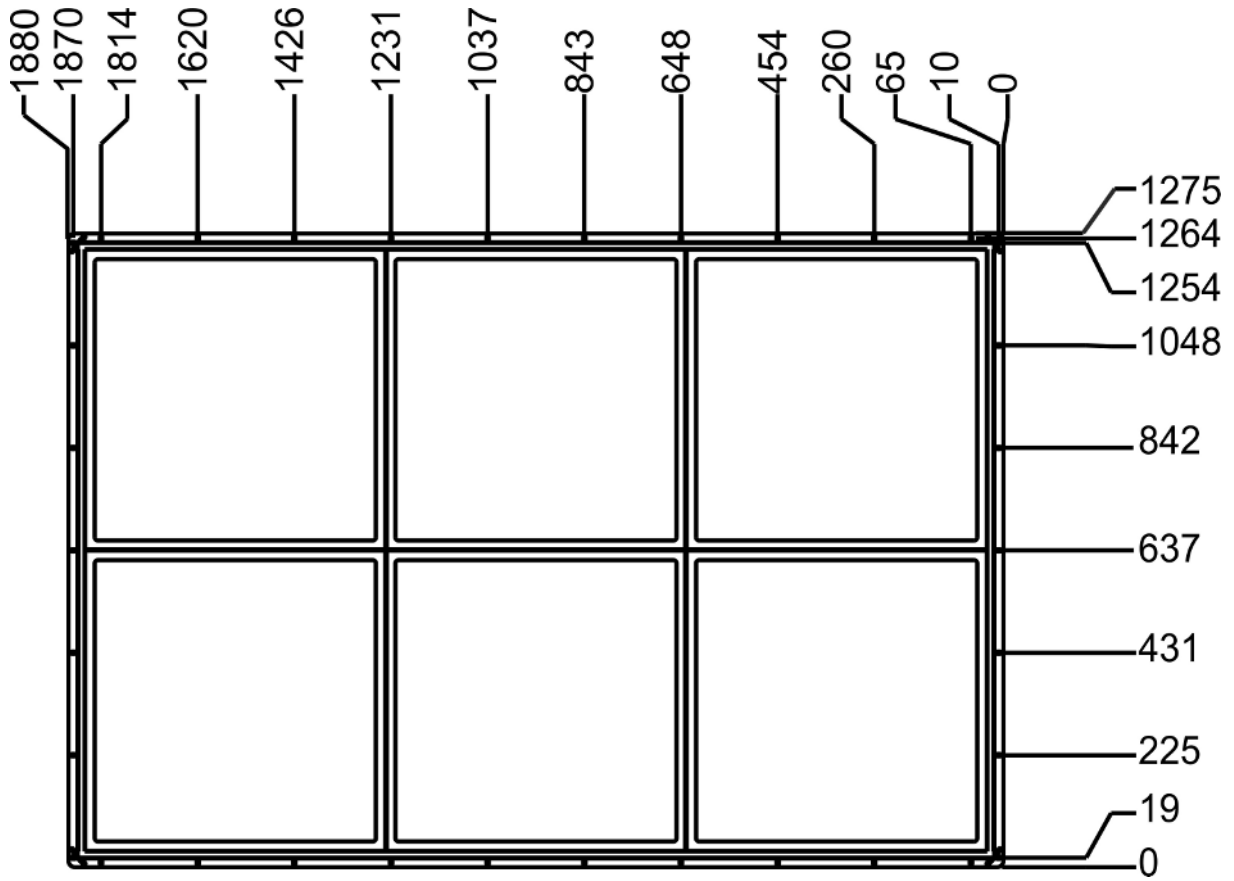
3.1 Dimensions

In mm.

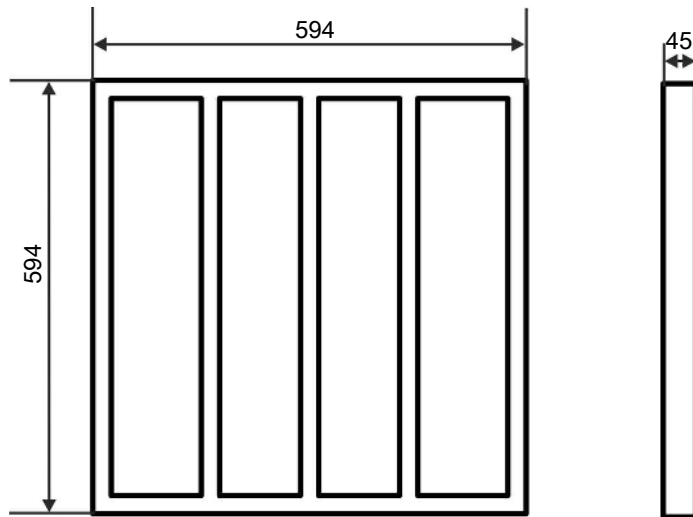
3.1.1 Filter frame vertical



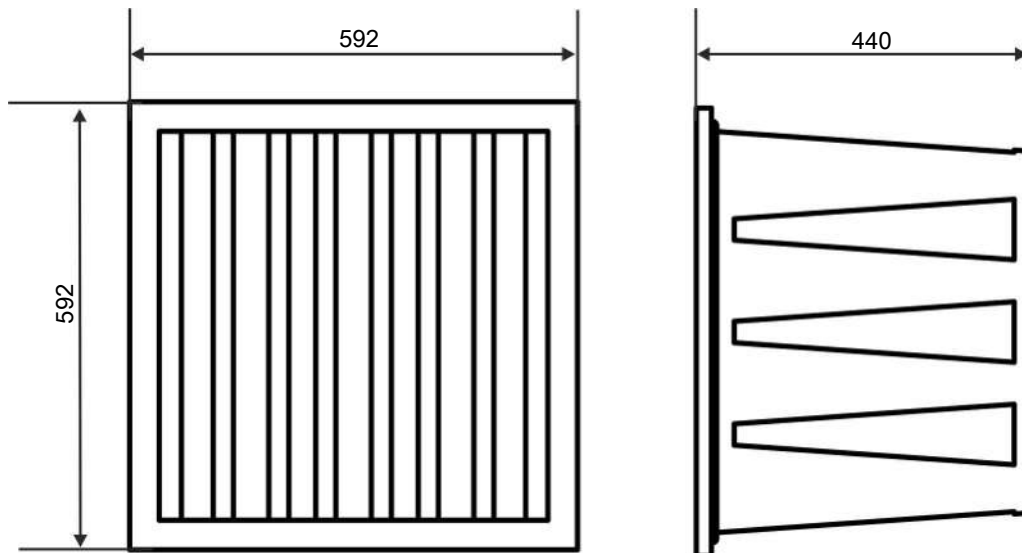
3.1.2 Filter frame horizontal



3.1.3 Prefilter



3.1.4 Main filter



SKOV A/S • Hedelund 4 • Glyngøre • DK-7870 Roslev
Tel. +45 72 17 55 55 • www.skov.com • E-mail: skov@skov.dk

