

## AH - AR

**SIGMA-BETA high efficiency filters for unidirectional flows**

Product	AH	AR
Efficiency* MPPS	-	> 85%
UNI EN 779 Class	F 9	-
CEN EN 1822 Class	-	H 10
Final/max. pressure drop	400/600 Pa	400/600 Pa
Max. operating temperature	70 °C	70 °C
Max. relative humidity	90 %	90 %

\*Global efficiency. Punctual efficiency has an allowed penetration 5 times higher.

AH-AR high efficiency and semi-absolute filters have mini pleats, are not very deep, and can be installed on exhaust grilles. AH-AR filters are produced in various sizes with air flow ranging from 66 to 2700 m<sup>3</sup>/h.

All the filters have an anodized extruded aluminium frame, 69 mm deep, with microdrawn white epoxy painted protective grids. The filtering medium is made of micro-fiber glass,

water-proof and fire resistant; the mini pleats have continuous thermal plastic spacers, the sealant is polyurethane elastomer. It has a one-piece gasket.

Thanks to the low pressure drop of the filters, the energy consumption level of the fan is very low. All filters carry a label indicating the performance levels.

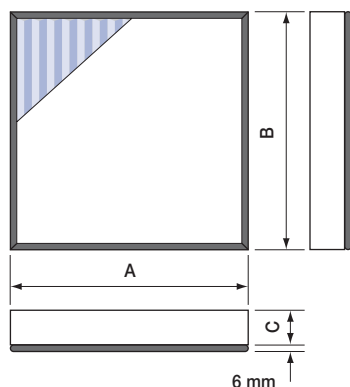
**Applications** The AH-AR filters are designed to be installed in environments with a controlled air contamination level. The various sizes allow for installation in any kind of plant.

**Installation** AH-AR filters can be installed in any position vertical or horizontal in appropriate frames. They are very light, and this makes them easy to install, thus reducing

Type	Sizes (mm)			Nominal air flow rate Q.		Filtering surface m <sup>2</sup>	Initial pressure drop Pa	
	A	B	C	m <sup>3</sup> /h	m <sup>3</sup> /sx10 <sup>-3</sup> *		AH	AR
AH - AR								
3	305	x 305	x 69	150	42	2,5	45	70
42	305	x 610	x 69	300	84	5	45	70
4	610	x 610	x 69	600	167	10	45	70
7	762	x 610	x 69	750	209	12	45	70
8	915	x 610	x 69	900	250	14	45	70
9	1219	x 610	x 69	1200	333	20	45	70

\*1 m<sup>3</sup>/s x 10<sup>-3</sup> = 1 l/s

### Size



### Typical curves

