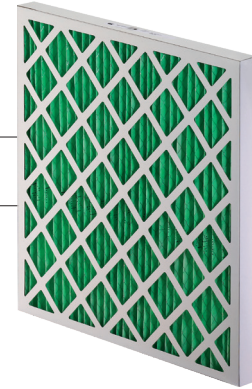


# AmAir 500

A STURDY PANEL FILTER FOR COMMERCIAL & INDUSTRIAL APPLICATIONS



## Features and Benefits

- High loft glass fibre pleated media
- Synthetic layer on air leaving side
- High dust holding capacity
- Classified M5 in accordance with EN779:2012
- Long service life

## Sturdy panel filter

AmAir® 500 is a sturdy panel filter with a high loft glass fibre pleated media with a synthetic layer on the air leaving side.

The pleated media is formed and contoured using a mesh support grid. This grid provides consistent pleat shaping and spacing, allowing dust to collect uniformly over the entire surface area of the filter media, a feature which ensures a more gradual rise in resistance, a high dust holding capacity and a long service life.

It also helps retain the media in place and contributes to the overall rigidity of the filter. To ensure a highly reliable and strong construction the filter media is housed in a sturdy die-cut or a metal frame.

The filter is ideal for use as a primary filter to prevent dust build-up on coils, fans and duct work or as a prefilter to prolong the service life of higher efficiency filters. AmAir 500 is classified M5 in accordance with EN779:2012.



# AmAir 500 Filter

## Technical Data

| Type  | 500 - 2"      | 500 - 4"      |
|---|---------------|---------------|
| Actual Depth (mm)                                 | 45            | 95            |
| Rated Face Velocity (m/s)                         | 1,5           | 2,7           |
| Average Arrestance <sup>1)</sup> (%)              | 98            | 98            |
| EN779 Classification                              | M5            | M5            |
| Energy class                                      | n/a           | n/a           |
| Rated Initial Resistance <sup>1)</sup> (Pa)       | 125 @ 1,5 m/s | 145 @ 2,7 m/s |
| Recomm. Final Resistance <sup>2)</sup> (Pa)       | 300           | 300           |
| Temperature Limits (°C)<br>(continuous operation) | 90            | 90            |

1) Width and height dimensions are interchangeable. Filters may be installed with the pleats in the vertical or horizontal position. The pleats are always parallel to the longest cell side unless explicitly specified otherwise.

2) Other sizes and air filters in 21 mm (1 inch nominal) depth are available upon request.

3) See Technical Data Table for filter depths.

## Standard Dimensions

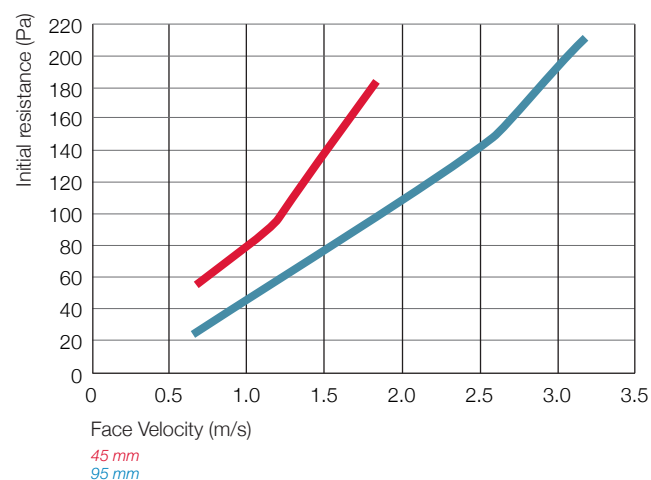
| Nominal Size <sup>1,3)</sup><br>(inches) W x H | Actual Size <sup>2,3)</sup><br>(mm) W x H | Airflow at 2,5 m/s<br>(m <sup>3</sup> /h) |
|--|---|---|
| 12 x 24  | 290 x 595                                 | 1700                                      |
| 16 x 20  | 392 x 494                                 | 1870                                      |
| 16 x 25  | 392 x 621                                 | 2380                                      |
| 20 x 20  | 494 x 494                                 | 2380                                      |
| 20 x 25  | 494 x 621                                 | 2975                                      |
| 24 x 18  | 595 x 445                                 | 2550                                      |
| 24 x 20  | 595 x 494                                 | 2850                                      |
| 24 x 24  | 595 x 595                                 | 3400                                      |
| 141/2 x 263/4                                  | 355 x 665                                 | 2260                                      |

## Product information

| Filter          | Part number  | Dimensions (mm)<br>W x H x D | Filter area (m <sup>2</sup> ) | Number of<br>pockets or V | Nominal airflow<br>(m <sup>3</sup> /h) | DHC acc. EN779<br>(g) | EN779:2012<br>Classification | Initial dp (Pa) | Energy Rating | ISO 16890<br>Classification | ePM1 (%) | ePM2,5 (%) | ePM10 (%) |
|-----------------|--------------|------------------------------|-------------------------------|---------------------------|--|-----------------------|------------------------------|-----------------|---------------|-----------------------------|----------|------------|-----------|
| AmAir<br>500 2" | 41-5100-4004 | 595 x 595 x 45               | 1,6                           | -                         | 2000                                   | 100                   | M5                           | 125             | -             | ePM10 70%                   | 20       | 35         | 74        |
| AmAir<br>500 4" | 42-5100-4001 | 595 x 595 x 95               | 2,4                           | -                         | 3400                                   | 75                    | M5                           | 145             | E             | ePM10 70%                   | 20       | 35         | 74        |

Further dimensions are available on request. Until December 31st 2017 filtration efficiency values are certified according to EN779. From January 1st 2018 filtration efficiency values are certified according to ISO 16890.

## Airflow Resistance



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