



# Type HD - Steel Type HS - Aluminum

*Permanent Metal Washable Filters*

- 1", 2" and 4" Thicknesses
- Rugged All Metal Construction
- Low Resistance
- Washable

## Designed for Tough Applications

Airguard permanent metal filters are suitable for use in very difficult operating conditions including high velocity (up to 900 FPM), high temperature, high moisture, corrosive environments, oil or grease laden air.

## Type HD - Steel

**Media** - The media consists of multiple layers of pleated and flat aluminum screen wire to provide an intricate maze of dirt catching surfaces. Multiple layers of media offer maximum filter surface area. Heavy gauge expanded metal grids on both sides protect the media and add rigidity to the filter construction.

**Frame** - The frame is made from a single piece of heavy gauge aluminum channel with mitered corners for extra strength. The frame is predrilled with holes to allow water to drain.

## Type HS - Aluminum

**Media** - The media consists of multiple layers of pleated and flat galvanized steel screen wire to provide an intricate maze of dirt catching surfaces. Multiple layers of media offer maximum filter surface area. Heavy gauge expanded metal grids on both sides protect the media and add rigidity to the filter construction.

**Frame** - The frame is made from a single piece of 24 gauge galvanized steel channel with mitered corners for extra strength. The frame is predrilled with holes to allow water to drain.



## Washable For Repeated Use

Permanent metal filters can be cleaned by flushing with a hose, washing in warm soapy water or steam cleaned. Allow filters to dry, then re-install. With proper care and handling, metal filters can provide years of dependable service.

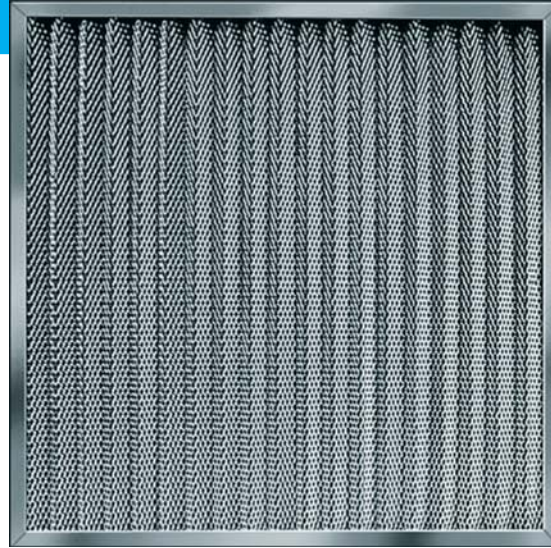
Both styles of filters are available with bail type lift handles.

# Type HD - Steel • Type HS - Aluminum

Permanent Metal Washable Filters

## Use Permanent Metal Filters Where Other Filters Won't Hold Up

- Very difficult operating conditions
- High velocity (up to 900 FPM)
- High temperature (up to 500° F)
- High moisture
- Rain / snow / sleet
- Corrosive environments
- Sparks
- Oil or grease
- Large, bulky contaminants



## Standard Sizes

Nominal Size (Inches)	Actual Size (Inches)	Rated Air Flow Capacity (CFM) 1" @ 300 FPM 2", 4" @ 500 FPM	Rated Initial Resistance (In. W.G.) 1" @ 300 FPM 2", 4" @ 500 FPM
12 x 24 x 1	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x <sup>3</sup> / <sub>4</sub>	600	.05"
16 x 20 x 1	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>4</sub>	670	.05"
16 x 25 x 1	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>4</sub>	840	.05"
20 x 20 x 1	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>4</sub>	840	.05"
20 x 25 x 1	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>4</sub>	1050	.05"
24 x 24 x 1	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x <sup>3</sup> / <sub>4</sub>	1200	.05"
12 x 24 x 2	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	1000	.18"
16 x 20 x 2	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1120	.18"
16 x 25 x 2	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1400	.18"
20 x 20 x 2	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1400	.18"
20 x 25 x 2	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1750	.18"
24 x 24 x 2	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	2000	.18"
12 x 24 x 4	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 3 <sup>3</sup> / <sub>4</sub>	1000	.24"
16 x 20 x 4	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 3 <sup>3</sup> / <sub>4</sub>	1120	.24"
16 x 25 x 4	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 3 <sup>3</sup> / <sub>4</sub>	1400	.24"
20 x 20 x 4	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 3 <sup>3</sup> / <sub>4</sub>	1400	.24"
20 x 25 x 4	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 3 <sup>3</sup> / <sub>4</sub>	1750	.24"
24 x 24 x 4	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 3 <sup>3</sup> / <sub>4</sub>	2000	.24"

## Arrestance:

1"	2"	4"
60 - 65%	65 - 70%	70 - 75%

**Performance:** Based on ASHRAE Standard 52.1 -1992. Tolerances conform to ARI Standard 850-93  
**Underwriters Laboratories Classification:** Type HD and HS filters are U.L. Standard 900  
**Continuous Operating Temperature Limit:** 500° F (260° C)

A-PERMMETAL-408



[www.airguard.com](http://www.airguard.com)



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