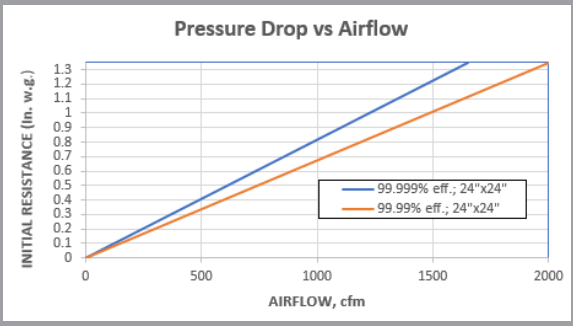
XH Absolute®

High Efficiency HEPA Filter

Tapered separators allow increased media area for energy savings or more airflow in air-starved systems



Camfil's high-capacity Absolute filters are manufactured from the highest quality components, under demanding quality control conditions, and are certified to ensure performance in the most critical of applications.

The XH is your choice for HEPA level air filtration in applications where ultra-clean air, increased airflow capacity and energy-savings are critical. Each XH Absolute includes:

- A galvanized 16-gauge steel frame to create a durable, dimensionally stable corrosion-resistant enclosure.
- X-Body frame that is assembled without the use of penetrating fasteners to ensure leak- free performance throughout the life of the filter.
- Our unique urethane potting process completely encapsulates the filter pack within the enclosing frame.
- Safe-edged tapered corrugated aluminum separators (allowing up to 88% more media area than standard HEPA filters) to ensure uniform airflow and stability throughout the pack. The edges of the separators are hemmed for added strength and to protect the media from damage during manufacture, shipping and installation.
- Micro glass fiber media to provide efficiencies from 99.97% @ 0.3µm to 99.999% @ 0.3µm. The media is highly resistant to moisture in high humidity environments.
- A one-piece seamless urethane gasket to ensure a leak-free filter to frame seal. A neoprene dove-tailed juncture gasket and a gel seal are also available.
- Every Camfil Absolute filter meets IEST-RP-CC001 performance levels.

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Performance Data

Model	Efficiency	Nominal Size (inches)	Airflow @ 1.35" w.g.	Media Area (sq. ft.)	Shipping Weight (lbs)
01XH-12Z12Z12- ** -3-C-A-00-0/00	99.97% @ 0.3µm EST Type A	12 x 12 x 11.50	430	67.5	23.6
01XH-23F11F12- **-3-C-A-00-0/00		23.38 x 11.38 x 11.50	850	134.6	30.8
01XH-24Z12Z12- ** -3-C-A-00-0/00		24 x 12 x 11.50	930	145.5	32
01XH-11F23F12- ** -3-C-A-00-0/00		11.38 x 23.38 x 11.5	850	134.6	34.7
01XH-12Z24Z12- ** -3-C-A-00-0/00		12 x 24 x 11.50	930	145.5	35.6
01XH-23F23F12- ** -3-C-A-00-0/00		23.38 x 23.38 x 11.50	1890	287.5	47.5
01XH-24Z24Z12- ** -3-C-A-00-0/00		24 x 24 x 11.50	2000	301	48.5
12XH-12Z12Z12- ** -3-C-A-00-0/00	99.99% @ 0.3µm EST Type C	12 x 12 x 11.50	430	67.5	23.6
12XH-23F11F12- **-3-C-A-00-0/00		23.38 x 11.38 x 11.50	850	134.6	30.8
12XH-24Z12Z12- ** -3-C-A-00-0/00		24 x 12 x 11.50	930	145.5	32
12XH-11F23F12- ** -3-C-A-00-0/00		11.38 x 23.38 x 11.5	850	134.6	34.7
12XH-12Z24Z12- ** -3-C-A-00-0/00		12 x 24 x 11.50	930	145.5	35.6
12XH-23F23F12- ** -3-C-A-00-0/00		23.38 x 23.38 x 11.50	1890	287.5	47.5
12XH-24Z24Z12- ** -3-C-A-00-0/00		24 x 24 x 11.50	2000	301	48.5
13XH-12Z12Z12- ** -3-C-A-00-0/00	99.999% @ 0.3µm IEST Type D	12 x 12 x 11.50	350	67.5	23.6
13XH-23F11F12- **-3-C-A-00-0/00		23.38 x 11.38 x 11.50	700	134.6	30.8
13XH-24Z12Z12- ** -3-C-A-00-0/00		24 x 12 x 11.50	770	145.5	32
13XH-11F23F12- ** -3-C-A-00-0/00		11.38 x 23.38 x 11.50	700	134.6	34.7
13XH-12Z24Z12- ** -3-C-A-00-0/00		12 x 24 x 11.50	770	145.5	35.6
13XH-23F23F12- ** -3-C-A-00-0/00		23,38 x 23.38 x 11.50	1550	287.5	47.5
13XH-24Z24Z12- ** -3-C-A-00-0/00		24 x 24 x 11.50	1650	301	48.5

DATA NOTES:
Maximum operating temperature 175° F (80° C). If neoprene gasket is used temperature limitation is 200° F (93° C).
The Camfil Absolute XH is listed by Underwriters Laboratories as UL 900 and UL 586. IEST=Institute of Environmental Sciences & Technology.
Replace ** in model number with 00 for no gasket, 1D for one gasket downstream, 1U for one gasket upstream, or 1B for a gasket on both sides.
Custom sizes available. Call customer service for gel gasket availability.

1.0 General

1.1 - Air filters shall be HEPA grade high-capacity air filters with waterproof micro glass fiber media, tapered corrugated aluminum separators, urethane sealant, 16-gauge steel enclosing frame, and (peel-and-stick neoprene sealing gasket, polyurethane seamless gasket, or gel seal)*.

1.2 - Sizes shall be as noted on drawings or other supporting materials.

2.0 Construction

2.1 - Filter media shall be one continuous pleating of micro-glass fiber media.

2.2 - Pleats shall be uniformly separated by tapered corrugated aluminum separators incorporating a hemmed edge to prevent damage to the media.

2.3 - The media pack shall be potted into the enclosing frame through the use of a urethane sealant.

2.4 - The enclosing frame of 16-gauge steel with a zinc aluminum alloy finish, shall be bonded to the media pack to form a rugged and durable enclosure. The filter shall be assembled without the use of fasteners to assure no frame penetrations. Overall dimensional tolerance shall be correct within -1/8", +0", and square within 1/8".

2.5 - A (poured-in-place seamless polyurethane gasket, dovetail-cornered peel-and-stick neoprene gasket or gel seal) shall be included on the downstream side of the enclosing frame to form a positive seal upon installation.

3.0 Performance

3.1 - The filter shall have a tested efficiency of (99.97%, 99.99%, 99.999%)* as defined by IEST RP-CC001.

3.2 - Initial resistance to airflow shall not exceed 1.35" w.g. +/-10% at rated capacity.

3.3 - Filter shall be rated by Underwriters Laboratories as UL- 900 and UL-586.

3.4 - The filter shall be capable of withstanding 10" w.g. without failure of the media pack.

3.5 - Manufacturer shall provide evidence of facility certification to ISO 9001:2015.

Supporting Data - The filter shall be labeled as to tested efficiency, rated/tested airflow, pressure drop and shall be serialized for identification.

Filters shall be Camfil XH Series Absolute or equal.
* Items in parentheses ( ) require selection.

camfil ISO 9001:2015 Certified Quality System

For detailed specifications, please consult your local Camfil distributor, representative or XH Absolute. Camfil has a policy of uninterrupted research, development and product improvement. We reserve the right to change designs and specifications without notice.

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