



Durafil[®] Compac Box

High Efficiency, High Capacity, 6-Inch Deep V-bank Air Filter in a Box Design



The Durafil Compac Box is the first high performance 6-inch V-bank air filter box ever to be developed. The Compac delivers the optimal benefits of a "V" filter design previously unavailable for units with restricted space.

The Compac allows for easier handling, shorter installation times, requires less storage space and comes with a 40% weight reduction when compared to traditional 12-inch deep V-bank filters.

The Durafil Compac Box is available in three standard efficiencies:

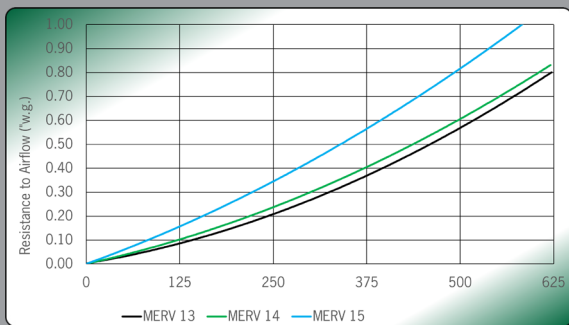
- ASHRAE Standard 52.2 Appendix J ISO Standard 16890

MERV 13/MERV-A 13A	ePM ₁ -60%
MERV 14/MERV-A 14A	ePM ₁ -70%
MERV 15/MERV-A 15A	ePM ₁ -80%

The Durafil Compac Box includes:

- Proprietary air filtration media, available only to Camfil, provides sustained mechanical efficiency throughout the filter's usable life.
- Newly designed high density pleat formation providing 20% more media surface area than traditional mini pleat filters.
- Exceptional service life and reduced energy cost when compared to traditional 12-inch deep V-bank filters.
- Single piece injection molded front plate for reduced bypass.
- Enclosed in a frame of corrosion-resistant galvanized steel.
- Includes all-metal diagonal support braces to ensure filter rigidity and media pack protection.
- Integrated plenum that reduces combined resistance when installed with a face mounted prefilter.
- Ability to carry four filters at a time, two in each hand, using unique interlocking box handles as opposed to only one traditional 12-inch V-bank box at a time.
- An overall footprint reduction of nearly 50% when compared to traditional 12-inch rigid box or V-bank filters.
- Availability in 4 sizes each with a guarantee up to 10" w.g.
- An ECI value of 4 stars.

Initial Resistance Versus Airflow Chart



This chart shows the initial resistance of the Durafil Compac Box at a given airflow velocity for each efficiency rating.

¹ A four-star rating indicates that this filter performs in the top 40% of all products of similar construction in the HVAC industry. Factors of consideration include maintained efficiency, energy usage and resistance to air flow. Detailed evaluation information is available from your Camfil sales outlet or on the web at www.camfil.com.

Performance Data

Efficiency ASHRAE 52.2 / J ISO16890	Part Number	Description	Nominal Size (inches, H x W)	Actual Height (inches)	Actual Width (inches)	Actual Depth	Initial Resistance (inches, w.g.)	Airflow (cfm)
MERV 13/13A ISO ePM ₁ -60%	855086111	DU6-2424-MV13-B	24 x 24	23.37	23.37	5.88"	0.56"	2000
	855086112	DU6-2024-MV13-B	20 x 24	19.37	23.37	5.88"		1660
	855086113	DU6-1224-MV13-B	12 x 24	12.37	23.37	5.88"		1000
	855086114	DU6-2020-MV13-B	20 x 20	20.37	19.37	5.88"		1380
MERV 14/14A ISO ePM ₁ -70%	855086121	DU6-2424-MV14-B	24 x 24	23.37	23.37	5.88"	0.61"	2000
	855086122	DU6-2024-MV14-B	20 x 24	19.37	23.37	5.88"		1660
	855086123	DU6-1224-MV14-B	12 x 24	12.37	23.37	5.88"		1000
	855086124	DU6-2020-MV14-B	20 x 20	20.37	19.37	5.88"		1380
MERV 15/15A ISO ePM ₁ -80%	855086131	DU6-2424-MV15-B	24 x 24	23.37	23.37	5.88"	0.82"	2000
	855086132	DU6-2024-MV15-B	20 x 24	19.37	23.37	5.88"		1660
	855086133	DU6-1224-MV15-B	12 x 24	12.37	23.37	5.88"		1000
	855086134	DU6-2020-MV15-B	20 x 20	20.37	19.37	5.88"		1380

DATA NOTES: The Durafil Compac Box is listed UL 900 by Underwriters Laboratories. Maximum continuous operating temperature 175° F. (79° C.), relative humidity 99%. Performance tolerance in accordance with ARI Standard 850. Airflow may be in either direction. May operate up to 600 fpm without consulting factory. Schedule air filters for change when initial pressure drop has doubled. Clips to hold prefilter to face: 2" = C-84-2 4" = C-84-4 Final pressure drop should not exceed 1.50" w.g. U.S. Patent No. 6,447,566

Specifications

1.0 General

- 1.1 - Air filters shall be six-inch deep V-bank mini-pleat fiberglass disposable type with pleat separators, polyurethane pack-to-frame sealant, ABS enclosing frame and have an ECI value of 4-Stars.
- 1.2 - Sizes shall be as noted on drawings or other supporting materials.

2.0 Construction

- 2.1 - Filter media shall be of micro fine glass fibers, separated at 25mm intervals to ensure pleat separation and uniform airflow through the filter pack.
- 2.2 - Pleated media packs shall be assembled into a V-bank configuration with sufficient total media area to meet airflow requirements.
- 2.3 - The media packs shall be bonded to the inside periphery of an ABS enclosing frame with a polyurethane sealant. The enclosing frame shall include top and bottom molded tracks as in integral part of the frame to ensure a proper seal.
- 2.4 - Media packs shall be recessed at least 3/8" from the air entering side of the enclosing frame to allow uniform airflow when a prefilter is mounted directly to the enclosing frame. The frame shall include integral locations for the attachment of prefilter fasteners.
- 2.5 - Rigid plastic end caps shall be mechanically fastened to the top and bottom of the media pack enclosing structure to ensure a rigid and durable filter.
- 2.6 - The enclosing frame shall be constructed of corrosion resistant galvanized steel.

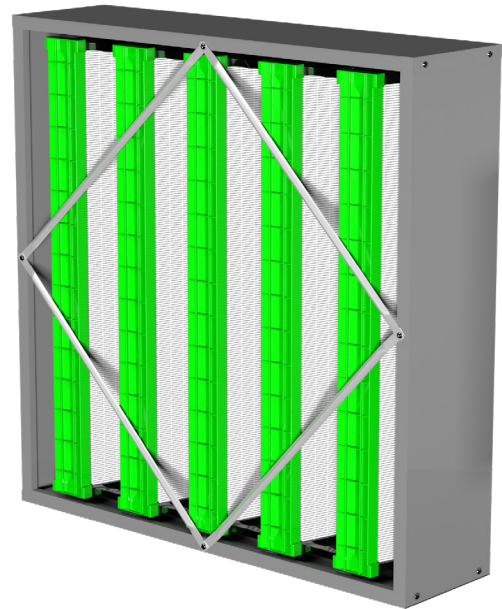
3.0 Performance

- 3.1 - The filter shall have a Minimum Efficiency Reporting Value of MERV (13, 14 or 15) when evaluated under the guidelines of ASHRAE Standard 52.2. It shall also have a MERV-A rating of (13A, 14A or 15A) when evaluated under ASHRAE Standard 52.2, Appendix J. When evaluated under ISO Standard 16890 the filter shall have efficiency of (ePM₁-60%, ePM₁- 70% or ePM₁- 80%).*
- 3.2 - Initial resistance to airflow shall be rated at (0.47", 0.50" or 0.69") inches w.g. at an airflow of 500 fpm.
- 3.3 - The filter efficiency shall be listed on the filter. The filter shall be listed UL 900 by Underwriters Laboratories.
- 3.4 - The filter shall be capable of withstanding 10.0" w.g. without failure of the media pack.
- 3.5 - Manufacturer shall provide evidence of facility certification to ISO 9001:2015.
- 3.6 - Filter shall have a 4-Star rating when evaluated per Energy Cost Index (ECI).

Supporting Data - Provide product test reports for each listed efficiency listed in the schedule including all details as prescribed in ASHRAE Standards 52.2 including Appendix J and ISO Standard 16890.

Filters shall be Camfil Durafil Compac Box 6-Inch filter or equal.

Items in parentheses () require selection. * Select text related to appropriate filter testing standard.



Downstream View with supporting braces