



# Durafil<sup>®</sup> ES<sup>3</sup>

High-Performance, Best-in-Class, V-Bank Filter for Reducing Total Energy Consumption

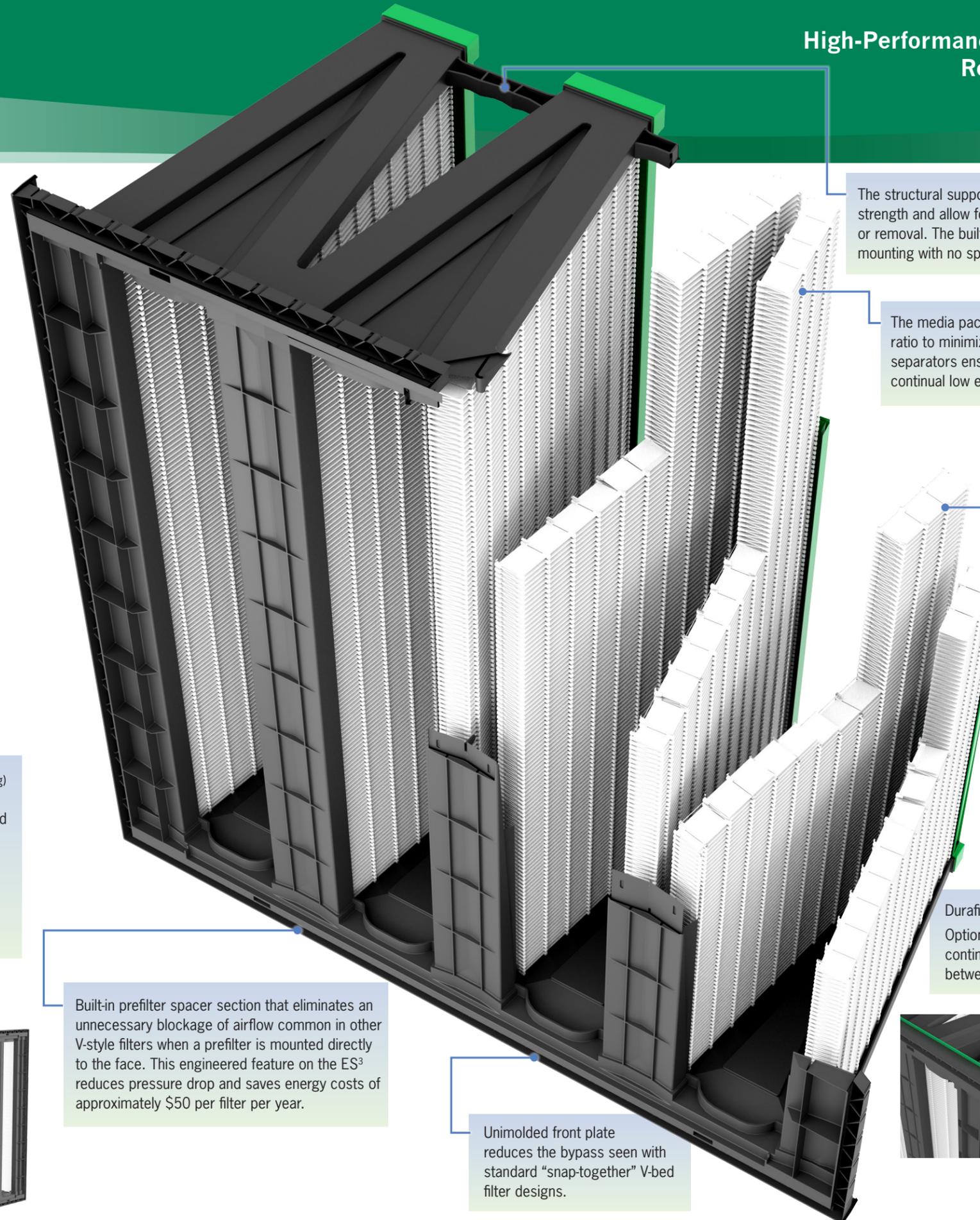
Radically Different  
**AGAIN!**



CLEAN AIR SOLUTIONS

### Outperforms All Others

The latest release of the Durafil ES<sup>3</sup> (Energy Saver) has taken energy optimization in air filtration to a new level. The Durafil ES<sup>3</sup> reduces the cost of ownership over competitive 4V products by more than 35%, which equates to over \$370 in savings for the lifetime of each filter. Camfil understands 80% of the cost for air filtration is the electric energy used by the fan to move air through the filter and system. Camfil designed the Durafil ES<sup>3</sup> to have an optimum contaminant loading curve, low initial and maintained resistance to airflow, while ensuring unwavering particle capture efficiency to protect building occupants and processes from contaminants. The Durafil ES<sup>3</sup> takes high performance to a new level. We guarantee it.



The structural supports incorporated into the frame add strength and allow for ease of handling during installation or removal. The built-in notches accommodate reverse mounting with no special hardware.

The media packs utilize height-to-pleat spacing ratio to minimize pressure drop. The pleat separators ensure pleat stability to provide continual low energy usage performance.

The Durafil ES<sup>3</sup> consumes over 35% less energy, over three years, when compared to your typical V-bed or rigid box filter of the same rated efficiency. This equates to over \$100 in energy savings per year of operation.

**ENERGY COST INDEX** 5-Star ECI Rating

The Durafil ES<sup>3</sup> is rated as a 5-Star filter through the Energy Cost Index (ECI) program. Based on a five-star scale, the Energy Cost Index is an indicator of what a filter will cost over its lifetime. The best rating – five stars – indicates that the filter is the most energy-efficient, longest-lasting filter available.

1 - Calculations based upon full-size MERV 14 product. Contact your local distributor for savings calculations on other efficiencies.



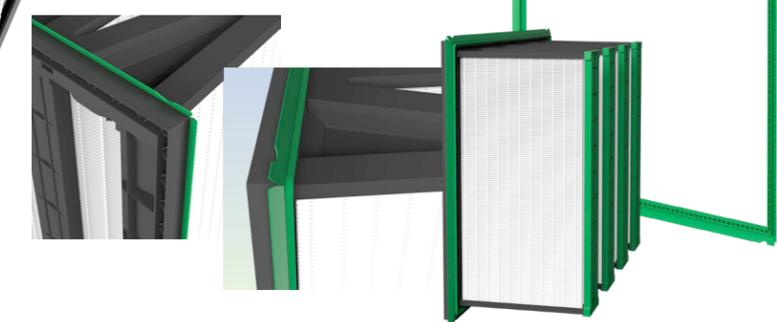
Durafil ES<sup>3</sup> Box Kit (Patent Pending)  
Reusable box frame eliminates 40 lbs. of waste when compared to a traditional metal box filter. The easy field-assembled box design ensures:

- less waste
- easy reorder
- easy replacement

Built-in prefilter spacer section that eliminates an unnecessary blockage of airflow common in other V-style filters when a prefilter is mounted directly to the face. This engineered feature on the ES<sup>3</sup> reduces pressure drop and saves energy costs of approximately \$50 per filter per year.

Unimolded front plate reduces the bypass seen with standard "snap-together" V-bed filter designs.

Durafil Replaceable Gasket (Patent Pending)  
Optional gasket track provides 360° of continuous sealing to reduce bypass between filter and holding frame.



## How the Durafil ES<sup>3</sup> Compares Over 3 Years

ES<sup>3</sup> vs. Competitors'  
Final Air Filters

	Durafil ES <sup>3</sup>	Hi-Flo ES 22"	Durafil Compac	Typical Glass V-Bank	Typical Glass Aluminum Separator Box	Typical Synthetic 8-Pocket Filter	Typical Synthetic Rigid Box	Typical 4" Synthetic Minipleat
Prefilter	30/30 Dual 9	30/30 Dual 9	30/30 Dual 9	30/30 Dual 9	30/30 Dual 9	30/30 Dual 9	30/30 Dual 9	30/30 Dual 9
Filter Life (months)	<b>36</b>	18	18	36	12	12	12	4
3-Year Energy Cost	<b>\$629</b>	\$809	\$970	\$1,163	\$1,242	\$1,050	\$982	\$1,405
Number of Filters Required	<b>1</b>	2	1.5	1	3	3	3	6
Additional Energy Cost	<b>\$0</b>	\$180	\$341	\$534	\$613	\$421	\$353	\$776
Average dP over Filter Life (inches w.g.)	<b>0.42</b>	0.55	0.65	0.78	0.84	0.71	0.66	0.95
Percent (%) Energy Savings Using Durafil ES <sup>3</sup>	<b>Best Value</b>	22%	35%	46%	49%	40%	36%	55%

Parameters: All solutions are MERV 14 efficiency with a 2" MERV 9 prefilter upstream. Simulated conditions are: 2000 CFM, 8760 operating hours/year, 70% return air, 50% fan efficiency and \$0.12/kWh.

## The GREENest Final Filter Available

### Energy Savings

The Durafil ES<sup>3</sup> is a 5-Star energy-rated product and uses over 35% less energy than your typical V-bank filter. Refer to the above chart for possible energy savings for your system(s) based on the type(s) of products you are currently using.

### Air Quality

The Durafil ES<sup>3</sup> uses a proprietary micro-fiber media designed to save energy and maintain the highest particle removal efficiency to ensure clean air is delivered to the facility for the filter's entire service life.

### Waste Reduction

Under normal conditions, the filter life exceeds three years or three times as long as a competitor's traditional rigid box filter or bag filter. In a 48,000 CFM unit over a three-year period, this translates into 48 less filters disposed of (800 lbs. of waste), 48 less cartons used, fuel and greenhouse gas emissions reduced due to less filters in transit from factory to end user.

### Environmental Impact

A longer-lasting, energy-frugal filter saves users money in energy and labor. The user also reduces carbon footprint in every step of the ownership cycle. Fewer filters used means less trees used for boxes, less paperwork when ordering and invoicing, less fuel used for transportation, storage and disposal.

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