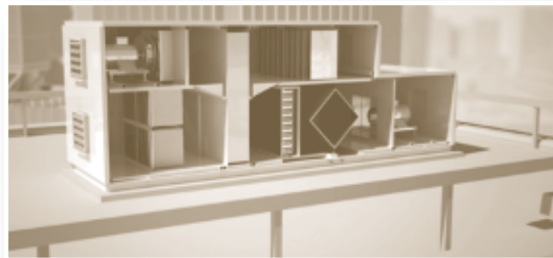


RETROFIT HVAC SYSTEMS

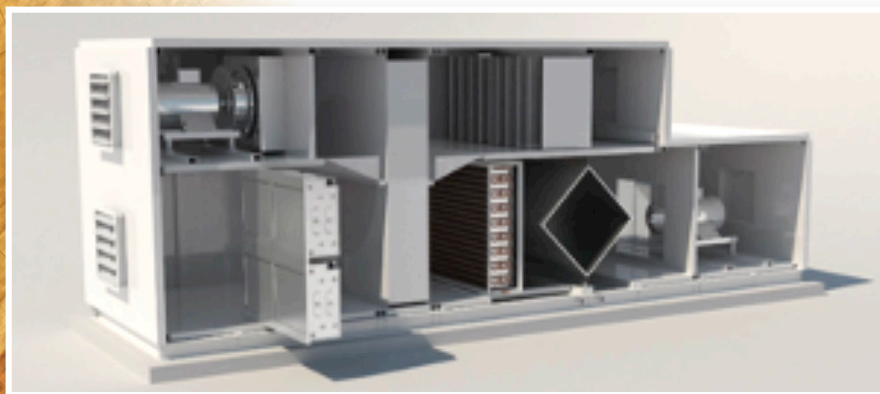
Past

Standard Mechanical Filter



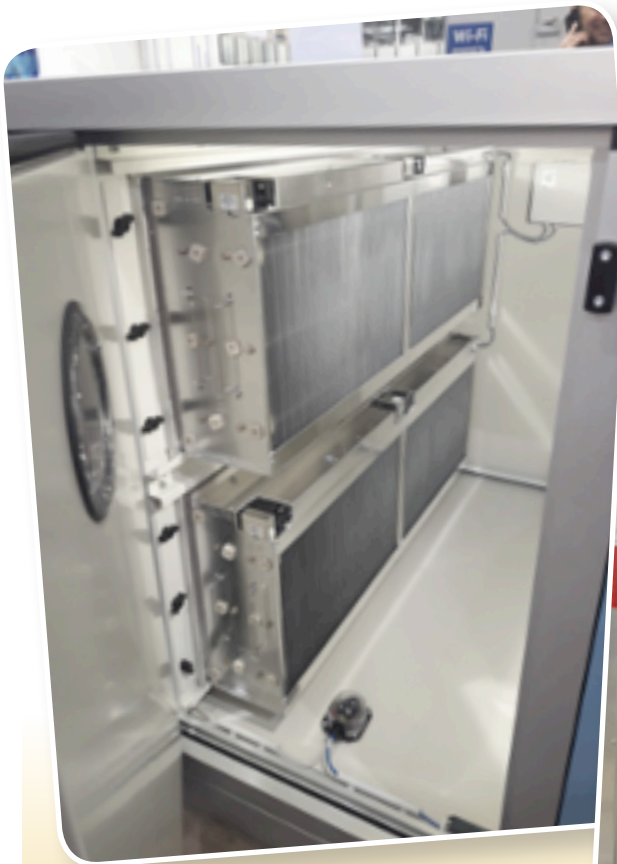
Present & Future

ACTIVE ELECTRONIC FILTER FE SYSTEM



The replacement of mechanical filters with **Expansion Electronic's** active electronic filters **FE SYSTEM** ensures **high and constant energy saving** estimated at over 30% per year.

The implementation of active electronic filters is the simplest way to **increase, improve the performance and efficiency** of HVAC systems.



The HVAC systems can account for up to **40% of the building's energy consumption**. The use of an obsolete filtration system will be far from optimisation in terms of efficiency and performance.

ADVANTAGES

IMPLEMENTATION OF ACTIVE ELECTRONIC FILTERS FE SYSTEM

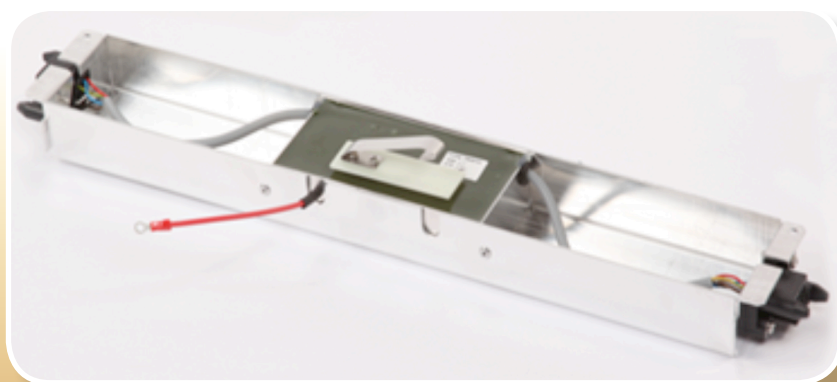


The requalification of HVAC systems with FE SYSTEM active electronic filters can be performed in a few days, minimizing interruptions and inconvenience. FE SYSTEM filters are a universal solution that can be retrofitted to any HVAC system, regardless of brand, age or size.



In fact, they have the **same standard ASHRAE (EN 15805) dimensions** as traditional mechanical filters and can be installed on existing sliding frames, greatly simplifying installation operations. Expansion Electronic manufactures both frontal and sliding filters' support frames in case their replacement is necessary.

FE SYSTEM active electronic filters manufactured by Expansion Electronic have been patented with **on board electronic circuit** to simplify and minimize not only the mechanical but also the electrical installation. The electronic circuit on board allows **to connect the filters in series** through multipolar connectors. It is completely resin coated and **waterproof**. It is not necessary to remove it during maintenance operations (simple washing of the filter with water and detergent).



Each circuit is equipped with a **signal LED** which communicates the operating status of the filters in real time; the **signal** can be sent to external management systems such as **PLC or BMS**.

NEEDED INFORMATION FOR A CORRECT SELECTION OF FE SYSTEM FILTERS FOR RETROFIT:

- Quantity of mechanical filters installed in the HVAC system
- Arrangement of mechanical filters (number of rows and number of filters for each row)
- Dimensions of mechanical filters
- Type of mechanical filter support frames (sliding or frontal)
- Presence or absence of class G2/G4 prefilters
- Airflow of the HVAC system in m³/h
- Filtering section internal dimensions in mm
- Efficiency requested



TODAY IS THE FUTURE!

RETROFIT with FE SYSTEM active electronic filters manufactured by Expansion Electronic is the key to make the **building efficient** through the **reduction of CO2 emissions, energy saving and healthy** through **clean energy with the constant goal of a ZERO impact on the environment** that surrounds us.



Expansion Electronic is an European market leader in the production of active electronic filters with **high energy efficiency and low environmental impact**. Every day we commit to offer our customers **high quality and first class performance** backed by over 40 years of experience in the air filtration industry.



BETTER AIR FOR A BETTER QUALITY OF LIFE

EXPANSION ELECTRONIC SRL

Via delle Industrie, 18

36050 Cartigliano (VI) · ITALY

T +39 0424 592400 · +39 0424 827058

F +39 0424 827061

www.expansion-electronic.com

info@expansion-electronic.com