


SELF-CONTAINED ACTIVE FILTER FAN UNITS

AN ACTIVE FILTER FAN UNIT (FFU) IS DESIGNED FOR EFFICIENT CLEANING
OF THE AIR FROM AEROSOL CONTAMINATION



External control panel (CP)
with touchscreen 



*In standard configuration FFU is
equipped with laminarization screen.
If necessary laminarization screen
can be replaced with airflow baffles.*

FFU is controlled via touchscreen.

IT IS POSSIBLE TO SIMULTANEOUSLY CONNECT AND DISPLAY ON THE SCREEN UP TO 16 FFU.
At the same time, it is possible to control the entire group as a single system, or any of the FFU separately.
Capacity adjustment is possible only for FFU with control panel and in the range specified by the manufacturer.
Filter modules can be grouped to form laminar flow fields.

APPLICATION:

The filter fan unit ensures a higher cleanliness class in a room of installation by recirculation and highly efficient filtration of the air.

A filter module equipped with a laminarization screen creates uniform laminar airflow and can be mounted over the critical areas that require high level of air cleanliness to be maintained.

A filter module equipped with airflow baffles* creates even distribution of the clean air across the whole room.

CONFIGURATION OF A SELF-CONTAINED FILTER FAN UNIT:






1. Two fans with EC-motors (electronically commutated motor).
2. Preliminary filter G4.
3. HEPA filter H14
4. Automatic control system ensuring the maintenance of constant airflow velocity, switching on and off of filter module and its lighting*, control of the operation mode indicators and commutation with touchscreen (for models with external control panel).
5. Light indicators showing operation modes of the filter module and alarm situations (filter clogging).
6. Aerosol inlets and air sampling outlets for HEPA filter integrity testing.
7. Laminarization screen made of polymer mesh or airflow baffles*.
8. Multipurpose fixing brackets for ceiling mounting and attaching the filter fan units one to another.

* ADDITIONAL OPTIONS:

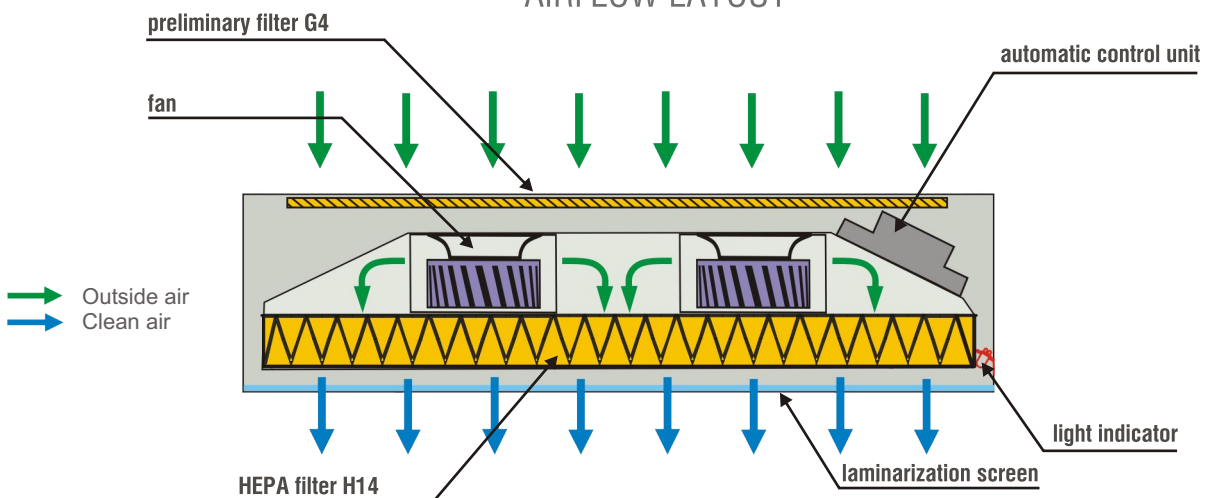
- LED lighting (only for filter fan units with laminarization screen).
- Airflow baffles.

Specifications of active FFU:

Number of filtration stages.....	2 (G4-H14)
Class of preliminary filter as per EN 779.....	G4
Class of the final HEPA filter as per EN 1822-1.....	H14
Air supply method.....	100% from the FFU installation room
Maximum input power, W.....	340
Time of continuous operation, h.....	unlimited
Service life, not less than, h.....	4

Frame configuration	Frame made of powder-coated steel				Frame made of stainless steel			
	2E-R.934-00	2E-R.934-10	2E-R.134-00	2E-R.134-10	2E-R.934-01	2E-R.934-11	2E-R.134-01	2E-R.134-11
Articles								
With external control panel 	-		-		-		-	
Dimensions of the frame (WxDxH),mm	1200x600x315		1000x600x315		1200x600x315		1000x600x315	
Maximum weight, kg	38		32		38		32	
Average outflow velocity of the filter fan unit at a 150 mm distance from the surface of the laminarization screen (the value is preset at the manufacturing site), m/s	0,40		0,40		0,40		0,40	
Range of possible adjustment of outflow velocity of the filter fan unit at a 150 mm distance from the surface of the laminarization screen, m/s	-	0,36-0,50	-	0,36-0,50	-	0,36-0,50	-	0,36-0,50
Clean air capacity preset at the manufacturing site, m³/h	935		864		935		864	
Range of possible adjustment of clean air capacity, m³/h	-	841-1169	-	777-1080	-	841-1169	-	777-1080

AIRFLOW LAYOUT



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 Manufacturer reserves its right to change technical specification and configuration of the equipment in the course of its further development.