AIR-10-ML

FILTER FAN UNITS

Galvani®
Clean technology

MADE IN ITALY

KEY POINTS

Monobloc Unit

Lightweight: the box and fan are entirely made from aluminium

Very quiet running

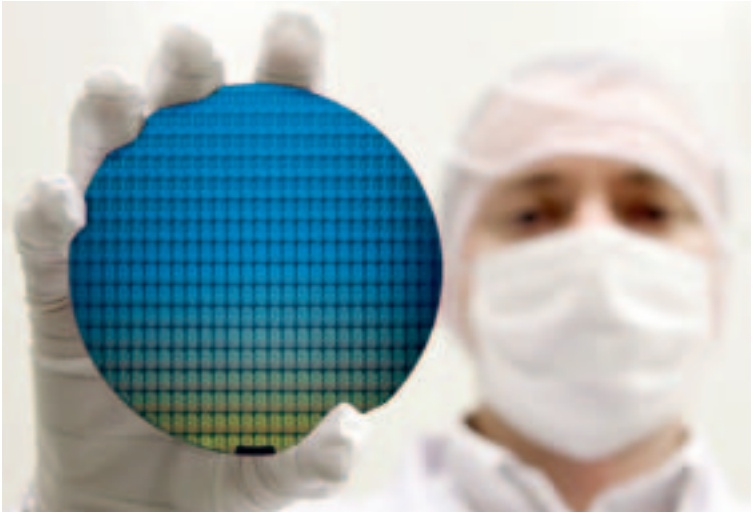
Low energy consumption

Maintenance free

Independent filter fan unit, designed for the construction of Cleanroom and Laminar Airflow Systems: the special mechanical configuration and the innovative clamping system for the absolute filter, create a unit that has all the advantages of simple installation given by a monobloc unit and those given by separate systems, where the absolute filter can be changed without having to touch the fan unit.
It can be directly hung from the ceiling using the M6 corner supports, or built into the Cleanroom system Grid -Ht, which has been specially designed to contain complex filter fan units: the “GRID-HT” makes it easy to install and remove the units inside the Cleanroom for servicing.

APPLIANCES

Cleanrooms and Laminar Airflow Systems for the Microelectronic, Electronic, Optical, Mechanical, Aerospace, Pharmaceutical, Medical industries and Hospitals.



COMPONENTS' DESCRIPTION

- **Container box**: in anodised aluminium plate, suitable bent and stiffened to create a strong and rigid structure.
- **Sound absorbent panels** in Cl. M0 mineral wool, covered with protective fabric to prevent any polluting particles being given off.
- **Radial electric fan**, with an EC electric motor, coupled directly to an aluminium rotor with inverted blades.
- **EC Controller** built into the fan to action, control and regulate it.
- **Absolute filter** with low pressure drop, H14, U15 or U16 Class, in accordance to EN1882:2009, frame thickness 66 mm, 90 mm or 110 mm.

OPTIONAL ACCESSORIES

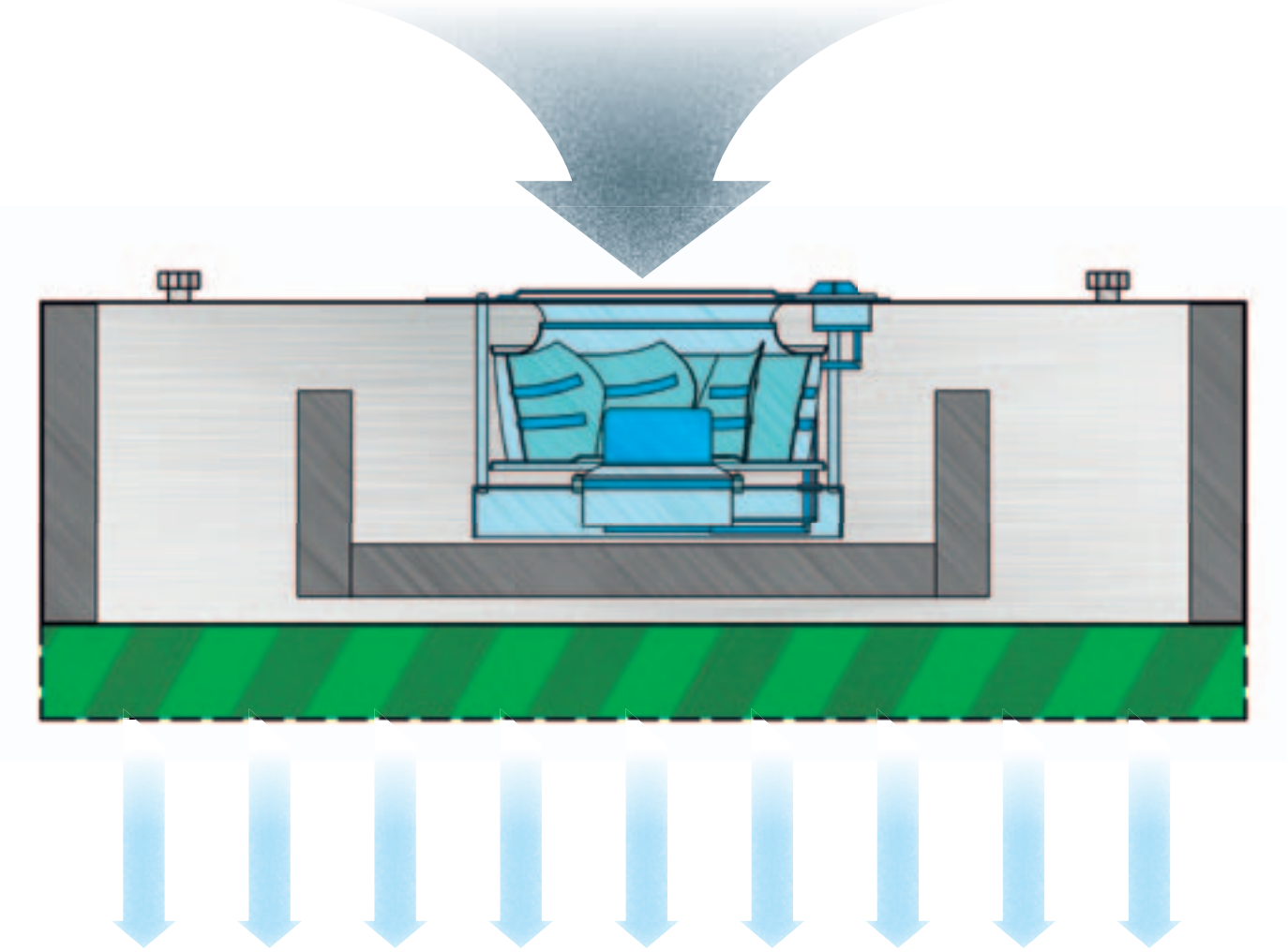
- **Panel prefilter**, G4 class, in accordance to EN779:2012, fitted into an appropriate anodized aluminium housing.
- **Heat exchanger** in copper/ aluminium, max. capacity 4kW, fitted into an appropriate anodized aluminium housing.
- **Interface board** for LON control.

COUPLED FILTERS

TYPE FFU	TIGHTNESS		EFFICIENCY			HEIGHT mm		
	DRY	WET	H14	U15	U16	66	90	110
6P6	●	●	●	●	●	●	●	●
6P12	●	●	●	●	●	●	●	●
12P12	●	●	●	●	●	●	●	●

● Available
● Not available

DIMENSIONS



TECHNICAL DATA

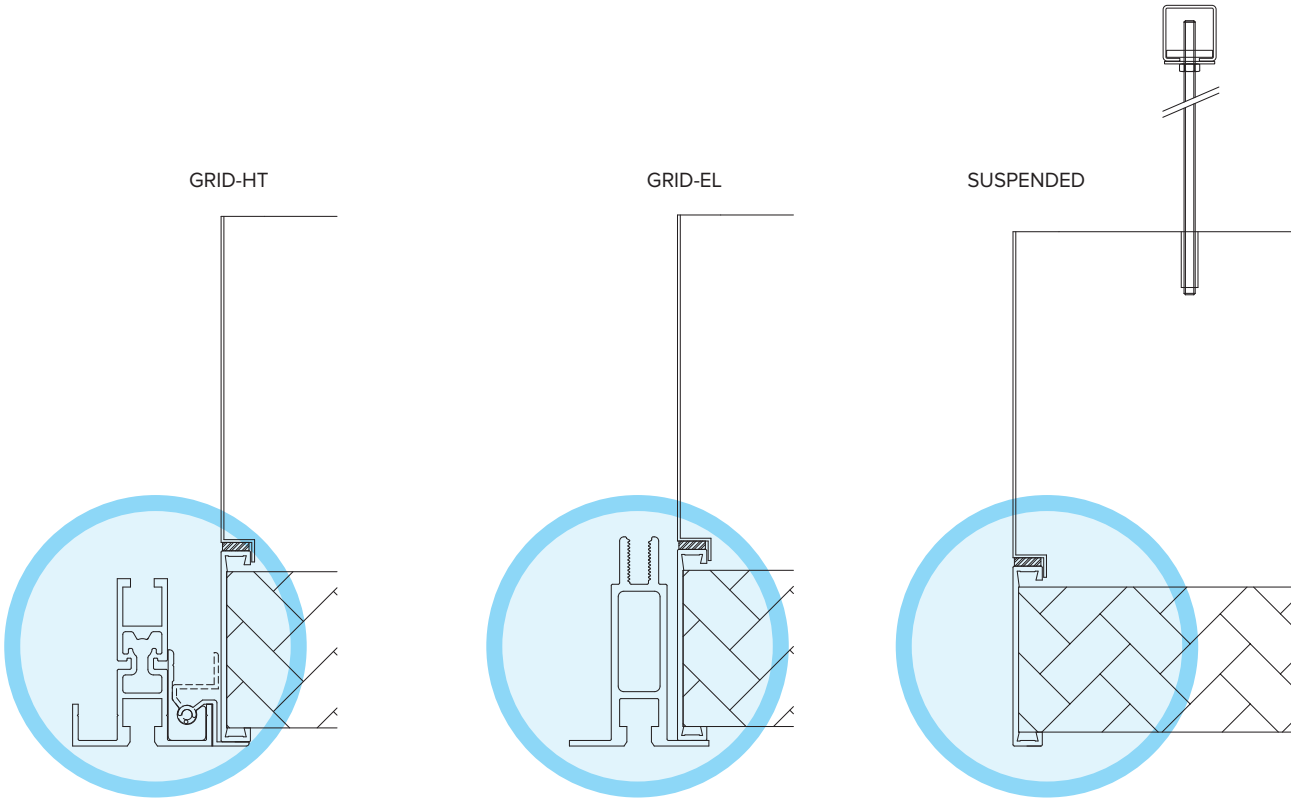
TYPE	FFU dimensions mm	Grid pitch mm	Power W		Sound level dB(A)	Air volume	Pressure Pa	Weight Kg
	LxPxH	LxP	Rated	0,45 m\s 120 Pa	0,45 m\s 120 Pa	m^3/h	Max	*
6P6	540x540x305	600x600	430	44	52	421	600	14
6P12	540x1140x305	600x1200	430	53	49	917	600	19
12P12	1140x1140x380	1200x1200	370	140	54	1996	350	36

* Filters not included

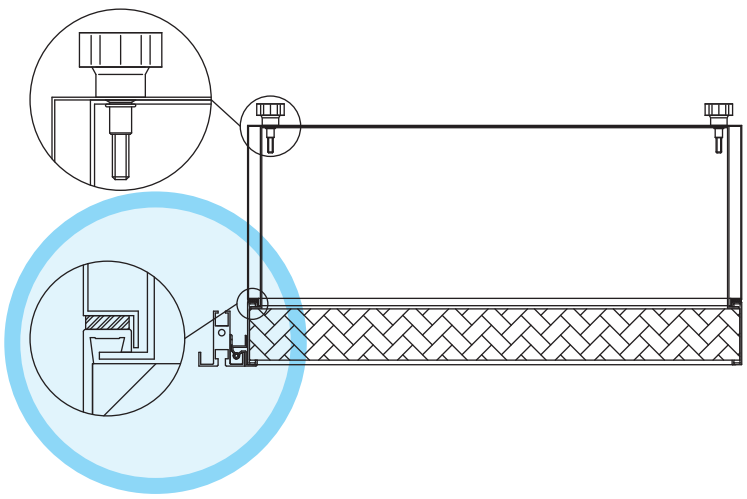
Power supply 200÷277 Vac - 1N - 50/60 Hz

CONSTRUCTION DETAILS

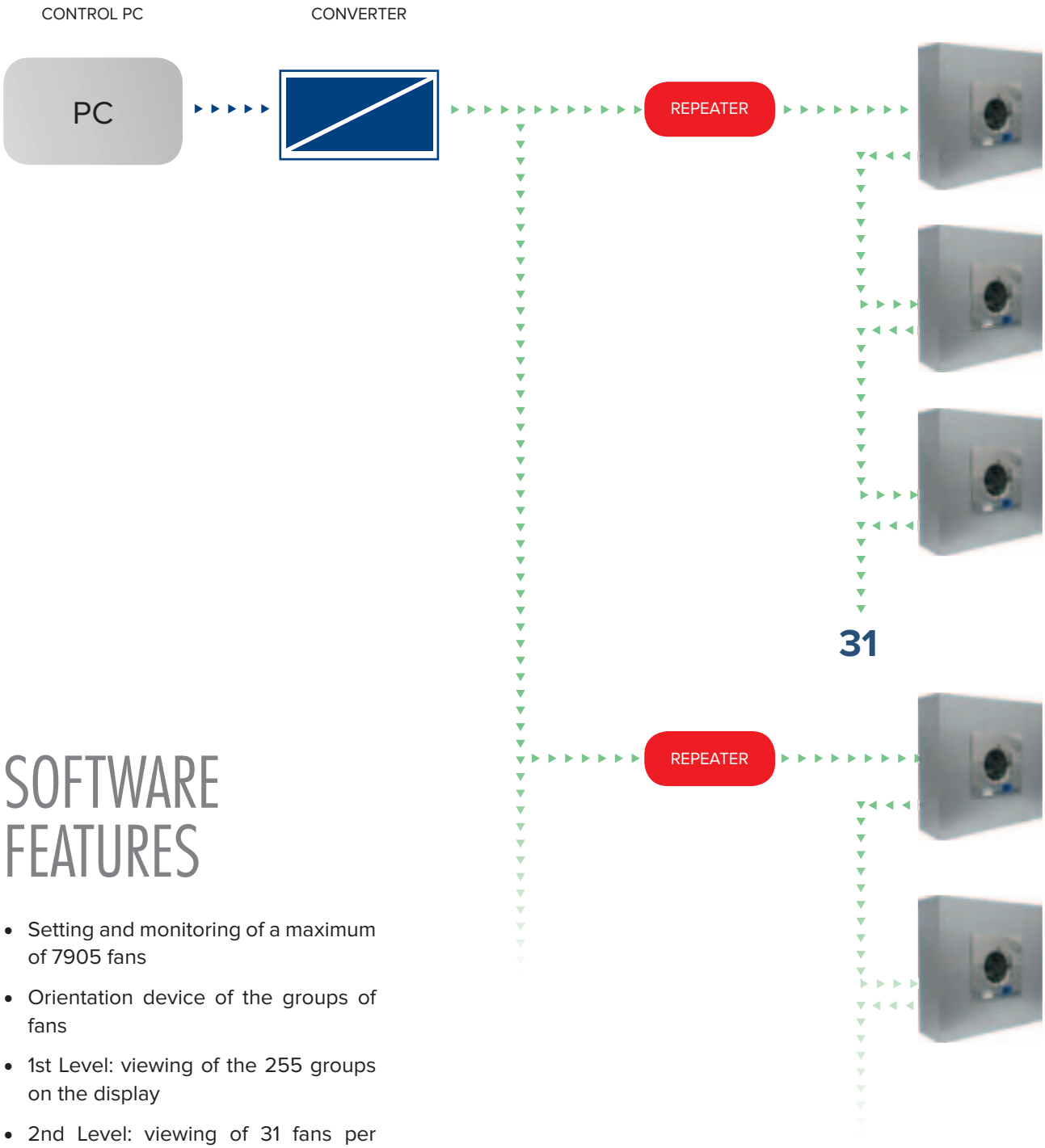
INSTALLATION



FILTER TIGHTENING SYSTEM



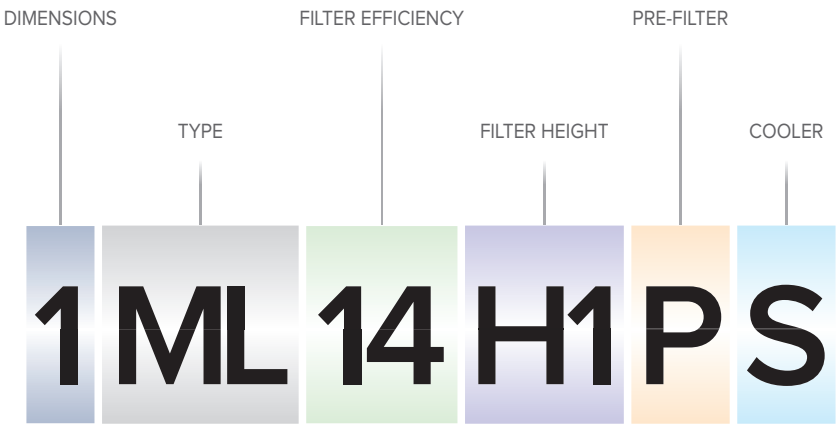
FUNCTIONAL SCHEME



SOFTWARE FEATURES

- Setting and monitoring of a maximum of 7905 fans
- Orientation device of the groups of fans
- 1st Level: viewing of the 255 groups on the display
- 2nd Level: viewing of 31 fans per group on the display
- Remote control per either one fan or all the fans
- Automatic temperature and pressure control
- Error message
- Localising and analysing of error

EXAMPLE OF CODING



DIMENSIONS
1 **6P6** (540x540 mm)
3 **6P12** (540x1140 mm)
6 **12P12** (1140x1140 mm)

FILTER HEIGHT
H1 66 mm
H2 90 mm
H3 110 mm

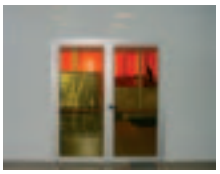
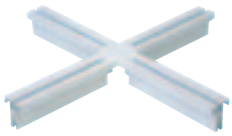
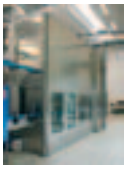
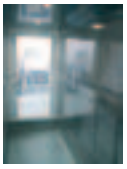
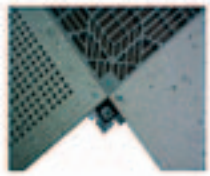
INSTALLATION TYPE
ML On grid
MS Supended

PRE-FILTER (OPTIONAL)
P Yes
X No

FILTER EFFICIENCY
14 H14
15 U15
16 U16

COOLER (OPTIONAL)
S Yes
X No

06/16 prografit

CLEAN ROOMS	DEDICATED SYSTEMS	CLEAN ROOM COMPONENTS	SPECIAL EQUIPMENT	PLANT
 MICROELECTRONICS	 PRINTED CIRCUITS	 FALSE CEILINGS	 AIR SHOWERS	 CONDITIONING
 ELECTRONICS	 BOTTLING	 MOTOISED FANS	 TRANSFER HATCHES	 SUCTION
 PHARMACEUTICAL	 HOSPITALS	 WALLS	 CLEAN CABINS	 AIR DUCTING
 HOSPITALS	 PHARMACEUTICAL	 FLOATING FLOORS	 DUST REMOVAL	
 BOTTLING	 FOOD	 CEILING FIXTURES	 CHANGING ROOM FITTINGS	

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