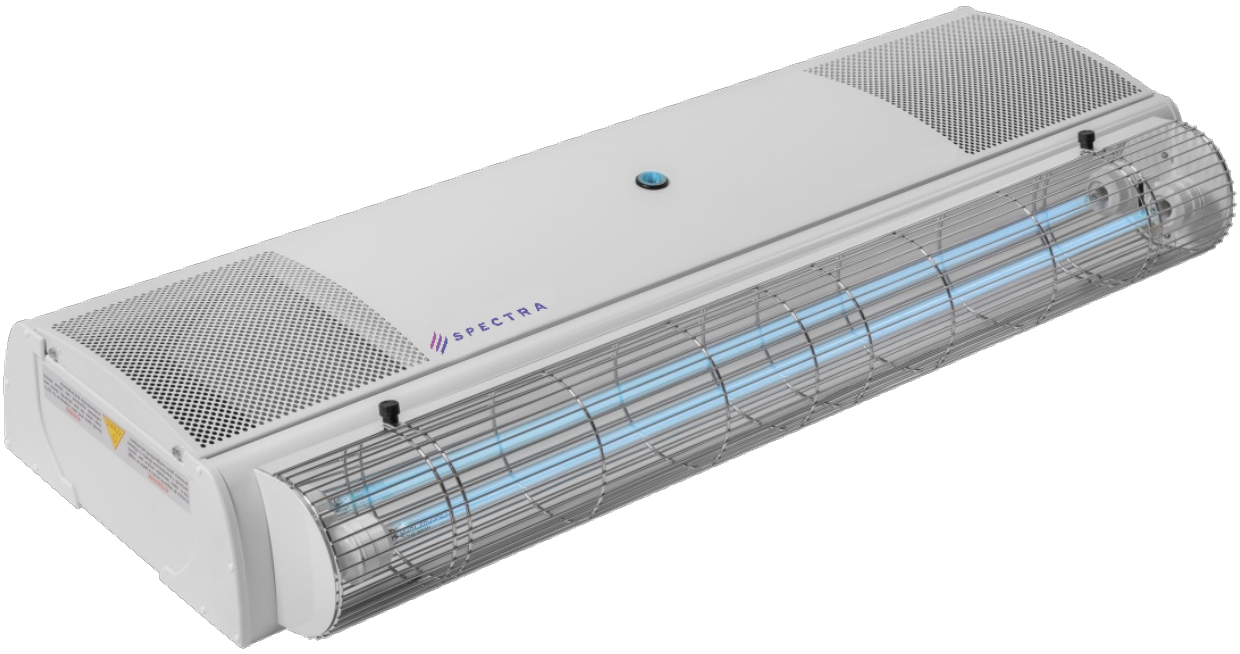
Industry: Health

UV FAN M



UV-C air Purifier

UV-FAN allows deep air disinfection in any type of health environment. Traditional cleaning methods are, often, not sufficient to ensure high levels of hygiene, which can be achieved only by the use of UV-C technology.

The big advantage of this equipment is the ability to deal with the air of a room, 24 hours a day, without any contraindication for the staff present. Only a continuous disinfectant action can ensure the security to maintain the microbial load always under control; on the contrary, an intense, but uneven, disinfection results in a fluctuating level of germs present in the environment.

Installation

These devices (except for the models with support) should be installed on the wall, at the center of the room, about 2 m. above ground level (avoid positioning at corners; the air captured and treated by the device must be allowed to circulate through the room unhindered). The area or cubic area covered by UV-FAN devices is detailed in the table from technical specifications.

The final result of the disinfection is however related to a higher or lower value of the outside contribution of germs in the air during UV disinfection. To install the device on the wall use the two brackets enclosed in the packaging. Screw the brackets to the threaded holes on the back side of the device by use of bolts (M6x10) enclosed in the packaging. Make two holes on the wall by checking the distance between the brackets. Secure the device to the wall by means of two expanding wall plugs (8 x 10 mm.) (not provided).

WHAT ARE UV-C RAYS?

Light in a broad sense can be divided in visible, infra-red and ultraviolet rays.
Ultra-violet rays (invisible) can be classified in:
• UV - A (with tanning properties)
• UV - B (with therapeutic properties)
• UV – C (with germicidal properties)

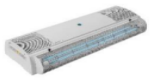
The germicidal effects of the UV-C radiation destroy DNA of Bacteria, Viruses, Spores, Fungi, Moulds and Mites avoiding their growth and proliferation.

UVGI technology is a physic disinfection method with a great cost/benefits ratio, it's ecological, and, unlike chemicals, it works against every microorganisms without creating any resistance.

TECHNICAL FEATURES

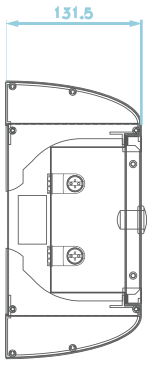
• UV-C Light Progress selective lamp (emission peak 253.7 nm.) with high output, ozone free, very pure quartz.
• Inner germicide mirrored chamber in mirror bright aluminium.
• Extruded aluminium body coated with epoxy powders (RAL 9003 - matte white).
• Use in presence of people.
• Continuity of treatment 24/24h - High power UVC.
• Special TiOx Filter for removing pollutants and inorganic substances (standard).
• Peephole for checking lamps.
• All materials are tested to resist to intense UV-C rays.
• Power supply with electronic ballast specific for Light Progress UV-C lamps.
• CE marking (LVD - EMC - MD - RoHS).

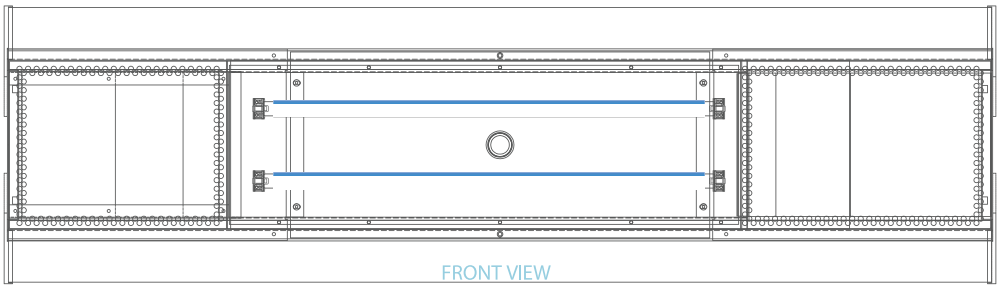
TECHNICAL SPECIFICATIONS

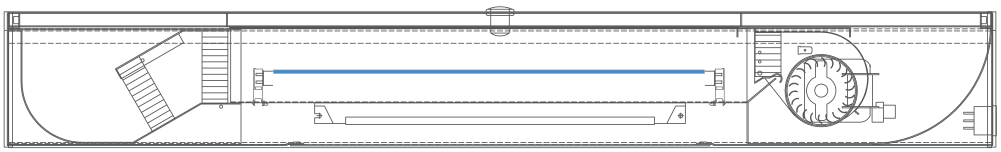
MODEL	DIMENSIONS LxSxH (cm.)	AIR FLOW	UV LAMPS Nr. x POWER	CONSUMPTION	REDUC-TION T.M.L. (1)	With 1 air change /h (2)		With 2 air changes /h (3)		LAMP LIFE (h) (4)	dB (A) (5)
						Treated AREA (for h = 3 m)	Treated Room VOLUME	Treated AREA (for h = 3 m)	Treated Room VOLUME		
UV-FAN-XS-60HP 	69x15,2x16,2	70 m³/h	1x60W	70 W	>99,99%	24 m²	70 m³	12 m²	35 m³	≤18.000	36
UV-FAN-M2/40H 	96x13x27	70 m³/h	2x40W	105 W	>99,99%	24 m²	70 m³	12 m²	35 m³	≤18.000	45
UV-FAN-M2/95HP 	104x14x33	150 m³/h	2x95W	220 W	>99,999%	50 m²	150 m³	25 m²	75 m³	≤18.000	45
UV-FAN-M2/95HP-ST 	40x34x128	150 m³/h	2x95W	220 W	>99,999%	50 m²	150 m³	25 m²	75 m³	≤18.000	45
UV-FAN-M2/95HP-BD-Rc2 	104x14x41	150 m³/h	2x95W +90 W	220W +90W	>99,999%	50 m²	150 m³	25 m²	75 m³	≤18.000	45
UV-FAN-M2/95HP-ST-Rc2 	46x34x128	150 m³/h	2x95W +2x90W	220W +180W	>99,999%	50 m²	150 m³	25 m²	75 m³	≤18.000	45

(1) Reference Bacillus S. spores (according to ISO15714); % referred to each air passage in the device.
(2) With 1 change per hour a reduction of 63% in the room is obtained after 1 hour; 87% after 2 hours; 95% after 3 hours; 98% after 4 hours; 99.3% after 5 hours.
(3) With 2 changes per hour the reduction is 87% in the room after 1 hour; 98% after 2 hours; 99.8% after 3 hours.
(4) With continuous use.
(5) The noise level of the device has been kept as low as possible. The volume specification was measured under laboratory conditions. In reality, there are influences that can make the volume of the device louder under certain circumstances, e.g. due to reflections or similar. If this occurs, try to change the location of the unit or provide appropriate acoustic insulation behind the device.

TECHNICAL DRAWINGS







UV-FAN series includes a wide range of wall or wheeled (model -ST) purifiers, different according to the UV-C lamps power and size. UV-FAN has a epoxy powder-coated bearing structure in extruded aluminium sheet and a front cover with micro-holes, allowing air to enter and exit at both ends, making it pass through the TIOX® filter. The germicidal chamber houses the UV-C lamps and is built with a special very pure mirrored aluminium, which amplifies the disinfecting power of the lamps.

SPECTRA

PROFESSIONAL UV SOLUTIONS

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