

ELEVATOR CAB UV STERILIZATION FAN

Model 21FN014

Elevator Cab UV Sterilization and Purification Fan

- Built-in negative ion generator and UV lamp
- UV and ozone perform sterilization
- Negative ions reduce and prevent dust
- Sterilization rate is 99% and higher
- Low noise, high air volume and air pressure
- Motor has an overheat protection device
- Multi-wing impeller with novel structure
- Small size, lightweight, easy installation

This intake cross flow fan is designed for elevator cab ventilation and utilizes negative ion generator and UV lamp for inside air sterilization. Unit mounts on top of the elevator.

Fan operation

Elevator in motion, doors are close

The sterilization and purification fan delivers the air from the hoistway into the car. This air is sterilized by the UV light in the air inlet and then travels through the negative ion generator to provide secondary negative ion sterilization. This settles dust in the car and ensures a safe environment.

Elevator landed, doors are open

In the case of the continuous use of the fan, the air blows into the car and creates positive pressure. When the car door is open, the air flows out. Throughout the car, the purification fan works and keeps the air sterilized and purified.



Installation and maintenance

The unit permanently mounts on top of the elevator. It is not recommended to install the cab sterilization fan together with any other existed fans. Consider to install the cab sterilization fan in place of existing exhaust fan.

The unit is not waterproof and designed for indoor installation only. Do not clean or wipe unit while in use to prevent personal injury accidents.

The installation height of the wind blade is higher than 7.5 feet. The ultraviolet germicidal lamp should be replaced every 5000 hours.

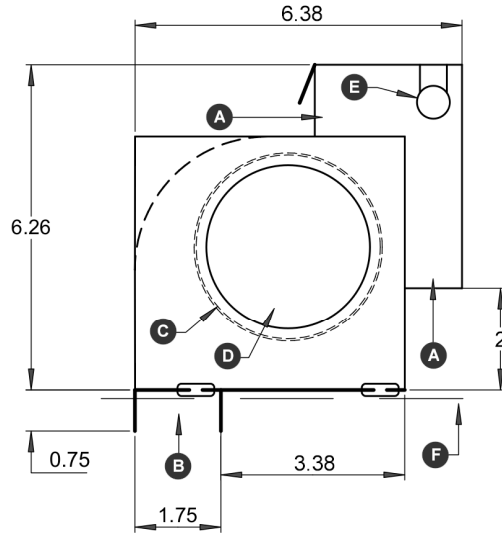
The fan as well suitable for control rooms, purification and clean rooms, laboratories, production workshops, corridors and aisles.

Lab Test Results and Technical data

Sterilization	Disinfection bacteria killing technology	Negative ion generator and UV lamp, wavelength 254 nm
	Coronavirus killing rate	>99.99%
	Sterilization Rate	≥99%
	PM2.5 removal rate	≥99%
	Negative ion concentration	$3.5 \times 10^7 \pm 10\%$ pcs/cm ³
	Ozone concentration	≤0.037 mg/m ³
Fan data	Fan type	Cross flow fan, car top mount
	Way of air flow	Hoistway intake, cabin return
	Multi-wing impeller	Ø3.6" x 10.5"L
	Noise	45dB(A)@1m
	Circulating air volume	177CFM
	Motor speed	1150RPM
	Air outlet dimensions	1.75"W x 10.63"L
	Operation Voltage	110VAC 50/60Hz
	Germicidal UV Light Bulb	6W
	Total unit power	25W
	External dimensions	17.45"L x 7"H x 6.3"W
Net weight	6Lb.	
Maintenance	Maintenance requirement	UV lamp replacement, dust clearing
	Maintenance period for UV lamp	5000 hours, typical
	Germicidal UV Light Bulb	G8T5/GL, 6W

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MOTOR SIDE VIEW



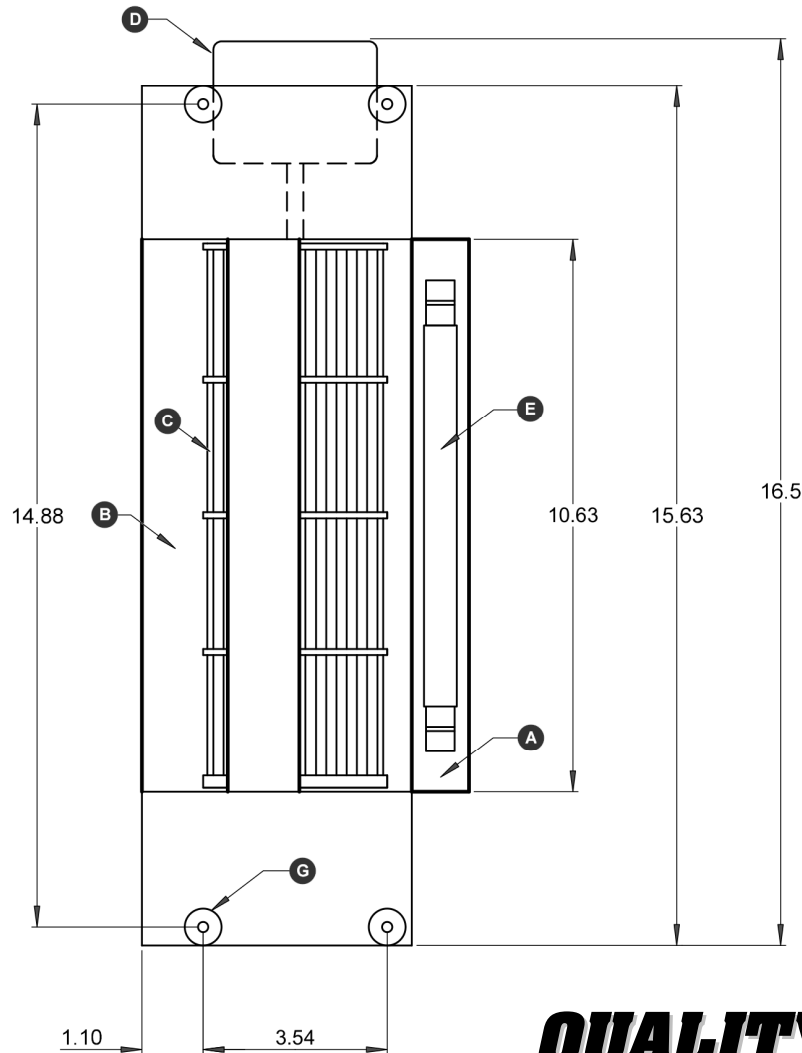
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- A – Air intake.
- B – Air exhaust, negative ion antenna.
- C – Impeller blower wheel.
- D – Fan motor.
- E – UV, ultraviolet germicidal lamp.
- F – Elevator top.
- G – Mounting rubber pads, $\varnothing 0.2$ " screw holes, 4 places.

Note:

1. All dimensions are in inches.
2. Negative ion generator, motor overheat protection device, UV lamp illuminated switch, 3-prong power cable located on motor side of the unit and not shown.

BOTTOM VIEW



QUALITY
ELEVATOR PRODUCTS, INC.

QEP_UV_Fan_081020