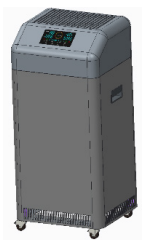




# UA-400 Air Purifier



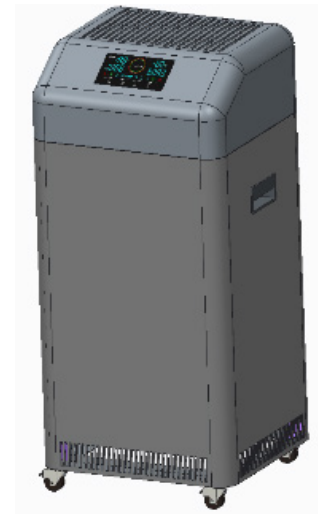
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There is more awareness and focus now than ever before on the air that we breathe and the desire to filter out and remove air pollutants such as allergens, dust, viruses, mold and bacteria that may be floating or airborne.

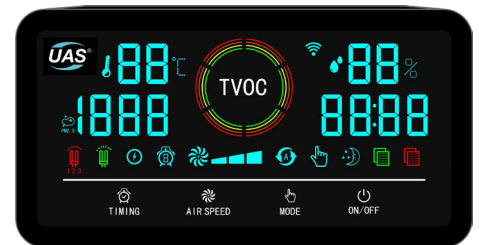
Parker Hannifin, the trusted, global leader in filtration systems innovation is excited to introduce the UA-400 air purifier. The basis of design is a particle irradiation and filtration system that uses advanced technology to purify and improve the air quality within a wide variety of indoor spaces where we live, work, and play.

The UA-400 air purifier is a mobile particle irradiation and filtration system that utilizes electrostatic,ultraviolet energy, and high efficiency filtration to neutralize and clean ambient air within an occupied room or space.

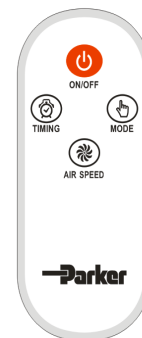
The innovative design of UA-400 combines electrostatic precipitator(ESP) and ultraviolet germicidal irradiation (UVGI) wavelength technology with high efficiency HEPA filtration to provide continuous cleaning of air in an indoor space. The combination of ESP,UVGI and HEPA filtration captures, irradiates and filters bacteria, dust,mold spores, odors and virus particles as small as 0.3 microns which is about 250 times smaller than a human hair.



UA-400



LCD Interface



Remote Control



## Theory of Operation

As the air enters at the base of the unit and into the first stage, large particles are filtered out of the airstream by the pre-filter. The air then passes into a second ESP stage, where particles are captured up to 97% of 0.3 micron. Next, the air passes into a third stage, where particles are dosed with high-intensity UVGI energy. In the fourth stage, the high-efficiency HEPA filter captures particles as small as 0.3 micron, and the UVGI high intensity energy irradiates them. The cleaned and purified air is then returned out through an air diffuser and back into the indoor space. Prior to the air diffuser, there is also an optional fourth stage where the air can pass through a carbon filter to help with odors in difficult environments.

## Product Highlights

- Available configurations: Mobile
- UV Germicidal Technology
- ESP Technology
- HEPA
- LCD Interface
- EC motor for long life
- Laminated safety UV viewing glass
- Change filter indicator light
- 4 lockable casters (installed)
- Optional carbon filter for odor control
- Optional WIFI Control

Product Specifications	
Airflow:	300 ~ 400m <sup>3</sup> /h
Sound Level, dB(A):	45
Input Power (W) :	300
Operating Current(A), FLA:	1.4
Input Voltage:	AC220V/1PH/50Hz
Pre-filter area(m <sup>2</sup> ):	0.09
ESP Power(W):	30
UV Lamp Type	Non-Ozone, High Output, Germicidal C & D band, 254 & 185nm
UV Lamp estimated life,(hrs):	17,000
Product Dimensions(mm):	420X380X960
Product Weight(kg):	35
Electrical Certification:	
Lockable casters included on mobile unit	



# Product Applications

- administrative offices
- worship centers
- retirement/assisted living centers
- municipal centers
- police stations
- residential halls
- courtrooms
- reception areas
- hotel lobbies
- passenger terminals
- offices
- conference and meeting spaces
- physical fitness centers
- gymnasium
- classrooms
- breakrooms
- restrooms
- lunchrooms
- restaurants
- bars/nightclubs
- weight rooms

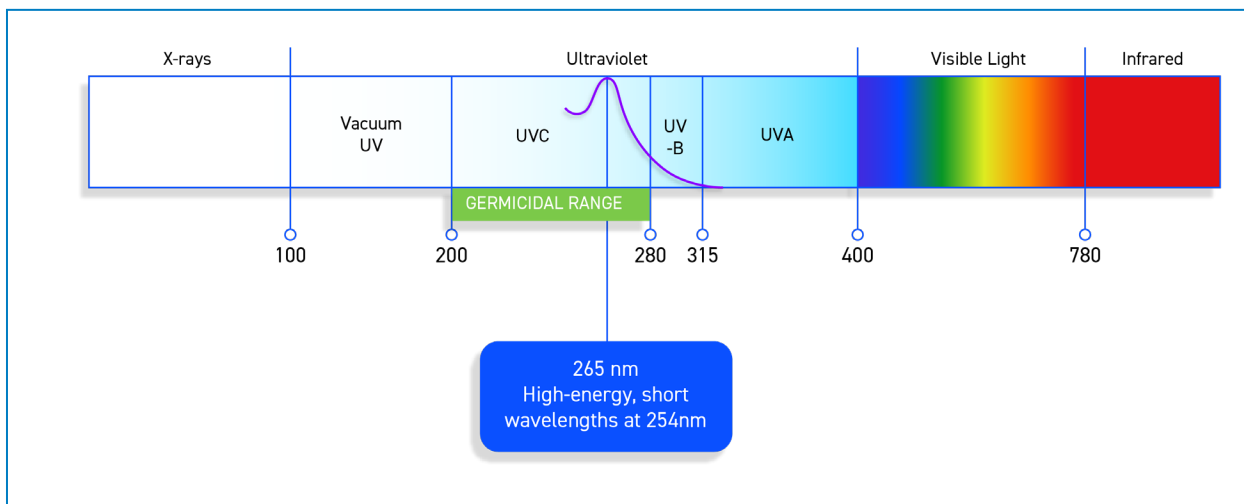


# How Does UV Work?

Ultraviolet Germicidal Irradiation(UVGI) has a history of being used to deactivate micro-organisms. According to the American Society of Heating, Refrigeration and Air-Conditioning Engineers(ASHRAE), UVGI uses short-wave ultraviolet C band (UV-C) energy to inactivate viral, bacterial and fungal organism(s) where the UV dosage disrupts its ribonucleic acid (RNA) or

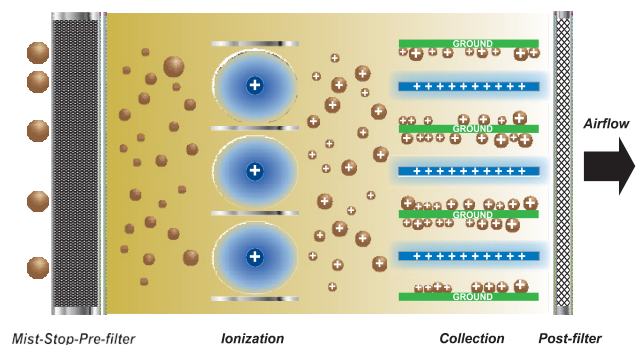
deoxyribonucleic acid (DNA) rendering them sterile deactivated and unable to replicate. UA-400 uses a variation of an In-Duct UV light arrangement where the UV lamps are placed inside the duct and doses and radiates the airstream and airborne particles as they pass by or 'Fly-through' and the UV chamber then uses surface dosing when particles become trapped in the HEPA filter. According to the FDA,

UV-C radiation is a known disinfectant for air, water, and nonporous surfaces. UV-C has effectively been used for decades to reduce the spread of bacteria, such as tuberculosis. In addition, UV-C radiation has been shown to destroy the outer protein coating of the SARS-Coronavirus and may also be effective at inactivating the SARS-CoV-2 virus.



# How Does ESP Work?

ESP electrically charges both large and microscopic contaminants, and then strips them from the air stream collecting on grounded collection plates. The ESP cells are washable, eliminating otherwise costly filter replacements and disposal concerns. You will benefit from high level of particulate removal on sub-micronic particulate (less than 1 micron). A single pass ESP unit removes up to 97% of 0.3 µm particles.





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