

NQ500

The **NQ 500** is an outstanding air purification system.

The patented technology of this product confirms its uniqueness. It constantly produces purified and sanitized air, with a uniform optimization of air flow and air volume within the entire room.

Consisting of **3 levels of mechanical filtration** as well as an **ultraviolet purification zone** that destroys bacteria, viruses, fungi and molds. Unit size and mobility make this equipment ideal for several applications such as commercial, medical, industrial or military settings

Efficacy proven in real conditions for over 10 years (references available on request).

The ultraviolet disinfection allows our units to offer a high protection without utilising any chemicals or added materials.

General features:

- High efficiency 99.97% HEPA
- Mobile, quickly deployed
- Autonomous
- Positive or negative pressure possible
- System utilising recognised processes
- Low Maintenance
- Fraction of the cost of permanent isolation room

The NQ500 purifies air with 2 recognized processes:

FILTRATION – Three stages of mechanical filtration :

- 2 Pre-filters of 51 and 102 mm - 25-30% - G4
- HEPA filter ASHRAE- H13 (99.97% at 0.3 µm) - DOP

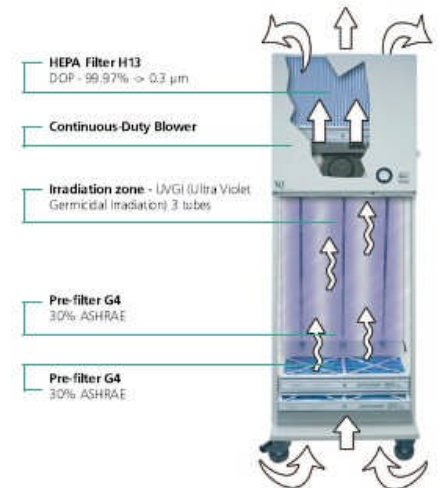
UV DISINFECTION - Three germicidal UV lamps providing a total UV dosage of 46,480 µW sec/cm²

Working principle:

A Complete mixing pattern is created as a 1.94 m height unit sends clean air to the upper part of the room, forcing heavier particles and droplet nuclei down away from breathing zone and into unit's inlet.

Details:

- The air is recirculated into the bottom part of the machine
- Larger particles are trapped into the 2 stages of the pre-filters (25-30% ASHRAE) that are constantly bathed by UV lamps
- The air then passes through the UVGI (UV germicidal irradiation) chamber, a highly effective germicide, that destroys virus, bacteria, fungi and molds
- Finally 99.97% of particles and micro-organisms > 0.3 µm are filtered by the HEPA filter H13. As the filter traps only micro-organisms that have been destroyed by UVC's, there is no risk of replication in case of the unit is switched off
- Purified air is discharged, in the top part of the unit, via a discharge system specially designed ("Upflow") to maximise and optimise the room effective air change rate



NQ Industries Inc.

1275 Cromwell Avenue, Rocky Hill, CT 06067 – USA

Tel: +1 860 254 3466 Fax: +1 860 258 3469

Email: contact@nqinc.com Website: www.nqinc.com

Typical Applications:

Commercial

- Waiting rooms, schools, homeless shelters, building works, libraries, postal sorting rooms, recreation centres, microbial remediation processes, hotels, restaurants, bars, cruise lines, police/customs, prisons, airports.

Medical

- Laboratories, hospitals and clinics patients rooms, nursing homes.
- Services such as medicine, pediatric, dialysis, endoscopic procedures, clinical hematology, chemotherapy, intensive care, ER and ICU (Intensive Care Unit).
- Out patient Areas, OB-GYN wards, microbial laboratories, positive and negative pressure isolation wards, clean rooms, and engineering areas (Aspergillus).

Industrial

- Micro-mechanical, electronic, pharmacy and food processing industries; stocking areas, waste sorting plants, office buildings...

Military

- Navy: Shipboard, berthing spaces, critical isolation wards, surgeries, push pack deployment. Land based: Naval hospitals-critical care, surgery, ER waiting areas, isolation wards.
- Army: same applications as land based hospitals, emergency deployment systems for field medical care, isolation, surgery, etc.
- Air Force: Air patient transport.

Technical Data :

Technical features

Height	78" - 1940 mm
Width	26" - 660 mm
Depth	13" - 330 mm
Weight	184 lbs - 83.5 kg
Power supply	115 V - 60 Hz / 230 V - 50 Hz
Power	437 Watts (high speed)
Air volume	500 cfm - 236 l/s - 850 m ³ /h
Noise Level	55 dBA - (high speed)
Hour meter	Up to 99,999 hours
Pressure gauge	0 to 1 inches WC - 250 Pa
Pre-filter 1	2" - 51 mm / 30% ASHRAE - G4*
Pre-filter 2	4" - 102 mm / 30% ASHRAE - G4*
HEPA filter	12" - 305 mm - H13** - ASHRE - DOP - 99,97% > 0.3 µm
UV zone	3 lamps of 36" - 915 mm
UV dosage	46,480 µWsec/cm ²

* According to EN 779 **According to EN 1822

Maintenance required

Pre-filters	3 months for 2" - 51 mm pre-filter 6 months for 4" - 102 mm pre-filter
HEPA filter	24 months max. (18 months recommended)
UVGI lamps	Every 9,000 hours

Options:

- Inlet plenum to create positive pressure within the room
- Negative pressure top to create negative or positive pressure
- Activated carbon installed instead of UV lamps or instead of the 2nd G4 Pre-filter to suit specific applications
- Photocatalysis arrangement

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