500

Hanovia

NQ 500
Air purification system

Technical Features

Height	1940 mm
Width	660 mm
Depth	330 mm
Weight	83.5 kg standard version
Power supply	230V - 50 Hz
Power	437 Watts (high speed)
Air volume	236 l/s - 850 m3/h (high speed) 100 l/s – 360 m3/h (low speed)
Noise Level	55 dBA (high speed)
Hour Meter	Up to 99,999 hours
Pressure Gauge	250 Pa
Pre-filter 1	51 mm - G4*- 30% ASHRAE
Pre-filter 2	102 mm - G4*- 30% ASHRAE
HEPA filter	305 mm - H13** - DOP - 99.97% -> 0.3 µm
UV zone	3 lamps of 915 mm
UV dosage	46,480 µW sec/cm²

* According to EN 779 ** According to EN 1822

Maintenance required :

Pre-filters	3 months for filter No1 6 months for filter No2
HEPA filter	24 months max. (18 months recommended)
UVGI lamps	Every 9,000 hours

Patented solutions for pure, safe air.

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NQ 500

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Air purification system
Patented solutions for pure, safe air.

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WORLD CLASS UV

UVGI Technology

500

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NQ 500
Air purification system

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The NQ 500 is ideal for :
Applications requiring an URGENT solution to control microbial airborne infections. 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).

Risk Prevention - protection of personnel and patients :

Indoor environments are breeding grounds for microbial air contamination. It is polluted by harmful airborne pathogens agents such as bacteria, viruses, fungi and molds. Pollens, gases, VOC's (volatile organic compounds), small particles and chemicals are additional contaminants to these agents.

Patients, healthcare employees and visitors are exposed every day to these pollutants and germs. People suffering from allergies, asthma, hyper sensibility to chemicals, cardiopulmonary diseases or having a weakened immune system (immuno-compromised patients) are seriously threatened by this airborne micro-biological contamination. As a consequence, air treatment within operating theatre, treatment rooms, positive and negative pressure isolation wards, preparation rooms, laboratories…etc have to be a concern of every moment.

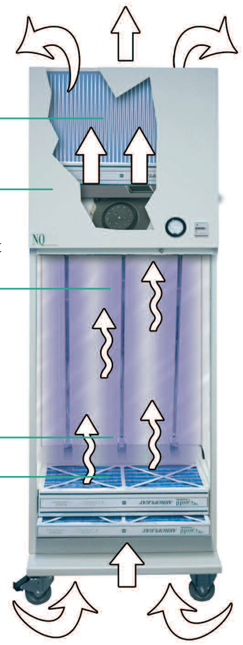
Make your medical environments be safe places :

Using an NQ500 UV Air Filtration System, you can effectively treat these problems. The NQ500 is an outstanding air purification system. The patented technology of the NQ500 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. This system also respond to the norm ISO 14644 for clean rooms achieving an ISO 6.

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.



The NQ500 purifies air with 2 recognized processes :

❶ FILTRATION : **Three stages of mechanical filtration : 2 Pre-filters of 51 and 102 mm - 25-30%. HEPA filter ASHRAE (99.97% at 0.3 µm) - DOP.**

❷ UV DISINFECTION : **Three germicidal UV lamps providing a total UV dosage of 46,480 µW sec/cm².**

The NQ 500 constantly produces purified and sanitized air, with a uniform optimization of air flow and air volume within the entire room.

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 that are constantly bathed by UV lamps 25-30% ASHRAE.
- 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 500
Air treatment solutions

Hanovia

NQ 500
Air purification system

GENERAL FEATURES :

- HIGH EFFICIENCY 99.97% HEPA
- MOBILE (CASTERS), QUICKLY DEPLOYED
- AUTONOMOUS
- POSITIVE OR NEGATIVE PRESSURE POSSIBLE
- SYSTEM UTILISING RECOGNISED PROCESSES
- LOW MAINTENANCE
- FRACTION OF COST OF PERMANENT ISOLATION ROOM

OPTIONS :

- INLET PLENUM : CREATE POSITIVE PRESSURE WITHIN A ROOM
- NEGATIVE PRESSURE TOP : TO CREATE NEGATIVE OR POSITIVE PRESSURE
- ACTIVATED CARBON : INSTALLATION OF ACTIVATED CARBON INSTEAD OF UV LAMPS OR INSTEAD OF THE 2nd G4 PRE-FILTER (TO SUIT SPECIFIC APPLICATIONS)

For any other specific demand, please contact us.

UV LAMPS DISINFECTION

3 STAGES MECHANICAL FILTRATION

HIGH EFFICIENCY 99.97%

500

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WORLD CLASS UV