

NQ250 – NQ400

The **NQ 250 - 400** is an outstanding range of wall-mounted air purification systems.

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

Consisting of **2 levels of mechanical filtration** as well as an **ultraviolet purification zone** that destroys bacteria, viruses, fungi and molds. Units dimensions make these equipments 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
- Installed on the wall, quickly deployed
- Autonomous
- Positive or negative pressure possible
- System utilising recognised processes
- Low Maintenance
- Fraction of the cost of permanent isolation room

The NQ 250-400 product range purifies air with 2 recognized processes:

FILTRATION - Two stages of mechanical filtration :

- 1 Pre-filter of 102 mm - 25-30% ASHRAE – G4
- HEPA filter ASHRAE- H13 (99.97% at 0.3 µm) - DOP

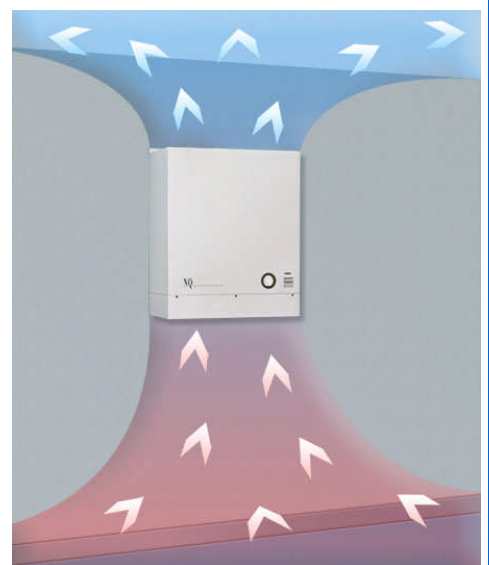
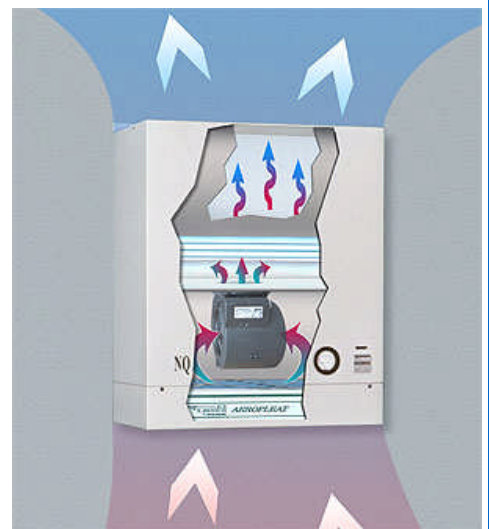
UV DISINFECTION - One germicidal UV lamp providing a total UV dosage of 12,447 to 19,334 µW sec/cm²

Working principle:

The top of the unit installed at 1.98 m above floor level creates a complete mixing pattern. The 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 pre-filter (G4 - 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. This filter is constantly bathed by UV lamps. 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



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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

- General practitioners and specialists practices, dental practices, laboratories, hospitals and clinics patients rooms, veterinarian practices, 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.

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	32" - 810 mm
Width	26" - 660 mm
Depth	13" - 330 mm
Weight	95 lbs - 43.2 kg
Power supply	115 V - 60 Hz / 230 V - 50 Hz
Power	NQ 250 - 138 Watts (high speed) NQ 400 - 276 Watts (high speed)
Air volume	NQ 250 - 250 cfm - 118 l/s - 425 m ³ /h NQ 400 - 400 cfm - 189 l/s - 680 m ³ /h
Noise Level	NQ 250 - 48 dBA - (high speed) NQ 400 - 53 dBA - (high speed)
Hour meter	Up to 99,999 hours
Pressure gauge	0 to 1 inches WC - 250 Pa
Pre-filter	4" - 102 mm / 30% ASHRAE - G4*
HEPA filter	12" - 305 mm - H13** - ASHRE - DOP - 99,97% > 0.3 µm
UV zone	1 lamp of 22" - 559 mm
UV dosage	NQ 250 - 19,334 µWsec/cm ² NQ 400 - 12,447 µWsec/cm ²

* According to EN 779 **According to EN 1822

Maintenance required	
Pre-filters	2 to 4 months for 4" - 102 mm pre-filter
HEPA filter	28 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 HEPA filter or instead of the G4 Pre-filter to

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