

NQ360 – NQ720

The **NQ 360 - 720** is an outstanding range of ceiling-mounted air purification systems.

NQ ceiling units are designed as **ceiling-mounted air decontamination units**, designed to run as a supplement to or with the existing airflow of the air conditioning system. In other words, these systems can be used as a recirculation air purifier within the same room/corridor or ducted to the existing HVAC system.

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 99.99% ULPA
- Ceiling mounted, quickly deployed
- Autonomous
- Positive pressure possible
- System utilising recognised processes
- Low Maintenance
- Fraction of the cost of permanent isolation room

The NQ 360 – 720 range purifies air with 2 recognized processes:

FILTRATION – Three stages of mechanical filtration :

- 1 Pre-filters of 25 mm - 25-30% - G4
- ULPA filter ASHRAE- U15 (99.99% at 0.3 µm) - DOP

UV DISINFECTION – Two to four germicidal UV lamps providing a total UV dosage of 4,945 to 11,865 µW sec/cm²

Working principle:

- The air is supplied directly from the HVAC systems or from its recirculating inlet grille that can be added as an option (defined upon applications)
- Larger particles are trapped into the pre-filter (25-30% ASHRAE) that is 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 99.99% of particles and micro-organisms > 0.3 µm are filtered by the ULPA filter U13. 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 directly into the room from the ceiling to the floor



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:

Medical

- Dental practices, laboratories, hospitals and clinics patients rooms, veterinarian practices.
- Services such as medicine, pediatric, dialysis, endoscopic procedures, clinical hematology, chemotherapy, intensive care, ER and ICU (Intensive Care Unit).
- OB-GYN wards, microbial laboratories, positive pressure isolation wards, clean rooms.

Industrial

- Micro-mechanical, electronic, pharmacy.

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.

Technical Data :

Technical features		Maintenance required	
Height	14.25" - 362 mm	Pre-filter	2 to 4 months for 1" - 25 mm pre-filter
Width	23.5" - 597 mm	ULPA filter	12 months max.
Depth	NQ 360 - 23.5" - 597 mm NQ 720 - 47.5" - 1207 mm	UVGI lamps	1 year
Weight	NQ 360 - 35.25 lbs - 16 kg NQ 720 - 59.5 lbs - 27 kg	Options:	
Power supply	115 V - 60 Hz / 230 V - 50 Hz	- Recirculating kit	
Power	NQ 320 - 126.5 Watts (high speed) NQ 720 - 253 Watts (high speed)	- Photocatalysis arrangement	
Air volume	NQ 360 - 360 cfm - 170 l/s - 612 m ³ /h (high speed) NQ 720 - 720 cfm - 340 l/s - 1224 m ³ /h (high speed)		
Noise Level	NQ 360 - 61 dBA - (high speed) NQ 720 - 65 dBA - (high speed)		
Pre-filter	1" - 25 mm / 30% ASHRAE – G4*		
ULPA filter	3.5" - 89 mm - U15** - ASHRE - DOP - 99,99% > 0.3 μm		
UV zone	NQ 369 - 2 lamps of 22" - 559 mm NQ 720 - 4 lamps of 22" - 559 mm		
UV dosage	NQ 360 - 4,945 μWsec/cm ² NQ 720 - 11,865 μWsec/cm ²		

* According to EN 779 **According to EN 1822