



NQ Clarifier

Congratulations for purchasing the finest air purification system in the world. This highly effective air purification system is based upon the same advanced air purification that is recommended and used in hospitals, labs, intensive care units, and medically related facilities and by allergists and environmental doctors.

The NQ Clarifier incorporates True HEPA filtration and activated carbon that offers twice the gas reducing capability available in other filters. This unique combination of media is further enhanced by proven germicidal Ultraviolet light, and an innovative "Top flow" air discharge system.

The NQ Clarifier can transform any home or office into an odorless, gasless, virtually germ-free environment. Purifies over 21,000 cubic feet of air per hour.

*******SAFETY GUIDELINES*******

The NQ Clarifier is an electrical appliance and operates either with 110/60/1 V AC current so it can easily be plugged into standard wall outlets. As with any electrical appliance care must be taken when cleaning or changing the filters & UV lamps. Never move the unit by pulling or tugging the cord as this may cause fraying and become an electrical hazard. The units can also be ordered for 240/50/1 power as well.

*******SAFETY WARNINGS*******

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE TO RAIN OR WATER.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK; DO NOT USE THIS UNIT'S FAN WITH ANY OTHER SOLID STATE SPEED CONTROL DEVICE.

ALWAYS UNPLUG UNIT WHEN SERVICING IT.

NEVER LOOK DIRECTLY AT THE UV LAMPS WHEN LIT.

IMPORTANT OPERATION INFORMATION

The NQ Clarifier is designed for 24-hour operation to provide maximum air cleaning of your home or office. Dust, germs, chemicals and other toxic contaminants constantly spread throughout your air and need to be continuously removed.

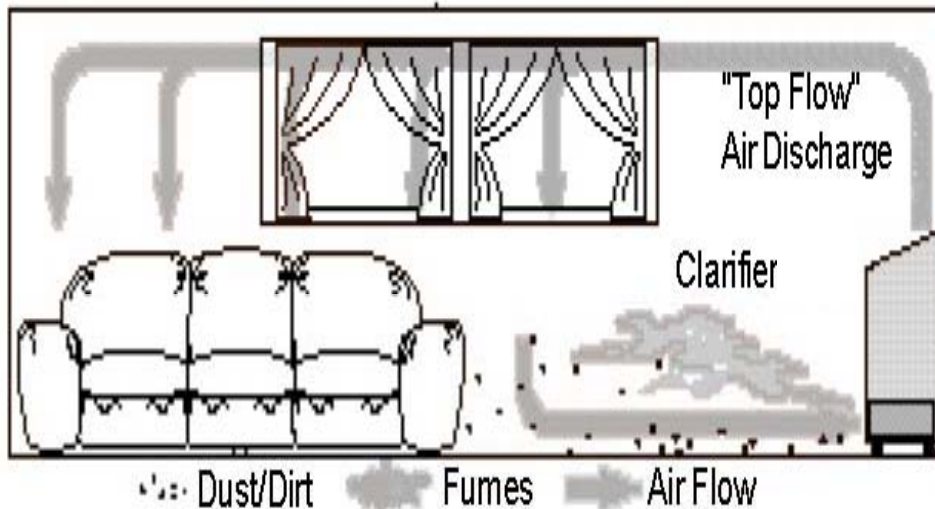
The pre and post filters collect dust and need to be cleaned and replaced periodically. Bacteria, yeasts, and mold are trapped in the HEPA filter and tend to grow. Continuous running of the filter is necessary to dry out these organisms and keep growth to a minimum. The Ultraviolet system will also keep any microbiologically contaminated air from passing through, but the lamps must be replaced once a year to keep the germicidal level effective.

If for any reason the NQ Clarifier is not run for a number of weeks or months, then the HEPA filter module, in its entirety, should be changed before starting.

CHOOSE A LOCATION FOR YOUR HOME OR OFFICE

The Clarifier air purification system is a very versatile unit and is designed for home or office use within any room except; near sinks, showers, pools or any other water source. For best results, place the unit at the wall across from the area where the clean air benefits will be the greatest.

AIR FLOW PATTERN



The purified air will be directed upward toward the ceiling and will drop down around the total room area pushing any dust, pollen, odors etc. toward the floor and these contaminants are then drawn into the bottom of the unit.

AIR CONTROLS

| Average Room Size Length x Width x Height | Cubic Feet | Number of Air Changes Per Hour |
|--|----------------|--------------------------------|
| 16'x16'x8' | 2,048 Cu/ Feet | 10.25 ACH |
| 14'x14'x8' | 1,568 Cu/Feet | 13.40 ACH |
| 12'x12'x8' | 1,152 Cu/Feet | 18.23 ACH |
| 10'x10'x8'1 | 800 Cu/Feet | 26.25 ACH |

Industry guidelines suggest at least 2-3 air changes / hour (ACH) for adequate airborne cleaning and allergy control. The Clarifier produces 350 cubic feet per minute (CFM). The Clarifier will change 21,000 cubic feet per hour at high speed. However, the *patented* "Top flow" featured in the Clarifier delivers more actual air changes per hour than other units. The chart will help you determine how many air changes your unit will provide in a given space.

GREEN INDICATOR LIGHT-

Remains on when the UV light is operating properly.

When the light goes out the UV lamps are not functioning.

RED INDICATOR LIGHT-

Goes on when it's time to change or clean pre-filter or change HEPA filter.

Go to the "*Clean Prefilter Section*" on **page 4,5.**

Order new lamps from your supplier and go to the "*Change UV Lamps Section*"

Maintaining Your NQ Clarifier

CLEANING AND CHANGING FILTERS

*******SAFETY WARNINGS*******



**BEFORE YOU ATTEMPT ANY MAINTENANCE
ALWAYS UNPLUG THE UNIT.**



**NEVER LOOK DIRECTLY AT THE ULTRAVIOLET LAMPS
WHEN LIT.**

HOW TO CLEAN YOUR PRE-FILTER

THE LIFE OF THE CARBON PRE-FILTER

The pre-filter can be vacuumed numerous times to increase the service life of the filter. The pre-filter can last approximately 1 to 2 years depending on the amount of dirt in the air and the amount of use. If the red light does not go off after cleaning the pre-filter, then the pre-filter must be changed.

WHEN THE RED INDICATOR LIGHT GOES ON

TOOLS REQUIRED: A Phillips screwdriver

IMPORTANT:

Before opening the unit to change the pre-filter,
vacuum the outside of the unit at the bottom vents.

If the red indicator light does not shut off
then it is necessary to open the unit and clean the prefilters.

1. **UNPLUG THE UNIT**

Remove (1) screw on each side and on the back of the unit (**3 screws total**) **FIG.1**

DO NOT REPLACE SCREWS / SAVE THEM

The back screw on top of rear access panel is a shipping screw and does not need to be replaced.

2. Gently rest unit front face down on floor. (**DO NOT REST ON WHEELS**)

Remove the (2) shipping screws on the bottom of the unit. *These screws are for shipping and do not need to be replaced* **FIG.2**

3. Remove (2) screws on the bottom of the rear access panel. **FIG.3** Pull off rear access panel. Gently push shiny plate away from Filter (***Fan Deck Assembly***).

4. Use plastic handle to lift out the pre-filter/HEPA + carbon drum filter from the inner chamber. **FIG. 4**

5. Remove outer **PRE-FILTER** and vacuum the pre-filter. Replace the pre-filter around the **HEPA + Carbon Drum Filter**. Or **TO REPLACE THE PRE-FILTER** Discard the old pre-filter and wrap a new pre-filter around the HEPA +carbon drum filter. **FIG.4**

6. Reinstall the HEPA + carbon drum with the pre-filter around it. Lower the Filter all the way back into the inner chamber. The seam of the pre-filter should face you.

7. Replace rear access panel and only replace the (2) screws at the bottom of access panel.



Fig 1

Fig 2

Fig 3

Fig 4

**STAND UNIT UPRIGHT AND
PLUG INTO WALL OUTLET,
TURN UNIT TO DESIRED
SPEED**

Maintaining Your NQ Clarifier

CLEANING AND CHANGING FILTERS

THE HEPA & CARBON DRUM FILTER

FOR YOUR INFORMATION - HEPA LIFE RATING

The HEPA filter **MAY** last up to 3 years in some areas, the carbon filter **MAY** last up to 2 years. The longevity of the HEPA or the carbon filter depends on the amount of use and the amount of contaminants in the room air where the filter is being used. After changing the "Pre-filter" if the red light stays on, you should change the inner HEPA drum. As the carbon media comes to the end of its life – chemically and environmentally sensitive (MCS) people, multiple pet households, and smokers may detect contaminants at lower levels and will have to change the Filter sooner.

THE FREQUENCY GUIDELINES FOR THE CHANGE OF FILTERS

NOTE: This chart shows only estimates of the life of the filters. Frequency of filter changes may be shorter.

| <u>FREQUENCY GUIDELINES</u> | |
|-----------------------------|---------------|
| PRE-FILTER CLEANING | 2-4 MONTHS |
| PRE&POST FILTER CHANGE | 1 YEAR |
| HEPA FILTER CHANGE | 2 YEARS |
| CARBON FILTER | UP TO 2 YEARS |
| UV LAMPS CHANGE | 1 YEAR |

The frequency of HEPA and carbon filter changes will vary depending the amount of contaminants in your indoor environment.

IF THE RED INDICATOR LIGHT REMAINS ON:

If cleaning or changing the pre-filter does not shut off the red indicator light, this signal means that the inner HEPA filter needs to be changed. Call your authorized distributor and order a HEPA replacement filter.

HOW TO CHANGE THE HEPA & CARBON FILTER

1. **UNPLUG THE UNIT BEFORE SERVICING.**
2. Follow steps 1 to 4 in the HOW TO CLEAN YOUR PRE-FILTER section (page 4,5)
3. Remove inner HEPA drum **FIG.5**
4. Place the new HEPA drum inside of the old carbon filter; or place old HEPA drum into new carbon filter.
5. Place complete HEPA + carbon filter with pre-filter wrapped around filter, into inner chamber with the **open** end of HEPA facing towards the top of the NQ Clarifier unit. The plastic handle faces you.
6. Replace rear access panel and replace (2) bottom screws.

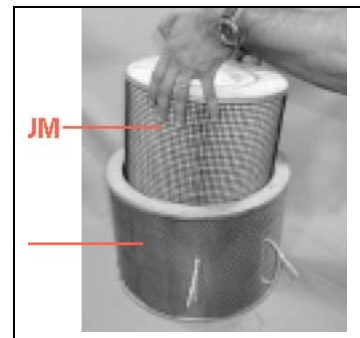


Fig.5

IMPORTANT: DO NOT STAND UNIT UPRIGHT UNLESS HEPA/CARBON FILTER IS IN PLACE.

Maintaining Your NQ Clarifier

CLEANING AND CHANGING FILTERS

SAFETY WARNINGS

- BEFORE YOU ATTEMPT ANY MAINTENANCE ALWAYS UNPLUG THE UNIT
- NEVER LOOK DIRECTLY AT THE ULTRAVIOLET LAMPS WHEN LIT

HOW TO CHANGE THE POST FILTER

NOTE:

WHEN CHANGING THE UV BULBS IT IS RECOMMENDED TO REPLACE THE POST FILTER UNDER THE OUT FLOW VENTS WHEN THE TOP ACCESS PANEL IS OPEN.

1. Peel off Post Filter
2. Place new post filter onto existing Velcro strips

HOW TO CHANGE THE ULTRAVIOLET LAMPS

TOOLS REQUIRED:

A Phillips screwdriver
A cloth or glove (for New Ultraviolet Bulbs)

1. Open top access panel, **FIG. 6**, Remove the 4 corner screws, carefully lift access panel and gently hang off side. **BE CAREFUL NOT TO DISCONNECT WIRES.**

2. Lift shield plate slightly **FIG 7**, vertically and slide forward from middle support bar.
3. While holding the lamp socket with one hand, gently pull the lamp straight out from its socket.

FIG. 8

4. Discard the old lamps, place them in a trash bag and throw them away.
5. **DO NOT TOUCH** the glass of the New Ultraviolet lamps with your hands, as the oil on your skin may alter the performance of the lamps.

Use a cloth or cotton gloves. **FIG. 8**

6. Line up top access panel with 4 holes and replace screws with the phillips screwdriver.

FIG. 6



FIG. 7



FIG. 8




**STAND UNIT UPRIGHT
AND PLUG INTO WALL OUTLET,
TURN UNIT TO DESIRED SPEED.**


Technical Specification Summary


AIR PURIFICATION SYSTEM

DIMENSIONS


 HEIGHT - 28 INCHES WIDTH - 15 INCHES DEPTH - 14 INCHES


FILTER MATERIAL

 80 SQ.FT. OF True HEPA MEDIA RATED AT 99.97% AT 0.3 MICRONS; NON OUT-GASSING, 10" HIGH X 13.5" DIAMETER


 15 LBS. ACTIVATED CARBON MEDIA WITH A COMBINED 422 MILLION SQ. INCHES OF TOTAL ABSORPTIVE SURFACE AREA FOR GAS AND CHEMICAL REDUCTION.

PRE-FILTERS

 REMOVABLE INERT CARBON IMPREGNATED SPUN POLYESTER PREFILTER CAN BE WASHED IN CLEAN WATER WITH NO DETERGENTS OR VACUUMED TO EXTEND LIFE.

 90% REDUCTION OF LARGE PARTICLES >10 MICRON TO PROTECT THE HEPA. 48" LENGTH X 10" HEIGHT SURROUNDS HEPA CARBON FILTER.

POST FILTER


 CARBON IMPREGNATED POLYESTER PAD FOR ADDITIONAL ABSORPTION. "SAFE FLOW" INDICATOR LIGHT SIGNALS YOU TO CLEAN OR REPLACE FILTERS.


 SEALING GASKETS AROUND EDGES ASSURE AIR FLOW THROUGH THE FILTER.

ELECTRICAL

 WATTAGE - 130 WATTS HERTZ - 60 CYCLE AMPS- 1 AMP

FAN / MOTOR ASSEMBLY

 350 CFM, 2500 RPM CENTRIFUGAL BACKWARD INCLINED FAN OF REINFORCED POLYAMIDE IS STRONGER THAN STEEL; WITH MINIMAL VIBRATION CREATING HIGH AIR FLOW WITH LOWER ELECTRICAL USAGE.

 MOTOR IS A HIGH EFFICIENCY SPLIT CAPACITOR FOR CONTINUOUS LONG LIFE DUTY.

 ADJUSTABLE SPEEDS TO GIVE FINELY-TUNED AIR CHANGE.

 LOW NOISE AND VIBRATION DURING OPERATON.

 UNIT IS CSA/NRTL CERTIFIED, A WORLD-WIDE TRADEMARK.

 OVER 21,000 CUBIC FEET OF AIR CLEANED EVERY HOUR.

ULTRAVIOLET LAMPS


 FOUR 9 WATT LAMPS PRODUCT GERMICIDAL DOSAGE TO KILL BACTERIA, VIRUSES AND YEAST.

 LOCATED IN AN INTERNAL CHAMBER OF POLISHED STEEL.

 9,000 HOUR OPERATION CAPABILITY.

 REPLACEABLE BULBS.

HOUSING CONSTRUCTION

 22 GAUGE GALVANIZED STEEL WITH A POWDER PAINT COATING TO ALLOW FOR EASY CLEANING AND DURABILITY.

 UNIT OUT FLOW VIA TOP LOUVERS TO PROVIDED MAXIMUM ROOM AIR CHANGES.

 FILTER ACCESS FROM REAR DOOR OPENS WITH A SIMPLE TWIST OF 2 SCREWS.

 UNIT WEIGHT: 48 POUNDS SHIPPING WEIGHT: 53 POUNDS


WARRANTY


AIR PURIFICATION LIMITED WARRANTY


NQ Industries, Inc. warrants their air purification system to be free of defects in material and workmanship under normal use for the following time from the date of purchase.


| <u>PARTS</u> | <u>UNDER WARRANTY</u> |
|---|-----------------------|
| HOUSING AND WHEELS | 5 YEARS |
| FAN AND MOTOR | 3 YEARS |
| ELECTRICAL PARTS BALLAST, SWITCHES, SPEED CONTROL LED AND NEON LAMPS | 1 YEAR |
| UVGI LAMPS | 90 DAYS |
| FILTERS: HEPA AND CARBON | 90 DAYS |
| FILTER IS NOT COVERED FOR EXCESSIVE USE OR WEAR | |

SAFETY WARNINGS

 THE NQ Clarifier IS NOT TO BE USED IN AN OXYGEN RICH ENVIRONMENT. IF OXYGEN IS USED, THE NQ Clarifier MUST BE AT LEAST 6 FEET AWAY FROM OXYGEN SOURCE.

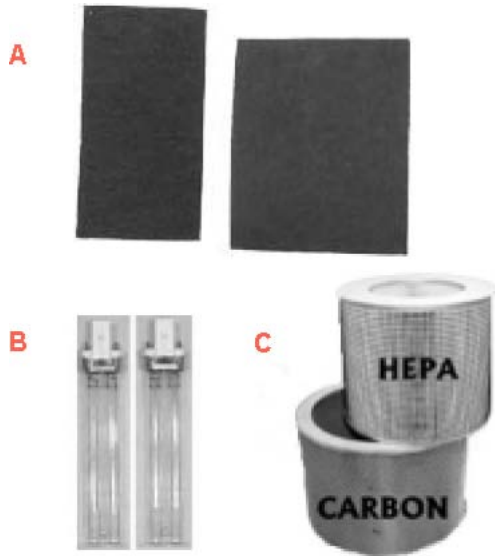
 IF THE PRODUCT IS DEFECTIVE, CALL NQ @ 800-837-8650 OR YOUR AUTHORIZED DEALER FROM WHERE YOU PURCHASED THE UNIT FOR A RETURN AUTHORIZATION NUMBER. AFTER VERIFICATION OF PURCHASE DATE (to qualify for warranty service), NQ WILL REPAIR IT OR REPLACE IT, AT THEIR OPTION.

 NQ ASSUMES NO LIABILITY FOR CONSEQUENTIAL DAMAGES OF ANY KIND AS A RESULT OF THE USE OR MISUSE OF THE SYSTEM BY THE PURCHASER, HIS/HER EMPLOYEES OR ANY OTHERS.

 THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTEES, GUARANTEES, OBLIGATIONS OR LIABILITIES, EXPRESSED OR IMPLIED. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

PARTS

TO ORDER REPLACEMENT PARTS CALL YOUR AUTHORIZED DEALER OR NQ INDUSTRIES, 1-800-837-8650



A. NQ CLARIFIER PRE-FILTER AND POST FILTER SET

B. ULTRAVIOLET LAMPS

C. CARBON-HEPA DRUM

COMPLETE REPLACEMENT PARTS PACK

INCLUDES: PRE & POST FILTERS CARBON-HEPA FILTERS ULTRAVIOLET LAMPS

Call your local dealer for pricing and availability.

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