

BIO-SCAN UV *med*



Instruction Manual

1- INTRODUCTION

Congratulations! You are now owner of a QUATRO Wall mounted air purifier, an advanced effective purifier, designed specifically for the human respiratory system. You can expect a noticeable improvement in air quality as the unit begins the process of reducing microscopic airborne particulate, dust, smoke and pollen etc. It will also deactivate the DNA of bacteria, viruses and other pathogens and thus destroys their ability to multiply and cause disease.

2- SAFETY PRECAUTION

Read all of the instructions contained within this manual before operating this unit. Keep this manual, as it contains information for proper operation and maintenance. Keep all fastening hardware tight to ensure that the unit is in safe working condition. Familiarise yourself with the way in which filters are installed & replaced. All filters must be in place whenever this machine is in operation. Use only on a grounded electrical circuit; do not use any two-wire electrical prong adapters to defeat proper grounding. If servicing the unit, be careful not to touch the motor as soon as it has been turned off. It is hot and can cause injury. **Do not substitute filters in this unit with generic brands as they may reduce unit's efficiency and/or void the warranty.**

3- ALWAYS UNPLUG FROM SUPPLY BEFORE DOING ANY MAINTENANCE OTHER THAN FILTER SERVICE.

Upon arrival, inspect unit for either visible or concealed damage. Damage should be immediately reported to the transport company.

4- INSTALLING UNIT ON WALL

- a) WALL SUPPORT BRACKET is supplied with each unit. Use bracket as a template and locate mounting holes in your wall so that they align with bracket.
- b) Bracket has 8 holes with a 2" center to center distance, sized for #10 screws (wall support screws not included)
- c) locate the WALL SUPPORT BRACKET on the wall, BRACKET can be mounted onto the wall using the following:
 - Wood stud wall: max. dimension between bracket screws is 14", locate at least one screw into wood stud, use wood screws (minimum 2" long #10);
 - Concrete or block wall: use concrete screws (1/8x2.5");
 - Drywall: use screws with proper anchors;
- d) line-up the BRACKET such that BRACKET is level, drill 2 level pilot holes;
- e) once BRACKET is installed securely, place BioScanUV onto it;
- f) close main cover;

5- PRE START-UP CHECKLIST

- a) All filters are correctly installed prior to use, Labels and serial numbers are present for future identification;
- b) Verify that power supply is compatible with equipment. Check the unit is plugged into a grounded receptacle;
- c) Unit is properly mounted on the wall.

6- START-UP

- a) Make sure the air intake area (bottom) is not obstructed in any way.
- b) Ensure power cord is plugged into properly grounded wall circuit;
- c) When unit is plugged in, all 4 panel lights will flash together 3 times, then "Air Purification Protection ON" light will illuminate, indicating unit is in operation;
- d) **WARNING: DO NOT OPERATE UNIT UNLESS ALL FILTERS ARE IN PLACE.**

7- OPERATION

Unit is designed to remove light odor and dust particles (large & small) that are suspended in the air. The Germicidal UV light will deactivate the DNA of bacteria, viruses and other pathogens and thus destroys their ability to multiply and cause disease. Particles will enter the unit at the bottom, and clean fresh air exits at the top. This unit is designed to operate 24 hours per day, 7-days a week. The unit is most efficient when operating overnight, when air in the environment is laminar, and particles are suspended in the air, thus being drawn into the unit more effectively. For MOST EFFECTIVE OPERATION, operate the unit at its HIGHEST SPEED overnight.

Quatro's "FILTER ALERT" Warning System will advise you when the unit is not operating at its peak efficiency, and maintenance must be performed:

When the Dust/odor Filter is spent, light on the Control Panel will illuminate, advising you to replace filter (approximately every 4 months).

When the MAIN HEPA Filter is spent, light on the Control Panel will illuminate, advising you to replace filter.



8- FILTER MAINTENANCE PROGRAM

Individual Filters For BioScan UV

Part No.:	Level #	Filter Type	Replacement Time
F175-odor (4/bx)	Level I	Dust/Odor Filter	Every 6 months
E215	Level II	UV Light Bulb	Every 12 months
F074	Level III	Hepa Filter	Every 24 months

2 Year Filter Kit for BioScan UV

Part No.:	Filter #:	Quantity
AG115	F175/odor (4/bx) &	4
	E215 &	2
	F074	1

9- FILTER ALERT SYSTEM AND FILTER REPLACEMENT

Proper maintenance is critical to extend the life of the filtration system. QUATRO has therefore included in this unit a "FILTER ALERT" Warning System. When the appropriate Filter Replacement Indicator Illuminates, it is time to replace the filter. The information presented below outlines basic maintenance procedures ensuring the unit will provide trouble-free operation for years to come.

Stage I (Bottom) DUST PRE-FILTER p/n F176

Dust Filter removes larger particles in the air, extending the longevity of the HEPA filter.

- When DUST PRE-FILTER Replacement indicator light illuminates:

- To replace filter you can leave the unit in operation;
- Unscrew the thumbscrew at the bottom of unit, door will swing open, remove the filter from the door, replace with clean filter, ensure you close door and tighten thumbscrew (black odor filter on top);

RESET Filter Light (see section 10)

Stage II Germicidal UV Light p/n E215

Germicidal UV Light System deactivates the DNA of bacteria, viruses and other pathogens and thus destroys their ability to multiply and cause disease. Specifically, **UV-C** light causes damage to the nucleic acid of microorganisms by forming covalent bonds between certain adjacent bases in the DNA. The formation of such bonds prevent the DNA from being unzipped for replication, and the organism is unable to reproduce. In fact, when the organism tries to replicate, it dies. The UV Light will destroy any of the above as they are trapped on the HEPA filter.

- When GERMICIDAL UV LIGHT Replacement indicator light illuminates:

- With a Phillips screwdriver, unscrew 4 screws (2 on each side), remove the entire front cover (**upon removing cover, unit will automatically shut down**);
- Germicidal UV Light is located behind the HEPA Filter, remove HEPA Filter, see below
- With HEPA removed, twist the UV light out of the two sockets, replace the new light in the same fashion (can be installed either way)
- Replace HEPA Filter, replace FILTER BRACKET and re-install two black plastic screws
- **BEFORE REPLACING THE FRONT COVER, DEPRESS the pushbutton marked GERMICIDAL UV LIGHT RESET**, this resets the Indicator light, ensure you replace door and install (4) screws;

RESET Filter Light (see section 10)

Stage II HEPA FILTER (p/n F074)

HEPA Filter is designed to capture and hold the finest particulate matter, 0.3 microns in size. Furthermore, HEPA filter works together with the Germicidal UV Light, by holding the particulate, the UV Light will kill the viruses and microorganisms.

- When HEPA FILTER Replacement indicator light illuminates:

- With a Phillips screwdriver, unscrew 4 screws (2 on each side), remove the entire front cover (**upon removing cover, unit will automatically shut down**);
- Unscrew the two black plastic knobs, remove the white FILTER BRACKET, and lift up the HEPA Filter, remove and replace with New filter
- Replace door and install (4) screws;

RESET Filter Light (see section 10)

10- RESETTING FILTER LIGHTS

When filters need to be replaced, the filter light illuminates and beeper sounds for 2 seconds every 4 hours.

After replacing filters, WHILE THE UNIT IS OPERATING, reset filter lights as follows:

1) To go into FILTER RESET MODE, hold down UP & DOWN Speed Arrows until panel "BEEPS" (in 5 seconds). Once panel BEEPS, appropriate Filter Replacement Light(s) flash.

- To RESET LIGHTS: HOLD DOWN arrow UP until panel BEEPS, or
- to go to next light below press arrow DOWN
- If you HOLD DOWN arrow UP until panel BEEPS to reset the light, next light will automatically flash if it requires to be reset.

If no other filter needs to be replaced (no other light is on), unit automatically goes to OPERATION MODE.

(If you need to return to light that was skipped over while in Filter Replacement Loop, continue pressing arrow DOWN to get out of Filter Replacement Loop. Go to 1) & press arrow UP/DOWN until it BEEPS & start over.

11- MOTOR SERVICE

- The motor is brushless. No user motor maintenance is required .

12- ANNUAL GENERAL INSPECTION

Unit is optimally designed for your application. If filters are replaced on a regular basis, there is no need for any maintenance inspections.

13- TROUBLESHOOTING GUIDE

Symptoms	Possible Cause	Suggested Solution
Unit will not start	Faulty Power supply Return or supply grille blocked Front cover not installed Circuit Breaker popped Unit not plugged into receptacle	Check breaker box Remove obstruction Depress the door switch to see if unit is operational Reset circuit breaker Plug unit in
Excessive noise	Motor wheel contacting inlet ring	Realign/replace motor
Insufficient airflow	Obstruction in system or clogged filters Unit operating on low speed	Remove obstruction or replace filters Adjust speed by pressing on speed arrows
Excessive airflow	Filters not in place	Install filters

16- REDUCTION IN AIRFLOW

As the unit cleans the air, the filters are removing the particles of dust and dirt in the air. As the filters accumulate dirt (both visible and microscopic), a restriction on the motor is created. As the restriction becomes greater, the air capacity delivered by the motor decreases and the air purification less effective. IT IS VERY IMPORTANT TO CHANGE FILTERS ON A REGULAR BASIS (See filter maintenance above).

17- WARRANTY

QUATRO Air Technologies warrants its equipment to be free from defect in material and workmanship under normal use and service for a period of two year from date of shipment. QUATRO's obligation under this warranty shall be limited to replacing any parts, thereof, which shall be demonstrated to have been defective. This is expressly in lieu of all other warranties, express or implied, including the warranties of merchantability and fitness. QUATRO claims no warranty as to merchantability or as to the fitness of the merchandise for any particular use and shall not be liable for any loss or damage. No person, firm or corporation is authorised to assume for QUATRO any other liability in connection with the sale of these goods. Equipment, parts and material manufactured by others and incorporated in QUATRO's equipment are warranted by QUATRO only to the extent of the original manufacturer's liability to QUATRO Air Technologies Inc.

Conditions and Limitations:

This warranty does not cover abuse, misuse, maintenance negligence, improper assembly, acts of vandalism, acts of God, fear wear, modifications of the equipment or installation of a part not recommended by QUATRO Air Technologies, as well as operation of the equipment at voltages other than those specified by QUATRO Air Technologies Inc.

18- SPARE PARTS

Qty	Description	Part
2	Black Hepa Holding Caps	H352
1	Hepa Holding Bracket	M095-05
1	Blower Motor Assy-230v	AB015
1	Blower Motor Assy-120v	AB012

Qty	Description	Part
1	Plastic Discharge Grille	H507
1	Replacement Circuit Board	E250-B1
1	Line cord (Std-230v)	E130
1	Line cord-120v	E118

Qty	Description	Part
1	Dust / Odor Filter	AG114
1	Dust Filter	F175
1	HEPA Filter	F074
1	Germicidal UV Light Bulb	E215



FIGURE 1 – Wall Support Bracket