



Air Technologies Inc.

Engineers of Clean Air

Gold-Vault / MedEVAC mini



Operations & Maintenance Manual

IMPORTANT:

Save shipping box and foam for future service. Shipping without proper foam will cause damage to unit.

LIST OF COMPONENTS

Dust Collector/Purifier

Open Lid of Dust Collector, you will find power cord.

UNIT INSPECTION

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

If you suspect concealed damages inside the box indicate so, on the transport companies' shipping documents.

SAFETY PRECAUTIONS

Carefully read instructions in this manual before operation (keep 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 the special filter is removed, installed, and serviced. Filter must be in place whenever this machine is in operation. Use only on grounded electrical circuit; do not use two-wire electrical prong adapters to defeat the three-pronged plug on the end of the cord. **Do not substitute any other filter for the one supplied, as it will alter the design characteristics. UNPLUG UNIT FROM ITS POWER SUPPLY PRIOR TO SERVICING UNIT!**

OPERATING INSTRUCTIONS

- Connect 1-½" dia. hose to inlet on top of unit
- Plug-in the power cord to both Dust Collector / Purifier Control Panel and 115-volt wall outlet;

Engineers Of Clean Air

- c) Switch toggle to “ON” position.

EQUIPMENT MAINTENANCE (in order from top to bottom)

Filter Bags: When you notice a significant drop in suction, it is time to change the filter bag. Do not try to clean filter bag as this will result in tear. To replace Filter Bag, unhinge top cap of unit and remove cap. Slide the bag inlet off the inlet pipe and replace.

Perforated Metal Grille: MUST be placed between the filter bag and the filter below it. When filter fills with debris, Perforated grille prevent debris in filter bag from blocking the filter below it.

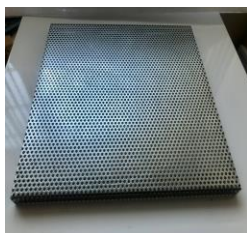
Odor Filter: Ensure this is always placed on top of HEPA filter.

HEPA Filter: This is the most efficient filter and must be installed LAST, and just above the motor section.

WARNING: DO NOT OPERATE UNIT UNLESS FILTER IS IN PLACE, AS MOTOR MAY BURN-OUT.



Filter Bag



Perf Spacer



Odor Filter



HEPA Filter

To Replace Filters:

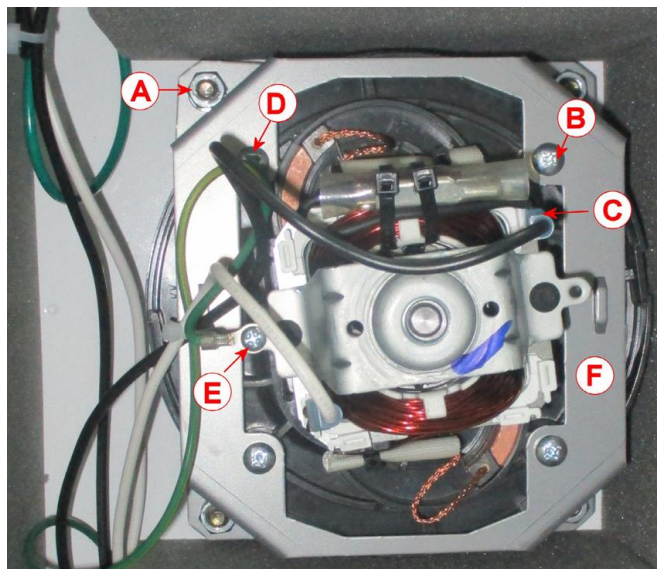
- Remove Cover, Bag filter is slipped thru the tube in the cover
- Odor & HEPA filters installed gasket side facing DOWN, install HEPA filter first

NOTE: The above filter sequence is ideal for higher debris, lower fine particle applications

If your application contains high odor/fine particles and less larger debris, replace above filters with “ALL-IN-ONE” Dust/Odor Filter (AG365-GPC), call Quatro customer service for more details.

BLOWER MAINTENANCE

Refer to following figure when performing this procedure.



- A . Retaining nuts (4X)
- B . Motor-to-bracket, mounting screws (4x)
- C . Black wire terminal
- D . Green wire terminal
- E . White wire terminal
- F . Motor retaining bracket

1. Unplug power cord and open motor access panel
2. Disconnect wires (C, D,E), cut zip ties
3. Remove the retaining nuts (A) and lock washer holding the motor assemblies
4. Remove the motor retaining bracket (F) from the old motor by removing the 4 mounting screws (B)
5. Install the bracket on the new motor. See the installations pictures below.

CAUTION:  ALLOW MOTOR(S) TO COOL FOR 45 MINUTES BEFORE SERVICING.



Note the orientation of the bracket.

Troubleshooting

Symptoms	Possible Cause	Suggested Solution
Unit will not start	<ul style="list-style-type: none"> Faulty Power supply Blown fuse Unit not plugged into receptacle 	<ul style="list-style-type: none"> Check breaker box Replace fuse Plug unit in
Excessive noise	<ul style="list-style-type: none"> Turbine impeller contacting housing 	<ul style="list-style-type: none"> Replace motor (PN: AR175)
Insufficient airflow	<ul style="list-style-type: none"> Obstruction in system Clogged filter 	<ul style="list-style-type: none"> Remove obstruction Replace filters
Motor Shuts	<ul style="list-style-type: none"> Input amperage too high Motor is burnt 	<ul style="list-style-type: none"> Ensure filter is in place, reset circuit Breaker Replace motor (PN: AR175)
Excessive airflow	<ul style="list-style-type: none"> Filter not in place 	<ul style="list-style-type: none"> Install filter
Suction varies from workstation to workstation	<ul style="list-style-type: none"> Hose lengths between stations vary 	<ul style="list-style-type: none"> Adjust damper or blast gate at each station equalizing suction

Replacement Parts

Description	Part	Description	Part
WHITE Filter Bag,3/pkg	AG321-03	YELLOW Filter Bag, 2/pkg	AG320-02
HEPA Filter	F229	Odor Filter	F230
Metal Perf Filter Spacer	M488	Dust/Odor/HEPA "All-In-One" Filter Box	AG365-GPC
ON-OFF-ON Toggle Switch	E035	Speed Control Dial Assy	AR010
Replacement Turbine, 120v	AR175	Circuit Breaker(120v) w/ spacer	AR110

*** Consult factory for 230v parts

OPTIONALLY AVAILABLE REMOTES:



#AA011 - Hand Switch

#AA012 – 2-Station Hand-Switch

#AA114 - Foot-Pedal

#AA224 – 2-Station Foot-Pedal

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 one 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 authorized 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.

DISCLAIMER

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.

THE SYSTEM IS DESIGNED TO BE CONSTANTLY POWERED (PLUGGED IN). USE THE ON/OFF ONLY SWITCH TO TURN THE SYSTEM ON and OFF.

-----**Engineers Of Clean Air**-----

ALWAYS SWITCH THE POWER OFF BEFORE UNPLUGGING THE SYSTEM FROM THE MAIN POWER SOURCE OR BEFORE CUTTING POWER TO THE RECEPTACLE. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE SYSTEM THAT IS NOT COVERED UNDER WARRANTY.
 QUATRO IS NOT LIABLE FOR MISAPPLIED EQUIPMENT. ALWAYS CHECK SYSTEM VOLTAGE BEFORE PLUGGING INTO POWER SOURCE.

WARNINGS

Flex Hose Warning: This product can expose you to chemicals including DEHP and DINP, which are known to the States of California to cause cancer, and DEHP and DIDP, which are known to the State of California to cause birth defects of other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- 1) This is a class A product. In domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.
- 2) This filtration system is not intended for use with explosive, highly flammable, or toxic substances or environments. (Example: where the lower flammability limit may be exceeded, see chemicals' specific MSDS for more information on these limits.)
- 3) If you are collecting a flammable material, it is your responsibility to ensure that an ignition source is not introduced into the collected material. This could be in the form of static discharge, flames, sparks, cigarettes, matches, chemicals causing exothermic reactions, or any other source of ignition that could ignite the collected material.
- 4) If you are not sure if your product is explosive or considered highly flammable, you should have it tested before operating your filtration or dust collection system.
- 5) Ensure that the system and the installation comply with all local NFPA and OSHA regulations.
- 6) Always unplug your system when inspecting or performing maintenance.



Any changes to the system will void all warranties. Only original Quatro-approved products should be used for repairs of any kind.

HOW TO PLACE FILTERS INTO YOUR UNIT:



Filter Sequence: From Top down:

Filter Bag, insert into access lid

Yellow filter bag shown

YELLOW bags: #AG320-02 (2/pack)

WHITE bags: #AG321-03 (3/pack)

White filter bags are primarily used for larger particles (like those in the Jewelry industry).

Perforated Metal grille #M488

Odor Filter #F229

HEPA Filter #F230

(must always be installed first, LAST filter before the motor)

Engineers Of Clean Air