Air-Care™
INDOOR AIR QUALITY SPECIALISTS

TURBO Max II

ADVANCED DUCT CLEANING SYSTEM

1.5 HP USER GUIDE

TURBOMAX II 1.5 2-SPEED

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UNPACKING

Remove the outer box and inspect for damage. Report all damage immediately to your carrier. If special set-up instructions are required, they will be taped to the outside of the equipment or in the "Operating" section of this manual. Inspect all of the packing material for small parts before discarding packaging material. Report all damage to Air-Care immediately. Any attempt at repairing damages may void warranty.

Check that all parts are present (See Page 10)

TurboMax II Main Assembly, with Wheels, Motor and Blower. Release the 4 side latches and lift the front of the upper section so it hinges up to check for filters.

o First stage, 18" x 24" x 1" Disposable Pad Filter

o Second stage, 16.75" x 22" Flex Electrostatic Air Filter

o Third stage, 18" x 24" x 4.75" Certified HEPA Filter

o 25' Grounded Extension Power Cord.

o The Rotation molded handle is shipped loose in the box.

SAFETY

Always use safe and common sense precautions when working with Air-Care equipment. Do not block walkways with equipment, and remove delicate and breakable articles from the immediate work area. The following are precautions that should be reviewed by all persons who will be involved in the cleaning activity:

- Other than the 3 filters, there are no user serviceable components in Air-Care TurboMax II. Only trained technicians should attempt to make internal repairs on this equipment.
- Always turn off the main power switch on the TurboMax II front panel, and disconnect the power before opening or removing the doors or filters.
- Inspect AC power plug to be sure the ground pin is in place. DO NOT USE AN EXTENSION CORD. Plug directly into power outlet.
- Never connect power to Air-Care equipment unless all covers and safety shields are in place. Mechanical and electrical parts could activate and cause injury.
- Never allow anyone but a properly trained technician to use the equipment or cleaning products.
- All Air-Care equipment is designed for US standard 115 volt, 60 Hz AC. Most Air-Care equipment can be special ordered to meet other worldwide standards for a reasonable price and delivery schedule. Always check the specifications on the equipment before connecting electrical power to Air-Care equipment.

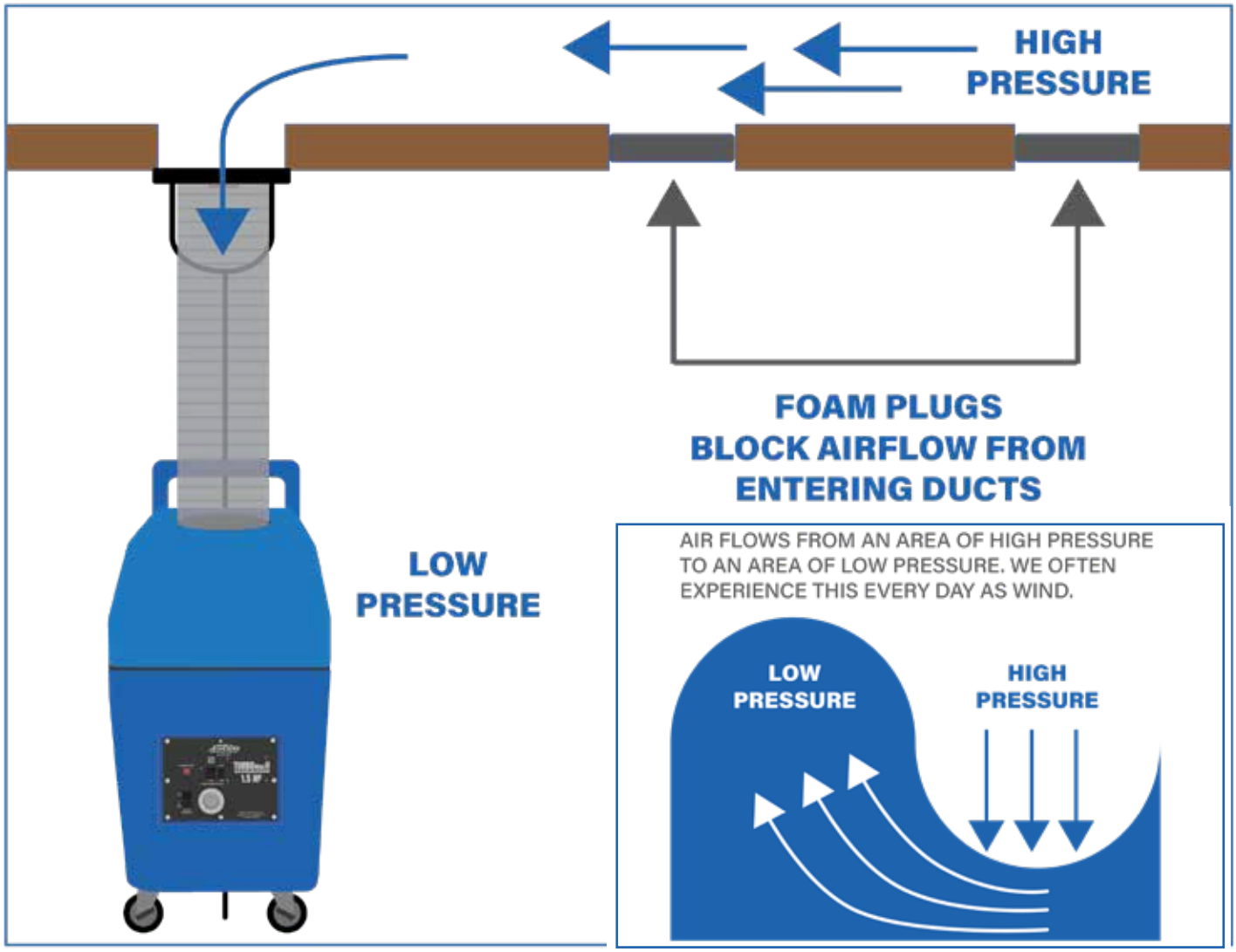
If you have questions about the safe use of any Air-Care product, call 702-454-5515

HANDLE INSTALLATION

Handle is wrapped and packed near the bottom, front of TurboMax II.

It must be installed with the 4 bolts provided and your ½" socket wrench or nut driver.

WHAT IS NEGATIVE AIR CLEANING?



SET-UP AND TESTING

Air-Care TurboMax II Negative air machines are designed to “Pull” debris out of the air system to which they are connected and filter out harmful debris such as pollen, dust, mold spores and other debris with its 3 stage HEPA filter system. An agitating device to “Push” debris is required to properly clean an air system. The Cobra Power Brush System or the Air Whisk and Sidewinder air tools are designed to loosen and agitate debris so the TurboMax II can pull it out. See the “Duct Cleaning” section below for a summary of proper duct cleaning procedures.

To test the TurboMax II, be sure all filters are in place and the Top is closed and latched in place.

1. Attach the 12 gauge x 25-foot power cord to a dedicated outlet (one that has no other devices currently connected).

2. Turn on the circuit breaker/switch on the front panel.

3. The Max II has “High” and “Low” speed, so Select either “Low” (13 Amp) or “Hi” (17 AMP) speed (depending on available power) then turn on the “Start” switch.

4. The soft start feature will slowly climb to full speed within a few seconds.

5. The Single Speed TurboMax II operates in the same manner.

DUCT CLEANING PROCEDURES

Effective duct cleaning can be accomplished with the TurboMax II connected to one of the following positions in the duct system. The “best” location is determined by the specific configuration of the particular air system.

A. With a basement or crawlspace air conditioner/furnace

Cutting an access hole in the side of the supply side main trunk line is very effective. Be sure that no airflows through the furnace a/c coils. To stop air from coming through the furnace, block the return openings with cardboard and duct tape. An alternate way to block the airflow would be to slip the customers existing furnace filter in a plastic trash bag and reinstall. If there are returns in each room, you will also need to connect to the return trunk line at the furnace and block it off while cleaning the return ducts. If you need advice on how to connect to an unusual system, call Air-Care for assistance

B. With a garage, interior closet or roof mounted up-flow air conditioner/furnace

Just remove the diffuser grill from a large ceiling or wall mounted supply duct and use the Pogo Pole hose adapter to connect the TurboMax II inlet hose to the system. Connecting to a large supply duct is very effective. Gravity will help “pull” dust and debris into the TurboMax II.

DUCT CLEANING PROCEDURES

In some cases, it may be best to attach the TurboMax II to each Supply or return duct and insert the agitation device into that same duct opening to disturb debris as far up stream and down stream as possible.

To obtain maximum “pull”, always keep the attaching hose as short and as straight as possible.

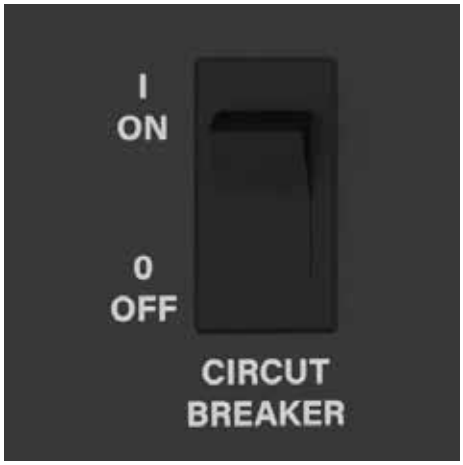
1. Bring the TurboMax II into close proximity to the planned connection ducts.

2. Connect 12 gauge electrical power cord directly to a suitable electrical outlet (110V, 15AMP or more)

3. Connect a 12” hose to the 12” TurboMax II inlet.

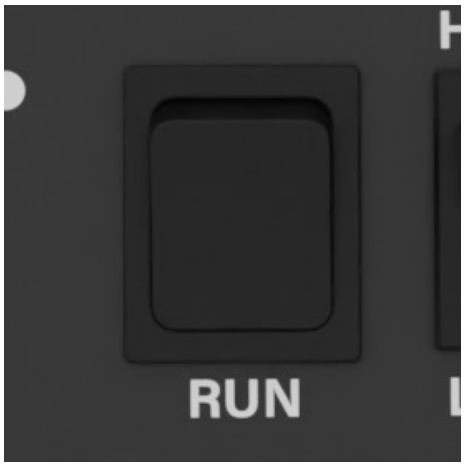
4a. Connect the other end to the most effective supply duct location using the optional Pogo Pole hose adapter or adapter plate.

5. Close off the return side of air handler by putting a filter in a plastic bag and reinstalling it into its holder.

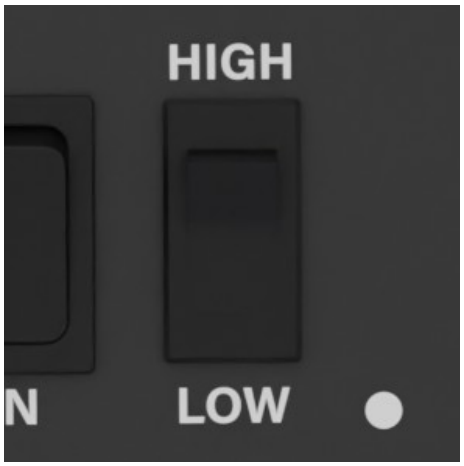


6. Turn on the power switch located on the control panel.

DUCT CLEANING PROCEDURES



7. Then turn on the start switch and the green power light will go on and the blower motor will start providing strong suction. The TurboMax II will run on 15 amp or 20 amp circuits.



8. The TurboMax II can be set to "High" speed If a 20 amp Power outlet is used.

Follow recommended procedure to clean each supply, beginning at the most distant one, using the Sidewinder or Air Whisk, or Cobra Power Brush System (sold separately).

9. After all ducts are cleaned, the ducts can be fogged with an EPA registered sanitizer and Soot Set Sealer.

10. Before fogging the supplies, turn off the power switch.

11. Remove hose from the top of the TurboMax II.

12. Place a piece of pellon, 20" X 22" over the 12" inlet.

13. Re-install the hose, and turn on the power switch.

14. Fog the supplies, beginning with the most distant supply.

15. When the fogging is complete, turn off the power; remove the hose from the TurboMax II and the supply duct.

16. Remove and discard pellon.

17. Inspect first stage filter, if loaded with debris, Dump it out or replace as required.

18. Inspect electrostatic flex filter and wash if soiled.

19. Unplug power cords, put TurboMax II back into the vehicle, and complete the job.

TROUBLESHOOTING GUIDE

Symptom	Check	If	Corrective Action
No vacuum with motor running.	Is blower turning?	**Yes**	Call Air-Care: 1-800-322-9919
		No	
Airflow & vacuum, felt at inlet with motor running but not connected to duct.	Are the 1st stage pad and 2nd stage Electrostatic filters clean?	**Yes**	Replace HEPA filters as required.
		No	Clean 1st and 2nd stage air filters.
Insufficient “pull” at duct.	Vacuum OK at TurboMax II Collar.	**Yes**	Clean or replace filters as required.
		No	Check for disconnected, collapsed or broken system ducts.
		No	Inspect 12” hose for cracks or holes.
Circuit breaker trips when TurboMax II is turned on.	Is the TurboMax II connected to a dedicated 115-volt, 15 or 20-amp line?	**Yes**	Be sure TurboMax II is connected directly to the power outlet. DO NOT use an extension cord.
		Yes	Be sure that only the original 12 gauge (or heavier) 25 ft. power cord is used on the TurboMax II.
		Yes	Call Air-Care
		No	Find an outlet on a line that does not have other devices connected to it.
		No	Use the TurboMax II on “low” speed only.

MAINTENANCE

The TurboMax II requires a minimum amount of maintenance, normally limited to cleaning or replacing filters as they become filled with dirt and debris. Cleaning the 1st and 2nd stage filters daily will extend the life of the 3rd stage HEPA filter.

1st and 2nd Stage Filter Replacement

1. The 1st stage disposable polyester pad is mounted in the top section of the TurboMax II and held in place with a metal bracket at one end and a flip latch on the other end. They should be cleaned when visibly dirty and at the end of each workday. The duct debris captured in the upper section and first stage filter can be collected in a trash bag placed over the 12" Hose inlet and secured with the Velcro strap.

First Stage Filter

Unlatch the top section and tip it back on its hinge so the debris falls into the bag from the upper section of the TurboMax II and its first stage filter. Follow all local regulations on disposing of material removed from the ducts. In critical areas, such as hospitals, it is required to cover the inlet with 6-mil plastic when the job is completed to prevent the collected debris from escaping and contaminating the area while it is removed from the building to be emptied in a non- critical area where the trash bag can be disposed of safely. The first stage filter can be put into the same trash bag for disposal.

2. When necessary, wash the 2nd stage filters with a garden hose and nozzle at full force. First rinse in the opposite direction of the airflow, then rinse both sides. Occasionally, a degreaser such as Air-Care C.E.F electrostatic filter cleaner may be required to restore this filter to its' peak performance. Let the filter air dry before reinstalling into the unit.

Second Stage Filter

Note: When there is not sufficient time to allow filters to dry before using the TurboMax II, simply dry vacuum the loose debris off of the filters' surfaces or use compressed air in an appropriate outdoor area. Wear a protective mask.

When the red "Change HEPA" light is on, the 3rd stage HEPA filter should be replaced (approximately once or twice per year, if other filters are cleaned regularly). There is no safe way to clean the HEPA filter without a risk of damaging it.

NOTE: NEVER WASH THE HEPA FILTER WITH WATER.

MAINTENANCE

HEPA Replacement

1. Open the upper section of the TurboMax II to gain access to the filters. The first stage filter will be held in the upper section of the TurboMax.

2. 2nd stage flex filter is mounted in the top of the HEPA filter.

3. Use care when removing the 3rd stage HEPA filter mounted in the bottom half of the cabinet. When the airflow through the inlet is noticeably reduced and the 1st & 2nd stage filters are clean, it is time to replace the 3rd stage HEPA filter.

NOTE: Applying compressed air pressure or using a vacuum brush on HEPA filter surface will damage the filter. If you have any questions, please call Air-Care at 800-322-9919

Third Stage HEPA Filter

PARTS AND ACCESSORIES

Description	Part #
TurboMax 2 COMPLETE ASSEMLY (Two Speed)	FG0061
TurboMax II Main Assembly, with Wheels, Motor and Blower intact	Call
First stage, 18" x 24" x 1" Frame and Disposable Poly Pads	FG0259
Second stage, 16.75" x 22" Flex Filter	F0044
Third stage, 18" x 24" x 4.71" HEPA Filter	COM0703
25' Extension Power Cord, 12/3	EC0005
12" Non-Marking Wheels	ACC0006
Front Swivel Casters	COM0096
Pogo Pole (Optional)	FG0040
12" Diameter Hose Collar	FG0041
Cap Plug, 4" Red (for Pogo Pole Assembly)	COM0239
12" x 12.5' Heavy Duty Hose with Velcro Straps	FG0056
12" x 25' Light Duty Mylar Hose with Velcro Straps	FG0013
Foam Register Plugs, 14pc./pkg.	FG0050
Pre-Filter, Pellon Moisture Barrier Sheets, 12/pkg.	SAO0079
Air-Care Single Fogger 120 Volt (for 220 Volt Call) (Optional)	FG0186
Cobra Power VI Brush System (Not shown) (Optional)	FGO194
Truckmaster II (Not shown) (Optional)	FGO193
Forward and Reverse Air Whisk System (requires air compressor) (Optional)	FG0015
Sidewinder Hose Assembly (requires air compressor) (Optional)	FG0030
HEPA Back Pack Vacuum 120 Volt (for 220 V Call) (Optional)	FG0069

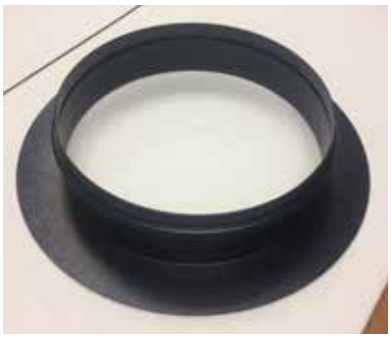
PARTS AND ACCESSORIES

- **A** Molded Handle
- **B** 12" Dia. Hose Inlet
- **C** Locking Latch
- **D** 1st Stage 18" x 24" x 1"Disposable Filter Pad
- **E** 2nd Stage 16.75" x 22" 94% Electrostatic Flex Air Filter
- **F** 3rd Stage 18" x 24" x 4.71" HEPA Filter
- **G** Exhaust Grills
- **H** Front Swivel Casters
- **I** 12" Non-Marking Wheels

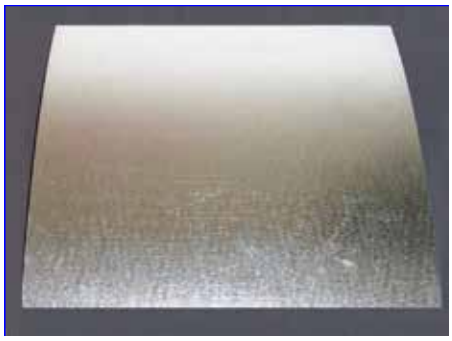
- **A** HEPA Change light
- **B** Power Receptacle
- **C** Circuit Breaker/Power Switch, Dual 20 amp.
- **D** Light, Panel "PWR"
- **E** Switch, Hi/Low Speed
- **F** Switch, SPDT Start

OPTIONAL PARTS AND ACCESSORIES

12" Pogo Pole Hose Adapter (Complete Assembly comes with Pole, Fork, 20 X 20 X 2 Foam attached to 12" Steel Pogo Plate & 4" Red Cap Plug) (FG0040)



12" Adapter Plate (FG0041)



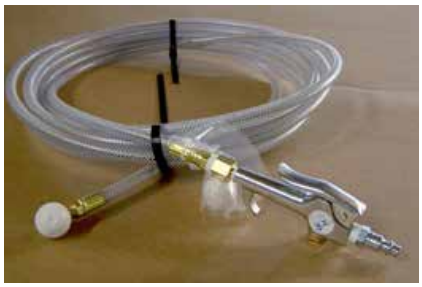
12" x 12", 26 gauge, Galvanized Steel Duct Patches

Pre-Filter, Pellon Moisture Barrier Sheets (12/pkg)

Foam Register Plugs (14/pkg)

Sidewinder Hose Assembly

12" x 12.5" Light Duty Mylar Hose with Velcro Straps



Forward and Reverse Air Whisk System

HEPA Back Pack Vacuum

Air Care Single Fogger (FG0186)

SPECIFICATIONS

Specification	Description
Size	19.5″ W x 29″ D x 55 ½″ H
Weight	125 lbs.
Power required	120 V, 60 Hz, 13 to 17 amps.
Power Cord	25′ Extension Cord, 12 gauge
Filtration	4 stages when Pellon pre-filter used
Pre-Filter	Pellon Moisture Barrier
1st Stage	18″ x 24″ x 1″ Disposable Polyester Filter Pad + 1″ Frame
2nd Stage	16.75″ x 22″ Electrostatic Flex Filter
3rd Stage	18″ x 24″ x 4.71″ Certified HEPA Filter
Attachment	12″ Dia. Inlet
Operating Environment	25 to 125 Deg. F (-4 to 50 Deg. C)
Construction	Rotation Molded Poly with Steel Base and Motor Mount
Operating Controls	Single Plug-able Panel with all Indicators, Switches, & Meters
Air Flow	Max II: 3000 CFM Free Air/ 2700 CFM Filtered
Static Pressure	5.0″ W.G.
Motor	Max II – 1.5 HP 3 Phase Motor and One – Single Phase to 3 Phase Inverter with Soft Start and Dual Speeds.
Blower	One - Backward Inclined
Wheels	Two - 12″ Fixed Rear and Two - 4″ Front Swivel Non-Marking Locking Wheels

*All specifications and prices are subject to change and improvement without notice.

LIMITED WARRANTY

TURBOMAX II 1.5 HP

Air-Care warrants this product to be free from defects in materials and workmanship to the original purchaser for a period of Three (3) years from the date of purchase. Components listed below are excluded from this Three year period and are covered for periods described below:

Blower Motors	**1 Year**
Power Inverter	**1 Year**
Wheels & Filters	**No Warranty**

Warranty covers both parts and labor (labor is to be performed at Air-Care's facility located at 3868 E. Post Road; Las Vegas, Nevada).

Warranty is extended to the original purchaser and is not transferrable.

This warranty does not extend to any damage to a product caused by or attributable to freight damage, abuse, misuse, improper or abnormal usage. Warranty is also void if the product has been modified or altered in any way.

The purchaser is responsible for the cost of shipping the equipment to Air-Care's facility for evaluation. If found to be defective and covered by the terms of this warranty, Air-Care will pay FedEx ground shipping charges on the repaired or replaced item back to the purchaser's location. Any additional expedited service charges for quicker shipping shall be born by the purchaser. If the product or component is not found to be a warranty issue, the purchaser will be responsible for return shipping charges.

Air-Care is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with the use of performance of the product; damages with respect to any economic loss, loss of property, loss of revenues or profits, loss of use, or other incidental or consequential damages of whatsoever nature.

The warranty extended hereunder is in lieu of any and all other warranties, and any implied warranties of any type.

This warranty gives you specific rights. These rights and others vary from state to state.

Division of D.P.L. Enterprises Inc.
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