



# TURBOmax I

ADVANCED DUCT CLEANING SYSTEM

USER GUIDE



**Air-Care™**

# TURBOMAX I



**Division of D.P.L. Enterprises Inc.**

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# UNPACKING

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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**

TurboMax 1 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

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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 1. Only trained technicians should attempt to make internal repairs on this equipment.
- Always turn off the main power switch on the TurboMax 1 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

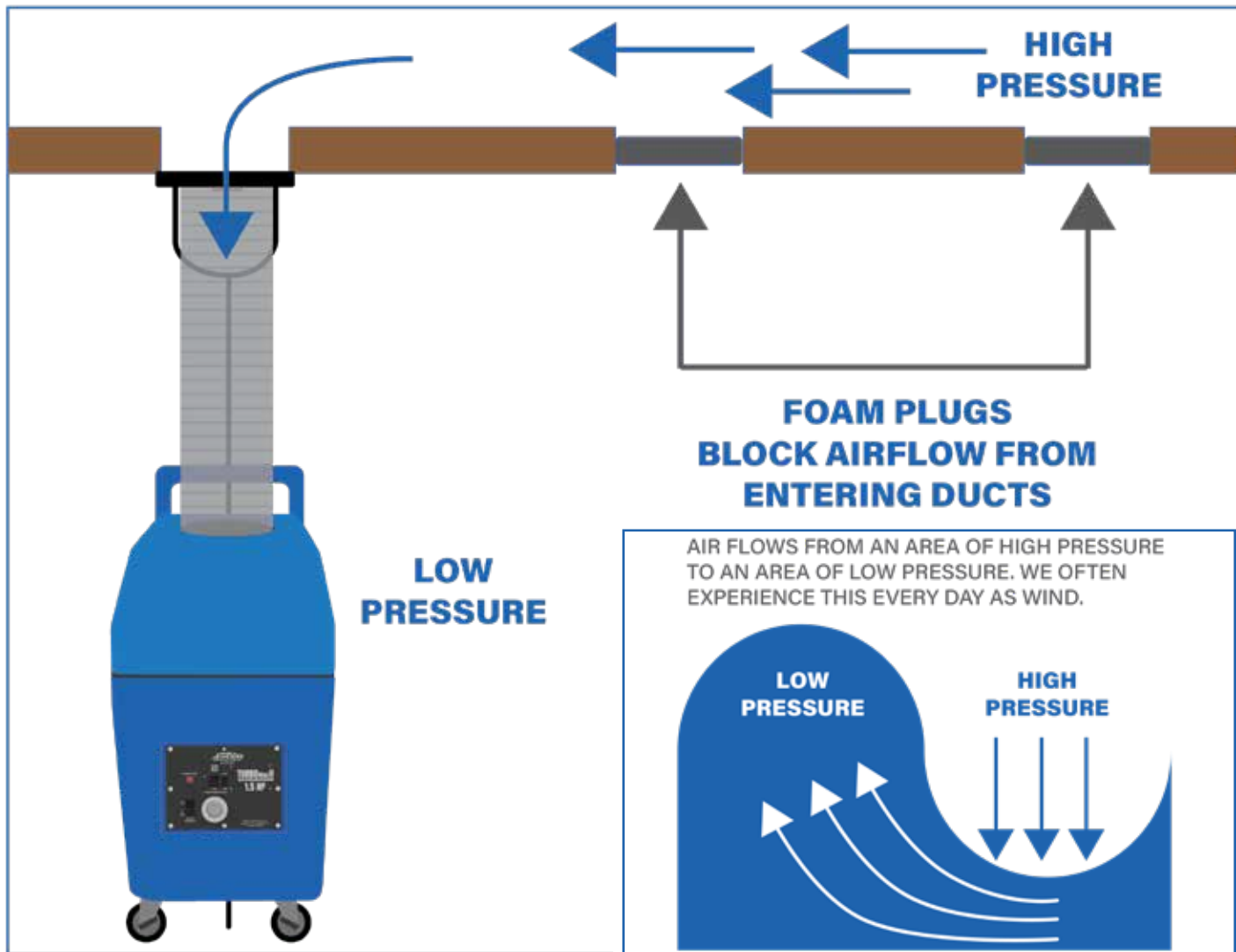


Handle is wrapped and packed near the bottom, front of TurboMax 1.



It must be installed with the 4 bolts provided and your 1/2" socket wrench or nut driver.

# WHAT IS NEGATIVE AIR CLEANING?



## SET-UP AND TESTING

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Air-Care TurboMax 1 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 1 can pull it out. See the “Duct Cleaning” section below for a summary of proper duct cleaning procedures.

**To test the TurboMax 1, 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 motor will acceleraate to full speed within a few seconds

## DUCT CLEANING PROCEDURES

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Effective duct cleaning can be accomplished with the TurboMax 1 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 1 inlet hose to the system. Connecting to a large supply duct is very effective. Gravity will help “pull” dust and debris into the TurboMax 1.

# DUCT CLEANING PROCEDURES

In some cases, it may be best to attach the TurboMax 1 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 1 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)



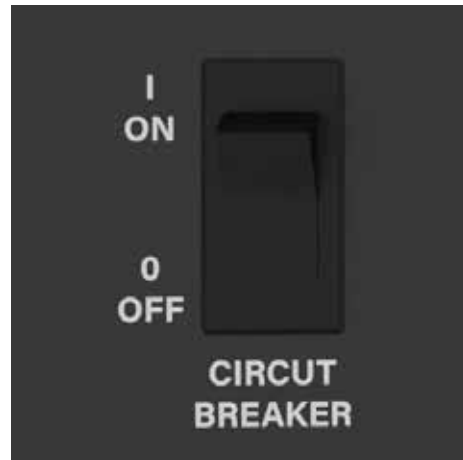
3. Connect a 12" hose to the 12" TurboMax 1 inlet.



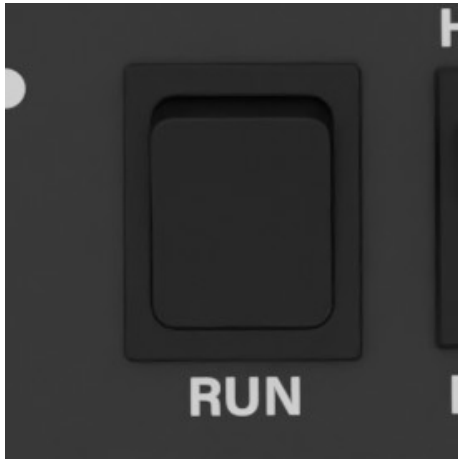
4. Connect the other end to the most effective supply duct location using the optional Pogo Pole hose adapter or adapter plate.



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. The green power light will turn on.



7. Then turn on the start switch and the blower motor will start providing strong suction. The TurboMax 1 will run on 15 amp or 20 amp circuits.



8. After all ducts are cleaned, the ducts can be fogged with an EPA registered sanitizer and Air-Care's Liquid Ultra Odor Kill.

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

11. Remove hose from the top of the TurboMax 1.

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 1 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 1 back into the vehicle, and complete the job.



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

# MAINTENANCE

The TurboMax 1 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 1 and held in place with a metal frame should be replaced when visibly dirty or 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.

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 1 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 Filter Cleaner may be required to restore this filter to its' peak performance. Let the filter air dry before reinstalling into the unit.

Note: When there is not sufficient time to allow filters to dry before using the TurboMax 1, simply dry vacuum the loose debris off of the filters' surfaces or use compressed air in an appropriate outdoor area. Wear a protective mask.

**NOTE: NEVER WASH THE HEPA FILTER WITH WATER.**



First Stage Filter



Second Stage Filter

### HEPA Replacement

1. Open the upper section of the TurboMax 1 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 or the Change HEPA Light is on, 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**

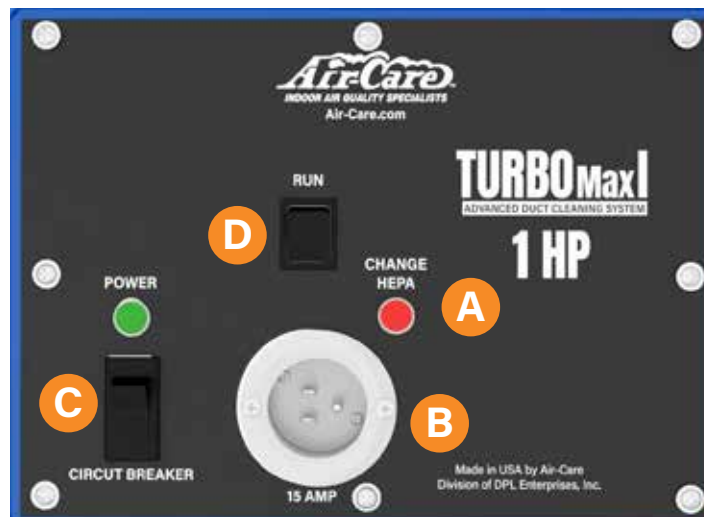


Third Stage HEPA Filter

Description	Part #
TurboMax 1 COMPLETE ASSEMBLY	FG0280
TurboMax 1 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	F0560
Third stage, 18" x 24" x 4.75" HEPA Filter	COM0703
25' Extension Power Cord, 12/3	EC0005
12" Non-Marking Wheels	ACC0006
Front Swivel Casters	COM0096
Pogo Pole (Optional)	FG0038
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 Fogger 120 Volt (for 220 Volt Call) (Optional)	FG0186
Cobra Power VI Brush System (Not shown) (Optional)	FG0194
Truckmaster II (Not shown) (Optional)	FG0193
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



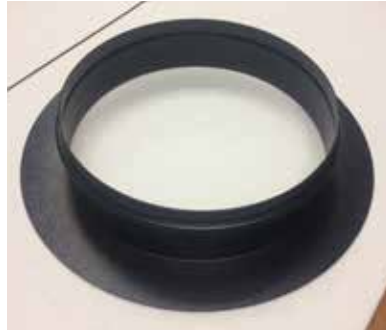
- A** Molded Handle
- B** 12" Dia. Hose Inlet
- C** Locking Latches
- D** 1st Stage 18" x 24" x 1" Disposable Filter Pad for Permanent Metal Frame and Expanded Metal
- E** 2nd Stage 16.75" x 22" 94% Electrostatic Flex Air Filter
- F** 3rd Stage 18" x 24" x 4.71" HEPA Filter
- G** Exhaust Grills
- H**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



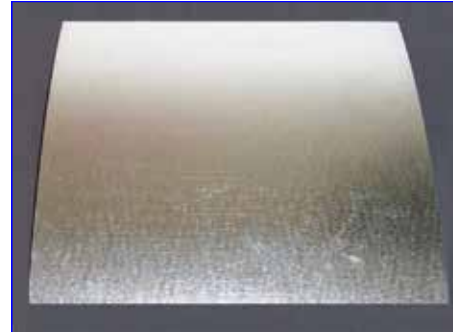
- A** HEPA Change light
- B** Power Receptacle
- C** Circuit Breaker/Power Switch, Dual 20 amp.
- D** Switch, SPDT Start



12" Pogo Pole Hose Adapter (Complete Assembly comes with Pole, Fork, 20 X 20 X 2 Foam attached to 12" Poly 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 Fogger (FG0186)

## SPECIFICATIONS

Specification	Description
<b>Size</b>	19.5" W x 29" D x 55 ½" H
<b>Weight</b>	125 lbs.
<b>Power required</b>	120 V, 60 Hz, 13 to 17 amps.
<b>Power Cord</b>	25' Extension Cord, 12 gauge
<b>Filtration</b>	4 stages when Pellon pre-filter used
<b>Pre-Filter</b>	Pellon Moisture Barrier
<b>1st Stage</b>	18" x 24" x 1" Disposable Polyester Filter Pad + 1" Frame
<b>2nd Stage</b>	16.75" x 22" Electrostatic Flex Filter
<b>3rd Stage</b>	18" x 24" x 4.71" Certified HEPA Filter
<b>Attachment</b>	12" Dia. Inlet
<b>Operating Environment</b>	25 to 125 Deg. F (-4 to 50 Deg. C)
<b>Construction</b>	Rotation Molded Poly with Steel Base and Motor Mount
<b>Operating Controls</b>	Single Plug-able Panel with all Indicators, and Switches
<b>Air Flow</b>	2500 CFM Free Air/ 2000 CFM Filtered
<b>Static Pressure</b>	5.0" W.G.
<b>Motor</b>	1 HP 3 Single Phase, single speed, 120 volt motor
<b>Blower</b>	One - Backward Inclined
<b>Wheels</b>	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 1

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:

<b>Blower Motors</b>	<b>1 Year</b>
<b>Wheels &amp; Filters</b>	<b>No Warranty</b>

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.

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