

Vornado Air Circulation Systems 5-Year Limited Warranty

Vornado Air Circulation Systems, Inc. warrants to the original consumer or purchaser that the Vornado humidifier is free from any defects in material or workmanship for the period of five (5) years. If any defect is discovered within the warranty period, Vornado will repair or replace the unit at no cost if the unit is returned to Vornado postage-paid. Repairs not covered by the warranty or outside the warranty period will require a fee to cover the cost of materials, handling and shipping. This warranty does not cover the Filters.

For warranty or repair service, call 1-800-234-0604 to obtain a Warranty Repair Authorization (RA). Please have your Model & Serial number ready when you call. After receiving the RA form, ship the unit postage-paid with check or money order for \$15.00 to cover return shipping and handling along with a copy of original dated receipt of purchase to:

**Vornado Air Circulation Systems, Inc.
Attn: Warranty Repair
415 E. 13th Street
Andover, KS 67002**

To assure proper handling, packages must be clearly marked with the RA number. Packages not clearly marked with the RA number will not be accepted.

This limited warranty does not apply to defects resulting from abuse of the unit, modification, alteration, repair or service of the unit by anyone other than Vornado Air Circulation Systems, Inc., mishandling, improper maintenance, commercial use of the unit, or damages which occur in shipment or are attributable to acts of God. THIS WARRANTY IS THE ONLY ONE WE GIVE ON YOUR VORNADO AIR COMFORT SYSTEM. IT SETS FORTH ALL OUR RESPONSIBILITIES REGARDING YOUR VORNADO AIR COMFORT SYSTEM. THERE ARE NO EXPRESSED WARRANTIES EXCEPT AS LISTED ABOVE. VORNADO AIR CIRCULATION SYSTEMS, INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESSED AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY (AN UNWRITTEN WARRANTY THAT THE PRODUCT IS FIT FOR ORDINARY USE), AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or a limitation on how long the implied warranties last; so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

For your records; Model No. _____
Serial No. _____

(Located on Bottom of the Base)

Product Registration Available Online At www.vornado.com

© 2004, Vornado Air Circulation Systems, Inc. • Andover, KS
U.S. Patent 5,682,932 • Specifications subject to change without notice.
CL3-0002 Rev C



Vortex Humidifiers

OWNER'S GUIDE OWNER'S GUIDE OWNER'S GUIDE OWNER'S GUIDE OWNER'S GUIDE

**IMPORTANT INSTRUCTIONS
READ AND SAVE THESE INSTRUCTIONS**



...Feel The Difference®

VORNADO®

For questions or more information
1-800-234-0604 or
consumerservice@vornado.com

READ AND SAVE THESE INSTRUCTIONS

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electrical shock and injury to persons, including the following:

1. Read all instructions before using this humidifier.
2. This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit in polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not attempt to defeat this safety feature.
3. This humidifier may not work properly on an uneven surface. Always place it on a firm, flat surface, preferably the floor.
4. Do not operate the unit with a damaged cord or plug if it malfunctions, or has been dropped or damaged in any manner. Return to Vornado for examination, electrical or mechanical adjustment, or repair.
5. Do not run power cord under carpeting. Do not cover cord with throw rugs, runners or the like. Arrange the power cord away from traffic areas, so it will not become a tripping hazard.
6. Unplug the humidifier prior to moving, cleaning or changing the replacement filter(s).
7. This humidifier should always be unplugged and emptied when not in operation or while being cleaned.
8. Do not place the humidifier near heat sources such as stoves, radiators or heaters.
9. This humidifier requires periodic cleaning. Refer to the CLEANING instructions provided. Never clean the humidifier in any manner other than as instructed in this manual.
10. Turn the humidifier off if the relative humidity exceeds 60%. For accurate humidity readings, use a hygrometer which is available at most hardware stores and home centers.



Operating Notes & Suggestions

There are several things to be aware of as your Vornado humidifier is operating.

- One of the bottles may empty before the second bottle begins to dispense water. This is normal.
- It is normal to hear a bubbling or gurgling sound as water is dispensed into the base.
- If you operate your humidifier continuously, it may need to be refilled with water every day. Simply look through the bottle(s) to be certain there is an adequate water supply for operation.
- Protect the water bottle(s) from damage. Any holes or other damage to the bottle(s) may cause them to dispense their entire contents and result in water spilling onto the floor or other surfaces.
- When installing the filter(s), make certain they are in their proper position, lying at an angle along the open grill inside of the base.
- When first used, the filter(s) may give off a mild odor. The odor is not harmful and will go away after the first few hours of operation. If the odor is exceptionally strong, you can help eliminate most or all of it by soaking the filters for 20 to 30 minutes in a solution of water and two teaspoons of white vinegar. Rinse thoroughly.
- If you shut your humidifier off with water in the unit and do not turn it back on for 12 hours or longer, you may experience some growth of algae or bacteria on the filters and some odor when restarted. If this happens, we recommend a thorough cleaning of the unit and discarding the filters. (See CLEANING and DISINFECTING instructions.)
- We recommend you operate your humidifier continuously. This helps maintain humidity all day long, costs only pennies a day and will not harm the unit. Once all of the water has been evaporated, the fan will continue to run, drying out the filter(s) and minimizing the opportunity for growth of algae or bacteria. However, longer filter life will be achieved if filters never dry out.
- If you have any questions about operating your new humidifier, please call Vornado at 1-800-234-0604 weekdays (8:30am - 5:00pm CST) or email consumerservice@vornado.com



Disinfecting

Perform this operation several times during the season.

Step 1 Turn the humidifier OFF and UNPLUG the unit.

Step 2 Fill the base with water and add one teaspoon of chlorine bleach. Fill the water bottle(s) 3/4 full with water and add 2 teaspoons of chlorine bleach to each bottle. Let the solutions stand for 20 minutes, swishing every few minutes. Disinfect only the base and water bottle(s), **DO NOT USE BLEACH ON THE POWER HEAD.**

Step 3 Empty the base and water bottle(s) and rinse with water until the bleach smell is gone. Dry the base with a clean cloth or paper towel. Never use soaps or detergents.

Step 4 Reinstall power head and the water bottle(s). For proper operation, the power head, base and water bottle(s) must be properly aligned.

Storage

Step 1 Clean and dry the humidifier thoroughly per the CLEANING instructions.

Step 2 Be sure all components are dry. Do not leave any water in the humidifier when storing. Water left in the humidifier may leave mineral deposits or allow mold, fungus or bacteria to grow.

Step 3 Dispose of the old filter(s) if they are not suitable for reuse. Do not store the humidifier with wet filters. If the filters are suitable for future use, remove and empty water from the base and water bottle(s), replace the water bottle(s), turn the power knob to the high fan speed and allow the unit to run until the filter(s) are completely dry.

Step 4 Place the humidifier in its original plastic bag and carton and store it in a cool dry place.

Step 5 Purchase your new Vornado filter(s) now so your humidifier will be ready for your next use.

Important Information

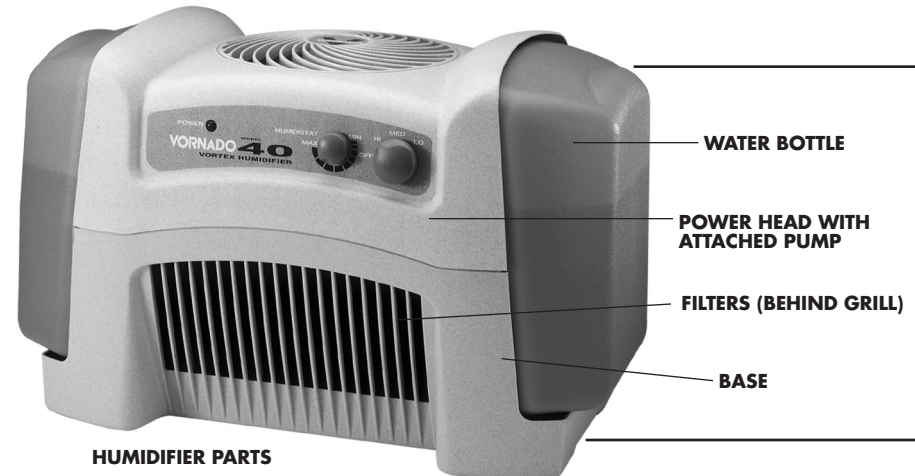
- **Never** pour water through the top outlet air grill on the Power Head.
- Do not repeatedly tip the water bottle(s) in and out of position. This will overfill the base reservoir and water will spill out.
- Do not store the humidifier with wet filter(s). If the filter(s) are suitable for future use, remove the water bottle(s), empty water in the base and bottle(s), replace the bottle(s), turn the fan power speed knob to the highest fan speed and allow the unit to run until the filter(s) dry.
- If the humidifier is to be turned off and left for more than 12 hours, the water should be emptied from the unit as leaving the water will encourage the growth of algae or bacteria. If this happens, disassemble the unit and thoroughly clean and disinfect the unit and the filters. (Refer to CLEANING and DISINFECTING instructions.)
- If you need to move the humidifier to another location, we recommend removing the water bottle(s) first.
- Always unplug the unit before cleaning or removing the power head.
- Use only water or a 50/50 solution of water and vinegar to clean your humidifier. Do not use undiluted bleach or ammonia, abrasive cleansers, gasoline, paint thinner or other solvents to clean the humidifier.
- The power head contains no user serviceable parts. If you experience a problem, please see the warranty for information. **DO NOT ATTEMPT TO DISASSEMBLE. DOING SO WILL VOID YOUR WARRANTY AND COULD CAUSE DAMAGE AND/OR PERSONAL INJURY.**

If you have any questions regarding this product, please call Vornado Consumer Services, toll-free at 1-800-234-0604, weekdays, (8:30am-5pm CST) or email consumerservice@vornado.com



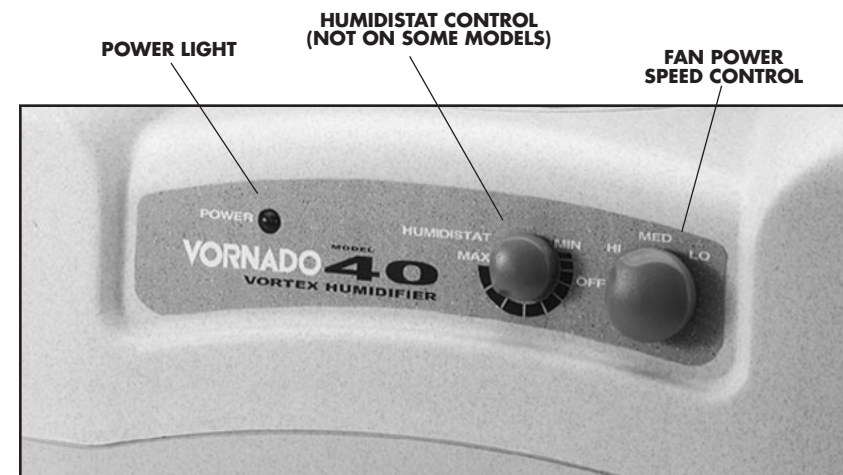
Parts & Controls

While your Vornado humidifier requires no assembly, you will need to know how to disassemble it for cleaning, maintenance, and filter replacement. The components are as follows: the power head that houses the fan motor, and other controls, filter(s), a base and water bottle(s).



HUMIDIFIER PARTS

There are two controls on your Vornado humidifier: A fan power speed switch with a corresponding indicator light to show the unit is on. You have a choice of 3 fan speeds. The second control is a humidistat (not on some models). Rotate the humidistat knob from MIN to MAX to regulate the humidity.



CONTROL PANEL

Cleaning

Cleaning is recommended for proper operation of your Vornado humidifier. We suggest following the AHAM (Association of Home Appliance Manufacturers) cleaning regimen several times during the season.

Step 1

Turn the humidifier OFF and UNPLUG the unit.

Step 2

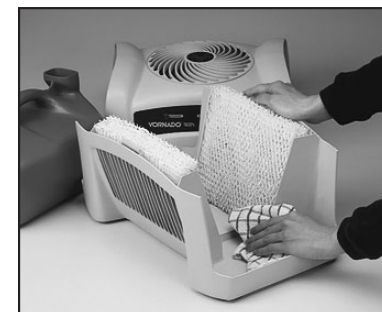
Remove the power head, water bottle(s) and the filter(s) from the base.

Step 3

Empty the base and water bottle(s) and rinse with clean tap water.

Step 4

As noted, depending on the quality of water in your home, impurities can build up quickly or may take some time. It is possible that some scale may form on the inside of the base. To remove these deposits:



CLEANING THE INTERIOR OF THE BASE

A. Clean all interior surfaces of the base with a soft brush or cloth to remove any scale. For heavy or stubborn scale, mineral deposits or mold, clean with a 50/50 (stronger if desired) solution of white vinegar and water.

B. Fill the water bottle(s) with a quantity of the vinegar and water solution. Seal the fill spout with the palm of your hand and shake vigorously. Let the bottle(s) stand a few minutes.

C. Rinse the base and water bottle(s) thoroughly with clean water to remove cleaning solution.

D. Dust or vacuum the power head to remove any dust or dirt that has built up. Do not disassemble power head for cleaning. It has been designed to have long life with non-corrosive thermoplastics and large tolerances to run clean and quiet without maintenance.

Step 5

Reinstall the filter(s), power head and the water bottle(s). For proper operation, the power head, base and water bottle(s) must be properly aligned.



Replacing Filter(s)

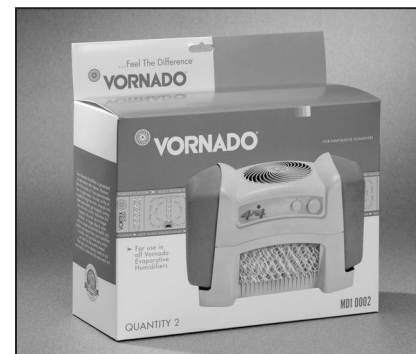
Filter Deterioration

We recommend replacing filter(s) when you can no longer maintain desired humidity levels, usually when filter becomes hard and discolored. Check filter(s) periodically before refilling.

Filter Replacement

Vornado® disposable filter(s) are hassle-free. Simply use and discard, no cleaning required. When you are ready for replacement filter(s), use only Vornado® filter(s). While other brands may fit our units, these filter(s) do not carry the same quality and performance as our own and can diminish performance of the humidifier.

Find our filter(s) at many fine retailers or order direct from Vornado:
1-800-234-0604 or
www.vornado.com



VORNADO FILTERS

Step 1

Turn the humidifier OFF and UNPLUG the unit.

Step 2

Remove the power head carefully.

Step 3

Remove and discard used filter(s).

Step 4

Replace with new filter(s), laying them at an angle along the open grill, inside of the base.

Step 5

Replace power head, making sure it's properly aligned with the base.

Before First Time Use

Your Vornado humidifier comes fully assembled and ready to use after one simple step.

Check For Leaks

Your new humidifier uses a sizable volume of water, so we recommend checking the base and water bottle(s) for any shipping damage that may cause leaks. Please note a visual inspection may not reveal hairline fractures.

To check for leaks:

- Place humidifier on a water-resistant surface.
- Remove only water bottle(s) and power head. Bottle(s) are removed by placing your hand on top of the bottle and rotating it outward. The power head is removed by pulling this piece straight up.
- Pour several cups of water in the base of the unit and inspect for leaks. Fill the water bottle(s) and inspect for leaks.

Not Leaking?

Dump water, replace power head, and proceed to the following operating instructions. Make certain the filter(s) are in the proper position lying at an angle along the open grill, inside of the base.



SIMPLE TO CLEAN

Leaking?

In the slight chance your humidifier may have leaks, contact Vornado Consumer Services and we will immediately replace these parts. 1-800-234-0604 (8:30am-5pm CST) or email: consumerservice@vornado.com



Filling & Installing the Patented Water Bottle(s)

The visible water level on the bottle(s) will indicate when refilling is necessary. When it needs refilling, follow these simple instructions:

Be sure the unit is placed on a firm, flat and level surface, preferably the floor. As with any humidifier, spills can occur so be careful when filling and installing the water bottle(s) and cleaning or moving it.



FILLING THE WATER BOTTLE

Filling the Water Bottle(s)
The patented rugged water bottle(s) have no caps; no valves, and fit in most kitchen sinks. Fill the water bottle(s) by running cool tap water into the spout. The built-in, wide-mouth spout and funnel makes filling easy under most faucets. Each water bottle is designed to allow it to sit stable in the sink or on a counter top.



INSTALLING THE WATER BOTTLE

Installing the Water Bottle(s)
Place the filled water bottle(s) next to the base with the groove in the water bottle(s) resting on the the curved edge of the base cavity. Simply rotate the water bottle(s) into position by tilting the water bottle(s) up. The water bottle(s) will begin to dispense water into the base reservoir just before it nests into its upright position. Proper water level in the base is continuously maintained. Bottle(s) must be in place for unit to work correctly.

Operating the Humidifier

Step 1

With the fan power switch in the OFF position, plug the power cord into a standard 110-120 volt AC wall outlet.

Step 2

For models with a humidistat, turn the control full clockwise to the MAX position (maximum humidity level).

Step 3

To turn the unit on, rotate the fan power speed knob clockwise. The power indicator light will illuminate. Select a fan speed for the desired humidification. Use these general guidelines for operation:

HIGH for fast humidification or larger rooms. High speed operation will evaporate 4.2 gallons of water (+/- 5%) in 24 hours of continuous operation in the type 40 unit, 2.8 gallons (+/- 5%) in the type 30 unit. (This assumes room conditions of 75° F and 30% relative humidity.)

MEDIUM for normal operation.

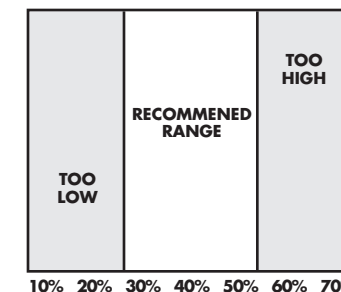
LOW for quiet, nighttime operation or smaller rooms. On this speed, your Vornado humidifier may run continuously without refilling for extended periods.

Step 4

When the room has reached the desired humidity level, lower the humidistat slowly (counter-clockwise) until the fan stops. The unit will automatically restart when the humidity falls below this setting. Power light will stay lit even when fan has stopped.

Note: With the humidistat on the MAX setting, your Vornado humidifier will run continuously. With the humidistat completely on the MIN setting, the unit will not operate.

How much humidity is enough?



What Affects Humidity

- Heat Loss or Gain
- Humidity Variations
- Air Exchanges
- Outdoor Humidity

Measuring Indoor Humidity

If you wish to accurately monitor the humidity, we suggest the use of a hygrometer, available at many hardware or home specialty stores.

