



VORNADO®

Owner's Guide

READ AND KEEP THESE IMPORTANT INSTRUCTIONS

Guide de L'utilisateur

LIRE ET CONSERVER CES INSTRUCTIONS IMPORTANTES

Guia del propietario

LEA Y TENGA EN CUENTA ESTAS INSTRUCCIONES IMPORTANTES



W H O L E R O O M ULTRASONIC HUMIDIFIER

IMPORTANT INSTRUCTIONS

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. **DO** read all instructions before using this Humidifier.
2. **DO** turn the Humidifier off if the relative humidity exceeds 60%. Humidity levels above 60% may allow moisture to build up indoors and condense on surfaces, where microorganisms can settle and grow. For accurate humidity readings, use a hygrometer which is available at most hardware stores and home centers.
3. **DO** unplug the Humidifier prior to moving, cleaning or refilling.
4. **DO** unplug and empty this Humidifier when not in operation.
5. **DO** empty water from the unit if the Humidifier is to be turned off and left for more than 12 hours, as leaving the water will encourage the growth of microorganisms. If this happens, thoroughly clean and disinfect the unit. (Refer to the WEEKLY MAINTENANCE.)
6. **DO** remove the Water Reservoir first if you need to move the Humidifier to another location.
7. This Humidifier requires periodic cleaning. Refer to the WEEKLY MAINTENANCE instructions provided. **DO NOT** clean the Humidifier in any manner other than as instructed in this manual.
8. **DO NOT** use this Humidifier on an uneven surface. Always place this Humidifier on a firm, flat surface.
9. **DO NOT** defeat the safety purpose of the polarized plug. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a SAFETY FEATURE. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact an electrician to replace the obsolete outlet.
10. **DO NOT** operate the Humidifier with a damaged cord or plug, after the Humidifier malfunctions, or has been dropped or damaged in any manner. Return to Vornado for examination, electrical or mechanical adjustment or repair.
11. **DO NOT** run power cord under carpeting.
12. **DO NOT** cover cord with throw rugs, runners or similar objects. Arrange the power cord away from traffic areas, so it will not become a tripping hazard.
13. **DO NOT** place the Humidifier near heat sources such as stoves, radiators or heaters.
14. **DO NOT** run unit without the Mist Outlet in place. The Mist Outlet can be removed for cleaning.
15. **DO NOT** pour water through the top Outlet Air Grill on the Power Head.
16. **DO NOT** use undiluted bleach or ammonia, strong detergents, abrasive cleansers, gasoline, paint thinner or other solvents to clean this Humidifier. Use only water and mild detergents to perform daily maintenance on your Humidifier.
17. **DO NOT ATTEMPT TO DISASSEMBLE THE POWER HEAD. DOING SO WILL VOID YOUR WARRANTY AND COULD CAUSE DAMAGE AND/OR PERSONAL INJURY.** The Power Head contains no user serviceable parts. If you experience a problem, please see the limited warranty for information.
18. **DO NOT** repeatedly remove and replace the Water Reservoir. This will only fill the Base and water will spill out.
19. Humidifiers should be kept away from children and not be placed in a child's room without supervision.

See page 8 for parts listing and identification.

If you have any questions regarding this product, please call Vornado Consumer Services, toll-free at 1-800-234-0604, or consumerservice@vornado.com

Before Operating

DO NOT lift the Humidifier out of the carton by the recessed handle on the Water Reservoir. This will cause the Reservoir to detach from the unit and might cause the Humidifier to drop and become damaged. Reach under the Humidifier in the carton, grasp and lift from the bottom.

Your new Humidifier uses a sizable volume of water, so we recommend checking the Base and Water Reservoir for leaks that may have occurred due to damage caused in shipping. Please note a visual inspection may not reveal hairline fractures.

To check for leaks:

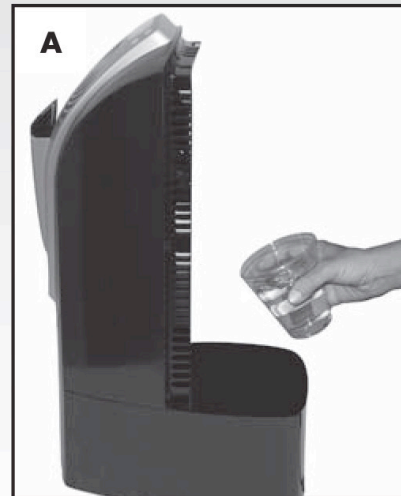
- Place Humidifier on a water-resistant surface.
- Remove the Water Reservoir and fill with water to inspect for leaks (For instructions see FILLING AND INSTALLING THE WATER RESERVOIR.)
- Next, pour several cups of water into the Base to inspect for leaks **(A)**.

Not Leaking?

Dump water from Base and install the full Water Reservoir (See FILLING AND INSTALLING THE WATER RESERVOIR for complete instructions).

Leaking?

In the slight chance your Humidifier has leaks, contact Vornado Consumer Services and we will immediately replace these parts. 1-800-234-0604 or consumerservice@vornado.com



Filling & Installing the Water Reservoir

Note: For first time use, you must soak the Mineral Cartridge for 24 hours. If the Water Reservoir is used to soak the cartridge, discard water and refill with fresh water prior to use.

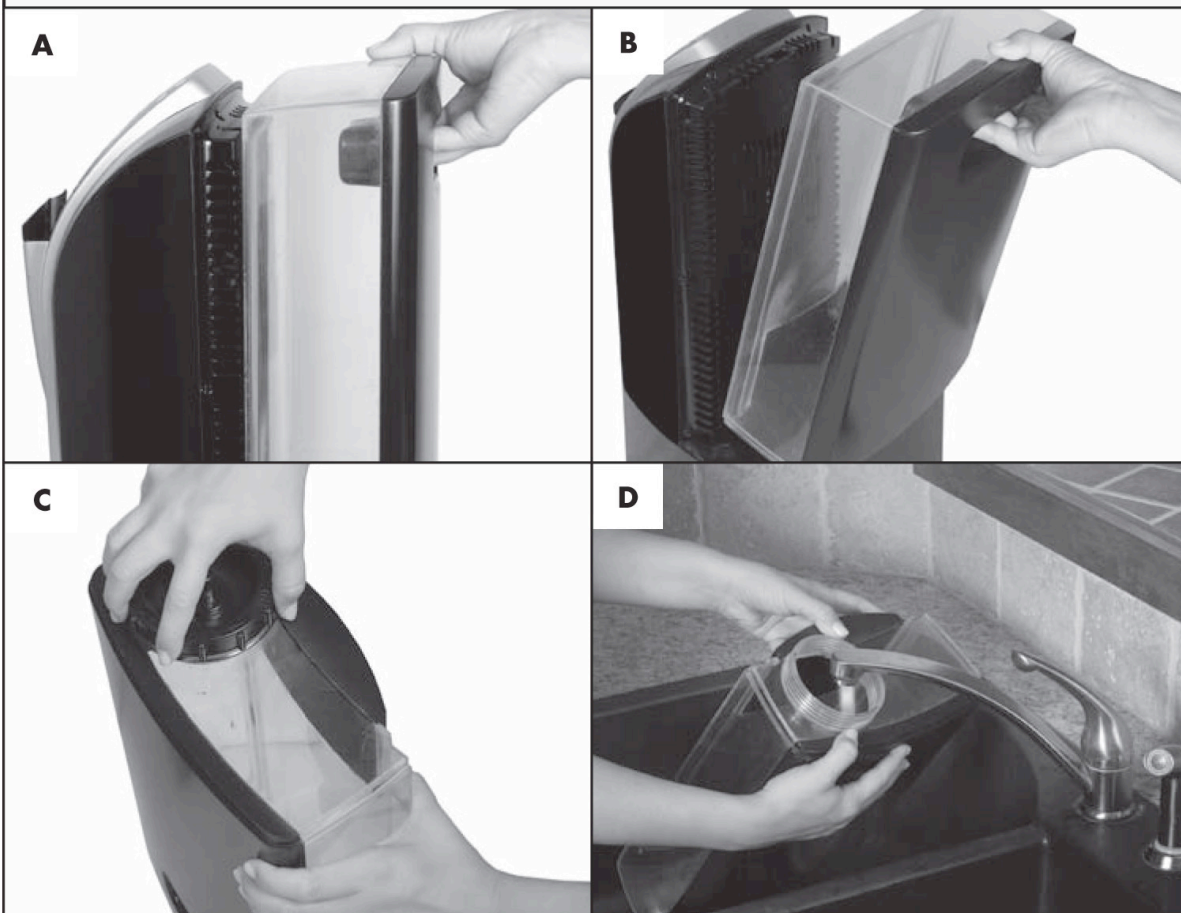
This Humidifier has a 2 gallon capacity and 3.5 gallon output in 24 hours. When it needs refilling, follow these simple instructions: Unplug the Humidifier. Be sure the Humidifier is placed on a firm, flat and level surface (we recommend the floor). As with any water filled appliance, spills can occur, so be careful when filling and installing the Water Reservoir, and cleaning or moving the Humidifier. Do not touch the water inside the Base, as this unit has the ability to heat the water prior to entering the nebulizer area of the Humidifier. This water temperature can reach 92 degrees F.

ADDING WATER

Remove the Water Reservoir by grasping the recessed handle on the back of the Reservoir **(A)**. Lift and pull outward **(B)**. Turn the Reservoir upside down. Remove the Cap assembly **(C)**. If refilling the Reservoir, dump out any water left inside the Reservoir prior to refilling. Place the Reservoir in the sink upside down. The top of the Reservoir has a flat surface that can stand by itself during the fill operation. Fill the Reservoir with cool tap water **(D)**. Once filled, insure the Gasket is in position and reassemble the Cap assembly.

INSTALLING THE WATER RESERVOIR

Lower the Reservoir into the Base, positioning the fill port over the raised bump. The bump will activate the water outlet valve inside the Cap once in a nested position. Insure the Reservoir is setting firmly in the Base.



How to Use

STEP 1

Position the unit to not blow directly on people, objects or plants. Plug the unit into a 110-120 volt AC outlet.

STEP 2

To turn unit on, press the POWER button. The LCD window will illuminate and the unit will start on the default settings. Adjust the desired humidity settings, mist condition and fan speed with the appropriate buttons. (See Vornado® Ultrasonic Humidifier Controls for complete instructions.) Use these general guidelines for operation:

HIGH output for fast humidification for larger rooms. High speed operation will evaporate 3.5 gallons of water (+/- 10%) in 24 hours of continuous operation. (This assumes room conditions of 70° F and 30% relative humidity.)

MEDIUM output for normal operation.

LOW operation is for quiet, nighttime operation or smaller rooms. On LOW operation, your Humidifier may run without refilling for extended periods.

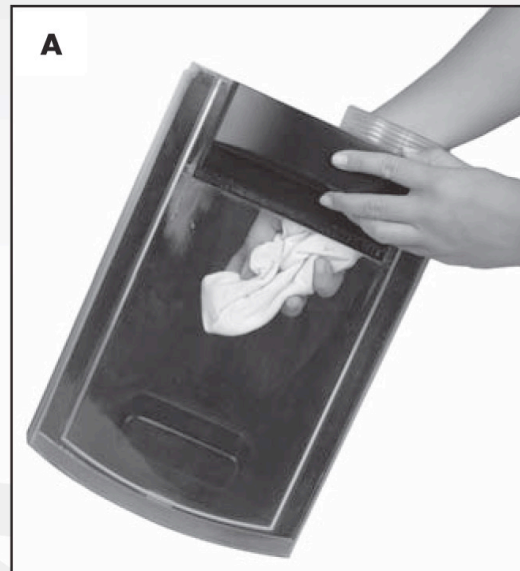
STEP 3

When the room has reached the desired humidity level, the Humidifier will automatically stop producing mist, but will continue to run the circulator fan to keep the room temperature uniform. The unit will automatically restart the misting when the humidity level falls below the humidity set point. (Note: With the unit set in the Continuous Setting, the Humidifier will run the mist output constantly.)

QUICK DAILY MAINTENANCE





1. Empty Reservoir before refilling with clean water. Rinse, wipe clean and dry with clean cloth or paper towel **(A)**.
2. Refill Reservoir to fill mark with cool, clean tap water. Do not overfill.
3. If moisture forms on walls or windows, lower humidity control settings or turn off Humidifier.

NOTE: To reset the 'REPLACE MINERAL CARTRIDGE' and 'CLEAN UNIT' LCD message, press and hold the POWER button for 3 seconds.



Vornado® Ultrasonic Humidifier Controls

Easily adjust the desired humidity level, mist condition and fan speed with the LCD illuminated screen and control buttons.

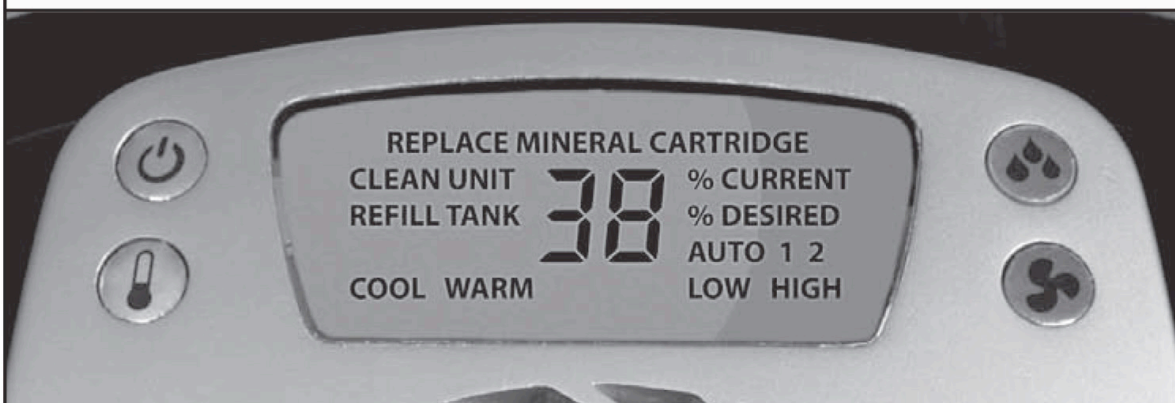
-  **POWER:** Turns the unit ON/OFF, will also illuminate the LCD screen.
-  **MIST CONDITION:** Adjust the mist output to COOL or WARM.
-  **HUMIDITY LEVEL:** The default setting is continuous misting, cool mist, high fan speed. Press the humidity button to index through the settings:
AUTO 1 continuous misting, cool mist, low fan speed
AUTO 2 continuous misting, warm mist, high fan speed
35% - 60% desired humidity, previous mist and fan settings. After humidity level is set, select your desired mist condition and fan speed.
-  **FAN SPEED:** Adjust the fan speed to HIGH or LOW.

NOTIFICATIONS

REFILL TANK: Notifies you when the Water Reservoir needs to be refilled. Will automatically turn off after it has been refilled.

CLEAN UNIT: Will come on after 400 hours of operation. Clean the unit (See WEEKLY MAINTENANCE for instructions) and press and hold the POWER button for 3 seconds to reset the indicator.

REPLACE MINERAL CARTRIDGE: Will come on after 800 hours of operation. Replace the Mineral Cartridge (See REPLACING MINERAL CARTRIDGE for instructions) and press and hold the POWER button for 3 seconds to reset the indicator.



Operating Guidelines

READ BEFORE USING

- A Humidifier is quite useful in supplying necessary moisture to dry air. It should be used with proper care to prevent over-humidification. A good rule of thumb would be to gauge the condensation or frost on windows. Adjust your Humidifier to a point where this condition is at a minimum. These adjustments should be made when major changes in outdoor temperatures occur. Humidifiers can be placed in any living area that has a location that is convenient and provides distribution of the moist air to the living area.
- With normal variations of indoor and outdoor conditions, the Humidifier will not run continuously, at maximum output, unless the controls are set to do so.
- Initial humidity requirements: When initially installed or when placed in operation at the beginning of each season, the Humidifier may run constantly for a day or so and thus evaporate large quantities of moisture. When the home and its furnishings have absorbed moisture and become stabilized at the desired humidity level, the amount of water used will diminish and the Humidifier operation will maintain the desired humidity level.
- In addition, if you do not follow the recommended care and maintenance guidelines, microorganisms may be able to grow in the water within the Humidifier's Reservoir and Base. These microorganisms may become airborne. (See WEEKLY MAINTENANCE for instructions).
- **DO NOT** use any additives such as aroma fragrances or water conditioners. These additives can cause cracks in the plastic of the Humidifier. Any use of such additives will void the manufacturer's warranty.

Operating Notes & Suggestions

There are several things to be aware of as your Vornado® Ultrasonic Humidifier is operating.

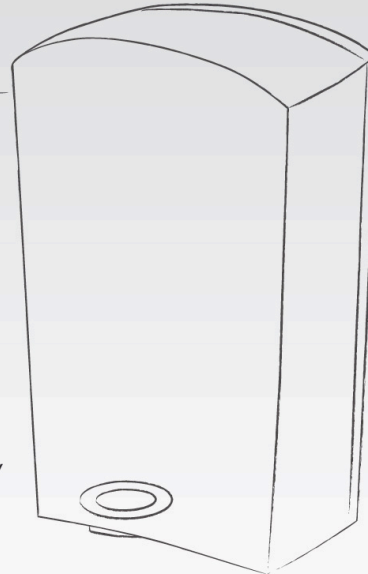
- It is normal to hear a bubbling or gurgling sound as water is dispensed into the Base.
- If you operate your Humidifier continuously, it may need to be refilled with water every day. Simply look through the Reservoir to be certain that there is an adequate water supply for operation.
- Protect the Water Reservoir from damage. Any holes or other damage to the Reservoir may cause them to dispense their entire contents and result in water spilling onto the floor or other surfaces.
- 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 microorganisms. If this happens, we recommend a thorough cleaning of the unit. (See WEEKLY MAINTENANCE 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. A REFILL TANK indicator light will display in the LCD window when the Reservoir needs refilling. When the water level drops below the safe level, the misting function of the Humidifier will stop.

Vornado® Ultrasonic Humidifier Parts

While your Vornado® Ultrasonic Humidifier requires no assembly, you will need to know how to remove the Water Reservoir for cleaning maintenance. The components are as follows:

WATER RESERVOIR

Large 2 gallon capacity allows for less refills.

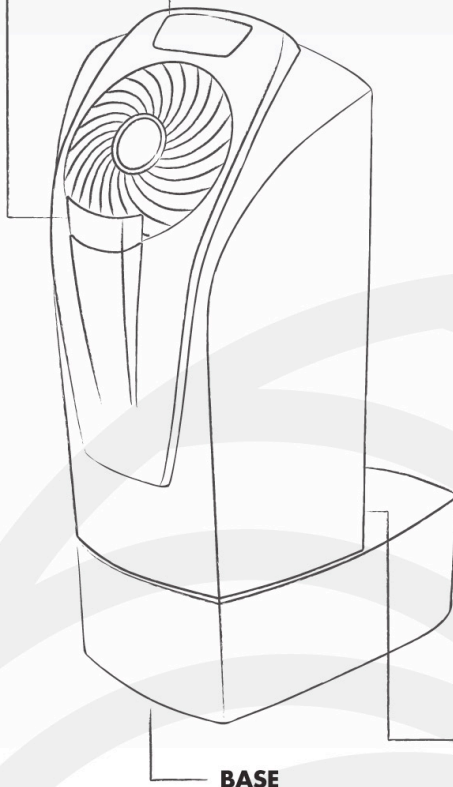


MIST OUTLET

Moist air is dispersed through the Mist Outlet and projected into Vornado's signature Vortex beam of air - circulating the moist air throughout the whole room.

LCD CONTROL SCREEN

Easily adjust fan speed, humidity level, power and mist condition.



MINERAL CARTRIDGE

Works to reduce lime and calcium build up so you spend less time on maintenance.



GASKET

Creates a waterproof seal between the Cap and Water Reservoir.



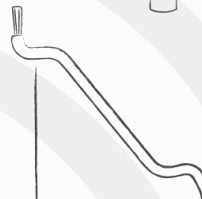
CAP

Easy-to-remove Cap for convenient Water Reservoir refilling.



CLEANING BRUSH

Used for thoroughly cleaning the Base in hard to reach areas. Stored in the Base.



TRANSDUCER

Vibrates water particles to create steam.

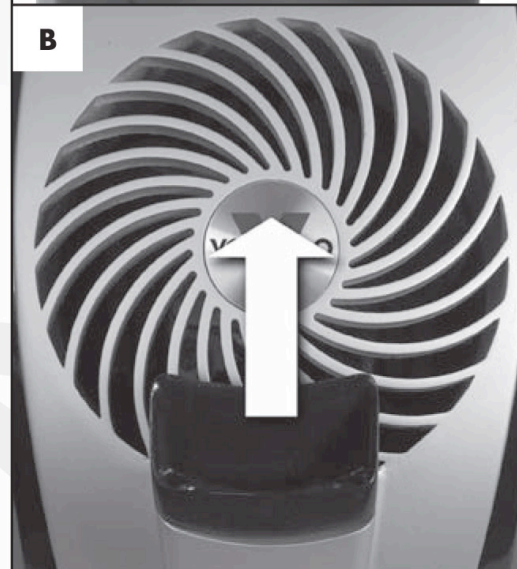
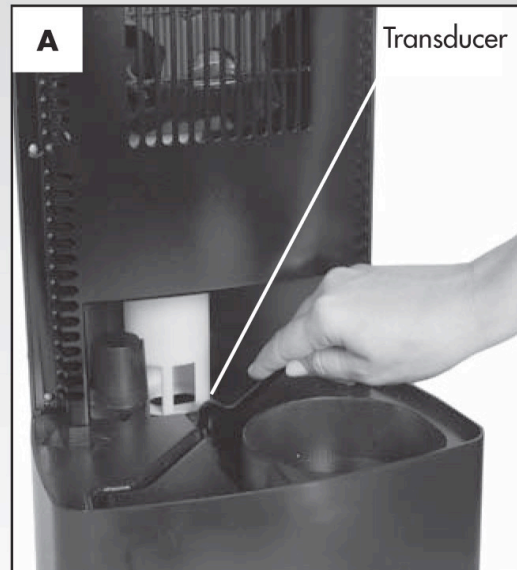
Weekly Maintenance

REMOVING SCALE:

CAUTION: DO NOT TOUCH THE WATER INSIDE THE BASE CAVITY. THIS WATER MAY BE HOT. ALLOW TO COOL BEFORE EMPTYING AND PROCEEDING WITH THE SCALE REMOVAL.

Do not submerge the Base into water.

1. Empty Base. Fill Base with a solution mixed at a ratio of one (1) 8 oz. cup of undiluted white vinegar per 1 gallon of water. Let solution stay for 20 minutes.
2. Empty after 20 minutes and clean all interior surfaces with soft brush. Dampen soft cloth with undiluted white vinegar and wipe out Base to remove scale. Use the Cleaning Brush located in the Base to thoroughly clean, especially around the transducer **(A)**. The brush has both a scraper end and a bristle end for cleaning.
3. Rinse thoroughly with clean warm water to remove scale and cleaning solution before disinfecting the Base.
4. If the Mist Outlet has accumulated a white powder residue, remove and clean in the same manner as the Base. Remove the Mist Outlet by lifting up **(B)**. Reattach by pressing down. **DO NOT** run the unit without the Mist Outlet in place.



DISINFECTING THE BASE

1. Fill Base with a solution mixed at a ratio of 1 teaspoon chlorine bleach per 1 gallon of water. Let solution stay 20 minutes, swishing every few minutes. Wet all surfaces.
2. Empty Base after 20 minutes. Rinse with water until bleach smell is gone. Dry with clean cloth or paper towel.

Mineral Cartridge Replacement

The Mineral Cartridge works to reduce lime and calcium build up so you spend less time on maintenance. The Cartridge will need to be replaced periodically, depending on use. The Humidifier does have a notification as to when the Cartridge needs to be replaced. However, very hard water may shorten the life of the Cartridge and require replacement prior to the Humidifier notification. A sign of early replacement need is a white powder residue around the device. If the water used in the humidifier has been treated by a decalcification system, the salt from the treatment can show up as white dust also.

To order replacement parts or Mineral Cartridges contact Vornado Consumer Services at 1-800-234-0604 or consumerservice@vornado.com, or visit our website at www.vornado.com.

Storing Your Humidifier

1. Clean the unit by following the weekly maintenance instructions.
2. Let Humidifier dry completely before storing. Do not store with water inside Reservoir.
3. Store in cool, dry location.
4. Remove and discard the Mineral Cartridge.
5. Clean Humidifier before next use.
6. Be sure to buy a new Mineral Cartridge now so your Humidifier will be ready for next use.

Vornado Air LLC 5-Year Limited Warranty

Vornado Air LLC warrants to the original consumer or purchaser that the Vornado® Ultrasonic Humidifier, is free from any defects in material or workmanship for the length of term as described above. If any such defect is discovered within the warranty period, Vornado Air LLC, at its discretion, will repair or replace the unit. This limited warranty covers parts failure or manufacturing flaw. It does not apply to defects resulting from abuse of the unit, modification, alteration, repair or service by anyone other than Vornado Air LLC, mishandling, improper maintenance, commercial use of the unit, damages which occur in shipment or are attributable to acts of God.

THIS WARRANTY IS THE ONLY ONE WE GIVE ON YOUR VORNADO ULTRASONIC HUMIDIFIER. IT SETS FORTH ALL OUR RESPONSIBILITIES REGARDING YOUR VORNADO ULTRASONIC HUMIDIFIER. THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED ABOVE. VORNADO AIR LLC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ANY IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.

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 that vary from state to state.

HOW TO OBTAIN RETURN AUTHORIZATION

For warranty or repair service, email consumerservice@vornado.com or call 1-800-234-0604 to obtain a Return Authorization (RA) form. Please have or include your Ultrasonic Humidifier model number and serial number, as well as your name, address, city, state, ZIP code and phone number. After receiving the RA form in the mail, ship your Ultrasonic Humidifier postage-paid with a copy of the original dated receipt of purchase along with a check or money order for \$20.00 (to cover return shipping and handling) to:

Vornado Air LLC
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 may be refused at the receiving dock.

For your records: Staple or attach your original sales receipt to this owner's guide. Please also write your Ultrasonic Humidifier serial and model numbers below (located on product specs decal).

Serial No. _____

Model No. _____

Please allow 1-2 weeks for the repair and return of your Vornado Ultrasonic Humidifier after it has been received.

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Vornado® is a trademark of Vornado Air LLC.

Specifications subject to change without notice.

U.S. Patent Pending

Designed and Engineered in the USA. Manufactured in China.

PRODUCT REGISTRATION AVAILABLE ONLINE AT www.vornado.com

Vornado Consumer Services

P 1-800-234-0604 **W** www.vornado.com **E** consumerservice@vornado.com