

# ***Slant/Fin***®

In English	1-11
En Français	12-22
En Español	23-32

Portable Electric Warm Mist Humidifier (with fan)  
Germ-Free™ Model GF-211D



GF-211D Shown

Patented

- Instructions for Operation, Care and Cleaning
- Limited Warranty

**READ AND SAVE THESE INSTRUCTIONS**

**READ ALL OF THE FOLLOWING INSTRUCTIONS BEFORE ATTEMPTING TO OPERATE YOUR HUMIDIFIER. FOLLOWING THESE SIMPLE GUIDELINES FOR USE AND CARE WILL HELP ENSURE YEARS OF DEPENDABLE AND EFFICIENT SERVICE.**

## **IMPORTANT SAFEGUARDS**

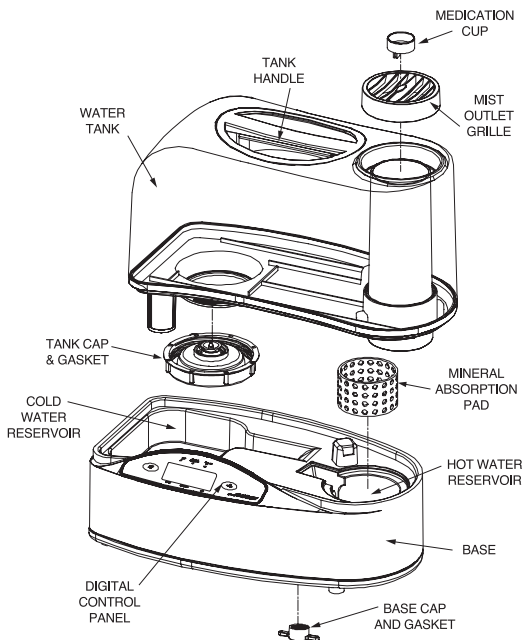
**CAUTION: BECAUSE HIGH TEMPERATURE IS GENERATED IN THIS HUMIDIFIER, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED ESPECIALLY WHEN CHILDREN ARE PRESENT.**

WHEN USING ELECTRICAL APPLIANCES, THESE BASIC SAFETY PRECAUTIONS MUST BE FOLLOWED:

1. **DO NOT** operate the humidifier without the water tank.
2. **ALWAYS** use clean, cool tap water to fill the water tank.
3. To avoid risk of fire or shock, **DO NOT** use an extension cord.
4. **DO NOT** handle the unit with wet hands.
5. **NEVER** tilt, move, or attempt to empty the unit while it is operating or plugged in. Shut off, unplug and remove water tank before moving unit.
6. **DO NOT** place the unit close to heated areas, such as near stoves, heaters or in direct sunlight.
7. **DO NOT** operate OUTDOORS. This humidifier is intended for indoor use only.
8. **DO NOT** let water get into the air inlets on the bottom of the enclosure or on the cord or plug.
9. **DO NOT** store or use gasoline or other flammable vapors and liquids near the humidifier.
10. **ALWAYS** make sure the water tank cap and gasket are firmly in place.
11. **DO NOT** touch hot surfaces.
12. **ALWAYS** turn the humidifier off when the water tank is empty or when the unit is not in use. If you turn your unit off for extended periods, **ALWAYS** disconnect the power cord and empty the water tank and base.
13. **ALWAYS** place the unit on a **firm flat, level, water resistant surface** and arrange the power cord so that the product is unlikely to be upset.
14. **DO NOT** clean the product or service the UV bulb without disconnecting the power cord.
15. Before connecting to electric power outlet, check your electrical power supply. It must be 120 volts A.C. (alternating current). The outlet may be 15 amp or 20 amp. The circuit must be of adequate size and must be protected by fuse or circuit breaker.

16. This item has a polarized plug. As a safety feature, this plug will fit in a polarized electrical receptacle (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.
17. **DO NOT** attempt to remove MIST OUTLET during operation, or within 15 minutes after the humidifier is turned to the "OFF" position and unplugged. Serious injury may result.  
**DO NOT** place hands or face directly over MIST OUTLET while unit is in operation.
18. **Place unit in an area where it is not accessible to children.**
19. Before using the unit, check the power cord for any signs of damage.
20. **DO NOT** allow the MIST OUTLET to face directly at a wall surface. Direct mist aimed at wall could cause damage, particularly to wallpaper.
21. This humidifier requires daily and weekly maintenance.
22. Refer to CLEANING AND MAINTENANCE instructions provided.
23. **NEVER** clean humidifier in any other manner than as instructed by this manual.
24. **WARNING** - Eye damage may result from directly viewing the light produced by UV Bulb. **DO NOT** energize unit while Lamp Door is removed.

## SAVE THESE INSTRUCTIONS



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## WEEKLY CLEANING AND MAINTENANCE ADVISORY

At least weekly cleaning is recommended, when the unit has been in use. Regular cleaning prevents mineral scale buildup in the hot water reservoir. It also helps prevent buildup of bacteria, molds or other micro-organisms in the tank or system. This ensures that your humidifier will operate at maximum efficiency. (See page 7 for full cleaning instructions.)

## HOW YOUR SLANT/FIN WARM MIST HUMIDIFIER WORKS

This model humidifier uses a two-step approach to eliminate potentially harmful microorganisms from the water before they are spread with the mist into the air. The first step uses a UV bulb, located inside the base of the humidifier, that shines on the water through a special glass tube as it passes from the cold water reservoir to the hot water reservoir. The second step is the boiling action that takes place in the hot water reservoir just before the mist is distributed by fan to the air in the room.

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## CONTROL PANEL

### POWER/MODE

POWER/MODE touch switch is pushed to either "OFF", "HI" or "LO" mode.

On "HI", humidifier will operate on maximum power. On "LO" humidifier will operate more quietly on reduced power. The mode will be indicated in the "MODE" window of the digital readout.



GF-211D Shown

### POWER

"POWER" indicator will be lit to indicate that the POWER/MODE touch switch is in either the "HI" or "LO" position. This indicator will not be lit when the POWER/MODE touch switch is in the "OFF" position.

### HUMIDITY

The digital display window above "HUMIDITY" displays the ambient relative humidity as long as the humidifier is plugged into a "live" electrical outlet.

## **REPLACE UV BULB**

If the "REPLACE UV BULB WHEN LIT" signal light is illuminated during normal use, the bulb must be replaced with the same special 3.5W bulb. See the enclosed order form. The UV bulb will operate at maximum output for approximately 2,000 hours. The UV bulb may operate longer than 2,000 hours but at a reduced output. To keep your humidifier operating at maximum efficiency it is recommended that the UV bulb be replaced after 2,000 hours of use.

**REFILL WHEN LIT** - When illuminated, the water tank needs refilling. See the section "Filling the Water Tank". "rEF" will also be indicated in the "MODE" window at this time. If still illuminated after full tank is placed on base, see TROUBLESHOOTING section (Page 9).

**SET HUMIDITY CONTROL** - This controls the humidity level. For humidity desired, the control touch switch should be continually pressed until the number appears that reflects desired humidity.

NOTE: When you unpack your humidifier, you may find it has droplets of water on some surfaces. This is normal as every unit is tested prior to shipping. Carefully unpack humidifier and remove all packing material.

## **OPERATING INSTRUCTIONS**

1. Place the base of the unit on a firm, flat level and water resistant surface.
2. Fill the Water Tank according to the instructions below and place on humidifier base.
3. Plug the power cord firmly and completely into the wall outlet.
4. Push "POWER/MODE" touch switch to either the "HI" or "LO" position. Push "SET HUMIDITY" touch switch until desired humidity appears in the "SET HUMIDITY" window of the digital readout. The "SET HUMIDITY" can be set in 5% increments between 30 and 90% relative humidity. Desired humidity is normally set at 50% or below to avoid over humidification. The humidifier will produce vapor until the relative humidity (indicated in the "HUMIDITY" window of digital readout) reaches the "SET HUMIDITY" setting. It will be normal for the humidifier to take 2 minutes to warm up and begin to mist.
5. When the water tank is empty, (after approximately 24 hours running time), the "REFILL WHEN LIT" lamp will go on, and the unit will stop heating. Refer to the "FILLING THE WATER TANK" section.
6. Whenever the water falls below the level of the FLOAT during operation, the heating element will shut off and stop heating.
7. Mist output grille may be adjusted manually by pointing in desired direction. NEVER point at wall.
8. For night time or other times when quieter operation is desired, push "POWER/MODE" touch switch until "LO" appears in the "MODE" window of digital readout.

## **FILLING THE WATER TANK**

1. Before filling the water tank, push "POWER/MODE" touch switch until "OFF" appears in "MODE" window and unplug unit.
2. Remove water tank from base, turn the tank upside down and remove tank cap by turning counterclockwise. Fill tank with clean cold tap water. Replace the tank cap by turning clockwise. Tighten firmly.
3. Carefully pick up tank, since it will be heavy when full, and slippery if wet.

4. Place water tank on base. Make sure tank is properly placed, otherwise, the humidifier will not work correctly.

### **USING THE MEDICATION CUP/MIST OUTLET GRILLE (OPTIONAL)**

In order to add a medicated vapor to the “mist” output:

1. Press “POWER/MODE” touch switch to the “OFF” position and allow the outlet grille to cool.
2. Lift the medication cup.
3. Carefully add liquid medication; DO NOT fill the cup more than half full.
4. Carefully replace the medication cup.
5. Press “POWER/MODE” to either the “LO” or “HI” position.
6. After use, remove the cup from the unit and clean any residue from the cup with warm water.

### **WARNING:**

DO NOT use any liquid medication other than those specifically recommended for use with a steam vaporizer or warm mist humidifier.

DO NOT pour medication directly into the mist outlet grille openings nor add it to the water in the tank or tray.

### **MINERAL ABSORPTION PAD INSTRUCTIONS**

Warm mist humidifiers do not spread fine mineral dust into the air that you breathe nor on your furniture, the way that other type humidifiers do. The mineral dust remains trapped in the humidifier hot water reservoir. Use of Mineral Absorption Pads will play a major role in capturing and removing minerals from hot water reservoir, and preventing a stubborn mineral buildup. The unit can run without pads, but more frequent cleaning will be required.

1. Before starting humidifier, place mineral absorption pad in the hot water reservoir. After the humidifier has been operating, the water will become HOT, and CAUTION should be exercised when handling mineral absorption pad. It is best to allow humidifier water to cool down, and to use tongs or long tweezers when handling pad.
2. The useful life of the mineral absorption pad will vary, depending on the mineral content of the water used. In areas of moderate mineral content water supply, the mineral absorption pad should be changed after approximately (3) weeks of continuous use. If the water is “Hard Water”, the pad should be changed more frequently. The best way to tell when the pad should be changed is to examine it AFTER the water has cooled down, to see if it is still soft and pliable. When the pad is near the end of its life, it becomes stiff and hard and should be replaced with a new pad. Another sign to change pad is when scale begins to buildup on interior of hot water reservoir.

### **CLEANING AND MAINTENANCE**

Water contains minerals and other particles. During operation most of these minerals will remain in the water reservoir. Gradual buildup of deposits will coat the hot water reservoir and reduce its efficiency. The importance of routine cleaning and care cannot be over-emphasized. Hard water contains more minerals and other particles. If pad appears to disintegrate (normally due to use of softened water) discontinue use of pads.

## CLEANING INSTRUCTIONS

Failure to perform the necessary cleaning steps will damage unit.

1. Before cleaning, set CONTROLS to "OFF" position and unplug unit.
2. Remove water tank from humidifier base, and drain water from tank.
3. Allow at least 15 minutes for the hot water to cool after shutting unit "OFF" before moving base, or removing mineral absorption pad. Remove mineral absorption pad from hot water reservoir using tweezers or tongs to prevent burns from hot water. When the cleaning procedure is completed, replace mineral absorption pad. To drain water from humidifier base, grasp with both hands and tilt to the side, draining water into the sink. **BE CAREFUL NOT TO HAVE DRAINING WATER FALL INTO CONTROLS OR VENT OPENINGS. DO NOT drain in any manner other than indicated. WARNING: DO NOT place directly under running faucet.** Turn the base upside down and remove the cap by turning it counterclockwise. Clean out any foreign matter that has accumulated inside the fitting from which the cap was removed. After cleaning, replace this cap tightly by hand. Pour a small amount of water into the hot water reservoir and check for leaks from this cap under the base.
4. Pour about 1 cup of white vinegar into either reservoir and allow it to soak for only 20 to 30 minutes.
5. Hold the base of the humidifier over the sink and tilt it on its side to empty the vinegar. Fill the cold and hot water reservoirs with clean, warm water to remove all traces of the vinegar. Remove any buildup of minerals in the hot water reservoir using a small brush, such as a toothbrush. **NOTE: The buildup is due to water hardness. The harder your water, the more often this maintenance will be needed. Empty all of this water by turning the unit on its side.**  
**DO NOT ALLOW WATER TO ENTER THE BOTTOM OF THE HUMIDIFIER BASE OR ANY OTHER OPENINGS, OR IMMERSE THE CORD AND PLUG.**
6. Disinfect the water tank using a solution of one teaspoon of household chlorine bleach in 1 gallon of water. Let the solution sit for 20 minutes, swishing every few minutes to wet all surfaces. Empty the tank completely; rinse thoroughly until all of the bleach smell is gone. Fill the tank with fresh, cool water and replace it onto the humidifier base.
7. **NEVER** use any metal or hard objects to clean plastic parts which may cause scratching of the plastic parts. **NEVER** use gasoline, kerosene, glass cleaner, furniture polish, paint thinner or other household solvents to clean any part of the humidifier.
8. Each day the reservoir and tank should be drained, rinsed and refilled with fresh tap water.

- To clean exterior surfaces, use a solution of water and mild detergent with a wrung-out damp cloth. Rinse and wring out the cloth and wipe the exterior surfaces again. Finally, wipe with a dry cloth. Allow sufficient time to dry before plugging the electrical cord into the outlet.
- Replace tank. Plug in the unit and resume normal use.

## CHANGING THE UV BULB

- If the “REPLACE UV BULB” indicator illuminates during normal use, it is time to change the UV bulb, which is a special 3.5W bulb.
- Press “POWER/MODE” touch switch to the “OFF” position, unplug it and allow it to cool.
- Remove the water tank from the base of the humidifier.
- Place the base of the humidifier over the sink and tilt the unit to remove any remaining water.
- Carefully turn the base of the humidifier over and place it upside down on a flat level surface. You will see a door that is closed with a screw.
- Using a Phillips head screwdriver, carefully turn the screw(s) counterclockwise until the screw(s) separate from the door.
- Open the door. The UV light bulb will be visible.
- Take a replacement 3.5W UV bulb that you purchased from Slant/Fin Corporation or another supplier and change the bulb. To prolong the life of the bulb, limit your direct contact with the glass of the bulb by using a cloth or tissue to screw it into place.
- When the new bulb is in place, close the door and replace the screw(s) by using your Phillips head screwdriver and rotating it clockwise until it is just tight. **DO NOT OVER TIGHTEN.**
- DO NOT** turn power on, while UV Lamp Door is open, and **do not** view illuminated bulb directly because eye damage may occur.
- Turn the unit upright, place the water tank on top of the base of the humidifier, plug the unit in, and push “POWER/MODE” touch switch to either the “HI” or “LO” position. The “REPLACE UV BULB” indicator should no longer be lit.



GF-211D Shown

**IMPORTANT NOTE:** Even though you will not receive maximum germicidal effects, you can still use your humidifier until the replacement bulb arrives.

**NOTE:** You will hear a rattling sound and notice a small round object inside your bulb. This is normal. Your bulb is fully operational.



Lamp contains mercury. Manage in accordance with disposal laws.  
See [www.lamprecycle.org](http://www.lamprecycle.org) or call 1-800-895-8842



## STORAGE TIPS

If you do not plan to use your humidifier for an extended period of time, such as during the summer months, it is important that you follow these instructions to help prevent problems from developing in the unit.

1. Clean your humidifier as instructed in the section titled, "Cleaning and Maintenance".
2. Make sure all water is emptied from the tank and the hot and cold water reservoirs.
3. Dry your unit thoroughly.
4. Leave the tank cap off to expose the tank to air.
5. Pack your humidifier in its original carton and store it in a cool, dry place.

## SERVICE

DO NOT attempt to repair this humidifier yourself. For repairs covered under the warranty, contact Slant/Fin by telephone or mail for a Return Authorization Number.

## TROUBLESHOOTING

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<b>TROUBLE</b>	<b>POSSIBLE CAUSES</b>	<b>SOLUTION</b>
Unit does not mist	Unit is not plugged in Power failure Water tank empty Power switch not turned on Unit still on "REFILL" after refilling tank	Plug in unit Check circuit breaker Remove and refill Turn on switch Check that there is water in the hot water reservoir.
	Float on bottom of tank "hangs up"	Carefully clean any residue or obstruction
	Water tank not properly located on base unit Humidity level set is achieved	Reposition water tank Turn Relative Humidity Control to higher setting
Water leaks from unit	Drain cap, drain cap gasket, tank cap or tank cap gasket is missing or improperly positioned.	Tighten cap. Replace or reposition cap gasket.
Moist air output low	Mineral buildup in hot water reservoir. No mineral buildup.	Clean unit as per instructions. Check ambient humidity. If humidity is high, output will be low.

## LIMITED WARRANTY

### IMPORTANT NOTICE

PLEASE CLEAN THIS GERM-FREE HUMIDIFIER AT LEAST ONCE A WEEK BY FOLLOWING THE CLEANING INSTRUCTIONS IN THE OWNER'S MANUAL. FAILURE TO REGULARLY CLEAN THIS GERM-FREE HUMIDIFIER WILL RESULT IN A BUILDUP OF MINERAL DEPOSITS WHICH WILL CAUSE THE UNIT TO CEASE TO OPERATE. IF THE UNIT FAILS TO FUNCTION BECAUSE IT HAS NOT BEEN CLEANED, THIS WILL VOID THE WARRANTY.

To the original purchaser or gift recipient of this humidifier.

1. If your Slant/Fin humidifier fails in normal use because of a manufacturing defect within 90 days from the date of original purchase, Slant/Fin will repair the humidifier at no charge for parts, labor or shipment back to you (see instructions for returning unit below).
2. After the first 90 days, if a component part fails because of a manufacturing defect, Slant/Fin will repair or replace that component part up to 3 years from purchase date. There will be no charge for the component part or shipment back to you, but Slant/Fin reserves the right to charge for installation labor.
3. For cracked, chipped or broken Water Tanks, see item 4 below.
4. This warranty does not cover any product which in Slant/Fin's judgment has been (1) damaged as a result of accident, misuse or abuse (2) used for a purpose for which it was not designed, or (3) repaired or altered in any way that adversely affected its performance or reliability. This warranty does not cover scratches and wear of surfaces.
5. UV bulb replacement is a normal maintenance procedure and is therefore not covered under this warranty unless the bulb is found to be defective.
6. For repairs, call Customer Service at 1-800-477-0457 to request a Return Authorization Number. Returned units will not be accepted at Slant/Fin without a Return Authorization Number. Return humidifier to address shown below with dated sales receipt. The cost of shipment to Slant/Fin must be paid by the consumer. Return to: Kaz, Incorporated, Attn: Returns Dept., 4755 Southpoint Drive, Memphis, TN 38118. In Canada: Kaz, Incorporated, Attn: Returns Dept., 510 Bronte Street South, Milton, Ontario L9T 2X6.
7. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.
8. Slant/Fin makes no express warranties other than the warranties contained herein. Slant/Fin's sole obligation in the event of a breach of any implied warranty (including, but not limited to, implied warranties of merchantability and fitness for a particular purpose) is limited to repair or replacement, and all such warranties are limited in duration to the time periods after the date of original purchase as stated above. The warranty does not cover claims for incidental or consequential damages resulting from a breach of any express or implied warranty or any other reason including damages due to accident, abuse, lack of responsible care, the affixing of any unauthorized attachment, loss of parts, or use at a voltage other than specified.

**CUSTOMER SERVICE #: 1-800-477-0457**