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# BIONAIRE BCM4505-U Owner's Manual

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## COOL MOISTURE humidifier

MODEL BCM4505  
BCM4509  
BCM4510



Read instructions before operating. Retain for future reference.

## Instruction Leaflet



If after having read this leaflet, you have any questions  
or comments on your humidifier,  
call **1-800-788-5350** in North America.

Model BCM4510 Shown

# **PLEASE READ AND SAVE THESE IMPORTANT SAFETY INSTRUCTIONS.**

## **IMPORTANT SAFEGUARDS**

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

1. Read all instructions before using the appliance.
2. To avoid fire or shock hazard, plug the appliance directly into a 120V AC electrical outlet.
3. Keep the cord out of heavy traffic areas. To avoid fire hazard, NEVER put the cord under rugs, near heat registers, radiator, stoves, or heaters.
4. DO NOT place humidifier near heat sources such as stoves, radiators, and heaters. Do locate your humidifier on an inside wall near an electrical outlet. The humidifier should be at least 4" away from the wall for best results.
5. NEVER place humidifier in an area where it is accessible to children.
6. NEVER use humidifier in a closed room, particularly where a child may be sleeping, resting, or playing (a closed room may result in excessive humidity).
7. WARNING: Do not attempt to refill humidifier without first unplugging the unit from its electrical outlet. Failure to heed this warning may cause personal injury.
8. NEVER place anything over moisture outlet when unit is running.
9. NEVER drop or insert any object into any openings.
10. DO NOT operate any appliance with a damaged cord or plug, if the appliance malfunctions, or if it has been dropped or damaged in any manner. Return appliance to manufacturer for examination, electrical or mechanical adjustment, or repair.
11. Use appliance only for intended household use as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons. The use of attachments not recommended or sold by Bionaire® may cause hazards.
12. DO NOT use outdoors.
13. Always place humidifier on a firm, flat, level surface (4" from wall). A waterproof mat or pad is recommended for under the humidifier.

NEVER place it on a rug or carpet, or on a finished floor that may be damaged by exposure to water or moisture.

14. DO NOT allow the moisture outlet to directly face the wall. Moisture could cause damage, particularly to wallpaper.
15. Humidifier should be unplugged when not in use.
16. NEVER tilt, move, or attempt to empty unit while it is operating. Shut off and unplug before removing the water reservoir and moving the unit.
17. This humidifier requires daily and weekly maintenance. Refer to daily and weekly cleaning procedures.
18. NEVER use detergents, gasoline, glass cleaner, furniture polish, paint thinner, or other household solvents to clean any part of the humidifier.
19. Excessive humidity in a room can cause water condensation on windows and some furniture. If this happens, turn the humidifier OFF.
20. Do not use humidifier in an area where humidity level is in excess of 50%. Use a hygrometer, available at your local hardware store or through Bonaire, to measure the humidity.
21. DO NOT attempt to repair or adjust any electrical or mechanical functions on this unit. Doing so will void your warranty. The inside of the unit contains no user serviceable parts. All servicing should be performed by qualified personnel only.
22. Never place humidifier housing under water flow or immerse in liquids.
23. Do not plug in the cord with wet hands: electric shock could result.
24. Do not block air inlet or outlet grills.
25. Do not fill through other openings other than water reservoir.

## **PLEASE SAVE THESE INSTRUCTIONS.**

### **CONSUMER SAFETY INFORMATION**



**THIS PRODUCT IS EQUIPPED WITH A POLARIZED AC (Alternating Current) PLUG (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. If the plug does not fit fully into the outlet, reverse the plug. If it still does not fit, contact qualified personnel to install the proper outlet. DO NOT DEFEAT THE SAFETY PURPOSE OF THIS POLARIZED PLUG IN ANY WAY.**

The length of cord used on this appliance was selected to reduce the hazards of becoming tangled in, or tripping over a longer cord. If a longer cord is necessary an approved extension cord may be used. The electrical rating of the extension cord must be equal to or greater than the rating of the humidifier. Care must be taken to arrange the extension cord so that it will not drape over the countertop or tabletop where it can be pulled on by children or accidentally tripped over.

### HOW YOUR COOL MOISTURE HUMIDIFIER WORKS

Your Bionaire® Cool Moisture humidifier draws dry air through the rear air intake grill area. This air is then passed through a moisture-laden wick filter which retains the minerals and deposits. The resulting moist air is directed back into the room from the top air grill.

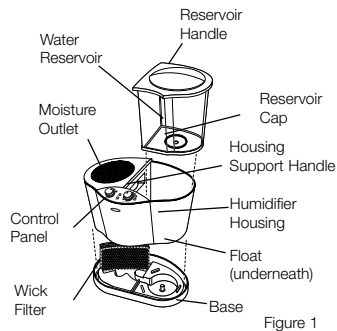
☛ Tip: This humidification system provides a cool, invisible moisture output. It is normal not to see the mist.

### PRE-OPERATING INSTRUCTIONS

1. Be sure the humidifier is switched off and disconnected from the electrical outlet.

2. Select a location for your humidifier, on a flat surface, about 4" away from the wall. Do not place your humidifier on furniture, a floor location that will not be damaged by moisture is best.

3. Remove the water reservoir, by holding the reservoir handle and lifting straight upwards.



4. Remove the humidifier housing by holding the housing support handle and lifting straight upwards. Check to see that the wick filter is properly in place. Replace the humidifier housing.

### FILLING THE WATER RESERVOIR

5. Twist off the water reservoir cap located on the bottom of the water reservoir by turning counter clockwise and fill the water reservoir with cool, fresh water. Do not fill with warm water as this may cause leaking.

6. After filling the water reservoir, replace the water reservoir cap by firmly turning clockwise and then replace the water reservoir on the base. The water reservoir will immediately begin to empty into the base.

## OPERATING INSTRUCTIONS

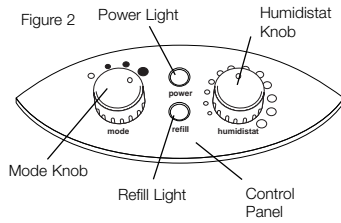
1. Plug the power cord into a 120V AC electrical outlet.
2. Turn the mode knob to the High setting.
3. Turn the humidistat knob to the highest setting.

## USING THE HUMIDISTAT

The humidistat feature allows you to set and maintain the humidity level you wish for your room. The humidistat is designed to operate between 30% and 65% relative humidity range. The recommended setting is 40-45%.

**For BCM4505:** To maintain this setting, position the humidistat (figure 2) knob in the middle position.

Turn the knob clockwise as far as it will turn to achieve the highest humidistat setting. In this setting, the humidifier will run constantly.



To lower your desired humidity level, simply turn the knob counter clockwise to choose your setting.

**For BCM4509:** To take advantage of the SmartTouch™ Electronic Humidistat, press the MODE button until the speed is set in either the HIGH or LOW setting, and the Desired Humidity is set. When the humidity level rises above the set humidity, the humidifier will stop. When the humidity level drops below the set humidity, the humidifier will turn on automatically.

**NOTE:** When the SmartTouch™ Electronic Humidistat is set, either the HIGH or LOW power light and the percent humidity light will remain lit during operation. The SmartTouch™ Humidifier has memory. This means that when you turn the unit back on, it will be at the last setting the humidifier was set at.

**For BCM4510:** The auto setting is designed to operate between 30% and 65% relative humidity range. (The recommended setting is 40-45%.) The auto setting may be used with any of the three auto speed settings (High, Medium or Low).

To program a specific humidity level in the auto setting, follow these instructions.

1. Use the mode button to scroll to either Auto/High, Auto/Medium, or Auto/Low.

2. Set the humidifier to the desired room humidity level by pressing the (+) or (-) buttons, in increments of 5%. If you scroll past the maximum setting of 65%, the display will automatically loop back to 30%.

3. Now the desired room humidity level is set.

**NOTE:** When the humidity in the room is less than the level you have programmed, the humidifier will continue to produce moisture. Once the room humidity level has been achieved, the humidifier will turn off. When the room humidity drops below your set level, the unit will automatically begin producing moisture again.

☛ Depending on the size of your room and your personal comfort, you will set your humidistat at different levels. If condensation forms on your windows or walls, or your measured room humidity is above 50%, then turn off your humidifier, or lower your humidistat level. (Humidity can be measured by the use of a hygrometer, such as Bionaire® BT254 or BT400 Digital humidity and temperature monitor.

**NOTE:** Allow up to 30 minutes for the filter to fully absorb water and for the unit to produce moisture.

If you do not plan to use the humidifier for two or more days, make sure any residual water is drained from the water tank, base and wick filter to prevent algae or bacteria growth.



### **NIGHTLIGHT INSTRUCTIONS (For BCM4510 Only)**

the BCM4510 is equipped with a nightlight which illuminates the control panel screen in a dark room setting. This nightlight operates on a sensor, and will illuminate when the room becomes dark. When the room becomes light, the nightlight feature will automatically turn off. To inactivate the nightlight, simply press the nightlight button on the control panel. To re-activate the nightlight feature, simply press the light button again (to see if light is on, place finger over sensor).

### **REFILLING THE WATER RESERVOIR**

When the water reservoir runs out of water, the refill light will illuminate on the control panel. The fan will continue to run to help dry out the humidifier. Unplug the power cord from the electrical outlet, and follow steps under "Filling the Water Reservoir."

If you do not plan to use the humidifier for two or more days, make sure any residual water is drained from the water reservoir, base and wick filter to prevent algae or bacteria growth.

### **REPLACING THE WICK FILTER**

Through normal use, waterborne minerals and sediment become trapped in the wick filter. The harder your water, the greater the amount of minerals in the water, and the more often you will need to change your

wick filter. Filter Monitor (after replacing the wick section) you will be able to check the life of the filter on your humidifier by checking the Filter Monitor located on the moisture outlet. When the unit is not in operation, the Filter Monitor (BCM4505/4509) will also read as OFF. When the unit is turned on, the Filter Monitor needle will need 60 minutes to read the current filter condition. If the needle reads change after 60 minutes, then filter replacement is needed. Regular filter replacement is necessary to ensure optimal humidifier performance.

To replace the wick filter, follow the steps below.

1. Turn the mode knob off and unplug the humidifier from the electrical outlet.
2. Remove the water reservoir and humidifier housing to access the base tray.
3. Discard the old wick filter and insert a new wick filter into the filter brackets found in the base.
4. Replace the humidifier housing and then the water reservoir.
5. Repeat "Operating Instructions" steps listed within.

It will take about 30 minutes for the humidifier to reach maximum output.

You can obtain your filter model by calling **1-800-788-5350** in North America or by visiting your nearest retailer or authorized service center. This humidifier takes model WF2630 replacement filter.

## **CLEANING AND MAINTENANCE INSTRUCTIONS**

Humidifiers provide comfort by adding moisture to dry, heated indoor air. To get the most benefit from the humidifier and avoid product misuse, follow all instructions carefully, specifically the operation, care and maintenance guidelines. Please note that this is an electrical appliance, and requires attention when in use.

In addition, if you do not follow the recommended care and maintenance instructions, micro-organisms may be able to grow in the water within the humidifier's reservoir.

### **Daily Maintenance**

1. Before cleaning, set the mode to the OFF position and unplug the unit from the electrical outlet.
2. Lift off the water reservoir and the humidifier housing.
3. Carry the base and the water reservoir to the sink, remove the wick filter, then drain and rinse the base and water reservoir thoroughly to remove any sediment and dirt. Wipe clean and dry with a clean cloth or paper towel.

4. Put the wick filter back in the base, replace the humidifier housing, then refill the water reservoir with cool tap water as instructed under "Filling the Water Reservoir."

5. If moisture forms on the walls or windows, turn off the humidifier.

## **Weekly Maintenance**

### **Remove scale:**

1. Repeat steps 1-3 above.
2. Clean the base by partially filling the base with one 8-oz cup of undiluted white vinegar, or use Clean-Away® by Bionaire®. Let solution stand 20 minutes, cleaning all interior surfaces with a soft brush. Dampen a cloth with undiluted white vinegar and wipe out entire base to remove scale.
3. Rinse with clean warm water to remove scale and the white vinegar solution before beginning to disinfect the reservoir.
4. Remove the float from the bottom of the humidifier housing and remove any scale by soaking in vinegar or Clean-Away® solution. Rinse thoroughly and re-install the float into the unit.

### **DISINFECT RESERVOIR:**

1. Fill water reservoir with 1 teaspoon of chlorine bleach and 1 gallon of water.
2. Let the solution stand for 20 minutes, swishing every few minutes. Wet all surfaces.
3. Empty the reservoir after 20 minutes, and rinse well with water until the bleach smell is gone. Dry with a clean cloth or paper towel.
4. Check to see if it is time to change the wick filter.
5. Refill the water reservoir with cool water, replace the humidifier housing and the water reservoir. Repeat Operating Instructions.


## **STORAGE INSTRUCTIONS**


If your humidifier will not be in use for two days or more, or at the end of the season follow these instructions.


1. Clean and dry the humidifier thoroughly as per the "Weekly Maintenance" instructions.
2. Let the humidifier dry completely before storing. Do not store with water inside the base or water reservoir.
3. Remove the reservoir cap. Do not store with the reservoir cap in place.
4. Throw away the wick filter. Do not leave a wick filter inside the humidifier.

5. Store in a cool dry location.
6. Order your new filter so it will be ready for next season.

## **SERVICE INSTRUCTIONS**

1. Do NOT attempt to repair or adjust any electrical or mechanical functions on this unit. Doing so will void the warranty. The inside of the unit contains no user serviceable parts. All servicing should be performed by qualified personnel only.
2. If you need to exchange the unit, please return it in its original carton, with a sales receipt, to the store where you purchased it. If you are returning the unit more than 30 days after the date of purchase, please see the enclosed warranty.
3. Should your humidifier require service, please call **1-800-788-5350** in North America for further assistance.
4.  If you have any other questions or comments, feel free to write to us or **visit our website at [www.bionaire.com](http://www.bionaire.com)**.

 BIONAIRE  
PO Box 400  
Milford, MA 01757  
USA

 BIONAIRE Canada  
6385 Shawson Drive  
Mississauga, Ontario  
Canada, L5T 1S7

<b>Troubleshooting for your Cool Mist Humidifier</b>		
<b>Trouble</b>	<b>Probable Cause</b>	<b>Solution</b>
• Power light not illuminated.	<ul style="list-style-type: none"> <li>☛ Unit not plugged in.</li> <li>☛ Power failure.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Plug in unit.</li> <li>✓ Check circuit breaker or outlet.</li> </ul>
• "Empty/Refill" light illuminated.	<ul style="list-style-type: none"> <li>☛ Water reservoir empty.</li> <li>☛ Scale build-up in base.</li> <li>☛ Scale build up on float</li> </ul>	<ul style="list-style-type: none"> <li>✓ Refill Water reservoir.</li> <li>✓ Remove base and flush out residue.</li> <li>✓ Clean float tubes and float.</li> </ul>
• Mist output minimal to none.	<ul style="list-style-type: none"> <li>☛ Filter has not absorbed water.</li> <li>☛ Mineral buildup in base.</li>   <li>☛ Humidistat is set too low.</li> <li>☛ Wick Filter needs to be replaced.</li>   <li>☛ Normal operation.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Wait 15 minutes before starting humidifier.</li> <li>✓ Regular cleaning of tray after each use will help keep the unit functioning properly.</li> <li>✓ Set the humidistat to high.</li> <li>✓ Replace your wick filter (WF2630) by calling 1-800-788-5350 , or visit <a href="http://www.bionaire.com">www.bionaire.com</a>.</li> <li>✓ Mist is invisible.</li> <li>✓ Check to see if inlet or outlet grills are blocked</li> </ul>
• Water leaks from water reservoir.	<ul style="list-style-type: none"> <li>☛ Rubber O-ring is missing or improperly placed.</li> <li>☛ Reservoir Cap not tight enough.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Remove reservoir cap then replace or reposition ring.</li> <li>✓ Tighten the reservoir cap.</li> </ul>
• Water Filter turns brown.	<ul style="list-style-type: none"> <li>☛ Your filter needs to be changed.</li>   <li>☛ In areas with particular hard water your wick filter will need to be changed frequently.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Replace your wick filter (WF2630) by calling 1-800-788-5350 , or visit <a href="http://www.bionaire.com">www.bionaire.com</a>.</li> <li>✓ Use Clean Away Solution (DMS216), to order call 1-800-788-5350 , or visit <a href="http://www.bionaire.com">www.bionaire.com</a>.</li> </ul>
• Film on water reservoir.	<ul style="list-style-type: none"> <li>☛ Mineral deposits cause film on tank to build up.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Replace your wick filter (WF2630) by calling 1-800-788-5350 , or visit <a href="http://www.bionaire.com">www.bionaire.com</a>.</li> </ul>
• Water cloudy.	<ul style="list-style-type: none"> <li>☛ Filter needs to be replaced.</li> <li>☛ Using warm water to refill reservoir.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Refill using cool water.</li> <li>✓ Set the humidistat to a higher or lower setting.</li> </ul>
• Humidistat cycles on/off.	<ul style="list-style-type: none"> <li>☛ Humidifier is reacting to room humidity level.</li> </ul>	
• Very tight reservoir cap.	<ul style="list-style-type: none"> <li>☛ Over tightened.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Add liquid soap or petroleum jelly to cap gasket to ease opening.</li> </ul>

## **WARRANTY**

Bionaire® warrants to the first retail purchaser, for TWO (2) YEARS from the date of original purchase, either to repair or replace at its option, without charge (parts and labor), any supplied or manufactured part of this humidifier which, upon inspection by an authorized service center, proves to have failed in normal use due to defects in material or workmanship, or, at its option, to replace the unit.

Operation under conditions other than those recommended or at voltages other than the voltage indicated on the unit, or any attempts by unauthorized personnel to service the unit or modify it, will render the guarantee void.

Bionaire® shall not be liable for any personal injury, property damage or any incidental or consequential damages of any kind (including water damage), resulting from defects, malfunctions, misuse, improper installation or alteration of the product.

**BIONAIRE® EXPRESSLY DISCLAIMS ALL RESPONSIBILITY  
FOR CONSEQUENTIAL DAMAGES OR INCIDENTAL LOSSES  
CAUSED BY USE OF THIS PRODUCT.**

The provisions of this warranty are in addition to, and not a modification of, or subtraction from the statutory warranties and other rights and remedies contained in any applicable legislation and to the extent that any such provision purports to disclaim, exclude or limit any such statutory warranties or other rights or remedies, such provisions shall be deemed to be amended to the extent necessary to comply therewith.

**For Warranty Service, please call 1-800-788-5350  
in North America.**

A Bionaire® consumer service representative will help determine which is the best procedure in order for your humidifier to be repaired.

**KEEP THIS NUMBER FOR FUTURE REFERENCE.**