

ULTRASONIC HUMIDIFIER - PHC 19LD

INTRODUCTION

Thank you for purchasing the PROTON Digital Ultrasonic Humidifier PHC 19LD . Each unit has been manufactured to ensure safety and reliability. Before using for the first time, please read these instructions carefully and keep them for future reference.

IMPORTANT SAFETY INSTRUCTIONS

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

- Use this humidifier only as described in this manual. Failure to follow these instructions may cause fire, electric shock or injury to persons.
- Make sure water is filled in the water tank when operating the humidifier.
- Use only clean, cool tap water to fill the tank. If you have hard tap water, it is strongly suggested to use distilled water.
- Do not add fragrance or oil in the water, it will cause the machine to malfunction and void the warranty.
- Be sure the cap of the water tank is firmly tightened.
- When adding water to the tank, make sure water does not enter the mist nozzle.
- During operation, rotate the mist nozzle so it aims away from children, walls and furniture.
- This product is intended for home or office use ONLY and not for commercial, industrial or outdoor use.
- Do not add medication of any type into the nozzle, base or water tank.
- Do not cover any openings on the unit or insert objects into any openings.
- Do not tilt or tip the unit or attempt to empty or fill while in operation.
- Do not leave the unit unattended in closed rooms as the air could become saturated and leave condensation on walls or furniture. Always leave the room door / window partly open.
- To protect against electric shock, do not immerse unit, plug or cord in water or other liquids.
- This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of shock, this plug is intended to fit only one way in a polarized outlet. 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.
- Keep the cord away from heated surfaces and areas where it could be walked on or tripped over.
- Use only a 220-240V AC outlet.



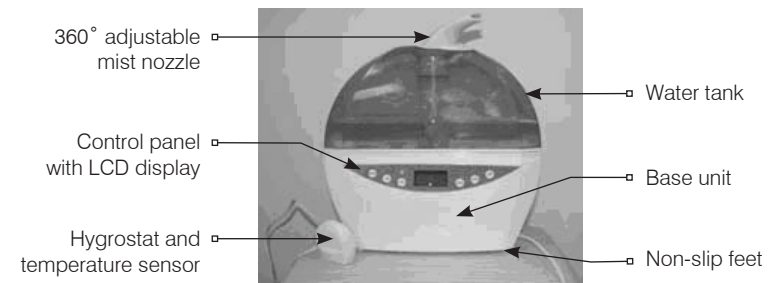
- Close supervision is necessary when any appliance is used near children.
- Turn the unit OFF and unplug from the outlet when not in use, when moving from one location to another and before cleaning. Never pull the plug by the cord.
- Do not operate the humidifier in the presence of explosive and/or flammable fumes.
- Do not place the humidifier or any parts near an open flame, cooking or heating appliance.
- Do not operate humidifier with a damaged cord or plug, or if the product malfunctions, or is damaged in any manner.
- The use of attachments not recommended by the manufacturer may be hazardous.
- Always place the humidifier on a flat, level surface away from direct sunlight.
- Do not operate if the housing is damaged.
- A loose fit between the electric socket and plug may cause overheating and distortion of the plug. Contact a qualified electrician to replace loose or worn outlet.

HUMIDITY LEVEL

- It is best to keep the humidity level between 30~50 percent of relative humidity.
- The comfort level of humidity will vary from room to room and with changing room conditions.
- In cold weather, windows and even some walls may develop condensation from excessive indoor humidity. If this occurs, reduce the mist intensity setting or humidity setting to avoid damage from condensed water dripping on windowsills.
- Too much humidity in the room may allow moisture to accumulate on surfaces where bacteria and fungi can grow. Moisture that gathers may also damage furniture, walls and wallpaper.
- To eliminate excessive humidity, especially in smaller rooms, leave the room door open and adjust the humidity and mist intensity controls accordingly.

PARTS IDENTIFICATION

A. Unit

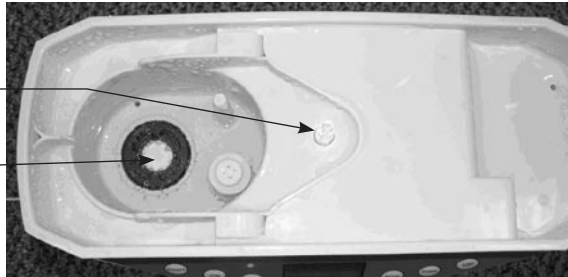


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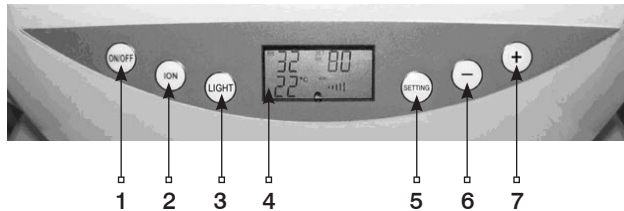
B. Base Unit

Color changing night light

Transducer



C. Control Panel



1. On/Off: power button

- Press once to turn unit ON.
- Press again to turn unit OFF.

NOTE: The Power Indicator will light once plug is connected to the outlet.

2. Ion: ionizer button

- Press once to turn Ionizer feature on. The word 'ION' will appear on the LCD panel.
- Press again to turn Ionizer feature off.

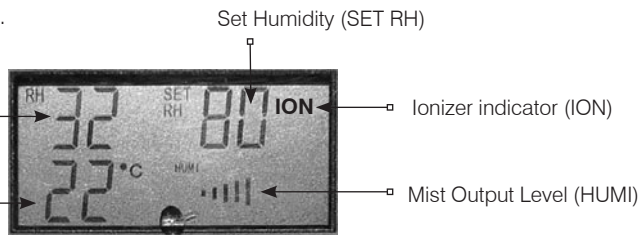
3. Light: color changing night light

- Press once to turn on feature.
- Press again to turn off.

4. LCD display:

Room Humidity level (RH)

Room Temperature (°C/°F)



Set Humidity (SET RH)

Ionizer indicator (ION)

Mist Output Level (HUMI)

5. SETTING: Used to select set humidity level required (SET RH), mist output level (HUMI) or room temperature degree display (°C or °F).

6. **- Button:** used to increase set humidity level, mist output level or change room temperature degree display.

7. **+ Button:** used to decrease set humidity level or mist output level.

OPERATING INSTRUCTIONS

1. Remove water tank by grasping the water tank firmly and pulling upwards.
2. Turn water tank over and turn the cap anticlockwise to open. Fill with COOL CLEAN TAP WATER or DISTILLED WATER. DO NOT USE HOT WATER.
3. Replace the fill cap by turning clockwise – do not over tighten.

NOTE: When carrying a filled water tank, place one hand under for support and do not carry by the mist nozzle. Do not add fragrance or oil in the water – it will cause malfunction of the unit!
4. Replace water tank, making sure the tank is correctly aligned with the base unit.
5. Plug in power source and the Power Indicator will light up.
6. Press On/Off button, LCD panel will display settings and unit will begin to deliver mist output.
7. The hygrosat and temperature sensor is a detachable design. Affix it to the unit or nearby surface to read ambient room temperature and humidity level.
8. Adjust the mist nozzle for desired direction (it turns 360°).

SAFETY NOTE:

- Once the water tank is in place or during operation, do not attempt to pick up the water tank. This will cause excess water to collect in the base and reduce or cease mist output. To move the unit or add water to the tank, first unplug power and drain water from the base.
- Do not point the mist nozzle directly at the hygrosat. Do not spray or pour water on the hygrosat. This will cause the hygrosat to become defective in reading the correct room humidity level. If wet, it will read close to 100% humidity and unit will not produce any mist.
- During the first few minutes of operation, some mist may escape from the crevice where the water tank joins the base – this is normal and not a defect.

SETTINGS

a. Adjusting Mist Output

- Press + or – buttons to adjust mist output level (total 10 levels).

b. Changing Temperature Setting

- To change ambient temperature display from °C to °F (or vice versa): Press SETTING button once and °C/°F will flash. Press + button to change the degree display.
- Press SETTING button twice when done.

c. Ionizer

- Press ION button to turn Ionizer feature on or off.

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d. Setting Humidity Level

- To change set humidity: Press SETTING button twice and SET RH will flash. Press + or – button to set desired humidity setting. Range is 0 to 99.
- Press SETTING button again when done.
- Once the hygrosat sensor detects that the room humidity has reached set humidity level, mist output will automatically cut off. Once the room humidity level falls below the set humidity level, mist output will resume.

Note: When unit is initially turned on (or after power has been disconnected), unit will operate at default settings: Room Temp display in °C, Humidity set at 80 and mist level at 5. If unit is switched off without disconnecting the power, the last settings will be recorded and the humidifier will operate as per the last settings.

e. Night Light

- Press LIGHT button to turn color-changing night light on or off.

Note: Unit continues to deliver mist output while adjusting any of the above settings. However, ION and LIGHT buttons will not respond if you're changing the temperature display or setting humidity level. Ensure SETTING button is in standard mode before turning ION / LIGHT on or off.

PROTECTION FEATURES

- This unit is equipped with the following protection features:
- Water Shortage Protection: If the water within the tank falls below a certain level, the unit will automatically stop operating.
- Humidity Control: When ambient humidity achieves the set humidity level, unit will stop mist output.
- Tank Alignment Control: When tank is not properly placed or moved out of position during operation, unit will automatically shut down.

STORAGE

- Save the box for future storage.
- Clean the tank, base and all part thoroughly and dry before storage. If water is left in the unit during storage, it may harden and leave deposits that may affect the unit from operating properly in future.
- Leave the cap of the water tank loose. This will prevent the cap and gasket from sticking together and prolong the life of the gasket.

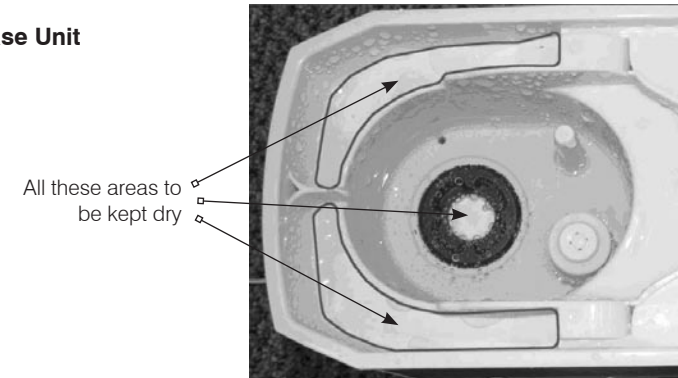
TROUBLESHOOTING

If unit is not producing mist:

- Check if unit is powered on.
- Check if water is in the tank.

- Check if water tank is properly placed onto the body.
- Check if room humidity has reached or is over the set humidity level.
- Select a higher mist output level.
- Check if the hygrosat is wet or damp, and reading of room humidity level is excessively high.
- Remove water tank and ensure the base unit is completely dry before replacing it again.

Base Unit



CLEANING & MAINTAINENCE

- Turn off power and unplug unit before cleaning.
- Never use a detergent or any cleaning chemicals to clean any part of the unit detergent dissolved in the water supply can interfere with the mist output.
- If the water tank is extremely dirty, soak with a mild bleach (no more than 10%) and rinse clean. Never use detergent.
- Wipe the exterior with a damp cloth, except the electrical controls.
- Do not spray water or any liquid on the outer base of the unit to avoid damaging the LCD and circuit.
- Never immerse the unit in water or let water enter the air outlet or other openings.
- Clean and rinse the water tank with lukewarm water frequently to avoid mineral build up, especially during the hot season.
- Keep the humidifier and transducer free of mineral deposits. Remove water tank and empty the base. Clean the humidifier and transducer with a soft brush. Do not scrape the transducer. Do not clean with tools that have sharp metal points.
- Leaving the water to sit in the tank for more than a couple days may cause bacterial growth. Always empty the tank if you are not planning to use the humidifier for a few days.