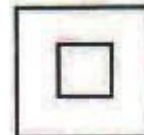


# ORION<sup>®</sup>

**USER'S GUIDE**  
**ULTRASONIC DIGITAL HUMIDIFIER**  
**MODEL ORION ORH-021CW**  
(English)



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**DEAR CUSTOMERS!**

**MANY THANKS FOR BUYING ORION ULTRASONIC HUMIDIFIER!**

We really believe you will get the greatest pleasure from using this device for the years!

Please, read the user's guide in detail before first using of this ultrasonic humidifier

## **PRECAUTIONS**

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This product should be used only in accordance with the specifications outlined in this manual. Usage other than what has been specified here may result in serious injury.

1. Disassembly, repair or remodeling by an unauthorized person may result in serious harm.
2. Do not use if plug is damaged or loose.
3. Keep this product out of the reach of children.
4. Be careful not to put water in the humidity spout.
5. **Before filling or cleaning the unit, make sure it is unplugged!**
6. Once the humidifier has been turned on, don't move it.
7. Do not move remove the bucket from the unit while it is on.
8. Do not handle the plug with wet hands.
9. Do not excessively bend, twist or pull the power cord.
10. Avoid placing this product where the humidity is pointed directly at an electrical object.
11. Do not directly inhale the humidity.
12. Do not place this product on a sloped or unstable surface.
13. When not in use, unplug the plug.
14. Do not fill the bucket with hot or boiling water.
15. Do not use this product in direct sunlight, or near a gas stove or heater.
16. If the bucket becomes cracked or damaged, do not use.
17. Do not clean the unit or bucket with detergents or chemicals of any kind.
18. Do not use this product near any other electronic device.
19. Do not cover the humidity opening at any time during use.
20. Do not use this product near a sink.
21. Do not place this product on an absorbent surface.

Failure to comply with the warnings listed above may result in electric shock or serious injury.

### **Notes:**

- This machine only suits for water and its max water capability is: 4,2l.
- A warning of risk of scalding by steam.
- Advice to unplug the appliance during filling and cleaning.
- If the supply cord is damaged, it must be replaced by the professional person.

## **FUNCTIONS AND FEATURES**

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### **1. Warm or Cold Humidification Selection**

Select humidifying temperature based on need. For cold humidification, water temperature is maintained at about 25°. For warm humidification, it is maintained at 40~50° to disinfect low temperature bacteria. Warm humidity will use more power but will humidify your room quicker.

### **2. Humidity Level**

55%-65% humidity is considered within the comfortable range.

### **3. Water Shortage Indicator**

When the unit is low on water the Refill LED on the front panel will light up and alarm with the buzzer, and the unit will shut off. Simply add more water to continue use.

### **4. Water Tank Put Up Protection**

When the water tank is put up from the unit, the unit will shut off.

### **5. Humidity Adjustment-**

The humidity volume may be adjusted based on need by pressing the humidity control button on the front pane

**6. Humidify Operation Mode Selection**

Three operation mode Auto/Manual/Sleep selection for convenient to use.

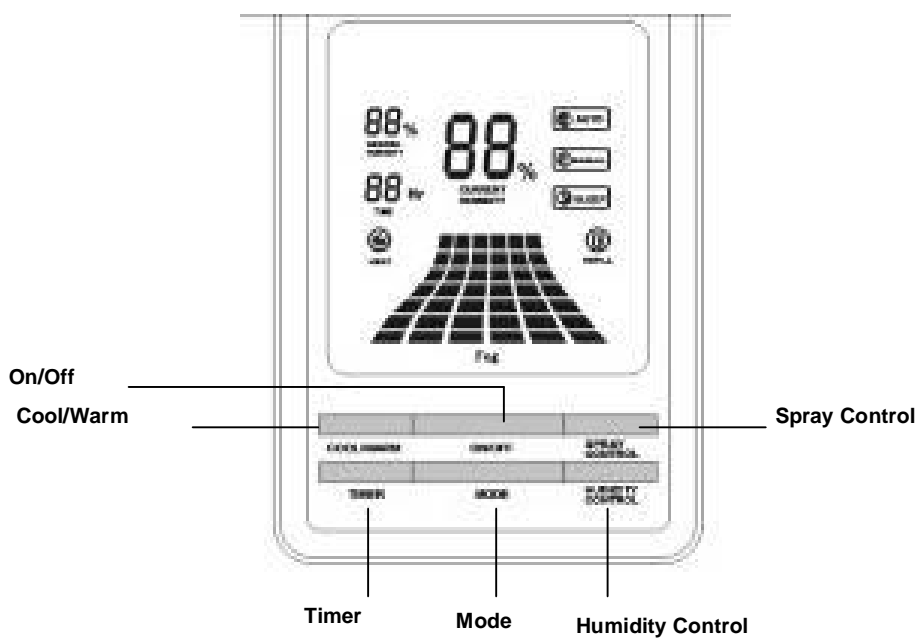
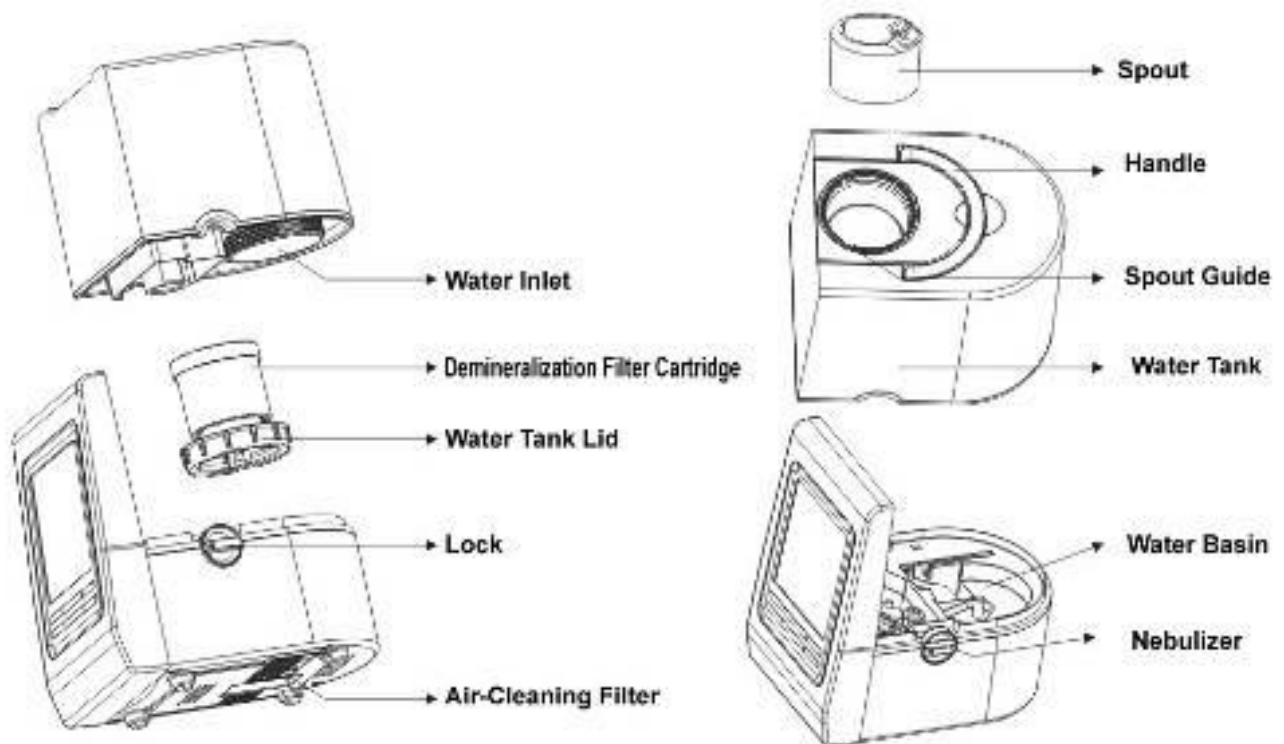
**7. Demineralization Filter Cartridge**

The demineralization filter can removes limescale and minerals from the water to preven “white dust”, which is a deposit of minerals left behind from the water in your humidifier.

**8. Modern design**

**9. Safe and easy to clean**

**PARTS**



## BEFORE EACH USE

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### – CHECK HUMIDIFIER PLACEMENT

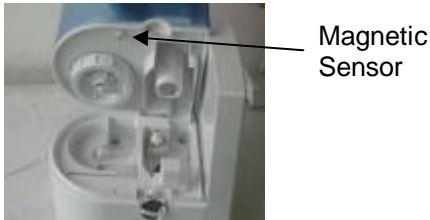
Place the Humidifier on an elevated non-metallic waterproof surface for best performance. This is to help disperse the mist in the air, and prevent it from being knocked or tipped over.

### – CHECK WATER LEVEL SENSOR

Make sure that the water level sensor is secured properly. Refer to “cleaning and maintaining water level sensor” on page 7 for instructions on how to assemble water level sensor.

### – CHECK WATER TANK CONTACT SENSOR

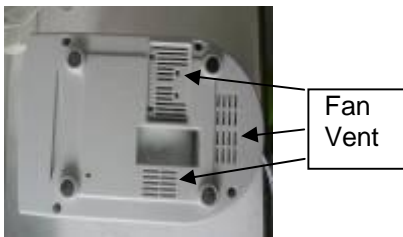
Make sure that the Magnetic Sensor is fixed properly. This Contact sensor is used for water tank put up protection..



### – CHECK FAN VENT

This fan vent is located on the bottom of the humidifier. The purpose of the Fan Vent is to blow the cool mist through the vapor outlet slots. It is important that this part is kept clean and free of obstructions. We recommend checking the fan vent before using this item (i.e. lint, paper).

Do not place humidifier on top of a towel, or a carpeted surface. The fan vent on the bottom may become blocked, and overheat the humidifier.



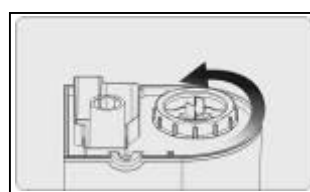
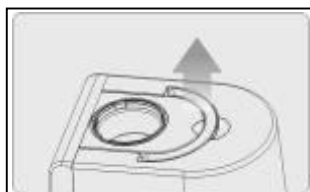
## DIRECTIONS FOR USE

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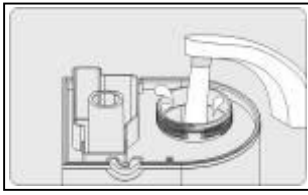
1. Unplug the unit from the wall socket.
2. Unlock the water tank body by turning the lock counterclockwise.
3. Take out the spout out of the body and place it on table.



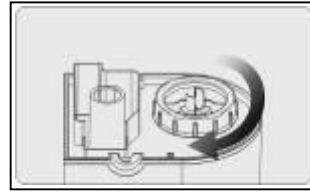
4. Separate the tank from the body of the unit by holding the handle
5. Open the tank lid by turning it counter-clockwise



6. Pour cool, clean water directly into the tank.



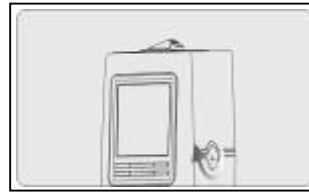
7. Close the tank lid, turning it clockwise.



8. Attach the tank to the body of the unit.



9. Replace the spout and lock the water tank by turning the lock clockwise.



10. ON/OFF Button

Before turning on make sure there is water in the unit, then press ON/OFF Button.

11. The current room humidity level will be shown on the display. The humidity reading will not display below 35%.

12. Mode Button

– **Manual Button**

Press once for Manual mode. The humidity presetting can't be activated. You can run the unit continuously. The mist output can be manual adjusted from level weak to strong.

– **Sleep Mode**

Press twice for Sleep mode. The humidity hygostat will be first auto-set at the level 55%. You can set the humidity hygostat to your desired humidity level from 35% to 70%. The mist output only can stay at weak level and can't be adjusted. If the room humidity level drops below the set more than 3%, the mist output will auto-turn on at weak level. If the humidity level rises above the set, the mist output will auto-turn off.

– **Auto Mode**

Press the button again for auto mode. The humidity hygostat will be first auto-set at the level 55%. You can set the humidity hygostat to your desired humidity level from 35% to 75%. If the room humidity level drops below the set with 3% to 5%, the mist output will be auto-adjusted to weak level; If the room humidity level drops below the set with 5% to 10%, the mist output will be auto-adjusted to middle level; If the room humidity level drops below the set more than 10%, the mist output will be auto-adjusted to strong level; If the humidity level rises above the set, the mist output will auto-turn off.

13. Timer Button

Press the Timer button and set the numbers of hours you would like the unit to run ( 1 hour,2 hours up to 12 hours) , Cn means constant humidification.

14. Humidity Control Button

Press the Humidity Control button to change the humidity level. Humidity options include: 35%, 40%, 45%, 50%, 55%, 60%, 65%, 70%. Cn means constant humidification.

15. Spray Control Button

If you press the Spray Control Button, there are three options for you to choose.

Press once for weak

Press twice for middle

16. Cool/Warm Button

Press Cool/Warm button to select warm humidification. The warm mist temperature will be about 45°. When you choose the warm humidification, the Heat light will turn on.

17. When the Refill light turn on, it's time to refill the water tank.

**MAINTENANCE**

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- Always unplug the unit before servicing it in any way.
- Be careful when handling the water if warm humidification was selected. The water temperature of the water remaining in the unit after user may be high.
- Do not submerge the unit in water, or allow water to enter anywhere on the unit except the designated water tank.

**Water tank and water basin**



1. Fill water tank with 1 teaspoon of household bleach in 1 gallon of water. Let stand twenty minutes, shaking vigorously with two hands every few minutes, drain and rinse with clean water until the bleach smell is gone. Dry with a clean cloth or paper towel.



2. Wipe the water basin with a soft cloth dampened in the cleaner and water solution. Rinse the water basin with cool water. When cleaning the water basin do not place the nebulizer directly under the water tap. **DO NOT IMMERSE WATER BASIN IN WATER.**



3. Wipe all exterior surfaces of the base with a soft, dry cloth. Do not immerse the base in water or use water to clean the base. As with any electrical appliance, an electric shock may result or the humidifier may be damaged.

**Note: Clean the inside of the water tank at least once a week**

**Ultrasonic disk**

There may be some lime deposits in the nebulizer, Particularly in areas with hard water. Overcome this drawback by cleaning the nebulizer with water and vinegar on a soft cloth regularly, as follows:

1. Dampen a cloth with vinegar and wipe the nebulizer gently, until the lime deposits disappear completely.
2. Rub down gently with a dry cloth and remove remains of humidity
3. Do not rub the nebulizer with solid objects. Do not clean with chemical products.

**Air filter**

1. Gently wipe away debris from the filter with a soft cloth.

**Water level sensor**

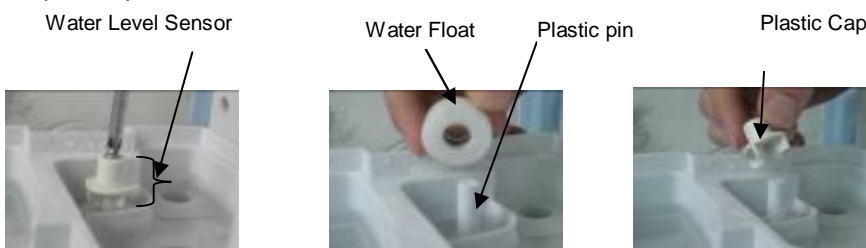
The water level sensor is made of three key parts. When cleaning **DO NOT MISPLACE** these parts and **MAKE SURE** that you assemble these three parts correctly after cleaning and before operating humidifier. They are as follows:

**Plastic Cap**-this part has 4 flat tabs coming out from the bottom and is placed on top of a plastic pin.

**Water Float**- a small round part resembling a "life saver" candy located underneath the Plastic Cap.

**Pin**-plastic pin that secures water float and plastic cap.

To clean the water float unscrew the plastic cap from the pin. Remove the water float and clean by wiping the parts with a soft damp cloth. Replace the parts by first putting the water float onto the pin and re-screwing the plastic cap onto pin.



### Storing

Allow the humidifier to dry completely before storing. Store the humidifier in a dry location. Do not place any heavy items on top of humidifier during storage as this may result in possible damage of the appliance. Always check the plug before use to assure metal items have not become attached.

- Save the box for off-season storage.
- Make sure the tank, water basin and water tank cap are thoroughly dry before storing.
- If water is left in the unit during storage, it may evaporate completely and leave deposits that can prevent the unit from operating properly.
- Leave the water tank refill cap loose to prevent the water cap and gasket from sticking together. This will prolong the life of the gasket.

### TROUBLE SHOOTING

CAUTION: DO NOT attempt to repair the motor or nebulizer yourself. If the humidifier continues to not operate please call our service center (see toll free number below).

PROBLEM	SOLUTION
Refill Light is staying red and not turning off Humidifier is working then stops:	<ul style="list-style-type: none"> <li>▪ Ensure that water level sensor is assembled properly</li> <li>▪ Ensure that magnetic sensor is assembled properly.</li> <li>▪ Clean water float</li> <li>▪ Call service center and request replacement water float</li> </ul>
If humidifier does not work at all:	<ul style="list-style-type: none"> <li>▪ Ensure it is properly plugged into a power outlet.</li> <li>▪ Check that the switch is in the ON position.</li> <li>▪ If Power On indicator light does not come on, bring to authorized service station.</li> </ul>
Warm humidity is not produced	<ul style="list-style-type: none"> <li>▪ It may take 10-15 min. before warm humidity is created. The steam may not feel warm to the touch..</li> </ul>
If there is a strange odor:	<ul style="list-style-type: none"> <li>▪ Poor maintenance or dirty water: Clean the product thoroughly, and fill it with fresh water.</li> </ul>
The power light is green but there is no mist being emitted:	<ul style="list-style-type: none"> <li>▪ Check that there is water in the tank.</li> <li>▪ Check for possible lime deposits on the water level sensor or the nebulizer (see page 8 and 9).</li> <li>▪ Make sure that nothing blocks the vapor output slots.</li> <li>▪ Check that the fan vent on bottom of humidifier is not blocked.</li> <li>▪ Empty the humidifier and rinse the water basin with cool tap water and allow to dry for 15 to 30 min.</li> </ul>
White dust appears and settles outside the humidifier:	<ul style="list-style-type: none"> <li>▪ Area tap water may have too many minerals, change to filtered or distilled water.</li> </ul>



## SPECIFICATIONS

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- Rated voltage/Power: AC 220V/130W
- Current: 0.6A
- Protection class against electric shock: Class II
- Moisture protection: IPX0
- Water tank capacity: 4.2 Liter
- Mist output : 6 liters per day
- Noise: 35db
- Auto shut-off when water is empty
- Cool and Warm mist
- Power: 32W (Cool)/ 130W (Warm)
- Digital led display
- Adjustable humidify
- Water tank lock
- Digital built-in hygrometer and timer;
- Three modes: 1 Manual (press Mode button one time), 2 Sleep mode (press Mode button two times), 3 Auto mode (press Mode button three times).
- Filter can soft the water well (need to be changed one time per year)
- Net/Gross weight: 2,24kg/2,6kg
- Length of power cord: 1.5m
- Product size: 270\*185\*315mm
- Gift box size: 307\*222\*335mm
- Color: Silver

### Terms and conditions of Good safe and efficient utilization

The place of storage should be inaccessible for direct sun rays, high humidity. Avoid mechanical damages of the device.

Protect our environment: do not dispose of electrical equipment in the domestic waste. Please return any electrical equipment that you will no longer use to the collection points provided for their disposal. This helps avoid the potential effects of incorrect disposal on the environment and human health. This will contribute to the recycling and other forms of reutilization of electrical and electronic equipment. Information concerning where the equipment can be disposed of can be obtained from your local authority.

### Warranty obligations of the manufacturer

Ultrasonic humidifier ORH-021CW conforms to the approved sample. This device is completely safe to use and doesn't make a harmful effect on the environment if the owner observes all the rules that are stated in this Instruction Manual. Warranty period for this device is 12 months from the date of purchase excluding the time spent in service center. The owner of the device has guarantee rights if warranty card is filled in correctly. Details regarding guarantee conditions can be obtained from the dealer from whom the appliance was purchased.

Name: ORION ORH-021CW

Purpose: Ultrasonic humidifier

Assembled in P.R.C. under strict control of ORION Electronics Ltd

Developed by ORION Electronics Ltd

Address of the developer: 29 Jaszbereni st, Budapest 1106, Hungary, Europe

Manufacturing date: 2011

Guarantee period: 12 months

Warranty service: "Foxtrot service", Kyiv, 44 Schuseva st.

The model satisfies the requirements: ДСТУ 3135.0-95 (ГОСТ 30345.0-95) IEC 335-1-91;

ГОСТ 23511-79, p.1; ДСТУ CISPR 14-1:2004 (CISPR14-1:2000, IDT)

Certificates: CE/GS

Net weight: 2,24 kg

Gross weight: 2,6 kg

Color: Silver

Extra information on ORION company web-site [www.orion.ua](http://www.orion.ua)

We take your opinion and offers by E-mail [support@orion.ua](mailto:support@orion.ua)