

Ultrasonic Humidifier
with Ionizer and Aromatherapy
CA-603



Instruction Manual



Thank you for purchasing the innovative **Clean Air Optima CA-603** Digital Cool Mist ultrasonic humidifier with Ionizer and Aromatherapy.
We wish you many years of healthy indoor air with this efficient and effective product.

Ensure that all safety precautions are followed when using this electrical appliance for the proper operation of the device. These instructions describe the safety precautions to be observed during operation. They are designed to prevent injuries or damage to this device.

Safety Precautions

- The inner ultrasonic transducer is highly sensitive. Do not touch it with bare fingers or scrape it with metal tools, or it will reduce mist output. When cleaning this area please use a small cleaning brush, cotton swab or tooth brush. Do not use hot water as it may damage the misting parts.
- Use proper voltage - AC 110~120V 60Hz in Canada/USA; AC 220~240V 50Hz in Europe. Use of improper voltage may cause fire hazard or electric shock.
- To prevent electric shock, do not dismantle, repair or modify this product. Maintenance and cleaning should be followed exactly as instructed in this manual. In the event of a malfunction, please contact an authorized **Clean Air Optima** maintenance center.
- Do not use in areas where flammable or explosive materials are stored.
- Do not place this device in direct sunlight or near objects that generate high temperature heat. The heat may cause deformation or warping of the outer casing.
- Do not use the humidifier in a room that already has humidity levels above 50% relative humidity. Excessive humidity in the room gives rise to condensation on cold surfaces such as walls or windows.
- Do not operate the unit without water in the basin.
- Do not insert foreign objects into the device. Do not touch the transducer or the lower water basin when the unit is operating. Do not scratch the transducer. Do not touch the mist output when producing warm mist.
- Do not submerge this device in water. Water or cleaning liquids may only be used on parts to be cleaned according to the cleaning and maintenance instructions.
- Only use lime scale remover or vinegar to clean mineral deposits from the basin or transducer. Do not use any harsh detergents that may damage the unit.
- The use of other essential oils not made for this air humidifier or other additives (for example pure essential oils, fragrances, water purification products) can damage the air humidifier and must NOT be used! Even a small quantity can damage the plastic and cause cracks. The material is not made for the use of additives. One drop is enough to damage the water tank/ basin and disable the device. Devices that are damaged through additives are excluded from the guarantee.
- If you smell an abnormal odour, please turn off and unplug the unit and call **Clean Air Optima** technical support.
- Clean and dry the device before storage (including the removal of all water from the inside of the device). Store the machine in a cool and dry place outside the reach of children.
- Do not use fabrics or other materials to cover this device. Obstructed air inlets and outlets will result in improper operation of this unit and may result in fire or other damage.
- To prevent interference and damage to other electronic devices, this machine should be placed at least 1 meter away from a computer, television, radio or other electronic equipment.
- The ultrasonic humidifier should be cleaned regularly for proper operation and long life. See cleaning instructions.
- For safety reasons and to prevent fire or electric shock, unplug the power cord from the electric outlet socket whenever you:
 - Do not use the device for a long period of time.
 - Remove the tank, clean or service the machine or the permanent filter.
 - Move or transport the device.

If the power cord is damaged, then it must be replaced by an authorized service person to prevent electric shock or fire.

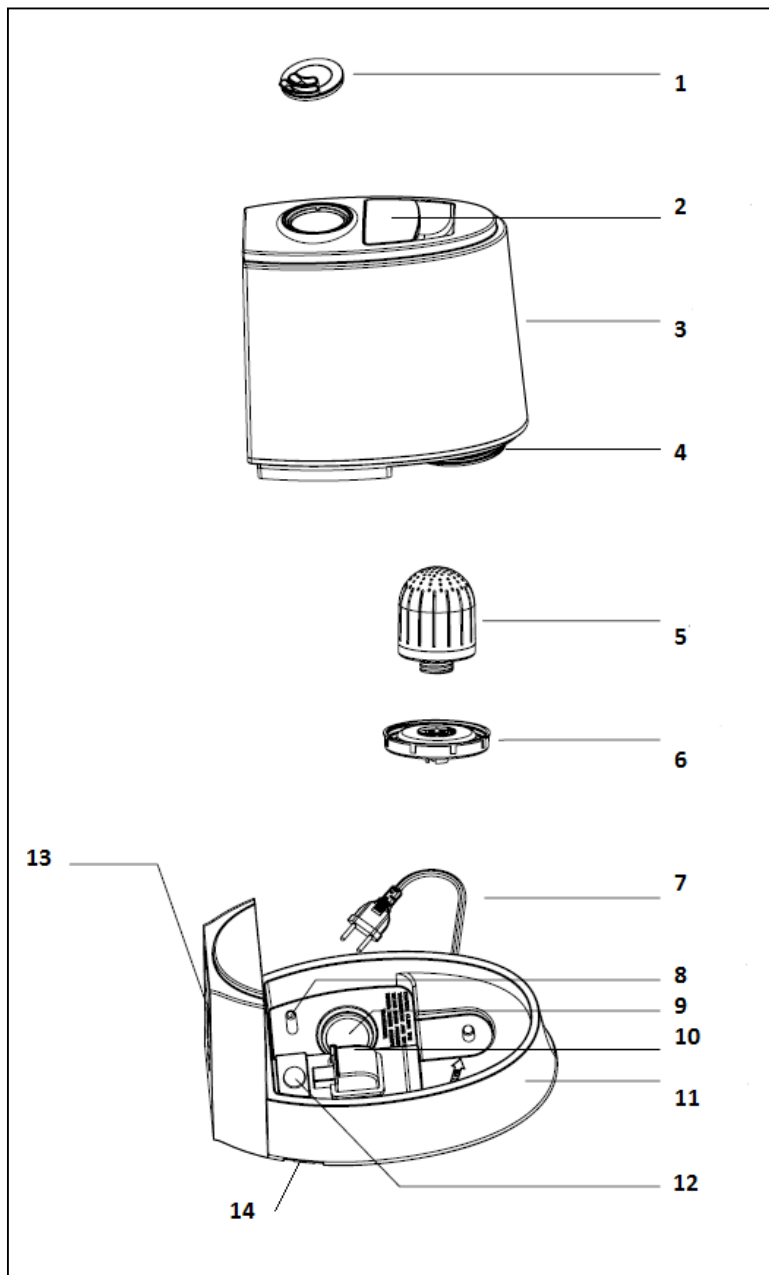


Diagram CA-603

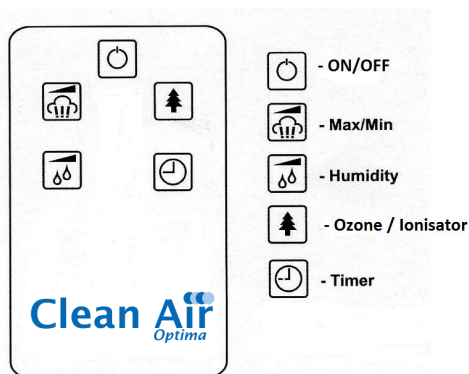
1. nozzle
2. handle
3. water tank
4. water inlet
5. filter cartridge
6. tank cover
7. cord & plug
8. water level sensor
9. transducer
10. fan/ionizer
11. base / waterbassin
12. led light / indicator on
13. display with touch buttons
14. aroma box

The device can be controlled by five touch buttons located on the front of the display.



On/Off	-	Switches the humidifier on/off
Ion	-	Switches negative ions on/off
Max/Min	-	Sets misting spray level to low, medium or high
Humidity	-	Sets desired humidity level from 45% to 75% relative humidity
Timer	-	Sets the timer to operate the humidifier from 1 to 12 hours

The **Clean Air Optima CA-603** is equipped with a very useful remote control. The remote control duplicates the six button control panel just below the humidifier's LCD display. You can activate the remote control by removing the protective film from the battery area located at the bottom edge of the unit just below our logo.



The LCD display shows the numeric values for temperature and relative humidity and the length of time remaining on the timer. It also displays the icons used to indicate other humidifier functions.

Aromatherapy

Important

In order to reach the best results and to enjoy your **CLEAN AIR OPTIMA ultrasonic air humidifier** as much as possible, we advise to read carefully the following instructions regarding the use of essential oils in the **ultrasonic air humidifier CA-603 by CLEAN AIR OPTIMA**.

Use of essential oils in the CLEAN AIR OPTIMA CA-603

Use our high quality essential oils and enjoy your personal aromatherapy! A scent sensation at its highest level!

You can find high quality essential oils with many different scents in our assortment. They perfectly fit to the **CLEAN AIR OPTIMA ultrasonic air humidifier CA-603** and have been specially developed for the use with this ultrasonic humidifier:



Eucalyptus	10ml
Vanilla	10ml
Lavender	10ml
Jasmine	10ml
Lemon	10ml
Rosemary	10ml

To order:

www.cleanairoptima.com

Effectiveness

Essential oils (also called volatile oils) stimulate our olfactory sense through their volatility and are perceived as aromatic. Essential oils naturally evaporate with time.

The **air humidifier CA-603 by Clean Air Optima works** according to the newest nebulisation technology based on ultrasound in order to atomise essential oils and water into microscopically small drops. Thanks to this technology the components and the water can unfold their beneficial potential for humans.

Filling and refilling with essential oils:



Open the aroma box at the side of the device, pour 5 – 10 drops of your favorite essential oil on the pas and close the aroma box. In order to reach the best effect, **please ONLY use the high quality essential oils and compositions from the Clean Air Optima assortment**.

Warning!

The use of other essential oils not made for this air humidifier or other additives (for example pure essential oils, fragrances, water purification products) can damage the air humidifier and must NOT be used! Even a small quantity can damage the plastic and cause cracks. The material is not made for the use of additives. One drop is enough to damage the water tank/ basin and disable the device. Devices that are damaged through additives are excluded from the guarantee.

The **Clean Air Optima CA-603** is equipped with a **Permanent Reusable White Dust & Anti-Microbial Filter**. It consists of an inner cylinder, an outer cover and a number of small plastic and ceramic balls. The plastic balls are embedded with nano-silver, an anti-microbial agent designed to purify the water and destroy microbes such as bacteria and mould. The ceramic balls function to soften the water by adhering to minerals that cause white dust. They also serve to remove any unpleasant odour from the water. The filter requires cleaning about once a month or 1,000 hours of use. See the **Maintenance section** of more information.



Operating Instructions

Before getting started, please remove the **Clean Air Optima CA-603** from its box and allow it to become accustomed to the room temperature for at least 30 minutes especially if the machine is cold from the outside air. The CA-603 is designed to operate at temperatures between 5 -40 °C and relative humidity of less than 80%.

To get started, first remove the nozzle then grasp the water tank by the handle at the top and lift from the base. Next, flip the tank over and unscrew and remove the water tank lid and filter.

Then place the water tank under the faucet for filling. Fill the tank with tap water (or other clean water source with water temperature under 40°C), re-insert the lid and filter. Flip the water tank once again until it is on the right side up. Ensure that the basin is clean and then carefully place the water tank back on the lower body.

Wait a few seconds until the water tank lid starts to release water into the basin. You will hear a bubbling sound as the air enters the water tank. Plug the power cord into the electrical outlet (NEVER SWITCH ON THE HUMIDIFIER WITHOUT WATER IN THE BASIN). If the humidifier is switched off, the power icon should now be red and the values for temperature and humidity will now be displayed.

Press the **On/Off Button** to activate the humidifier. The machine is now operating in manual mode. It will release cool mist on a constant basis with the mist intensity level automatically set to medium. The nozzle jet at the top of the machine can be rotated to blow mist in 360 degrees directions. You may also lift the nozzle from the water tank, adjust the positions and reinsert back into the top of the water tank. The output nozzle jet should not be set to spray directly onto people, electrical devices or any obstructions. It is best to direct the nozzle jet into the open air.

The **Min/Max Button** changes the mist level (low, medium, high). This change is displayed on the LCD screen by the numbers 1, 2, 3. If the machine is in automatic mode, it will automatically adjust the mist intensity.

Pressing the **Humidity Button** activates automatic mode. You can select the desired humidity level by pressing this button repeatedly until the required humidity level is displayed (from 45% to 75% in increments of 5%). Once you select your desired humidity level, simply stop pressing the button and your humidity level will be set. Wait another 5 seconds and the numeric value on the LCD display will switch to the current humidity level as measured by the built-in Hygrostat. When the humidity level in the room reaches the set humidity level, the machine will go into automatic sleep state and stop producing mist. When the room's actual humidity level drops below your set humidity level then the machine will start producing mist again.

You can deactivate automatic mode very easily by pressing the humidity button until you reach 75% RH. Press the button one more time and you will now be in manual mode.

Pressing the **Ion Button** will activate the negative ion generator and start sending healthy negative ions into the air. It will be represented by the tree icon displayed on the LCD screen.

The **Timer Button** sets the timer. The timer function determines how many hours the humidifier will operate. You can set the timer simply by pressing it once for each two hours that you would like to run the unit. You can set the timer from 1 hour to 12 hours. As time passes, the time value decreases until it goes to 00:00 and the machine shuts off.

If the humidifier should run out of water, you will hear a beeping sound before the machine will automatically shut off. The LCD screen will display the **Empty Water Tank** icon.

Troubleshooting

The following is a troubleshooting guide to help you solve any issues that you may have with the operation of the **Clean Air Optima CA-603**.

Trouble	Possible reasons	Solution
Power icon is off or does not work.	Humidifier not plugged into the power outlet.	Connect power cord to electrical outlet and press power button.
Power light is on but no mist.	No water in water tank.	Fill water tank with water.
The mist has a strange odour.	A new machine.	Remove the water tank, unscrew the lid and let it air out in a cool area for 12 hours.
	It either has dirty water or the water has been stagnant too long.	Clean the water tank and refill with clean water.
Power light is on, but the machine doesn't work.	Too much water in the water basin.	Remove the water tank. Take a small cup and remove some of the water from the machine's water basin. Reinsert the water tank and make sure that it sits properly.
The volume of spray mist is too low.	Too much mineral scale in the water basin.	Clean transducer.
	Water is too dirty or water was kept too long in the tank.	Clean the water tank and refill with clean water.
Abnormal noise	Vibration in the water tank because the water level is too low.	Fill the water tank.
	Machine is on an unstable surface.	Move the unit to a stable flat surface.
Spray mist is coming out of the area around nozzle jet.	There are gaps between the housing around jet nozzle and the top of the water tank.	Remove the jet nozzle from the top of the water tank and clean with a damp cloth. Reattach to the water tank.

The following is not considered faulty operation:

- If your water is very hard (containing abnormally high levels of minerals) the humidifier may produce white dust. This is not a malfunction. The solution would be to clean the filter more often or use softer water.
- If you stand very close to the humidifier, you will hear the gurgling sound of water. This is normal.
- The machine operates very quietly but it is not completely silent. Noise levels less than 25 db is considered normal.

WARNING!

If the above recommended solutions do not work, please contact *Clean Air Optima* technical support at the telephone number for your region. Do not attempt to disassemble, repair and reassemble the machine as it may void the warranty.

Cleaning and Maintenance

You can ensure many years of trouble free operation of your **Clean Air Optima CA-603** humidifier by following a few simple maintenance procedures. If your water is hard, containing high concentrations of calcium and other minerals, then over a period of time white dust will start to deposit on the various surfaces in the room. A white, film-like substance will also start to develop in the water basin, on the transducer and on the inner surface of the water tank. This white film will impede the proper function of the transducer and the operation of the machine.

We recommend the following

1. If your water is very hard, we recommend that you boil it first, allow it to cool completely before use in the humidifier. The boiling will reduce the mineral concentration in the water. The other option is to use distilled water if your mineral level is still too high.
2. If you are using the machine on a daily basis, clean the transducer, water tank and basin once a week.
3. When the water tank needs a refill, empty the remaining water from the tank and fill it with fresh water.
4. Clean the whole machine and make sure to keep all the parts completely dry when the machine is not in use.

How to clean the transducer

1. Place 5-10 drops of vinegar on the surface of the transducer and wait for 2-5 minutes.
2. Using a small brush, cotton swab or tooth brush, gently clean the mineral film from the surface of the transducer.
3. Rinse the transducer with clean water.
4. Never use sharp or solid objects for cleaning the transducer.

How to clean the water basin

1. Clean the water basin with a soft damp cloth. If there is excess film on the surfaces, then soak the cloth with vinegar and repeat the process.
2. If there is a film in any of the depressions along the basin, drop a bit of vinegar into depression and clean it out with a brush.
3. Rinse the basin with clean water.

How to clean the White Dust & Anti-Microbial Filter

1. Remove the filter from the water tank.
2. Put some white vinegar into a glass. Soak the filter in the vinegar for about 10 minutes.
3. Remove the filter from the glass and shake it several times.
4. Clean and rinse the filter once again with fresh water.



If you don't plan to use the humidifier for a long time, remove the filter from the water tank and let it dry thoroughly. Then wrap it in protective packaging and keep it next to the humidifier in a cool, dry and dark storage space.

How to change batteries in the remote control

1. Flip the remote on its side.
2. Press the battery release on the bottom edge of the remote.
3. Grasp the battery socket and pull the battery out.
4. Replace battery with Lithium battery CR2025.



Why humidify the Air?

When the air is dry, especially in the winter months, it can become unpleasant and even unhealthy, leading to increased levels of static electricity, dry skin, cracked lips and even nose bleeds. Optimal humidity is between 45 to 55% relative humidity. During the winter months though, relative humidity in the average home can drop to below 20%. Low humidity can lead to a variety of conditions that cause ill health. Dust particles, bacteria, viruses, dust mite feces that are normally trapped by the moist nasal membrane lining in the nose can more easily get into the lungs when the air is dryer and thus reduce the body's natural defence mechanism. These invaders overload the immune system and irritate the mucous membranes resulting in more coughing and susceptibility to disease. The **Clean Air Optima CA-603** is an ideal ultrasonic humidifier for homes, apartments, offices and anywhere where is low humidity. Ultrasonic water vapour is highly beneficial to individuals. Their biggest advantage is high performance combined with low energy consumption.

The major benefits

- Air humidification, air purification and aromatherapy. Refreshes and improves indoor air quality
- 3-in1: Humidification, air purification and aromatherapy System!
- Permanent ceramic / nano-silver filter: no replacement filters needed!
- Three functions: cold humidification / with or without air purification / aromatherapy
- Built-in digital hygrostat and adjustable output control give controlled humidification
- Minimum humidity setting 45%, Maximum 75%
- Target humidity can be regulated on the appliance
- Built-in Ionizer purifies the air additionally and provides fresh air
- *360° Rotatable nozzles jet for broader spray mist coverage*
- Operable with infrared remote control or touch buttons on the display
- With LCD display and timer control for up to 12 hours of operation
- Virtually silent operation ensures a quiet and restful sleep
- The ultrasonic is hygienically flawless if cleaned regularly and the ceramic/nano-silver cartridge is cleaned as indicated
- Permanent, easy to clean ceramic nano-silver filter for control of white dust, mould and bacteria
- Safely and automatically shuts off when it runs out of water
- Low water indicator notifies when to refill the tank
- Large capacity water tank (5L, 1.32 US gallons) easy refills with normal tap water
- Runs up to 5 nights or 50 hours without refilling (low setting)
- Save money. No wicks or filters to replace!
- Low power consumption

Applicable for small and larger rooms up to 480 ft² / 45m² / 100m³

Benefits of proper humidification

- reduces discomfort, tiredness, sickness
- reduces susceptibility to colds
- reduces chapped lips, dry, red eyes and dry, itchy skin
- helps to feel and sleep better
- can help you recover sooner from a cold
- reduces damage to wooden objects
- reduces the negative effect of dry air on musical instruments
- reduces static electricity charge
- helps to keep your voice tuned

Benefits of ionisation

Ionised air strengthens our defence systems and our vitality and ionisation purifies the air by reducing the particles, micro-organisms, viruses & allergens!

Product specifications

- Type: Clean Air Optima CA-603
- Ultrasonic humidifier for cold mist capacity
- Mist Evaporation Rate: Low 120 ml / hr (3.4 fl oz) High 300 ml / hr (10.1 fl oz)
- Negative Ion Output: 3.000.000/cm³ (49.161.000/inch³)
- Active oxygen <0.05 ppm
- Water tank capacity 5L (1.32 US gallons)
- Very low noise level <25 dB
- Dimensions (LxWxH) 33,5 x 15 x 28,5 cm
- Weight: 2,6kg (7.8lbs) dry
- Color: black
- Energy consumption only 30 watts
- Power supply 220 - 240V, 50/60 Hz

At the end of the product life cycle, you should not throw this machine into the normal household garbage but bring the product to a collection point for the recycling of electrical and electronic equipment.



WARRANTY CERTIFICATE FOR THE **Clean Air Optima CA-603**

Date of purchase:

Customers name:

Address:

Telephone:

Email:

Seller's name:

Address:

1. Please fill in completely this Warranty Certificate. Send it with the invoice and the unit, postage pre-paid and using the original packing box, to your distributor. Make sure to include the appropriate return postage for the package.
2. Please enclose a short description of the damage, fault or malfunction, and the circumstances under which these problems arose.

The **Clean Air Optima CA-603** is subjected to strict testing procedures before leaving the factory. If within two years from the date of purchase the product does not perform according to the specifications, because of factory defects, the purchaser is entitled to free repairs or replacement of parts upon presentation of this warranty (provided that the malfunction or damage to the device and/or parts occurred under normal operating conditions). What is covered: All parts defective in material and workmanship. For how long: Two years from purchase date. What we will do: Repair or replace any defective parts. Exclusions: Regular replacement parts such as filter cartridge

Other Conditions

The provisions of this warranty are in lieu of any other written warranty whether express or implied, written or oral, including any warranty of merchantability or fitness for a particular purpose. The manufacturer's maximum liability shall not exceed the actual purchase price paid by you for the product. In no event shall the manufacturer be liable for special, incidental, consequential, or indirect damages. This warranty does not cover a defect that has resulted from improper or unreasonable use or maintenance, faulty assembly, accident, natural catastrophes, improper packing, or unauthorized tampering, alteration, or modification as determined solely by us. This warranty is void if the label bearing the serial number has been removed or defaced.

Clean Air Service Center

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