

# VIRTU • CLEAN 2.0



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## User Manual



**The manual contains warranty registration information**



**This user manual provides the operation and safety information**

**Read this user manual carefully before you use and save it for future reference**

# Warnings

- Please only use the VirtuCLEAN 2.0 for its intended use.
- Wait a minimum of 45 minutes following a VirtuCLEAN 2.0 cleaning cycle before using your sleep equipment. This will allow the ozone to dissipate.
- Do NOT use VirtuCLEAN 2.0 in a room smaller than 100 square feet.
- Do NOT run VirtuCLEAN 2.0 for more than 1 consecutive cleaning cycle.
- Do NOT inhale the omitted ozone directly from the VirtuCLEAN 2.0 device as this may be harmful to one's health.
- Do NOT attempt to open or repair the device. This will compromise the device's functionality and void the warranty.
- Do NOT leave unattended near children or pets.
- Do NOT block any part of the VirtuCLEAN 2.0 during operation.
- Do NOT use your VirtuCLEAN 2.0 while plugged into an electrical outlet for charging purposes. This may deplete the battery life of the device.
- VirtuCLEAN 2.0, if purchased from an unauthorized dealer, will not be covered by the manufacturer's warranty.

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# VirtuCLEAN 2.0 SAFETY GUIDE

- The VirtuCLEAN 2.0 uses invisible ozone gas ( $O_3$ ), which is the triatomic form of oxygen, also known as activated oxygen, to disinfect.
- When you use the VirtuCLEAN 2.0 to clean your Sleep equipment, the ozone generated only comes in contact with items such as your tubing, mask, and humidifier chamber only, not the user.
- With proper use, the VirtuCLEAN 2.0 creates only the amount of ozone that is necessary to completely disinfect your PAP equipment while controlling any over-exposure.
- Please follow the instructions for the VirtuCLEAN 2.0 and use it for its intended use. It is important for humans and animals to not be exposed to large amounts of ozone. Ozone can irritate the breathing passages of humans and animals.
- Inspect your VirtuCLEAN 2.0 device to be sure there is no visible damage. Cracks, or openings will release ozone into the air. The scent of ozone is chlorine like. If you detect the scent and there is no visible damage, contact VirtuCLEAN support.
- Consult your physician before using the VirtuCLEAN 2.0 if you have chronic or acute respiratory problems such as asthma, bronchitis, colds, flu and/or irritated breathing passages (mouth, nose, throat).
- If you accidentally open the VirtuCLEAN 2.0 bag before the cycle is finished, step away from the device for several minutes while the ozone dissipates.
- Ozone and oxygen are both combustion accelerants, so please keep the VirtuCLEAN 2.0 away from open flame, sparks and heat sources.
- To ensure the safe operation of the VirtuCLEAN 2.0 and have the best possible experience, please read the User Manual before operating.
- Please do not use the VirtuCLEAN 2.0 if you have accidentally damaged the device or your Sleep equipment (CPAP/BiLevel mask, tubing, or humidifier chamber) in any way. Call VirtuCLEAN support as soon as possible.
- If you smell ozone and you think that the VirtuCLEAN 2.0 is not operating correctly, please unplug from the outlet and contact VirtuCLEAN as soon as possible.

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# Thank you!

Thank you for purchasing the VirtuCLEAN 2.0 CPAP sanitizer device.

In this manual you will find how to properly clean your sleep equipment and accessories using the VirtuCLEAN 2.0 device, operating your VirtuCLEAN 2.0 device and frequently asked questions.

To register your device for warranty coverage, accessories for your device, or to find additional information, please go to [www.VirtuClean.com](http://www.VirtuClean.com)

It is important to register your device for warranty coverage. All devices not properly registered will not be eligible to be covered under warranty.



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# What's in the box

Part Number	Name
Part# 2250	VirtuCLEAN 2.0 device
Part# 2251	VirtuCLEAN 2.0 bag
Part# 2252	VirtuCLEAN 2.0 filter
Part# 2253	VirtuCLEAN 2.0 filter box of 10
Part# 2255	VirtuCLEAN 2.0 mini-heated adapter
Part# 2256	VirtuCLEAN 2.0 heated tubing adapter

## VirtuCLEAN 2.0



Sanitizing bag: Use the sanitizing bag to sanitize your CPAP tubing, mask, and humidifier chamber by connecting your CPAP tubing to your VirtuCLEAN 2.0 device.



Travel bag

Important! To ensure the electrical charging specifications are followed please use the approved charger and USB cable.



Charger

# Device Characteristics

Physical:	Dimensions: 4.5 in X 1.7 in Weight: .48lbs
Electrical:	Rechargeable Lithium-ion battery 2000mAh, 4W power
Environmental:	Storage temperature -20°C ~55°C Operating temperature -5°C ~45°C IPX1IP (ingress protection): IPX1

## VirtuCLEAN 2.0 sanitizer connections



The VirtuCLEAN runs its cleaning cycle for 35 minutes, 30 minutes for ozone and 5 minutes with fresh air. Repeating the cycle is not necessary. The manufacturer reserves the right to change the above specifications without notice.

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# VirtuCLEAN 2.0 Instructions

## STANDARD/HEATED TUBING CPAP MACHINES

The VirtuCLEAN 2.0 is a ONE-STEP process

Step 1: Disconnect CPAP tubing from CPAP machine

Step 2: Disconnect and empty water from CPAP humidifier (water chamber)

Step 3: Disconnect CPAP mask from CPAP tubing

Step 4: Place CPAP mask and water chamber inside VirtuClean Bag

Step 5: Attach CPAP tubing to the Virtuclean bag (use the side that was attached to the PAP machine). Attach the opposite end of the tubing to the VirtuClean device.

Step 6: Connect VirtuCLEAN filter to the bag by inserting the long end first into the designated slot on the top of the VirtuCLEAN bag.

Step 7: Zip the VirtuCLEAN bag closed.



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# VirtuCLEAN 2.0 Instructions

Step 8: Press the power button as shown.



Step 9: The device will now display your compliance data and utilization data, and then the cleaning cycle will automatically begin.

Step 10: During the cleaning cycle, the time remaining will display on the screen.

Step 11: Once the cleaning cycle has ended, reattach the CPAP equipment to the mask and machine. Then reconnect the humidifier chamber to the CPAP machine and refill the water in it.

Step 12: Wait a minimum of 35 minutes for the ozone to dissipate, then run the CPAP machine for 5-10 minutes before use to remove any ozone smell.

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# Charging the battery

The VirtuCLEAN 2.0 includes a rechargeable battery that is inside the device. Please do NOT attempt to replace this battery as this will void the warranty.

To charge the battery, connect the USB cable to the VirtuCLEAN 2.0 device. Connect the other end of the USB cable to the power adapter. Insert the power adapter into an electrical outlet. Please make sure to fully charge your battery before use.



Figure 1



Figure 2



Figure 3

For the best lithium battery performance and battery life, set the power off while it is charging. LCD screen will display a battery symbol with a red exclamation mark inside the battery with the word "Recharge" in red under the battery symbol, when the device needs to be recharged (Figure 1). The LCD screen will display a battery symbol with a yellow lightning bolt inside the battery with the word "Charging" in yellow, while plugged in and charging (Figure 2). Once the battery has been completely charged, the LCD screen will display a battery symbol completely full with green lines and the word "Full" in green (Figure 3).

The time required to recharge the battery will vary greatly depending on the ambient temperature and the battery's remaining capacity. If the battery becomes exhausted quickly, even after being fully charged, the battery has reached the end of its life cycle.

**Low Power indication:** When the battery is running low, the battery symbol in the top right hand corner of the device will have 1 slim bar and it will be red. It will also start to blink and be accompanied by a series of beeps from the device. The sanitizer will continue to operate until the battery charge is completely exhausted; however, it does not warrant a complete 35 minute sanitation cycle. Recharge the device once the battery indicator flashes and beeps.



**Warning :** Using the Virtuclean device while the device is charging can result in a depletion in battery life due to overcharging. On a fully charged battery the VirtuClean device will provide 3 to 4 cleaning cycles.

# Important Notes and Precautions

- For the CPAP machine configured with a humidifier, drain water in reservoir before starting the cleaning process.
- After the cleaning process is complete, wait 45 minutes before using your CPAP machine to ensure no residual ozone odor.
- Ozone concentration is designed by the disinfectant design, enclosing container and sanitization time. The machine design is based on the best sanitization performance. User is not recommended to change any settings.
- The 2000 mAh rechargeable batteries meet most of the airlines restrictions.
- The warranty becomes VOID if repairs are undertaken by unauthorized persons and if original parts are not used. To obtain service within the warranty period, please contact your distributor.
- It is recommended to sanitize your CPAP mask and tubing every day and your CPAP humidifier weekly.
- VirtuCLEAN 2.0, if purchased from an unauthorized dealer, the 24-month warranty will be VOIDED.
- The VirtuCLEAN bag has a connection for standard and heating tubing. Consumers with an air mini device and tubing will need to visit the website below to purchase an adapter.

## Limited Warranty

HLS offers a 24-month warranty on the product commencing on the date of purchase (only when purchased from an authorized retailer). The warranty does not cover damage due to improper use and normal wear. The warranty only covers defects in the product resulting from faults in materials or workmanship, free of charge by repairing or replacement in the complete product at the HLS location and the HLS discretion.



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# Troubleshooting Guide

Problem	Possible solution(s)
If VirtuCLEAN 2.0 does not turn on	Connect VirtuCLEAN to charger. Plug the charger into power outlet. Turn on the VirtuCLEAN 2.0
VirtuCLEAN 2.0 will not charge	Make sure you check the charging connection.
VirtuCLEAN 2.0 will not charge	If after you press the On/Off button, the screen turns on, but the fan in the device does not appear to be functioning. Please send your VirtuCLEAN 2.0 in for repair.
Your CPAP tubing does not fit on the top of the VirtuCLEAN bag	Please visit <a href="http://WWW.VirtuCLEAN.com">WWW.VirtuCLEAN.com</a> to purchase an air mini adapter- part # 2253

For repair or additional information, please visit  
[WWW.VIRTUCLEAN.COM](http://WWW.VIRTUCLEAN.COM)

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# Helpful Hints

- When you turn on your VirtuCLEAN 2.0 device for the first 10 times you will have a QR scannable code. This code will allow you to scan using your smart phone device to register your device for warranty coverage.
- Each time the device is turned on, your device will tell you
  - total times cleaned
  - total hours used and number of times in the last 7 days.This information is for users to ensure they are cleaning their equipment the recommended amount of time(s) each week.
- We recommend users to clean their mask and tubing every day, one time per day. We also recommend to clean your humidifier chamber one time per week.
- Run your sleep equipment for 5-10 minutes to help dissipate the smell of Ozone
- If you do not use your VirtuCLEAN 2.0 device for 7 consecutive days, an audible alarm will sound to remind you to use. If you do not wish to have this alarm on please follow the following instructions:
  - 1-Turn on your VirtuCLEAN 2.0 device.
  - 2-Once the VirtuCLEAN logo appears, double press the power button to open the screen
  - 3-Push the button until the alarm area is highlighted and press the button again to change it to your desired setting
- Maintenance schedule: replace filters every 6 months and replace the bag every 12 months.



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