



# Operation and Maintenance Manual

OCA 500/1200  
Professional Series

Air Purification  
Machine





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## **Safety Warning Instructions**

READ AND SAVE THESE INSTRUCTIONS

- This equipment to be operated only after reading the instructions.
- Do not use near combustible or explosive material. Fire may occur.
- Do not expose to water or rain. Electrical shock may occur.
- Connect only to grounded outlet.
- Disconnect power for cleaning and servicing.
- Disconnect power cord before moving.
- Be careful not to tip the unit when moving, as this may cause injury.
- Do not operate if cord or plug is damaged. Contact an authorized service facility for examination and/or repair.
- Arrange cord away from traffic areas and where it is not a tripping hazard. Do not cover with rug or carpet.
- High-intensity Ultraviolet light inside. Avoid eye and skin exposure.

## **Product Description**

The Omni CleanAir OCA500 and OCA1200 Professional Series air sanitizing machines are equipped with medical grade 99.99% HEPA filters and optional UV-C germicidal lights, which work together to eliminate sub-micron particulates and microbial contamination for healthcare services, dentist offices, personal care facilities, and other work environments.

The OCA500 and OCA1200 are designed to purify air in public and professional environments and are not suitable for abatement or restoration projects. They all feature variable air flow, quiet operation, upright housings for a small footprint, and locking medical grade casters for easy mobility.



## Receiving & Unpacking Instructions

Carefully remove unit from packaging. Remove Quick-Start Guide for assistance in setting up the machine for operations. Visually inspect the unit for damage.

If there is any visible damage or missing parts, please contact Omni CleanAir immediately.

## OCA 500/1200 Specifications

Machine	OCA500/OCA510	OCA1200/OCA1210
<b>Dimension</b>	14x14.5x36 in.	16.25x20.5x50 in.
<b>MIN CFM</b>	250	900
<b>MAX CFM</b>	500	1200
<b>Sound Level</b>	50-65dB	50-65dB
<b>UVC Bulb Spec</b>	2x16W (OCA510 Only)	4x16W* (OCA1210 Only)
<b>Electrical Input</b>	120V / 2220V	120V / 220V
<b>Power Requirement</b>	5A / 2.5A	15A / 8A
<b>Weight</b>	80lbs. (37kg)	100lbs. (46kg)
<b>HEPA Dimension</b>	12x12x12 in.	16x16x12 in.
<b>PreFilter Dimension</b>	12x12x12 in.	16x16x12 in.
<b>Warranty</b>	2 years	2 years
<b>Accessories &amp; Filters</b>		
<b>Gold Care Membership*</b>	GCM-1	GCM-1
<b>UVC Bulbs, Pack of 2 or 4</b>	SureUVC-2pk (OCA510)	SureUVC-4pk (OCA1210)
<b>HEPA Filter</b>	HEPA-500H	HEPA-1200H
<b>PreFilter, Pack of 4</b>	M11PF-500-4pk	M11PF-1200-4pk
<b>Hydro-Perox</b>	Optional	Optional

\* Gold Care Membership renewed annually; per machine, delivering over \$1000 in value each year. Benefits include once per year FREE shipment of replacement filters and UV-C light bulbs for that machine, extended warranty for as long as Gold Care Membership is maintained, free loaner units whenever a machine needs to be returned to us for in-warranty repair, discounts on future product purchases and more. For more information, see [www.omnicleanair.com/Gold-Care-Membership](http://www.omnicleanair.com/Gold-Care-Membership).

## Display & Monitoring Panel

**User Interface with UVGI**  
(OCA510 & OCA1210)



**User Interface without UVGI**  
(OCA500 and OCA1200)



## First Time Setup

Turn Plug OCA unit into appropriate power source. The power button will flash white. Press power button. The unit will perform an internal safety/maintenance check. If there are any safety or maintenance issues, one or more of the HEPA, UVGI or PREFILTER indicators will turn red and the housing light for that area will flash blue. If this occurs, consult the Troubleshooting section of this manual.

You will then access the **Enter Guided Setup** screen. Press OK to enter room size and room ID information, or select **Do this later** to bypass setup. (**Note:** if the Guided Setup is not completed, machine cannot display Air Changes per Hour).



**Enter Units** prompts to select either US Standard (ft., in.) or Metric (M,cm ). You can also enter “Go Back” to return to the previous menu.



**Enter Room Size** lets you either enter the dimensions of the room the unit will be in, the volume of the room (if known), or select **I Don't Know**. I Don't Know sets the unit at its highest output.



If DIMENSIONS or VOLUME is chosen, use the UP/DOWN arrows to increase or decrease the highlighted dimension or room size. Press OK to enter and when complete.





**Enter Room ID** allows you to assign a 3 digit alpha-numeric code to the space the unit is located in. This is helpful if you plan to move it frequently. Use the UP/DOWN arrows to change; OK to select.



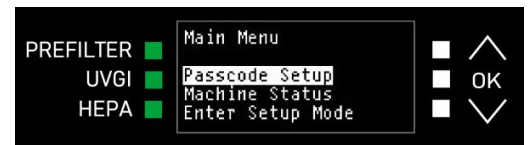
The unit will then go into operational mode. The display will show Cubic Feet per Minute (CFM) or Cubic Meters per Minute (CMM). This can be adjusted using the UP/DOWN arrows.



Press OK to return to the Main Menu. Select **Activate Safety Lock**, then press OK again to lock the current settings. This will prevent tampering. Press OK twice again to unlock and adjust settings.



In addition to the above, from the **Main Menu** there is also an option for **Passcode Setup**. This feature is reserved for administrators or authorized users to provide additional security. Contact your administrator for more information.



In addition to the CFM/CMM reading, this menu also shows you the current number of Air Changes per Hour (ACH), based on your fan settings and the room size you have entered. For instance, if you had a 2500 cubic foot room and your fan was set at 500cfm, your ACH would be 12 (60 minutes divided by 2500/500). The example above shows an ACH of ???; this would be the reading if you skipped the Guided Setup or entered "I Don't Know" in the Enter Room Size menu.

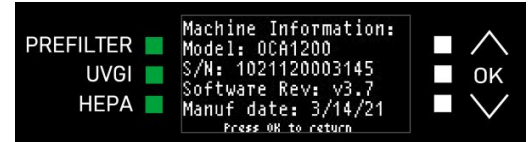
## Normal Operations

Now that Guided Setup has been completed, your unit will return to those settings each time it is turned on. To change these settings, press OK and toggle to Enter Setup Mode. Make desired changes and select Go Back to return to normal operating status. The machine must be operated with a HEPA and pleated PreFilter in place.



### Machine Information Check

Information about your OCA machine can be reached from the Main Menu by pressing OK; then using the UP/DOWN arrows and selecting Show Machine Info. The display will show Model Number, Serial Number, Software Revision and Date of Manufacture. Press OK to return, then UP/DOWN to Go Back to Main Menu.



### HEPA Filtration

The HEPA filter purifies the air and will gradually become loaded with sub-micron particulates. Even when the HEPA filter is fully loaded, the filter is still removing particulates from the air at the rated efficiency, yet at a reduced airflow. This will affect the ability of the machine to provide positive or negative pressure within the containment. We recommend changing the HEPA filter after no more than 365 days of operation.

### UV Germicidal Lights

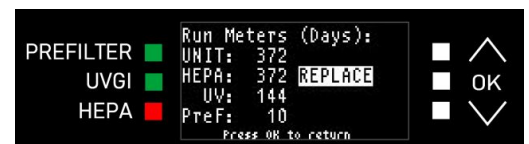
UVGI lights are installed in the compartment below the HEPA filter. The air passing by the UVGI lights is sterilized and the bio-contaminants captured on the HEPA are killed or deactivated. To maintain the full effectiveness of the UV Germicidal we recommend replacing the lights after 365 days of operation.

### PreFilter

Near the bottom of the machine and right above the air intake grate is an access door for the pleated PreFilter. The PreFilter is rated Minimum Efficiency Reporting Value (MERV) 11, and is designed to remove dust, pollen, mold spores and other small particles from the air before it passes through the HEPA filter. This will significantly extend the usable lifetime of the HEPA filter, which is much more costly to replace. We recommend changing the PreFilter after no more than 90 days of operation.

### Machine Status

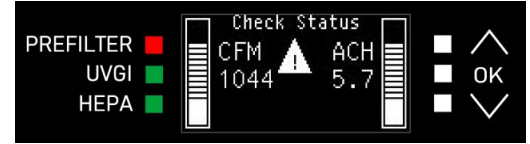
You can check the status of the unit at any time from the Main Menu by pressing OK; then using the UP/DOWN arrows and selecting Machine Status. This will show the number of days the unit has been in operation, as well as the number of days of use for the HEPA filter, UV lamps and PreFilter. The HEPA filter and UV bulbs each have a usage life span of 365 days before replacement is required; the PreFilter has a 90 day life span. The example shows that the HEPA filter has been in use for 372 days, and therefore should be replaced.



## Maintenance & Troubleshooting

### Status Monitoring

The OCA Series machines continuously monitor the UVGI, HEPA and PreFilter systems for failures, errors and scheduled replacement times. If any of these systems require attention, the Display screen will show a “Check Status” advisory and “Warning” triangle symbol. At the same time, the panel status indicator LEDs and the lights in the corresponding areas on the front casing will alert the user and describe the issue. The table below lists the errors in order of their priority. If more than one error occurs simultaneously, the display will show the higher priority error first; then move on to the next when the first one is resolved.



### Troubleshooting Error & Status Table

Display Priority	Panel Status Indicator LEDs			Front Casing Lights		
	HEPA	UV	PreFilter	HEPA	UV	PreFilter
1. Error: HEPA Install Error	Red	On	On	Flash	Off	Off
2. Error: HEPA Filter Change	Red	On	On	Flash	On	On
3. Error: UV Door Open	On	Red	On	Off	Flash	Off
4. Error: UV Bulb Burned Out	On	Red	On	On	Flash	On
5. Error: UV Bulb Change	On	Red	On	On	Flash	On
6. Error: PreFilter Install Error	On	On	Red	On	On	Flash
7. Error: PreFilter Change	On	On	Red	On	On	Flash





### HEPA Filter Installation/Replacement

To replace the HEPA filter, unplug the machine and remove the top grill. You will see 4 filter tabs holding the HEPA filter in place. These tabs are secured with 1/4-20 Nylock nuts, which require a 7/16" wrench or socket. Remove all 4 filter tab retaining nuts and remove the filter tabs and set aside. Lift HEPA filter out. Replace with new HEPA filter and replace the filter tabs. Be sure to tighten the locknuts securely to ensure a tight seal with the filter gasket. ALWAYS TREAT THE USED HEPA FILTER AS HAZMAT AND PROCESS IT ACCORDING TO YOUR ESTABLISHED HAZMAT PROCEDURES.

### Replacing UV Germicidal lights

If the UVGI indicator light turns red, you will need to access the lights to replace the bulbs. We recommend changing all bulbs simultaneously. **WARNING:** Unplug the unit before opening UVGI light compartment. Remove the 2 screws on each side of the UVGI compartment and gently slide the drawer forward to access the bulbs. The lights are each held in with (2) clips; gently pull the light out of the two U-clips, then disconnect the 4-pin connector. Replace the 4 bulbs and return the drawer to its original position. Reinstall the light compartment door. Plug in and turn the unit back on; if the UVGI indicator is still red, the problem could be one or more of the ballasts. Call Omni CleanAir Technical Support for additional assistance

### PreFilter Replacement

The pleated filter should be changed when it becomes loaded with dust. To change the filter, turn off the machine, remove the 2 screws on each side of the PreFilter compartment and remove the compartment cover. Remove the dirty filter and replace; then reinstall the cover.

### Resetting the Machine Status

After completing the above required maintenance, you will need to reset the Machine Status for the affected item. From the Main Menu press OK; then use the UP/DOWN arrows to select the Maintenance Menu. Scroll to the desired reset and press OK. This will turn the status back to day 0 for that item. The sample screen shows resetting the UV Bulb age. DO NOT reset other fields; only the one you have performed maintenance/replacement on.

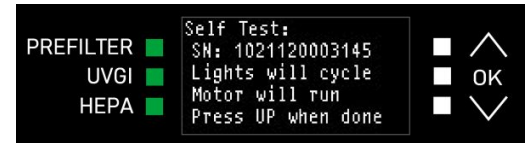




## System Self-Test

You can confirm that all of your indicator lights are performing correctly by performing a system self-test. To access the self-test, press OK to enter the main menu.

The self-test alternates illuminating the Status Indicator LEDs in green and red, while simultaneously flashing the Front Casing Lights.



## Additional Troubleshooting

### 1. The machine does not start

- Check that the unit is plugged in and there is sufficient power available.
- Check the power button, which should glow white.
- Check all error indicators and confirm that all functions are operating correctly.
- Contact Omni CleanAir Technical Support to troubleshoot further.

### 2. The machine just hums when turned on

- Unplug the unit.
- Contact Omni CleanAir Technical Support for further information.

### 3. The machine vibrates excessively when running

- Unplug the unit
- Contact Omni CleanAir Technical Support for further information.



## Omni CleanAir Limited Warranty Policy

This warranty policy covers Air Purification Systems sold by Omni CleanAir.

Omni CleanAir warrants that our products are free from defects in workmanship and materials under normal use during the warranty period.

All Omni CleanAir Air Sanitizing machines, excluding the consumables including the MERV prefilter, HEPA filter and UV light bulbs, come with a standard two (2) year warranty.

The warranty extends to the following parties:

- Customers (individuals or companies) to whom Omni CleanAir directly sells covered products.
- Customers (both individuals and companies) who purchase Omni CleanAir products from an authorized distributor or reseller.

This limited warranty is not transferrable or assignable to any subsequent purchaser, and only applicable in the country where the product was originally purchased.

The following circumstances are not covered by this warranty policy:

- Damage caused by an act of nature such as flood, fire, wind, earthquake or lightning.
- Damage caused during shipping or an impact event with other objects.
- Damage caused by improper care or negligence.
- Damage caused by misuse, abuse, mishandling or misapplication.
- Damage caused by alteration or adjustments by unauthorized personnel.

Under no circumstances shall Omni CleanAir or any supplier of Omni CleanAir be liable for any loss, damage or expense, including, but not limited to, loss or damage arising out of the failure of the products to operate for any period of time, inconvenience, the use of rental or replacement equipment, loss of profits or other economic loss, or general, direct, special, indirect, incidental or consequential damages or property damages.

Omni CleanAir offers extended warranty through the Gold Care Membership Program, for as long as membership status is maintained. For more information, please visit [www.omnicleanair.com/Gold-Care-Membership](http://www.omnicleanair.com/Gold-Care-Membership)



## To Submit a Warranty Claim

Contact our Technical Support department by telephone at 425-512-0379 or email [support@omnicleanair.com](mailto:support@omnicleanair.com). Hours are Monday through Friday 7:30 am to 4:00 pm, Pacific Time.

For ease of service, please have the product model name and serial number available, along with the purchase date and invoice number, if applicable.

Our service technicians will work with you to diagnose your technical issue and recommend a suitable course of action to solve your problems swiftly and to your satisfaction.

If it is determined that your product is defective and under warranty, Omni CleanAir will repair or replace, at our discretion, any faulty parts or equipment.

A Return Merchandise Authorization (RMA) will be issued for the defective product.

Upon receipt of the RMA, securely package the item being returned, in its original packing material if possible, and write the RMA number on the outside of the box. Include a copy of the RMA with the return.

Contact Omni CleanAir for pickup of the defective product. Failure to return defective products in a timely manner may result in additional shipping charges.

## Technical Support Contact Information

### Telephone

(425) 512-0379

### Email

[support@omnicleanair.com](mailto:support@omnicleanair.com)



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