

ReplaceAIR UV-C HE Air-Cleaners

ReplaceAIR UV-C HE Model 500 – High Efficiency - Owner’s Manual

- 1) General description and operation of the unit
- 2) Access to the inside of the unit, and regular service
- 3) Service, replacement parts and contact information

GENERAL DESCRIPTION: The ReplaceAIR UV-C HE High Efficiency air-cleaner is a stand-alone portable air cleaner. It has been designed for use in classrooms and meeting rooms. Also, it is used anywhere it is desired to minimize airborne pathogens from the ambient air. The air cleaner draws dirty air from underneath the top cover, then the air travels down inside the unit, cleaned with a two-stage process. First, a disposable filters and then a primary UV-C emitter bulb. Cleaned air exhausts from the bottom.

FIRST STAGE: The first cleaning stage consists of High Efficiency disposable filters that are installed directly underneath the top cover. First, a MERV 5 pre-filter, then two MERV 13 main filters. These remove a higher range of particulates, including larger amounts of bacteria and even some viruses, and they are best for people suffering from breathing problems. Designed for their high capturing capacity, they still maintain a low resistance to airflow. A carbon pre-filter is optional.

PRIMARY STAGE: The primary cleaning stage uses UV-C light energy. Ultraviolet C is a form of UV electromagnetic radiation with a wavelength of 253.7 nm, shorter than that of visible light but longer than X-rays. A high percentage of the airstream pathogens are killed from proximity to the emitter bulb.

CONSTRUCTION: The cabinet is built primarily from Type 304 stainless steel. Unit ships completely assembled, is easy to operate, and is simple to maintain. The base unit has approximate dimensions of 15" x 14" x 21" high, which includes four swivel casters. The unit has a lighted power switch and 110V grounded power cord.

OPERATION: Lift the unit straight up out of the box, and place on the floor. Locate the unit in place, plugging cord directly into a grounded wall outlet if possible. The power requirement is 110V @ 2.5A . Use only extension cords that are 12-14 ga. and grounded. Use the green main rocker switch to power the unit on. Turn the main power switch off when not using unit. The UV-C emitter bulb has a degrading service life, and the unit should be turned off when not needed to clean the air.



ReplaceAIR UV-C HE High Efficiency
Two-Stage Air Cleaner

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Ph: 630-307-9400
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ACCESS TO INSIDE: From the top, you can access the filter and the UV-C emitter bulb. **UNPLUG UNIT FIRST, YOU MUST NOT LOOK AT LIGHTED BULB DIRECTLY.** Wear appropriate gloves and mask to protect you from any possible pathogens. Remove the four Phillips head screws and lift the top cover off.

CHANGING THE FILTER: The filters will last for differing amounts of time, depending on air quality and duration of use. You will notice diminished airflow when the filter needs to be changed. It is easiest to feel airflow down at the floor, where the air is exhausted. When you open the top cover, you will see the dirty side of the filters pointing up. Pull the dirty filters up and straight out the front. Install new filters making sure the airflow arrows on the filters are all pointing down. Place top cover on, and screw the four screws back in.

INSPECTING THE EMITTER BULB: All UV-C bulbs degrade over time during use. Our UV-C emitter bulb has a service life of 7,000-9,000 hours. If the unit is operated regularly for 10 hour days, it is conceivable the bulb will last about 2-3 years. Even if the bulb still gives light, the UV-C released may be degraded, and you must replace it for best efficiency.

CHANGING THE EMITTER BULB: The emitter bulb is located underneath the filters. Please handle with care, it is very fragile. Wearing clean cotton gloves, or with a clean tissue, keep the bulb glass as clean as possible. Remove the old one, and carefully replace with a new bulb. Reinsert the filters (airflow is downwards) and replace cover and screw the four screws back in.



Front of Unit and Air Inlet



Cover Removed to Change Filters and Bulb



Back with Power Switch and Cord

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DANGER! DO NOT LOOK DIRECTLY AT THE UV-C EMITTER BULB
FOR LONGEST BULB LIFE, USE CLEAN GLOVES TO HANDLE THE NEW BULB

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TECHNICAL HELP: Please call our office if you have any questions about operation or service of your unit.

TECHNICAL HELP:
630-307-9400 ext 3 jonj@replaceair.com

SERVICE: You may send the unit to our facility for inspection, parts and service. You must call us first to receive return authorization. Your contact information and RTA number must be written on every package. Sender is responsible for any shipping damage. Package it carefully and send unit prepaid to this address:

SERVICE:
ReplaceAIR, Schubert Environmental Equipment
Attn: Service Dept
2000 Bloomingdale Road Unit 120
Glendale Heights, IL 60139

The costs of service will depend on work performed, and parts needed. The return freight will be added to the invoice.

PARTS: On the right is a list of possible replacement parts. These are typically in stock. You may order these directly from our facility. The invoice will include tax and shipping costs. A skilled person will not have trouble installing these replacement parts.

PARTS:
630-307-9400 ext 3 jonj@replaceair.com

ReplaceAIR UV-C UHO Replacement Parts	
Description	ReplaceAIR P/N
Cover Screws (pkg of 4)	HE-CK-4
1" High MERV 5 Pre-filter ea.	HE-F 5-1-1212
1" High Carbon Pre-filter ea.	HE-F C-1-1212
2" High MERV 13 Filter ea.	HE-F 13-2-1212
ON/OFF Switch ea.	HE-SW-1
UV-C Emitter Bulb ea.	HE-EB-110V
Caster Wheels (pkg of 4)	HE-CW-4
Optional 16" High Stand ea.	HE-HS-16
Optional 24" High Stand ea.	HE-HS-24



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