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Installation & Maintenance Instructions



CX1000 Portable Air Purifier

TABLE OF CONTENTS

PAGE

INSTALLATION INSTRUCTIONS
- FEATURES 2
- UNPACKING 2
- INSTALLATION 2

OPERATION
- SAFETY INSTRUCTIONS 3
- USING THE CX1000 3
- SELECT ROOM SIZE 4
- SELECT OPERATING MODE 5
- MONITORING OPERATION 5

MAINTENANCE
- SERVICE PANEL INDICATOR LIGHTS 6
- UVC LAMP INDICATOR LIGHTS 6
- FILTER INDICATOR LIGHTS 6
- PERFORMING MAINTENANCE 7
- REPLACING UVC LAMP 7
- REPLACING FILTERS 8

PRODUCT SPECIFICATIONS
- SPECIFICATIONS 9
- REPLACEMENT PARTS 9

LIMITED WARRANTY

READ AND SAVE THESE INSTRUCTIONS

INSTALLATION INSTRUCTIONS

FEATURES

Thank you for purchasing the **CX1000 Portable Air Purifier**. This unit features unique air purification technologies not found in any other air purifier.

Only **CX1000** combines these features:

- A quiet, energy efficient, backward-curved motorized impeller that moves 265 cfm of air.
- An advanced electronic control system that monitors air quality, room occupancy, airflow, and filter and UVC lamp replacement time.
- A six-stage filtration system with gas adsorption media that removes toxic gas, organic hydrocarbons, exhaust fumes, formaldehyde, cleaning chemicals, low-level ozone, unpleasant odors, and paint solvents.
- A hospital-grade, three-stage HEPA filter that removes allergens such as pollen, mold fugal spores, tobacco smoke, insecticide dust, dust mites, and particles as small as 0.3 microns.
- A photo-catalytic oxidation chamber that controls the spread of airborne disease in the home environment. UVC light kills viruses and bacteria on contact.
- **Photo-Catalytic Oxidation,** activated by the UVC light, destroys airborne impurities too small to be filtered out. Small amounts of residual activated oxygen and negative ions keep the air clean and fresh, in exactly the same way sunlight and oxygen clean the air we breathe in an outdoor environment.

UNPACKING

Before unpacking the unit, inspect the shipping container for visible damage. If you feel that you may have received the unit in a damaged condition, notify the shipper or supplier before opening the container. Remove the unit from the box and inspect it for damage. Handle it carefully. Do not drop it!

INSTALLATION

CAUTION: THIS PRODUCT IS DESIGNED FOR INDOOR USE ONLY!

Place the **CX1000** in a location that will not restrict airflow through either the air inlet or the air outlet. Plug in the electric cord at the nearest electrical wall outlet.

OPERATION

SAFETY INSTRUCTIONS

Warning

1. **CX1000 Portable Air Purifier** is designed to be used on a flat and level surface, and may not work properly on an uneven surface.
2. To reduce the risk of electric shock and injury, do not place in a window.
3. Always place the **CX1000** at least 12 inches (30 centimeters) away from heat sources such as stoves, radiators, or heaters.
4. Do not immerse the **CX1000** in water, as permanent damage may occur.

Before using the **CX1000**, extend the power cord and inspect for any signs of damage. Do not use the unit if the power cord has been damaged.

Do not move the **CX1000** while it is in operation.

Always unplug the **CX1000:**

- When it is not in operation
- When cleaning the unit
- Prior to moving it
- When changing the filters or UVC light

After servicing the unit, both the front and top grille assemblies must be reinstalled in exactly the same manner as prior to removal. If either grille is not reinstalled properly, the **CX1000** will not function. This is a built-in safety feature.

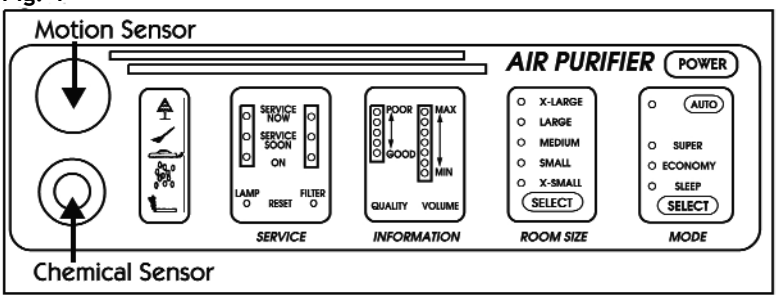
USING THE CX1000

1. Press **POWER** button to turn on the **CX1000**. Lights on the control panel will light and the UVC lamp will be on (Fig. 1).

2. Look into the air outlet at the top of the **CX1000** to confirm that the UVC lamp is operating. There is a faint blue glow when the lamp is on. If the lamp appears to be off, refer to **UVC LAMP INDICATOR LIGHTS** (page 8).

   When the lamp is on, the product is ready for operation.

Fig. 1



OPERATION

SELECT ROOM SIZE

1. Determine the area of the room in which the **CX1000 Portable Air Purifier** is to operate.

2. From the charts below, identify the respiratory condition the unit is to serve.

HEAVY DUTY		
AUTO MODE	SQ. FT	SQ. METERS
O X-LARGE	550	55
O LARGE	450	45
O MEDIUM	400	40
O SMALL	350	35
O X-SMALL	300	30

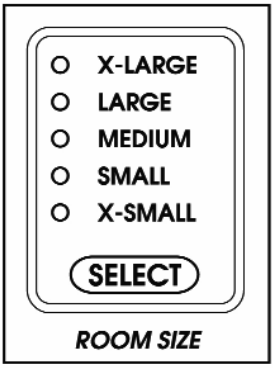
LIGHT DUTY		
AUTO MODE	SQ. FT	SQ. METERS
O X-LARGE	1700	170
O LARGE	1450	145
O MEDIUM	1200	120
O SMALL	1050	100
O X-SMALL	900	90

3. The **HEAVY DUTY** chart is used for people that have severe respiratory problems, or suffer allergic reactions when exposed to particulate matter (pollen, dust, dust mites, animal dander, etc.) or airborne chemicals (pesticides, herbicides, cleaning solutions, etc.).

4. The **LIGHT DUTY** chart is used for people that occasionally suffer from mild allergies, or to help purify the air in an average home.

5. Select the appropriate **ROOM SIZE** by repeatedly pressing the **SELECT** button (Fig. 2).

Fig. 2

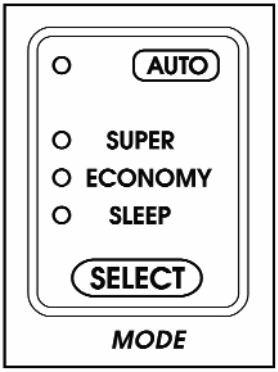


OPERATION

SELECT OPERATING MODE

Select the desired operating mode by pressing the **SELECT** button on the **MODE** panel (Fig. 3).

Fig. 3



AUTO -- In **AUTO** mode, the Chemical Sensor controls the blower speed (see Fig. 1). If the sensor detects an unhealthful amount of chemicals present in the air (indicated by the red light on the **QUALITY** scale), the blower speed will automatically increase.

SUPER -- **SUPER** mode may be selected during periods of high air pollution, such as when winds increase airborne dust and pollen, or during heavy room loading (parties or smoking). Blower speed will increase 25 percent above **AUTO** mode.

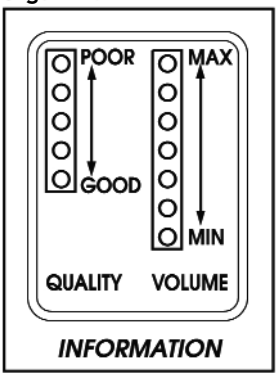
ECONOMY -- **ECONOMY** mode saves energy when the room is unoccupied. When the **Motion Sensor** (see Fig. 1) detects no motion for 30 seconds, blower speed is reduced to save electricity costs. The blower returns to normal speed when motion is again detected.

SLEEP -- **SLEEP** mode reduces the sound level by slowing blower speed by 30 percent, while still purifying room air at 70 percent of normal operation.

MONITORING OPERATION

The Chemical Sensor continually monitors air **QUALITY**, and in **AUTO** mode, controls blower speed and air volume.

Fig. 4



Both air **QUALITY** and air **VOLUME** are displayed on the **INFORMATION** panel (Fig. 4).

Air **QUALITY** is indicated by one of five lights, indicating a range from **GOOD** to **POOR**.

Air **VOLUME** is indicated by one of seven lights, representing a range from **MAX** to **MIN**.

Set the **CX1000** to move a volume of air appropriate for room conditions. Note that measurements are relative to the selected room size. Make sure that the **ROOM SIZE** setting (see Fig. 2) is always set for the room in which the unit is to operate.

MAINTENANCE

SERVICE PANEL INDICATOR LIGHTS

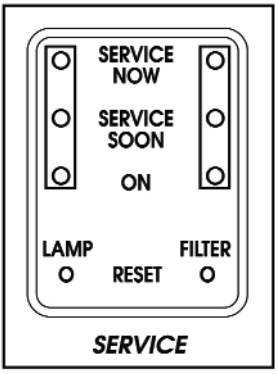
The **SERVICE** panel indicates when maintenance is required (Fig. 5). Lights on the **SERVICE** panel indicate if either the UVC lamp or the air filters will need to be replaced soon, or whether they should be replaced immediately.

LAMP

The UVC lamp has a useful life of one year (9,000) hours, with a one month grace period.

- Green light **ON** - The UVC lamp has been in service for less than 12 months.
- Yellow light **SERVICE SOON** - The UVC lamp has been in service for more than 12 months. The lamp should be replaced.
- Red light **SERVICE NOW** - The UVC lamp has been in service for more than 13 months. The lamp may not be effective and must be replaced.

Fig. 5



FILTER

The filters have a useful life of two years in a typical residential environment.

- Green light **ON** - The filters have been in service for less than 24 months.
- Yellow light **SERVICE SOON** - The filters have been in service for more than 24 months. The filters should be replaced.
- Red light **SERVICE NOW** - The filters have been in service for more than 25 months. The filters may not be effective and must be replaced.

MAINTENANCE

PERFORMING MAINTENANCE

Required maintenance is:

- Replace the UVC lamp (1 year)
- Replace the filters (2 years)

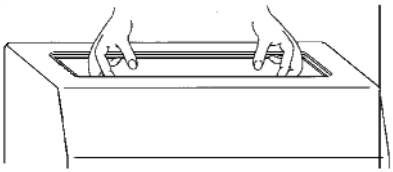
REPLACING UVC LAMP

When the **LAMP** light on the **SERVICE** panel (see Fig. 5) turns yellow, indicating **SERVICE SOON,** the UVC lamp should be replaced within 30 days.

1. Unplug the power cord from the electrical outlet.

2. Using index fingers, squeeze the locking tabs inward towards the center of the grille. Lift the grille and remove (Fig. 6).

Fig. 6



3. Rotate UVC lamp one-quarter turn, top-to-rear, and remove lamp (Fig. 7).

4. Insert new UVC lamp by rotating one-quarter turn (top-to-front).

5. Replace grille by pressing it into position until it locks. The aluminum reflector must be positioned over the lamp nearest the front of the unit (Fig. 7a).

6. Reset UVC lamp timer by lightly pressing the **LAMP RESET** button on the **SERVICE** panel with a pin or similar object. The **LAMP** light will turn green, and the timer will be reset to zero.

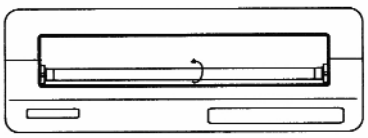


Fig. 7

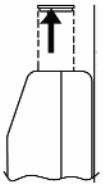


Fig. 7a

MAINTENANCE

REPLACING FILTERS

When the **FILTER** light on the **SERVICE** panel (see Fig.5) turns yellow, indicating **SERVICE SOON,** the filters should be replaced within 30 days.

1. Unplug the power cord from the electrical outlet.

2. Rest the air purifier on its back to access the bottom of the unit (Fig. 8).

3. Press in the locking clips at each end of the front grille.

4. Lift the bottom of grille and slide it out from the top of the unit (Fig. 9).

5. Pull out the two filters individually and discard them.

6. Install the new HEPA filter in lower slot, with its white layer facing upwards.

7. Install the new pre-filter in the remaining slot, with its green side facing upwards.

8. Replace grille by sliding upper end into grille slot, and snap the bottom into place so that it locks.

9. Reset the filter replacement timer by lightly pressing the **FILTER RESET** button on the **SERVICE** panel with a pin or similar object. The **FILTER** light will turn green, and the timer will be reset to zero.

Restore the **CX1000** to normal operation as follows:

1. Set the unit in its normal operating position.

2. Plug the power cord into the wall outlet.

Fig. 8

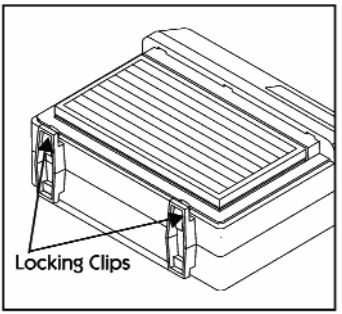


Fig. 9

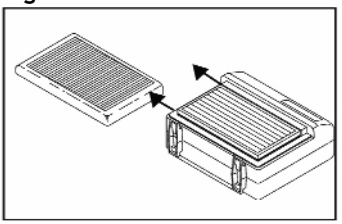
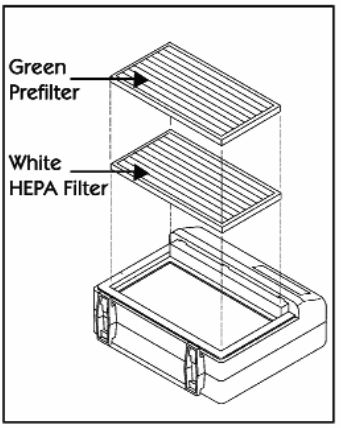


Fig. 10



PRODUCT SPECIFICATIONS

SPECIFICATIONS

Manufacturer:	Continental Fan Manufacturing Inc.
Model:	CX1000 Portable Air Purifier
Dimensions:	21.5" W x 18.0" H x 8.0" D
Weight:	23 lbs
Max Airflow:	265 cfm
Power Consumption:	110 watts
Voltage:	1/120V/60
Maximum Amps:	0.95
UV Range:	254 NM (germicidal)
Filters:	5 micron pre-filter
	0.3 micron hospital grade HEPA filter
Application:	1000 sq. ft. (auto mode)
	2000 sq. ft. (super mode)
Service Interval:	UVC lamp - 1 year
	Filters - 2 years
Catalyst:	Metal oxides

REPLACEMENT PARTS

Replacement parts are available from the following sources:

- Your local HVAC wholesaler or contractor
- Continental Fan Manufacturing Inc., Buffalo, NY (1-800-779-4021)
- www.continentalfan.com

LIMITED WARRANTY

Subject to the provisions of the clauses herein, Vendor agrees to correct any defect or defects in workmanship or materials which may develop under proper and normal use, by repair or by replacement of the defective part or equipment, at Vendor's option, FOB factory. Unless otherwise stated, the warranty period shall be one (1) year from date of shipment. The exceptions to this warranty period are:

CX Complete Air Purification Systems - Two (2) years

This warranty is provided to the original Buyer, and may not be transferred, sold or bartered. Motors, drives, electrical controls and other components manufactured for Vendor by others are not covered by these warranty provisions. All warranty claims must be processed through point of purchase. All warranty repair work must be performed either at the factory or by a factory certified service center. For additional information regarding warranties, see Vendor document: Limited Warranty-1103.

USA - Continental Fan Manufacturing Inc.
203 Eggert Road, Buffalo, NY 14215
T: 716-842-0670 • F: 716-842-0611

Canada - Continental Fan Canada Inc.
12-205 Matheson Blvd E, Mississauga, ON L4Z 3E3
T: 905-890-6192 • F: 905-890-6193

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