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Clean Air Optima CA705Smart

Clean Air Optima CA-705 Smart 2-in-1 Dehumidifier & Air Purifier User Manual

Model: CA705Smart

INTRODUCTION

The Clean Air Optima CA-705 Smart is a versatile 2-in-1 appliance designed to improve indoor air quality by both dehumidifying and purifying the air. This condensation dehumidifier effectively removes excess moisture from rooms up to 50m² / 125m³, with a capacity of up to 16 liters per day (at 30°C/80% RH). It actively prevents the development of mold, stains, corrosion, and musty odors, thereby protecting building materials and promoting a healthier environment. The CA-705 Smart operates efficiently in temperatures ranging from 5°C to 32°C, utilizing a compressor to cool ambient air, condense moisture, and collect it in a water tank or drain it directly via the included hose. Additionally, its integrated air purifier features a five-stage filtration technology to remove pet dander, pollen, and dust.

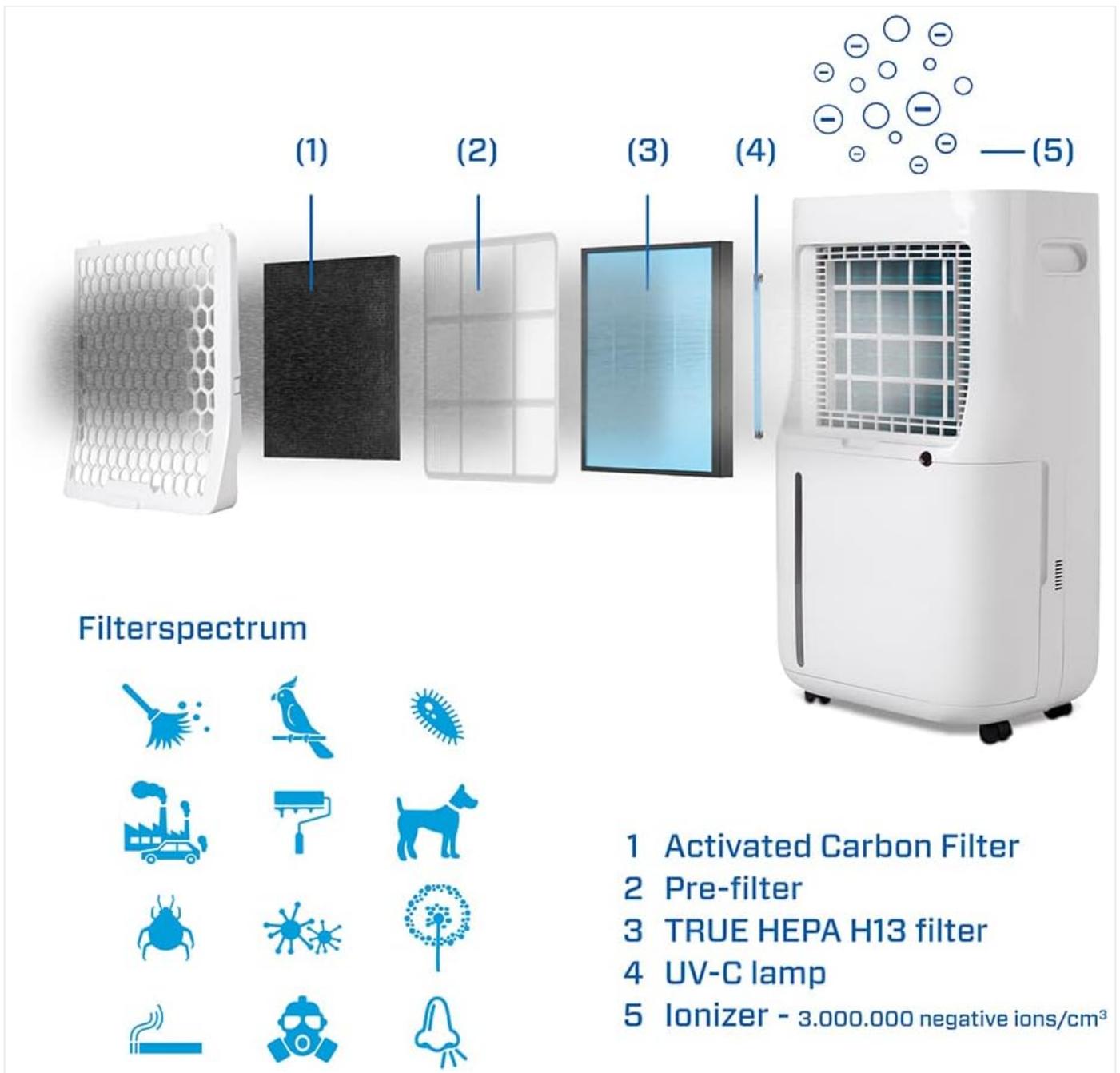


Image: The Clean Air Optima CA-705 Smart unit, a white rectangular appliance with a black control panel and a vertical indicator light.

SAFETY INSTRUCTIONS

- Always place the unit on a stable, level surface to prevent tipping and water spillage.
- Ensure the power cord is not damaged and is properly plugged into a grounded outlet.
- Do not block the air inlets or outlets of the appliance. Maintain adequate clearance around the unit for proper airflow.
- Keep the appliance away from heat sources, direct sunlight, and flammable materials.
- Do not operate the unit with wet hands or in excessively humid environments like bathrooms without proper ventilation.
- Unplug the appliance before cleaning, maintenance, or when not in use for extended periods.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Do not attempt to repair or disassemble the unit yourself. Contact qualified service personnel for any repairs.

PRODUCT COMPONENTS AND FILTRATION SYSTEM

The CA-705 Smart features a comprehensive five-stage filtration system for effective air purification alongside its dehumidification function. Understanding these components is key to optimal performance.



Image: Exploded view diagram showing the five filter layers and their functions: (1) Activated Carbon Filter, (2) Pre-filter, (3) TRUE HEPA H13 filter, (4) UV-C lamp, (5) Ionizer. Icons below illustrate what the filter spectrum removes, including dust, pet hair, bacteria, mites, pollen, smoke, and odors.

1. **Activated Carbon Filter:** Absorbs odors, gases, and volatile organic compounds.
2. **Pre-filter:** Captures larger particles such as dust, pet hair, and lint.
3. **TRUE HEPA H13 Filter:** Traps 99.97% of airborne particles as small as 0.3 microns, including pollen, dust mites, and mold spores.
4. **UV-C Lamp:** Neutralizes bacteria, viruses, and other microorganisms.
5. **Ionizer:** Releases negative ions to bind with airborne pollutants, making them easier to filter out.

SETUP

1. **Unpacking:** Carefully remove the dehumidifier from its packaging. Retain packaging materials for future storage or transport.
2. **Placement:** Place the unit on a firm, level surface in the desired room. Ensure there is at least 20 cm (8 inches) of space around all sides for optimal air circulation. Avoid placing it directly against walls or furniture.
3. **Power Connection:** Plug the power cord into a standard, grounded electrical outlet.
4. **Water Drainage (Optional):** For continuous drainage, connect the provided drainage hose to the continuous drainage port on the back of the unit. Ensure the hose is directed downwards to a suitable drain or container. If not using continuous drainage, the water will collect in the internal water tank.



Image: Diagram showing the dimensions of the CA-705 Smart unit: 340 mm (width), 240 mm (depth), and 570 mm (height).



Image: The CA-705 Smart unit from the side, highlighting its integrated handle and caster wheels for easy movement. The rear filter cover is also visible.

OPERATING INSTRUCTIONS

Control Panel Overview

Manual operation or with the Clean Air Optima® App



Image: Top-down view of the CA-705 Smart control panel with various buttons and a digital display showing "55". Next to it, a smartphone screen displays the "Clean Air Optima" app with a Wi-Fi icon, indicating remote control capability.

The control panel allows for manual operation, while the Clean Air Optima app provides remote control functionality via Wi-Fi.

Basic Operation

1. **Power On/Off:** Press the **Power button** (typically marked with a circle and vertical line) to turn the unit on or off.
2. **Setting Humidity Level:** Use the **Humidity Setting buttons** (usually Up/Down arrows or a dedicated button) to set the desired relative humidity (RH) level. The integrated hygrometer allows setting between 35% and 80% RH. The unit will automatically operate to maintain this level.
3. **Mode Selection:** Press the **Mode button** to cycle through available operating modes (e.g., Dehumidification, Air Purification, Auto, Continuous).
4. **Fan Speed:** Adjust the fan speed using the **Fan Speed button** to select between different fan settings (e.g., Low, High).
5. **Timer Function:** Use the **Timer button** to set an operating duration (e.g., 1-24 hours) after which the unit will automatically turn off.
6. **Child Lock:** Activate the **Child Lock button** to prevent accidental changes to settings.

Digital Hygrometer

The CA-705 Smart is equipped with an integrated digital hygrometer that measures, monitors, and automatically regulates the relative humidity of the air. You can set your desired humidity level between 35% and 80% RH. The unit will operate

until the set humidity is reached, then pause, and restart if the humidity rises above the set point.



Image: Close-up of the CA-705 Smart's control panel showing the digital display set to "55" (indicating 55% relative humidity), with an icon representing humidity control and the text "Digital hygrometer setting 30 to 80%".

Air Quality Indicator Light

The unit features an indicator light that changes color based on the detected air quality or humidity level, providing a quick visual reference.



Image: A close-up of the CA-705 Smart's vertical indicator light, showing examples of blue, green, and red colors, which typically correspond to different air quality or humidity levels.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your CA-705 Smart unit.

Water Tank

- **Emptying:** When the water tank is full, the unit will automatically stop operating and an indicator light (or sound) will alert you. Carefully remove the water tank and empty it. Reinsert the tank securely.
- **Cleaning:** Clean the water tank regularly (e.g., once a week) with mild soap and water to prevent mold and bacterial growth. Rinse thoroughly.

Filter Cleaning and Replacement

- **Pre-filter:** The pre-filter should be cleaned every 2-4 weeks, depending on usage and air quality. Remove the filter cover, gently detach the pre-filter, and clean it with a vacuum cleaner or rinse it under lukewarm water. Ensure it is

completely dry before reinserting.

- **Activated Carbon Filter & HEPA H13 Filter:** These filters are not washable and should be replaced periodically, typically every 6-12 months, depending on usage. Refer to the product manual or manufacturer's website for replacement filter models.
- **UV-C Lamp:** The UV-C lamp has a limited lifespan and may need replacement after a certain number of operating hours. Consult the full manual for specific replacement intervals and procedures.

Exterior Cleaning

Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no water enters the air inlets or outlets.

TROUBLESHOOTING

Before contacting customer support, please refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; Power cord not properly connected; Water tank full or incorrectly inserted.	Check power outlet and cord connection; Empty and correctly reinsert water tank.
Dehumidification is weak.	Room temperature too low; Air filter clogged; Air inlets/outlets blocked; Room size too large.	Ensure room temperature is above 5°C; Clean or replace air filters; Ensure proper airflow around the unit; Verify unit is suitable for room size.
Unusual noise.	Unit not on a level surface; Foreign object inside; Fan obstruction.	Place unit on a flat surface; Turn off and inspect for obstructions; Contact service if noise persists.
Bad odor from unit.	Dirty filters; Stagnant water in tank.	Clean or replace filters; Clean water tank thoroughly.

SPECIFICATIONS

Feature	Detail
Brand	Clean Air Optima
Model Number	CA705Smart
Color	White
Dimensions (L x W x H)	25 x 25 x 48 cm (Product); 24P x 34l x 57H cm (Detailed)
Dehumidification Capacity	16 Liters/day (at 30°C/80% RH)
Water Tank Volume	3 Liters
Recommended Room Size	Up to 50m ² / 125m ³ (40 square meters also listed in specifications)
Material	Plastic and Metal
Number of Speeds	2
Special Features	Continuous Air Purification, Automatic Defrost, Digital Hygrostat (35-80% RH), Wi-Fi Control

Feature	Detail
Filtration Technology	5-stage (Pre-filter, Activated Carbon, TRUE HEPA H13, UV-C Lamp, Ionizer)
Recommended Use	Domestic

WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts and filters, please refer to the official Clean Air Optima website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

You can visit the Clean Air Optima store for more products and support: [Clean Air Optima Store](#)

