

Air purifier

Lavaero 280

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Dear customer,

Thank you for choosing the Lavaero 280 from Comedes GmbH.

You have purchased a powerful air purifier designed to the latest technical standards. To ensure that the device will remain your faithful servant over a long period of time, we ask you to study the operating instructions, in particular the safety instructions, in detail.

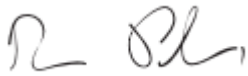
If you still have questions about the device after you have read the operating instructions, please do not hesitate to contact us:

E-mail address: service@comedes.com

If you enter your telephone number, we will call you back free of charge.

We welcome any feedback from our customers and would appreciate it if you contact us.

Yours sincerely



Philipp Thannhuber

Managing Director

Comedes GmbH

Warning:

Read the instructions carefully before commissioning. Failure to follow the safety instructions and instructions may result in electric shock, fire and/or serious injury. Keep all safety instructions and instructions for the future.

Watch your step! Do not open the device until the mains plug has been disconnected from the mains socket. Risk of death due to electric shock! Have repairs carried out only by an authorised specialist workshop.

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Safety instructions

- Check the voltage of 220-240V before use.
- Check the mains plug before plugging in.
- When not in use, unplug the appliance from the wall outlet.
- Do not insert any objects into the air inlets and outlets of the unit. It may cause a short circuit. Special care must be taken when operating the device within the reach of children.
- Use the ON/OFF switch to turn the unit on and off. Never use the plug to switch the unit "on and off".
- Before changing the device, switch it off and pull the plug.
- Never attempt to clean the air inlets or outlets with sharp objects.
- Never immerse the appliance in water.
- Never spray flammable liquids into the device.
- Never operate the appliance in a damp room (e.g. bathroom). Danger of electric shock or power transfer.
- Never use hairsprays, thinners or flammable gases in the vicinity of the device, as there is a risk of fire and explosion.
- If candles or gas ovens burn in the same room during operation, open the window occasionally.
- Never cover the air inlet or outlet. This can destroy the motor of the blower.
- Never operate the device near heat sources such as heaters, open fires or direct sunlight. The plastic parts can be deformed.
- The unit does not serve as a fan replacement. This considerably shortens the service life of the filter.
- The device must not be used in an environment containing high levels of dust or chlorine.
- Do not place heavy objects on the unit and keep it out of the reach of children.
- The device must not be used in closed and narrow rooms.
- If the supply line is damaged, stop operation and replace it immediately.
- If the device is defective, switch off the mains switch and disconnect it.
- To avoid interference, do not operate the equipment near microwaves, television sets, or other electrical equipment. A distance of at least two metres is recommended.
- The device may only be operated by persons who are physically and mentally capable of correct operation in accordance with these operating instructions, or who have been instructed on this device by a responsible person.
- Never operate the device with wet hands.
- Do not attempt to repair or make any other adjustments, both electrical and mechanical, to the unit yourself.
- Do not let children play with the packaging, such as plastic films.
- Ensure a minimum distance of at least 10cm between the unit and the nearest wall.
- Always switch off and disconnect the unit before removing or cleaning the filter.
- Only use the device indoors with good air circulation.
- Keep sufficient distance from curtains, drapes or other easily movable objects.
- Do not place the unit on an uneven, sloping or moving surface to prevent it from tipping over or falling to the ground.

Intended Use

The air purifier is only intended for air cleaning of privately used rooms (e.g. living rooms, bedrooms, storage rooms or cellars). The user must comply with the specified operating parameters of these instructions.

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The machine may only be used for its intended purpose. Any further use beyond this is not intended. The user/operator and not the manufacturer shall be liable for any damage or injury of any kind resulting therefrom.

Air cleaners are only conditionally suitable for use in kitchens, as oils and fats in the air as well as increased soot pollution can very quickly clog the filters.

Technical data

Product name:	Comedes Lavaero 280
Tension:	220-240V / 50/60 Hz
Rated power:	50W
Air flow rate:	280m ³ /h
Timer (hours):	1-10
Weight:	6,8 kg
Dimensions (W*H*T):	350*190*640 mm
Room size:	max. 55m ²
Noise emission:	<55dB(A)

Device description

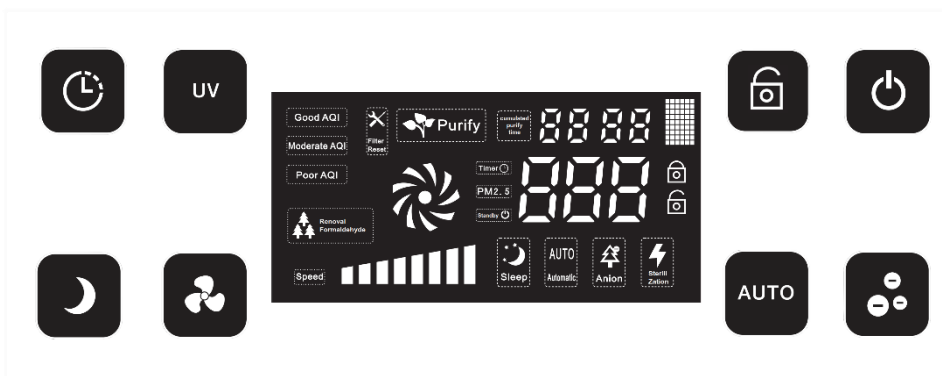
Figure 1:

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Control panel

Figure 2:



Display Indicators:

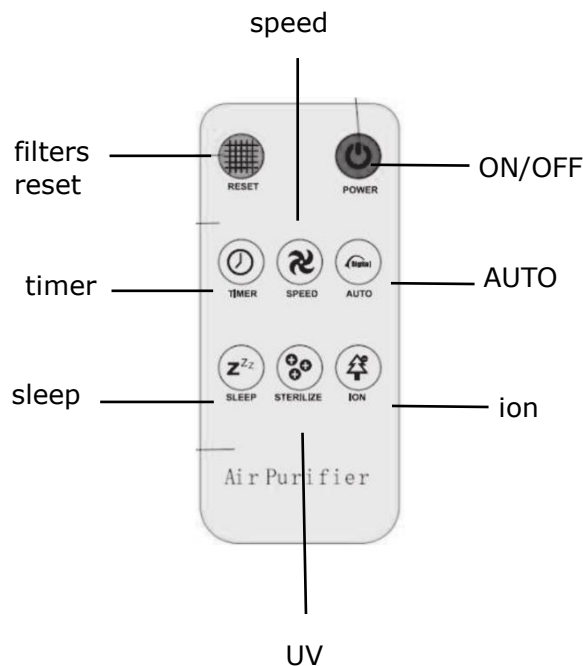
	Indication of the prevailing indoor air quality.		Ionizer active
	filter change indicator		UV lighting active
	Air cleaning active		The set runtime is displayed.
	Formaldehyde filtering active		Current PM2.5 load is displayed
	Fan level display 2 bars each stand for one fan stage		Air purifier ready for operation
	Fan active		Parental lock active
	Sleep mode active		Parental lock inactive
	Automatic mode active		

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Remote control

A button cell Lithium Cell CR2025, 3V is required for the remote control. (Not included in delivery.)

Figure 3:



Before commissioning

Remove the filter elements from the device, remove the foils and reinsert them into the device. Follow the steps in the chapter "Filter change". The main filter should normally be changed every 6-9 months.

The order of the filters is marked with the numbers 1-3 on the filter flaps, with the filter 1 located completely outside.

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Commissioning

1. Inserting the device

When you plug in the device, the readiness for operation is signalled acoustically. Caution: Never insert or remove the device with wet hands.



2. POWER

The power switch is used to turn the unit on and off.



3. AUTO

If you use the unit in automatic mode, the fan is controlled via the air quality sensor. In addition, the current air quality is shown quantitatively and qualitatively on the display.

air quality	PM2.5 (µg/m ³)	Display	fan stage
good	20-70	Air-quality good Lights green	1
remedy	71-150	Air-quality medium Glows orange	2
Bad	151-200	Air-quality poor Glows red	3
Very Bad	201-300	Air-quality poor Flashing red	4



4. Timer

- With the timer you can set the running time of the device. Times between 1 and 10 hours can be selected.
- When the time has elapsed, the unit switches off automatically.
- If the timer is active, the display will alternately show the PM2.5 concentration and the remaining running time.
- If no running time is set via the timer, the device switches itself off automatically after a running time of 24 hours.
This prevents the air purifier from continuing to operate unattended for a long period if it is not switched off.



5. **Ultraviolet light**

- With this switch the UV light is switched on and off.
- The UV function cannot be switched on in sleep mode.



6. **Ion**

- This switch switches the ionizer on and off.
- The ionizer cannot be switched on during sleep operation.
- If the ionizer is switched on, this is indicated on the display.



7. **Sleep**

- In this mode, the device operates at the lowest fan speed for minimal noise.
- With the exception of the Sleep display and Parental Lock, all displays go out.
- To exit Sleep mode, press either Sleep or Speed button.



8. **Speed**


- By repeatedly pressing the Speed button, you can choose between the four fan levels.
- The adjusted fan level is visualized via the bars on the display.



9. **Child safety lock**

- With this key all other keys can be locked.
- Press this button again to unlock the keypad.

10. **Filter change indicator**

- The Comedes Lavaero 280 has a filter change indicator. If it lights  up, the filters must be checked. After changing or cleaning the filters, you can reset the display by pressing and holding the Filter Reset button on the remote control or the Timer button on the unit for about 5 seconds.

Filter change

After some time in operation, the filter elements must be replaced.

1. Filter removal

- Always switch and disconnect the device for this purpose.
 - Release the upper lock. The best way to do this is to reach into the left and right air intakes and press the black control panel/display panel with your thumbs.
 - Now you can remove the filter cover.
 - After removing the pre-filter, the following filter elements can be pulled out of the unit by means of the lugs provided for this purpose.
2. The nylon prefilter net can be cleaned under running water and does not need to be replaced.
 3. Now check the filters. If the HEPA element is not yet too discoloured, vacuum it off with a vacuum cleaner (preferably outdoors).
 4. If the filters are very dirty or discoloured, replace them.
 5. Please note that the replacement filters must be removed from the protective film before they can be inserted into the device.
 6. The order of the filters is marked with the numbers 1-3 on the filter flaps, with the filter 1 located completely outside.
 7. In the last step, replace the filter cover on the air purifier.

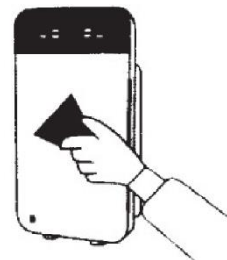
Cleaning the device

Disconnect the mains plug before cleaning!



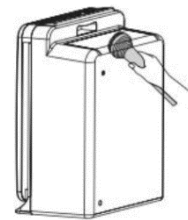
• **Clean housing:**

Do not use aggressive cleaning agents, but only a dry and soft cloth.



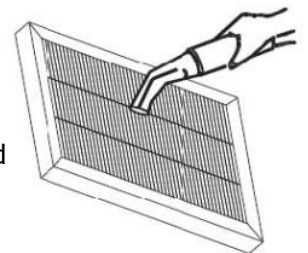
• **Clean air inlet and outlet:**

Use a vacuum cleaner or a dry cloth.
(It is best to clean the unit outdoors).



• **Clean the filter elements:**

- The ventilation effect becomes noticeably weaker, if a lot of dust collects on the filter surface.
- Therefore, clean the filters monthly.
- The nylon pre-filter mesh can be placed under a cold clear water can be washed off.
- The pre-filter (1) and the HEPA element (2) can be connected With vacuumed with a vacuum cleaner.
- How to remove the filter can be found under "Filter change".
- Further information on the individual filter elements can be found in the chapter "Further information" at the end of this manual.
 - The filter combination (3) of activated carbon and photocatalysis filter does not need to be cleaned.



- **Clean the air quality sensor:**
 - The air quality sensor of the air purifier should be cleaned at least every 2 months to ensure accurate measurement.
 - First, remove the air quality sensor cover and clean it and the air vents above and below with a soft brush or cloth.
 - Now carefully clean the air quality sensor with a cotton swab. See the illustration on the sticker next to the air quality sensor on the unit.
 - Finally, replace the cover of the air quality sensor.

Malfunctions and remedies

Current operating instructions can be found at <http://www.comedes.com>

Turn off the unit immediately and contact your dealer if any of the following problems occur:

- Fuse's blown.
- Foreign material gets into the device.
- The plug or power cord heats up.

Do not open the unit without authorized service personnel. However, you can check the following causes of faults yourself:

The device cannot be switched on:

- Is the plug inserted correctly?
- Has the fuse blown or is there no voltage at the socket?
- Is the front cover fitted correctly?

The air flow at the outlet opening is lower:

- Is the filter too dirty or clogged?

The device is disproportionately loud:

- Does the device stand on an uneven surface?
- Isn't the filter unpacked?
- Is the filter too dirty or clogged?

Remote control does not work:

- Replace the battery.

Smoke and odours are filtered very poorly.

- Are the filters inserted in the correct order?
- Aren't the filters unpacked?
- Do the filters have to be replaced?

Further information

Filter system:

Nylon prefilter net

The filter net set in a plastic frame represents the first barrier for particles. Large particles in the room air are caught by this net and can later either be vacuumed off with a vacuum cleaner or washed off under running water.

1 prefilter (1)

This pre-filter is a coarse particle filter which collects the larger particles from the air flowing through it. This process additionally protects the HEPA filter element from these particles and thus increases the service life of the following filter elements.

2 HEPA filters (2)

In order to remove even the smallest particles, the room air flows through a HEPA filter in the second step of the cleaning process, which absorbs pollen, fine dust and spores among other things.

3 Activated carbon filter (3)

In the next step, the air now freed of solids is processed by an activated carbon filter. In this working process odours and toxins are absorbed. Granulated activated carbon is deliberately used, as it has a high degree of efficiency and a large total surface area.

4 Photocatalytic filter (3)

With the help of this filter odours and bacteria can be fought effectively. Organic compounds are broken down by means of the photocatalytic effect produced by irradiation with UV light. Oxygen atoms are attached to organic compounds and gradually broken down into H₂O and CO₂.

Ultraviolet light

Besides the activation of the photocatalysis filter, the ultraviolet radiation has a disinfecting effect. Thus bacteria and viruses are killed by the irradiation with UV light.

Ionizer

In the last step, the air finally flowing out of the device is mixed with a small quantity of negatively charged ions. These ions attach themselves to the smallest particles in the room air and charge them statically. The particles charged in this way then tend to accumulate with other particles and form larger clusters, which can then be more easily absorbed by the filter medium.

Notes on air cleaning for cigarette smoke

Cigarette smoke consists of numerous complex chemical compounds. For the air purifier, it is essentially divided into solid components of smoke and gaseous components of smoke. The solid smoke particles are filtered out by the HEPA filter. The gaseous components are partly absorbed by the activated carbon filter and partly degraded by the photocatalytic filter.

- The device should be placed as close as possible to the smoke source.
- The unit should not be placed on the floor (for smokers it is recommended to place it on a table).
- Depending on how many cigarettes are smoked, the service life of the filter is shortened.

Information on air cleaning in case of problems with pollen

The air purifier is able to filter all common pollen from the air. These remain in the HEPA filter. In order for the device to be fully effective and to significantly reduce the pollen concentration, we recommend the creation of a refuge in which the air purifier is located. The device can only remove airborne allergens. But not allergens that have already deposited on beds, walls, furniture, etc..

For this reason, please observe the following instructions:

- Carry out a basic cleaning of the room before using the device.
- Do not use dust cloths for cleaning, but a damp cloth.
- Vacuum upholstered furniture at least once a week. Use a vacuum cleaner suitable for allergy sufferers.
- Wipe the room wet at least once a week.
- During the day, let the unit run at level 1. Place the device on a table. Don't put it on the floor.
- Turn off the device for sleeping.
- Set the fan to level 4 during ventilation. The best time to air the rooms is between 6:00 and 8:00 in the morning in cities or from 19:00 in rural areas.

Information on air cleaning in case of problems with house dust

House dust is usually generated by mites living in upholstered furniture, pillows, blankets and mattresses. The house dust remains there for the time being. The air purifier can only remove house dust from the air. It is therefore advisable to turn off sources of house dust before using an air purifier.

- Cover mattresses allergen-proof (Encasing).
- Cover pillow and duvet allergen-tight.
- Wash pillows and duvets frequently.
- Replace older mattresses.
- Use vacuum cleaner with fine filter.
- Vacuum mattresses monthly.
- Avoid dust traps in the bedroom.
- Do not place indoor plants in the bedroom.



This product must **not be disposed of with household waste**. This air purifier must be disposed of at a recycling point for electronic and electrical equipment. You can obtain further information about the relevant acceptance points from your local authority or city administration, or from Comedes GmbH.



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