

## Air Purifier AF 20

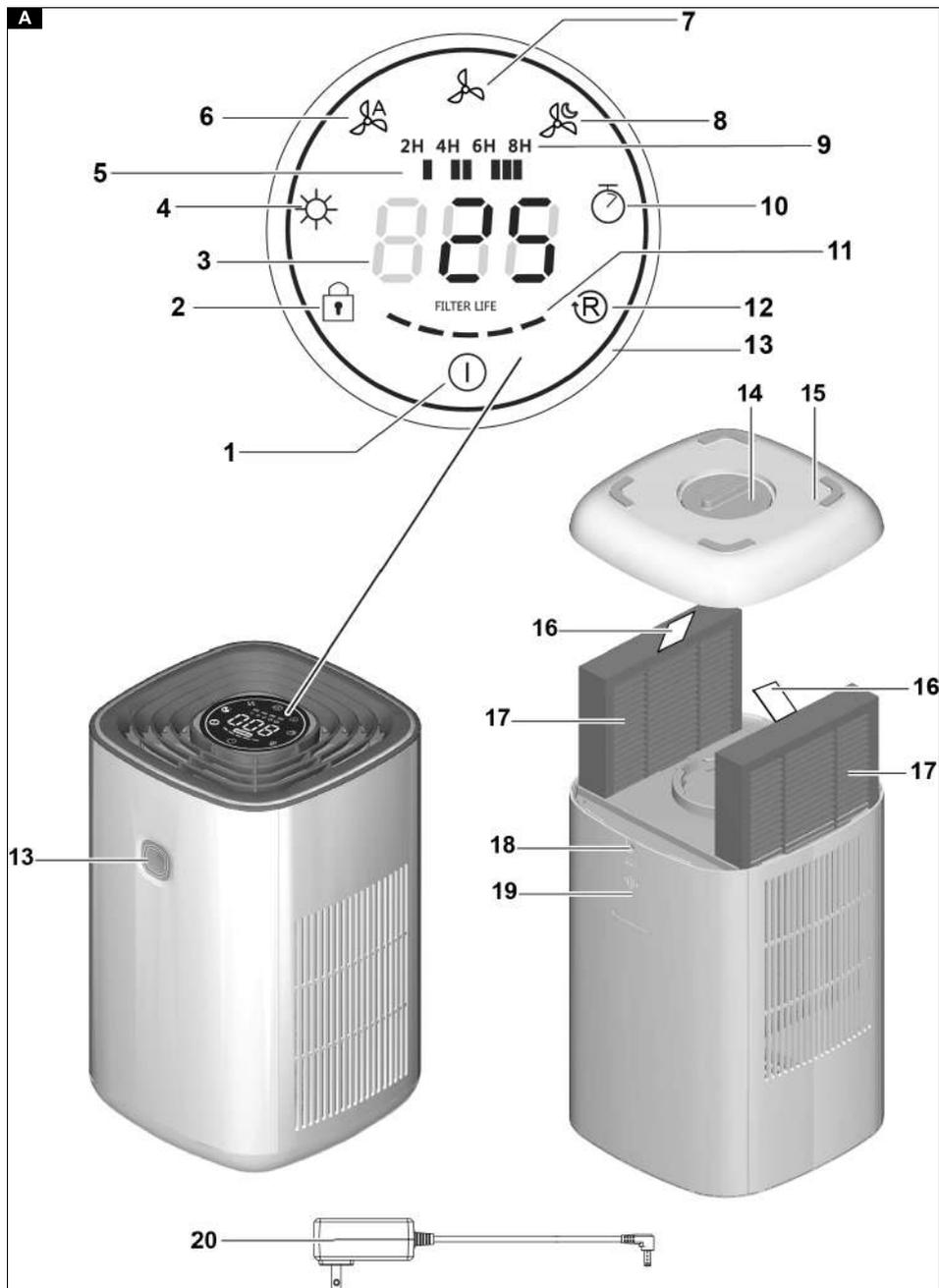


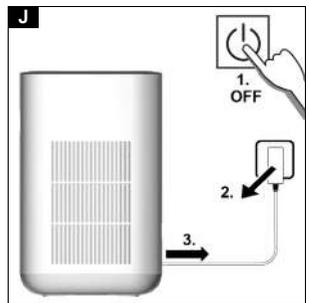
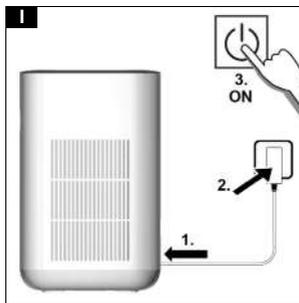
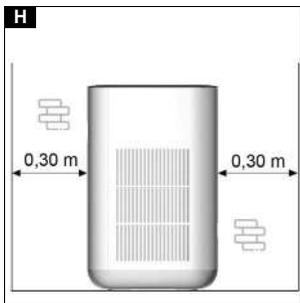
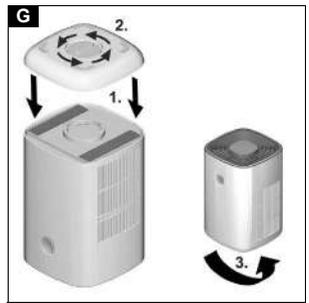
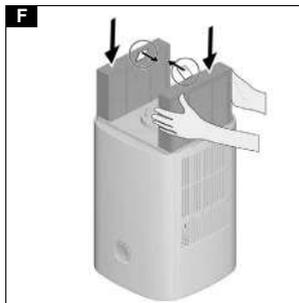
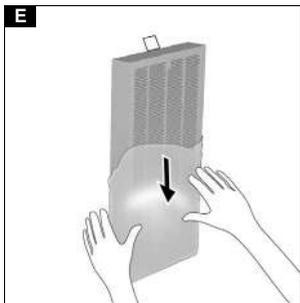
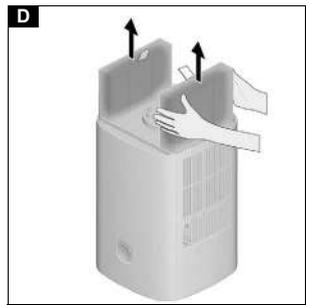
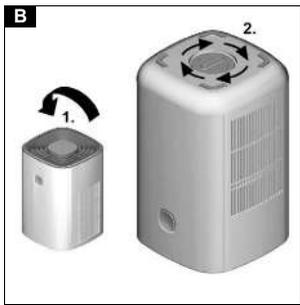
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**A**



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## General notes



Read these original instructions and the safety instructions chapter before using the device for the first time. Act in accordance with them.

Keep these original instructions for future reference or for future owners.

## Safety instructions

### Hazard levels

#### **DANGER**

- Indication of an imminent threat of danger that will lead to severe injuries or even death.

#### **WARNING**

- Indication of a potentially dangerous situation that may lead to severe injuries or even death.

#### **CAUTION**

- Indication of a potentially dangerous situation that may lead to minor injuries.

#### **ATTENTION**

- Indication of a potentially dangerous situation that may lead to damage to property.

### General safety instructions

**DANGER** • Only connect the device to alternating current. The voltage indicated on the type plate must match the voltage of the power source. • Never touch the mains plug and socket with wet hands. • Risk of asphyxiation. Keep packaging film out of the reach of children. • Operation in explosive atmospheres is prohibited.

**WARNING** • Persons with reduced physical, sensory or mental capabilities, or those with a lack of experience and knowledge, are only allowed to use the appliance if they are supervised or have been instructed with respect to using the appliance safely, and understand the resultant dangers involved. • Children from the age of 8 may use the appliance if they are supervised or have been instructed in its use by a person responsible for their safety, and if they have understood the resultant dangers involved. • Children must not play with the appliance. • Children must be supervised to prevent them from playing with the appliance. • Children may only perform cleaning work and user maintenance under supervision. • Check the power supply cable with mains plug for damage before operation each time. Do not put the device into operation with a

damaged power supply cable. Have a damaged power supply cable replaced immediately by the authorised customer service / qualified electrician. • Switch off the device immediately and remove the mains plug before performing any care and service work.

**CAUTION** • Do not pull the mains plug out the socket using the power supply cable. • Have repair work, installation of spare parts and work on electrical components carried out by the authorised customer service only. • It is prohibited to cover the air inlet and outlet. • Switch off the device after each use and remove the mains plug. • Do not place the device near a heat source. • The device is not a replacement for appropriate ventilation. • The device must be placed on an even, firm subsurface. • Only use accessories and spare parts which are approved by the manufacturer. Only original accessories and original spare parts ensure that the appliance will run fault-free and safely. • Do not use the device in damp conditions or in rooms with high ambient temperatures, e.g. bathroom.

## Intended use

In accordance with the descriptions and safety instructions listed in these operating instructions, use the device only as an air purifier.

- The device is intended for use as an air purifier.
- The device is suitable for both private and commercial use.
- The device is intended only for indoor use.

## Environmental protection



The packing materials can be recycled. Please dispose of packaging in accordance with the environmental regulations.



Electrical and electronic devices contain valuable, recyclable materials and often components such as batteries, rechargeable batteries or oil, which - if handled or disposed of incorrectly - can pose a potential danger to human health and the environment. However, these components are required for the correct operation of the device. Devices marked by this symbol are not allowed to be disposed of together with the household rubbish.

### Notes on the content materials (REACH)

Current information on content materials can be found at: [www.kaercher.de/REACH](http://www.kaercher.de/REACH)

## Accessories and spare parts

Only use original accessories and original spare parts. They ensure that the appliance will run fault-free and safely. Information on accessories and spare parts can be found at [www.kaercher.com](http://www.kaercher.com).

## Scope of delivery

The scope of delivery for the appliance is shown on the packaging. Check the contents for completeness when unpacking. If any accessories are missing or in the event of any shipping damage, please notify your dealer.

## Warranty

The warranty conditions issued by our sales company responsible apply in all countries. We shall remedy possible malfunctions on your device within the warranty period free of cost, provided that a material or manufacturing defect is the cause. In a warranty case, please contact your dealer (with the purchase receipt) or the next authorised customer service site. (See overleaf for the address)

## Description of the device

For the illustrations, refer to the graphics page.

### Illustration A

- ① Operation button for Device On / Off
- ② Operation button for Function lock
- ③ Display PM 2.5 Air quality index
- ④ Operation button for Switch off display
- ⑤ Display for fan level
- ⑥ Operation button for Auto mode On / Off
- ⑦ Fan level operation button
- ⑧ Operation button for Sleep mode On / Off
- ⑨ Timer display
- ⑩ Operation button for Timer
- ⑪ Filter service life display
- ⑫ Operation button for Filter reset
- ⑬ Air quality display and device display
- ⑭ Filter cover lock
- ⑮ Filter cover
- ⑯ Filter tab
- ⑰ filter
- ⑱ Connection for power supply unit
- ⑲ Device sensor
- ⑳ Power adapter

### Note

The function settings are only possible via the operation buttons and not via the displays.

## Inserting the filter

Before initial start up, the fine filters already installed in the unit must be unpacked.

1. Turn the device over, and turn the filter cover lock 45 degrees clockwise.

### Illustration B

2. Remove the filter cover.

### Illustration C

3. Remove the packed filters.

### Illustration D

4. Unpack the filters.

### Illustration E

5. Insert the unpacked filters. Ensure that the draw shackles are visible and point inwards.

### Illustration F

6. Put on the filter cover and turn the lock 45 degrees anticlockwise. Turn the device over with the display facing upwards.

### Illustration G

7. Place the device on a level surface. Ensure that a distance of 30 cm is maintained to each side.

### Illustration H

### Note

Do not place the device on hot surfaces or in the immediate vicinity of the room heating.

Do not allow any liquids or foreign bodies (e.g. metallic objects) to enter the device.

8. Insert the plug of the power supply unit into the device and insert the mains plug into the socket.

### Illustration I

The device is ready for operation.

### Note

The first time you use the device, we recommend allowing it to run overnight to perform an initial basic cleaning of your room.

### Note

The table with the hours of the display symbols for the filter service life, see Replacing the filter

## Operation

### Switching the device on/off

1. To switch on the device: Press the on/off button on the device.

### Illustration I

The device starts automatically.

### Note

After the system is switched on, the displays and buttons on the control panel light up briefly. The integrated air quality sensor measures the air quality in the room automatically.

2. If required, the following functions, for example, can be set via the operation buttons:
  - Fan level
  - Auto mode
  - Sleep mode
  - Timer
3. To switch off the device: Press the On/Off switch of the device.  
The displays and buttons on the control panel go out. The device is switched off.

### Setting auto mode

In automatic mode, the air purifier sets the appropriate fan level depending on the air quality.  
In the event of poor air quality, for example, the fan level is automatically set high.

Symbol for the auto mode operation button:



- Press the auto mode operation button. The automatic mode is switched on or off.

### Setting sleep mode

In sleep mode, the fan runs at the lowest speed and is therefore very quiet. All light symbols are off.

- Press the sleep mode operation button. The sleep mode is switched on or off.

Symbol for the sleep mode operation button:



### Setting the fan level

Depending on the air quality, the fan level can be manually set to level I, II or III. If the air quality is poor, for example to filter out smoke, the blower should run at maximum speed (level III) for 15 - 20 minutes.

### Note

To clean the air effectively, keep windows and doors closed while the air purifier is switched on.

Symbol for the fan level operation button:



- Press the fan level operation button repeatedly until the desired level is reached.

The selected fan level is displayed on the control panel.

#### Setting the timer

The timer can be set to 2, 4, 6 or 8 h run time. When the set time has elapsed, the device switches off automatically. The fan level can be changed at any time.

Symbol for the timer operation button:



- Switching on: Press the Timer operation button repeatedly until the desired run time is reached. The display lights up. The set run time is displayed in the control panel.
- Switching off: Press the Timer operation button until the timer display goes out. Timer is off.

#### Lock / unlock control panel

To prevent accidental change of settings, e.g. by children or pets, the control panel can be locked.

Symbol for the lock operation button and display for control panel:



- Lock: Press the button for 3 seconds.
- Unlock: Press the lock button for 3 seconds.

#### Display PM 2.5 air quality

The display shows the concentration of fine dust (PM 2.5) numerically in the unit  $\mu\text{g}/\text{m}^3$ . In addition, a colour index provides information about the air quality:

PM 2.5	Air quality	Colour
0 - 60	Good	Blue
61 - 120	Moderate	Yellow
>120	Poor	Red

### Transport and storage

#### **⚠ CAUTION**

**Failure to observe the weight**

*Risk of injury and damage*

*Be aware of the weight of the device during transport and storage.*

Store the device only in dry indoor rooms.

### Care and service

#### Cleaning

#### **⚠ DANGER**

**Danger of death from electric shock**

*Liquids can conduct electricity and thus cause serious or fatal injuries.*

*Always disconnect the power supply unit from the socket before cleaning and maintenance work.*

*Never immerse the device or the power supply unit in water.*

*Never use wet cloths to clean the device or the power supply unit.*

- Switch off the device.
- Unplug the power supply unit from the socket.
- Wipe the device with a soft, dry cloth. Do not use abrasive or corrosive detergents.

### Replacing the filter

The filter should be changed after 2500 - 3000 hours of operation at the latest. If the device becomes louder, an unpleasant smell emanates from the device (filter) or the filter is visibly dirty, it should be changed at an earlier stage. The symbol flashes in the display to remind you of a required filter change.

Symbol for the operation button for filter reset:



Depending on the service life, the following number of symbols is displayed:

Display for service life of filter (h)	
2401 - 3000	
1801 - 2400	
1201 - 1800	
601 - 1200	
1 - 600	

- Switch off the device, and disconnect the power supply unit from the socket and device.

#### Illustration J

- Turn the device over, and turn the filter cover lock 45 degrees clockwise.

#### Illustration B

- Remove the filter cover.

#### Illustration C

- Remove the filters.

#### Illustration D

- Unpack the new filters.

#### Illustration E

- Insert the unpacked filters. Ensure that the draw shackles are visible and point inwards.

#### Illustration F

- Put on the filter cover and turn the lock 45 degrees anticlockwise. Turn the device over with the display facing upwards.

#### Illustration G

- Connect the power supply unit to the device and socket.

- Switch the device on.

- To reset the filter (Reset), press the symbol for 3 seconds.

#### Illustration K

### Troubleshooting guide

Malfunctions often have simple causes that you can remedy yourself using the following overview. When in doubt, or in the case of malfunctions not mentioned here, please contact your authorised Customer Service.

Fault	Cause	Rectification
<b>The device cannot be switched on</b>	No electrical voltage present	<ul style="list-style-type: none"> <li>● Check the socket and the power supply fuse.</li> <li>● Insert the plug of the power supply unit into another socket.</li> </ul>
	Power supply unit defective	<ul style="list-style-type: none"> <li>● Contact Customer Service to replace the power supply unit.</li> </ul>
	Device defective	<ul style="list-style-type: none"> <li>● Contact Customer Service.</li> </ul>
<b>Display flashes and device does not start</b>	Filter cover not inserted correctly	<ul style="list-style-type: none"> <li>● Insert the filter cover correctly, making sure that the filters are seated correctly.</li> </ul>
<b>Airflow is reduced</b>	Filter clogged	<ul style="list-style-type: none"> <li>● Changing the filter, see chapter <i>Replacing the filter</i>.</li> </ul>
	Filter not unpacked	<ul style="list-style-type: none"> <li>● Unpacking the filter, see chapter <i>Inserting the filter</i>.</li> </ul>
	Fan level too low	<ul style="list-style-type: none"> <li>● Increasing the fan level, see chapter <i>Setting the fan level</i>.</li> </ul>
	Air outlet is blocked	<ul style="list-style-type: none"> <li>● Remove foreign bodies.</li> </ul>
<b>Odour elimination ineffective</b>	Poor ambient air quality	<ul style="list-style-type: none"> <li>● Open windows to improve ventilation.</li> </ul>
	Filter used up or used too long	<ul style="list-style-type: none"> <li>● Replace the filter.</li> </ul>
	Fan level too low	<ul style="list-style-type: none"> <li>● Increasing the fan level, see chapter <i>Setting the fan level</i>.</li> </ul>
<b>Poor air quality</b>	Fan level too low	<ul style="list-style-type: none"> <li>● Increasing the fan level, see chapter <i>Setting the fan level</i>.</li> </ul>
	Draught	<ul style="list-style-type: none"> <li>● Close the windows and doors while the device is working.</li> </ul>
	AF 20: Room size clearly above 20 m <sup>2</sup>	<ul style="list-style-type: none"> <li>● Observe the maximum room size.</li> </ul>
	Air slots on the device blocked	<ul style="list-style-type: none"> <li>● Keep the required distances from the device.</li> <li>● Do not place anything on the device.</li> </ul>
	Filter not unpacked	<ul style="list-style-type: none"> <li>● Unpacking the filter, see chapter <i>Inserting the filter</i>.</li> </ul>
	Filter clogged or contaminated.	<ul style="list-style-type: none"> <li>● Changing the filter, see chapter <i>Replacing the filter</i>.</li> </ul>

## Technical data

### Electrical connection

Mains voltage	V	DC24V
Phase	~	1
Power frequency	Hz	50 - 60
Nominal power	W	24
Standby	W	<0,5

### Device performance data

Clean air flow rate	m <sup>3</sup> /h	220
Floor space	m <sup>2</sup>	* 20
Filter efficiency at 0.3 µm		99,95%
Maximum filter working time (depending on environment)	h	3000
Ventilation levels		3

### Dimensions and weights

Weight	kg	2.7
Length x width x height	mm	220x220 x343

### Ambient conditions

Ambient temperature	°C	- 10 °C - + 40 °C
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### Determined values in acc. with EN 60335-2-69

Sound pressure level	dB(A)	26-52
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\* At 3 m ceiling height and 3 x air exchange per hour  
Subject to technical changes without notice.

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