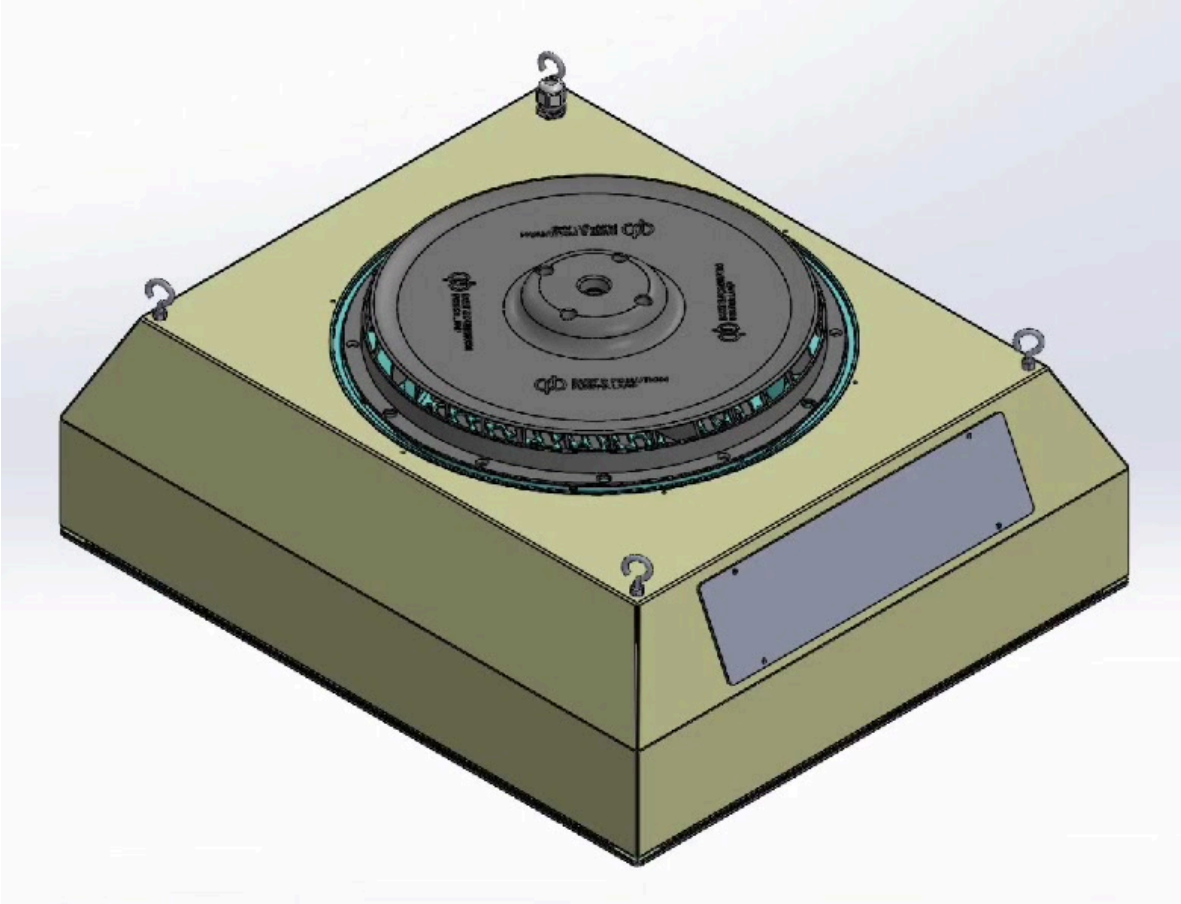
DESIGNED IN GERMANY

OPERATING MANUAL

dp Industrial

Ceiling-mounted air purifier for industry, warehouses and large commercial spaces



Version 1.3 · 2026-11 · English

www.dp-purifier.com

About this manual

Read this operating manual in full before installing and commissioning the device, and keep it for future reference. Make the manual available to everyone who installs, operates, cleans or maintains the device.

All illustrations in this manual are examples only (CAD renderings) and may differ from the device actually delivered. The technical data in chapter 7 and the documents supplied with the device apply. The app runs on most smartphones and tablets (Android and iOS), hereinafter referred to as “mobile devices”.

Check the delivery immediately for completeness (for the scope of delivery, see chapter 1) and for transport damage. A damaged device must not be installed.

Warnings in this manual

WARNING! indicates a hazard which, if not avoided, can result in serious or fatal injuries.

Note: indicates information for safe and trouble-free operation.

Manufacturer and service contact

Manufacturer	Dust and Pollution Air Purifier Lamp FZC Business Centre, Sharjah Publishing City Free Zone Sharjah, United Arab Emirates
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1 Introduction: the dp Industrial

The dp Industrial is a ceiling-mounted air purifier for large rooms with a high air circulation requirement, for example factory and warehouse buildings, hospitals including operating theatres, schools, offices and large commercial spaces. The housing is made of 2 mm thick aluminium and is designed for continuous operation. The device also has integrated LED lighting, which you switch and adjust (light colour and brightness) via the app.

How it works

The device is suspended below the ceiling, usually with a gap of approx. 20–25 cm between the ceiling and the top of the device. A fan draws in room air from below through the intake grille and passes it from bottom to top through the filter system:

- **Activated carbon filter (optional, at the customer's request):** sits as the lowest layer directly on the intake grille and binds odours, volatile organic compounds (VOCs) and selected gaseous substances. It is not included in the standard scope of delivery.
- **HEPA 10 pre-filter:** retains coarse dust, larger particles, pollen and suspended matter and relieves the downstream main filter.
- **HEPA H14 main filter (top layer):** high-efficiency filtration of fine particles, aerosols and PM2.5. Filter efficiency ≥ 99.995 % at MPPS (most penetrating particle size) according to EN 1822.
- **UV-C:** four encapsulated UV-C LED modules in the closed housing.

The purified air is discharged at the top of the device in all directions (360°). This creates a layer of filtered air below the ceiling, which is pushed evenly downwards into the occupied zone by the air flowing in behind it.

Device overview

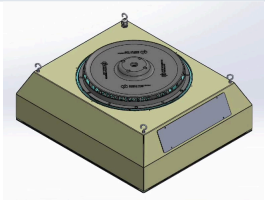

Fig. 1 – Top: fan with 360° air outlet and four suspension points (ring eyelets) for suspended mounting.

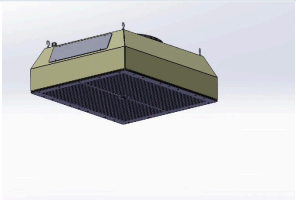

Fig. 2 – Underside: intake grille. The filters sit above it (from the bottom: activated carbon if fitted, HEPA 10, HEPA H14); the grille is unscrewed for filter replacement.

Scope of delivery

- 1 × dp Industrial device
- 1 × filter set HEPA 10 + HEPA H14 (pre-installed)
- 1 × remote control
- 1 × mains cable with plug
- 1 × ceiling mounting kit (ceiling plate, adjustable rods, mounting hardware)
- 1 × user documentation incl. device-specific QR code for the app
- Activated carbon filter: not included, optional on request

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2 Safety

Intended use

The dp Industrial is intended for filtering indoor room air, in particular in large commercial and industrial rooms and in hospitals, including operating theatres. If the composition of the air pollution in a room is atypical or its concentration is unusually high, it is the operator's responsibility to ensure that the filtration performance is sufficient for the pollution level. If in doubt, contact the manufacturer before use.

The device has a Wi-Fi module (2.4 GHz) that allows it to be controlled from mobile devices with the associated app.

The device is not suitable

- for rooms with condensing humidity, wetness or hot air,
- for extraction at the point of origin, e.g. of welding fumes, grinding or wood dust, chips, oil mist or paint mist.

Use is prohibited

- in potentially explosive atmospheres,
- where sparks reach the device directly (mounting height at least 2.5 m).

The dp Industrial is not a medical device and does not replace regular ventilation of the room, mandatory ventilation and air-conditioning systems or occupational safety measures.

General safety instructions

WARNING! Risk of injury from a falling device! The dp Industrial weighs 20 kg. It may only be mounted using the ceiling mounting kit supplied and at all four suspension points. The installer must ensure that the ceiling and the fixing can safely carry the weight, including additional forces (fan start-up, filter replacement, impacts).

WARNING! Risk of injury from electric shock! The device is connected to a 220–240 V socket outlet using its mains cable and plug. The aluminium housing must be earthed: use only a properly installed socket outlet with a protective earth conductor (e.g. Schuko socket). Do not operate the device if the mains cable or plug is damaged. A damaged mains cable may only be replaced by the manufacturer or an electrician. If a socket outlet has to be newly installed near the ceiling, have this done by a licensed electrician.

WARNING! Risk of falling! When working on the mounted device, use a suitable, stable climbing aid (platform ladder, scaffold or mobile elevating work platform) of sufficient height so that you do not have to work above head height. Work in pairs.

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UV-C light

The four UV-C LED modules are encapsulated in the closed housing. The device may only be operated with a fully intact and closed housing and with the intake grille fitted.

Grille sensor: A sensor detects when the intake grille is removed and automatically switches off UV-C and the fan. The sensor is an additional protection; it does not replace switching off the device and unplugging the mains plug.

> **WARNING! UV-C radiation can damage eyes and skin!** Do not switch on the device if the housing is damaged or the interior is visible. Always switch the device off and unplug the mains plug before removing the intake grille.

Limits of filtration

- The filters are designed for specific pollutants and pollutant concentrations.
- The filters lose effectiveness over their service life. Replace the filters in good time, at the latest when the app indicates that a filter change is due (filter alert at 80 % depletion).
- If special requirements apply to the air quality, measurements by a specialist laboratory may be required.

Safety instructions for special situations

Repairs: The components inside the housing are not intended to be repaired by the customer or third parties. The device must not be opened except to replace the filters.

Fire: The optional activated carbon filter represents an additional fire load in the event of a fire.

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3 Operation

You operate the dp Industrial

- with the **remote control** supplied – on/off, fan speed and mode change, without Wi-Fi or a smartphone,
- with the **“dp Air Purifier Lamp” app** on your mobile device – in addition, LED lighting, schedules, air quality index, filter life and automatic calculation of the fan speed from the room size.

Installing the app

Operating system	Store	Search term
Android	Google Play Store	dpLamp
Apple iOS	App Store	dpLamp

The app and the device communicate via Wi-Fi (2.4 GHz, IEEE 802.11b/g/n). For this purpose, the device provides its own Wi-Fi hotspot. You have two options:

- **Hotspot mode:** You connect the mobile device directly to the Wi-Fi hotspot of the device. This option is described below.
- **LAN mode:** You connect the device to your existing Wi-Fi network and access it via this network (see below).

Connecting the mobile device to the hotspot of the device

1. Make sure that the device is supplied with power and switched on.
2. On the mobile device, search for the network “DP Lamp” in the Wi-Fi settings and select it.
3. Enter the Wi-Fi password (factory setting: **12345678**). In future, you only need to select the hotspot from the list.

Connecting the app to the device

1. Have the device-specific QR code ready. It is supplied with the device as a printout.
2. In the app, open the home screen and tap the plus symbol at the bottom.
3. Hold the QR code in front of the camera. Once it has been recognised, the app establishes the connection. If the QR code is not recognised, enter the character string below the QR code manually.

Controlling the device with the app

On the detail screen of a device, you can see status information (including air quality based on the fine dust concentration PM2.5 and the filter condition) and control the air purification:

- on/off, fan speed, manual (MANUAL) or automatic (AUTO) mode,
- UV-C on/off – the UV-C function can only be switched on while the fan is running,
- LED lighting: on/off, light colour and brightness,

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- schedules for operating times,
- **Entering the room size:** Press and hold the air purification control and enter the width and length of the room. The app uses these values to calculate the fan speed for approx. 3 air changes per hour.

The filter condition is shown as a circle: the opening of the circle indicates what percentage of the filter is already depleted.

Several devices and existing Wi-Fi network

Adding another device: Connect the mobile device to the hotspot of the respective device and add the device via QR code as described above.

LAN mode: First connect directly as described above, then open the settings in the app (three-dot menu), select “Wifi Config” and enter the access data of your network. Prerequisite: your router provides a 2.4 GHz network, and devices on the Wi-Fi network are allowed to communicate with each other. If necessary, contact your IT department. For integration into HVAC or building management systems (BMS), the manufacturer provides project-specific documentation on request.

Changing the Wi-Fi connection: If the network is still working, change the settings under “Wifi Config”. If it is no longer working, connect the mobile device directly to the hotspot of the device again and change the settings there.

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4 Planning and installation

Determining the number of devices

Recommended: approx. 3 air changes per hour, 4 in schools. Standard operation 800 m³/h (approx. 48 dB); up to 1,200 m³/h on the higher setting rated for continuous use. Guide value:

> **One dp Industrial covers 720 or 1,080 m³/h (planning limit: 1,200 m³/h per unit).**
> Number of units: divide the required airflow in m³/h by 1,200 and round up. The technical maximum of 1,500 m³/h is not a design value.
> Example: 1,200 m³ × 3 air changes/h = 3,600 m³/h → 3 units on the higher setting (1,200 m³/h each) or 5 units in standard operation (800 m³/h each).

The exact design depends on the ceiling height, room layout, pollution load and target air change rate. For projects with several devices, the manufacturer prepares a project-specific layout calculation on request.

Mounting location

- Distance from the ceiling: usually approx. 20–25 cm between the ceiling and the top of the device, depending on the room height. The height is set using the adjustable rods of the mounting kit. This gap is also required for the air outlet at the top of the device.
- A socket outlet with a protective earth conductor must be within reach of the mains cable and easily accessible so that the device can be disconnected from the mains at any time.
- Distribute the devices as evenly as possible across the floor area, not directly above heat sources or wet areas.
- Keep the air outlet at the top and the intake grille at the bottom clear; do not cover the device or place any objects on it.
- For filter replacement, there must be sufficient space under the device for a safe climbing aid.

Safety during installation

> **WARNING! Risk of injury from a falling device!** Standard ceiling hooks or light fixtures are not designed for 20 kg. Mount the device only with the mounting kit supplied. It is the installer's responsibility to ensure that the fastening system and the ceiling can safely carry the weight; the ceiling may need to be reinforced.

> **WARNING! Risk of injury from electric shock!** Before drilling, make sure that no visible or concealed cables or lines can be drilled into. If in doubt, ask an electrician. Connect the device only to a socket outlet with a protective earth conductor.

Install the device with two people: one person holds the device (20 kg) in position. Installation by a qualified specialist usually takes 1–2 hours.

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Mounting and connection

1. Check the load-bearing capacity of the ceiling and decide how the ceiling plate is to be fixed (wall plugs, special anchors, wood screws, girder clamps, etc.); provide suitable fixing material.
2. Determine the mounting position: a socket outlet with a protective earth conductor must be within reach of the mains cable. If there is none, have one installed by an electrician.
3. Fix the ceiling plate of the mounting kit to the ceiling.
4. Attach the adjustable rods to the ceiling plate and to all four suspension points (ring eyelets, Fig. 1) of the device. Adjust the length so that the device hangs level – usually with a gap of approx. 20–25 cm between the ceiling and the top of the device.
5. Check that the fixing safely holds the weight of 20 kg, including possible additional forces.
6. Route the mains cable to the socket outlet without tension or chafing points and secure it to a rod, e.g. with cable ties. The cable must not be pinched and must not hang loose.
7. Plug the mains plug into the socket outlet and switch the device on with the remote control.
8. Check operation: set the fan to maximum speed – it must run without unusual noise. Then connect the app (chapter 3) and enter the room size.

> **Note:** The device is equipped with an integrated 6 A miniature circuit breaker. It does not replace the overcurrent protection of the building installation. Do not use multiple socket outlets or cable reels for continuous operation.

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5 Cleaning, filter replacement, repairs

Cleaning

1. Switch off the device and unplug the mains plug.
2. Clean only the outer surfaces; do not open the housing.
3. Remove dust with a dry cloth or a vacuum cleaner with a brush attachment. Wipe off adhering dirt with a soft, slightly damp cloth, using a mild detergent if necessary.
4. Do not switch the device back on until it is completely dry.

> **WARNING!** Do not use a wet cloth, a water jet or a high-pressure cleaner. No moisture may enter the housing.

Filter replacement – when?

The device records the load on the filters; the app shows the remaining filter life. At approx. 80 % depletion, the app shows a filter alert; if the filter is completely saturated, the device cannot be restarted. Guide value for filter life: approx. 4,200 operating hours. In practice, the following replacement intervals apply in continuous operation:

Filter	Replacement interval in practice (continuous operation)
HEPA 10	approx. every 6 months
HEPA H14	after approx. 15–17 months
Activated carbon filter (optional)	depending on odour, VOC or gas load

The filters are replaced independently of each other according to their respective intervals. The actual interval depends on operating hours, air pollution (indoor and outdoor) and operating conditions. Use only original filters from the manufacturer; replacement filters are available from the manufacturer (see “Manufacturer and service contact”, page 1).

Filter replacement – step by step

> **WARNING! UV-C radiation and risk of falling parts!** Always switch the device off and unplug the mains plug before opening it. Have the second person hold the intake grille securely while the screws are being loosened – it is removed together with the filters. The grille sensor additionally switches off UV-C and the fan automatically when the grille is removed; it does not replace unplugging the mains plug.

1. Switch off the device with the remote control and unplug the mains plug. Make sure that the work area is sufficiently lit.
2. Have the new filters ready and unpack them carefully; keep the packaging for the old filters.

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3. Loosen the fixing screws at the edge of the intake grille while the second person holds the grille (Fig. 3). Put the screws down in a safe place.
4. Lower the intake grille with the filters lying on it horizontally (Fig. 4).
5. Remove the used filters: first pull out the HEPA H14 main filter (top layer, dark in the illustration) sideways, then remove the HEPA 10 pre-filter (green in the illustration) and, if fitted, the activated carbon filter from the grille (Figs. 5 and 6). Make sure that no dust falls out; immediately pack the old filters in the packaging of the new filters.
6. Place the new filters on the grille from bottom to top: **1.** activated carbon filter (only if fitted), **2.** HEPA 10 pre-filter, **3.** HEPA H14 main filter (Fig. 6a). If an airflow direction is indicated on the filter frame, observe it (air flows from bottom to top). The filters must seal tightly all round.
7. Raise the intake grille with the filters, align it and fasten it with all screws (Fig. 7).
8. Check the suspension: is the device still firmly attached and level?
9. Plug the mains plug back in and switch on the device. Open the app and scan the QR code supplied with the new filters – this resets the filter counter.
10. Dispose of the used filters properly (see below).

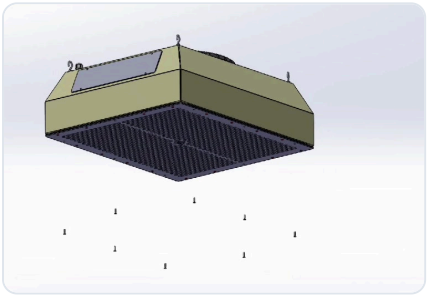

Fig. 3 – Loosen the screws of the intake grille

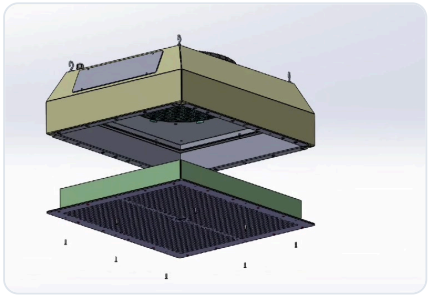

Fig. 4 – Lower the grille with the HEPA 10 pre-filter

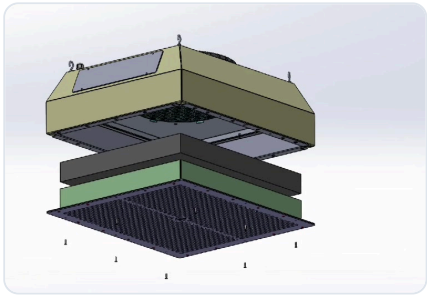

Fig. 5 – HEPA H14 (dark) above HEPA 10 (green)

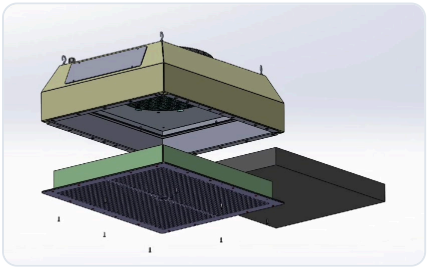

Fig. 6 – Remove or insert HEPA H14 sideways

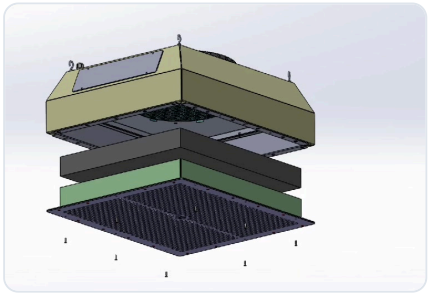

Fig. 6a – Order from the bottom: HEPA 10, HEPA H14

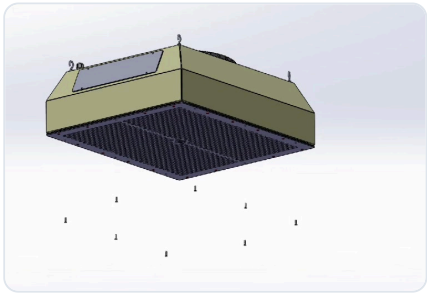

Fig. 7 – Raise the grille and screw it tight

A video of the filter replacement is available at www.dp-purifier.com/en/dp-industrial/.

Disposal of the filters

New, unused filters can be disposed of with commercial waste. For filters that have been exposed to special loads, the operator must determine the pollutant load and ensure disposal in accordance with local regulations.

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Troubleshooting

Problem	Check / remedy
Device cannot be switched on	Is the mains plug inserted correctly? Is the socket outlet live (test with another device) and is the fuse or circuit breaker of the installation switched on? Has the integrated 6 A circuit breaker tripped? Is the filter completely saturated (shown in the app)? If the fault persists, have the socket outlet and the device checked by an electrician or contact the manufacturer.
Intake grille after filter replacement	Are all screws inserted and does the grille sit flush all round?
No connection to the app	Hotspot mode: is “DP Lamp” shown in the Wi-Fi list? LAN mode: is the 2.4 GHz network available and are devices allowed to communicate with each other? Reconfigure the Wi-Fi if necessary (chapter 3).
Remote control does not respond	Check the battery; if necessary, pair the remote control with the device again.
Unusual noise or vibration	Switch off the device and check the suspension and the grille screws. If the noise persists, contact the manufacturer.
Noticeably reduced air output	Check the filter condition in the app, replace the filters, check the intake grille and the air outlet for dirt or obstruction.

Repairs

The device contains no user-serviceable parts. Contact the manufacturer for all repairs.

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6 Transport, storage, uninstallation, disposal

Transport and storage

Transport and store the device in its original packaging, in a dry place and protected from wetness. Before storage, the filters must be dry so that no moisture, mould or odours develop.

Uninstallation

1. If the device is connected to a Wi-Fi network: disconnect it in the app.
2. Switch off the device and unplug the mains plug.
3. Remove the filters and pack them airtight (chapter 5) so that no retained particles escape during transport.
4. Detach the mains cable from the rods.
5. With two people, detach the device from the rods and remove it, then dismantle the rods and the ceiling plate.
6. Pack the device securely, preferably in its original packaging.

Disposal

The manufacturer takes back devices that are no longer needed for recycling and proper disposal (see “Manufacturer and service contact”, page 1). If you dispose of the device yourself, observe the locally applicable regulations for waste electrical equipment. In accordance with EU Directive 2012/19/EU (WEEE), the device must not be disposed of with household waste.

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7 Technical data

Airflow and filtration	
Maximum airflow	1,500 m³/h (technical maximum)
Operating airflow (continuous operation)	800 m³/h standard · up to 1,200 m³/h (higher setting)
Recommended air change rate	3/h (schools: 4/h) · approx. 267 m³ at 800 m³/h and 3/h
Air distribution	360°, ceiling-mounted
Standard filter configuration	HEPA 10 (pre-filter) + HEPA H14 (main filter)
Order (from bottom to top)	Activated carbon filter (optional) → HEPA 10 → HEPA H14
Main filter class	H14 – ≥ 99.995 % at MPPS according to EN 1822
Filter life (guide value)	approx. 4,200 operating hours; remaining filter life shown in the app
Filter replacement in practice	HEPA 10 approx. every 6 months · HEPA H14 after approx. 15–17 months (continuous operation; depends on operating hours, air pollution and operating conditions)
Filter alert	in the app at 80 % depletion
UV-C	4 encapsulated UV-C LED modules, can be switched on/off via app
Grille sensor	automatically switches off UV-C and the fan when the intake grille is removed
Dimensions and housing	
Length × width × height	640 × 540 × 227 mm
Weight	20 kg
Housing	Aluminium, 2 mm
Colour	Standard version; custom RAL colour on request
Mounting	Suspended installation with mounting kit; distance from the ceiling usually approx. 20–25 cm (depending on the room height)
Electrical data and acoustics	
Power supply	220–240 V / 50 Hz
Connection	Mains cable with plug; socket outlet with protective earth conductor required

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Protection	Integrated 6 A miniature circuit breaker
Power supply unit	Mean Well XLG-150-24-A (AC/DC)
Fan speed	variable, via remote control and app
Noise level	depending on project and fan speed
Acoustic standard	VDI-EE 4300 Part 14
Control and connectivity	
Wi-Fi	IEEE 802.11b/g/n, 2.4 GHz
Network modes	Hotspot + LAN
LED lighting	integrated; on/off, light colour and brightness via app
App	“dp Air Purifier Lamp” for Android and iOS: air quality index, filter life, schedule, manual/automatic mode, UV-C switch, LED control
Remote control	included in the scope of delivery
BMS integration	on request
General	
Warranty	2-year manufacturer’s warranty on parts and labour

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8 Warranty, service and privacy

Warranty and service

Every dp Industrial comes with a 2-year manufacturer’s warranty on parts and labour. For businesses, the manufacturer also offers priority service, annual maintenance contracts and support for installations with several devices. Replacement filters, activated carbon filters and mounting accessories are available directly from the manufacturer.

Please have the QR code or character string of your device ready for service enquiries.

Privacy

When you use the “dp Air Purifier Lamp” app and link it to the device, the data required to provide the app services is processed (e.g. device ID, QR code, software version, IP address, details of the mobile device). The full privacy policy is available at www.dp-purifier.com.

> **Questions about planning or installation?**
> Phone / WhatsApp +49 176 31701113 · sales@dp-purifier.com · www.dp-purifier.com

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