DUST & POLLUTION
PURIFIER

PRODUCT CATALOGUE 2026

Clean air. From above.

Ceiling-mounted air purifiers with HEPA H14 filtration, 360° air distribution and integrated LED lighting.

dp Pro · dp Industrial



HEPA H14 · ≥ 99.995% at MPPS (EN 1822)

Airflow simulation TU Berlin / HRI (2021)

Designed & developed in Germany

INDOOR AIR

We breathe where we learn, work and live.

Much of everyday life takes place indoors – in offices, classrooms, practices and at home. That makes the quality of the air we breathe there all the more important.

Indoor air can contain fine dust, pollen, mould spores and other aerosols, as well as odours and volatile organic compounds (VOCs). In closed or poorly ventilated rooms these substances accumulate – especially when many people share the space.

Regular ventilation remains important. An air purifier complements it by filtering the room air continuously – even when the windows stay closed, for example because of cold, noise or pollen.

How small is “fine”?

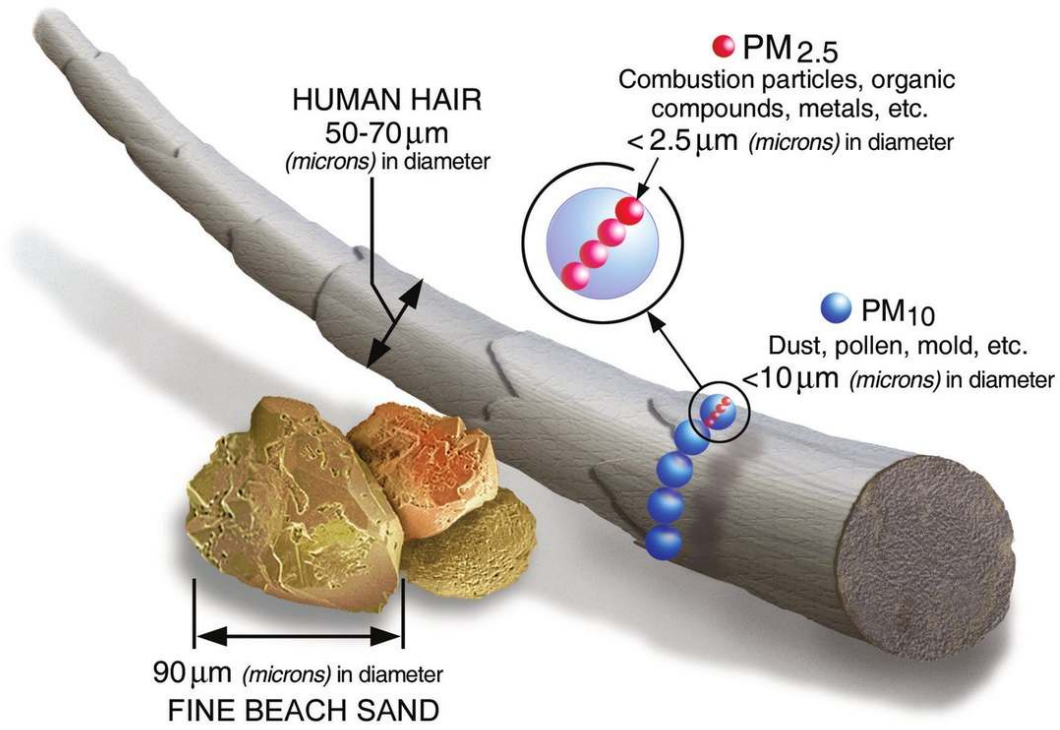


Image: U.S. EPA

dp with HEPA H14: the filter retains ≥ 99.995% of particles at MPPS (most penetrating particle size, approx. 0.1–0.3 µm; EN 1822) – including particles much smaller than PM2.5.

THE AIR WE BREATHE

Did you know that an adult breathes in around 12,000 litres of air every day?

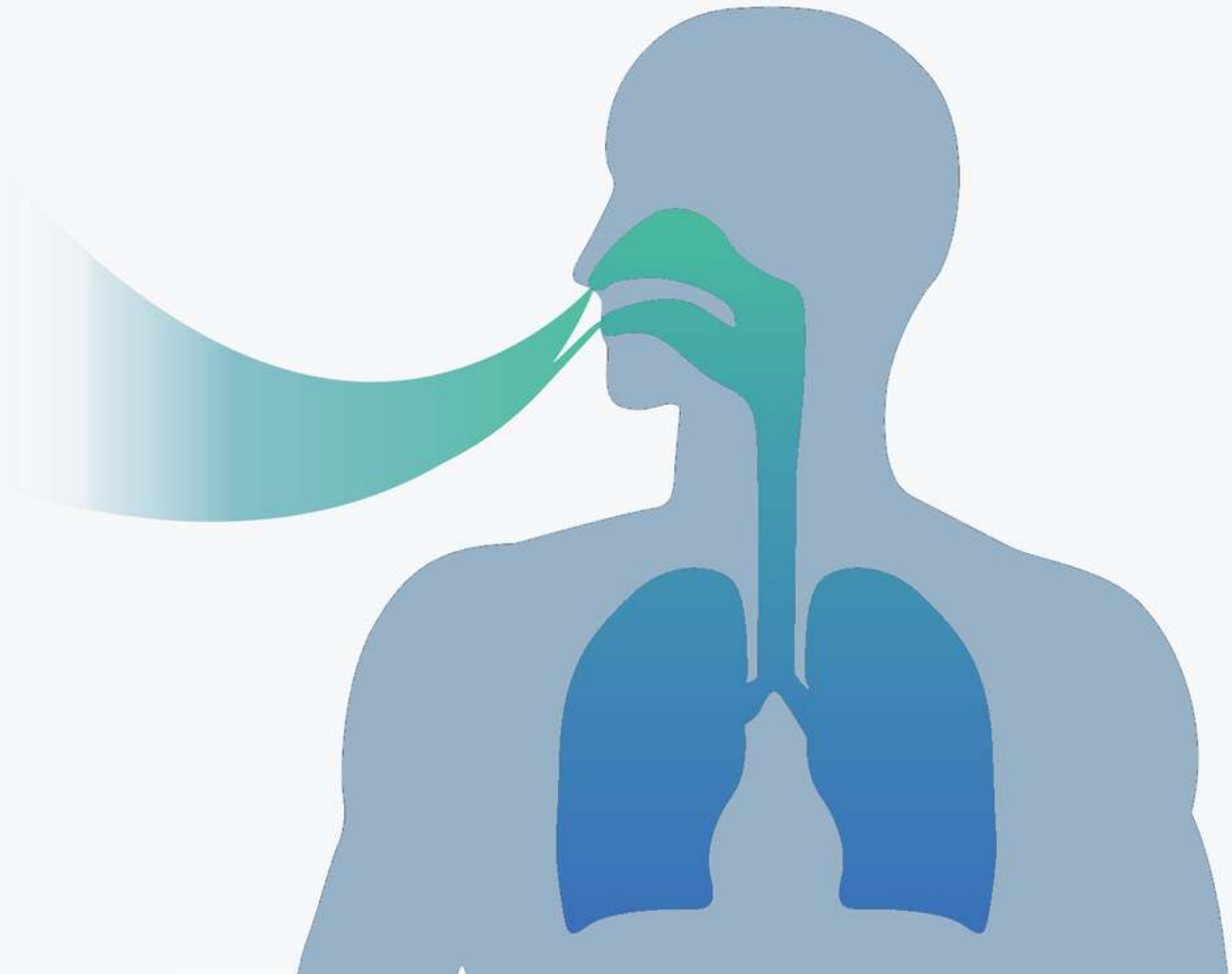
24 h = 12,000 L

Since we spend most of the day indoors, it is worth taking a closer look at the air we breathe there.

≈ 500 L
per hour

≈ 8 L
per minute

Guide value for adults; the actual volume depends on body size and activity.





DUST & POLLUTION
PURIFIER

ABOUT DP

Air purifier and light in one.

dp stands for Dust & Pollution. The idea behind it: air purification belongs where it does not get in the way – on the ceiling.

Our units are designed and developed in Germany. They draw in room air above the occupied zone, filter it with HEPA H10 and HEPA H14 and return it to the room through 360°. The dp Pro is also a dimmable LED pendant light – a unit that is planned, installed and operated like a luminaire.

No unit on the floor, no cable in the way, no moving things around: air purification works quietly in the background while the room stays free.

On the ceiling
no floor space, nothing in the way

Light included
dp Pro with three LED zones

Smart control
app, schedule, remote control

Designed & developed in Germany

2017
Research into room airflow and filtration begins

2019–20
Development of the ceiling units

2021
Airflow simulation by TU Berlin / HRI · CE marking

Today
dp Pro and dp Industrial in schools, nurseries, offices, hospitality, clinics and industry

AT A GLANCE

The essentials in brief.

Two models, one principle: draw in air above the occupied zone, filter it in several stages and distribute it evenly across the ceiling.



HEPA H10 + H14

Two-stage filtration, filter classes per EN 1822

≥ 99.995%

H14 filter efficiency at MPPS

360°

Air distribution from the ceiling into the room

550 / 1,500

m^3/h max. airflow – dp Pro / dp Industrial

Enclosed UV-C

4 enclosed LED modules irradiate the filter surface

3 LED zones

2,700–6,000 K, 1,410 lm, dimmable (dp Pro)

App & Wi-Fi

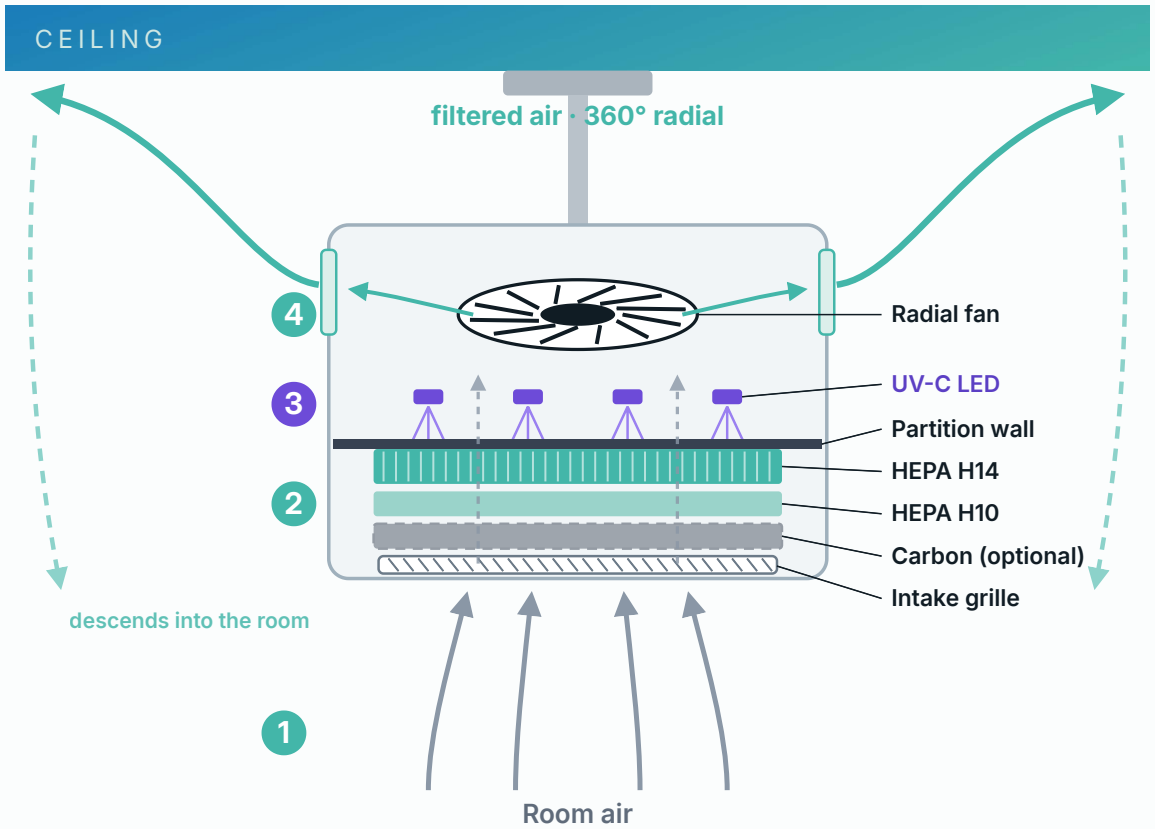
Android & iOS: air quality, schedule, filter status

2-year warranty

CE marked

HOW DP WORKS

Draw in, filter, distribute.



1 Intake

Room air is drawn in through the intake grille on the underside – above the occupied zone and without taking up floor space.

2 Filtration

Air flows from bottom to top: first the optional activated carbon (odours, VOCs), then the HEPA H10 pre-filter for coarser particles and the HEPA H14 filter for fine particles with ≥ 99.995% at MPPS (EN 1822). The filters are sealed into the partition wall.

3 UV-C on the filter surface

Above the partition wall, four enclosed UV-C LED modules irradiate the filter surface inside the sealed housing and support hygienic operation inside the unit. People are not exposed; switchable via the app.

4 Radial fan · 360° distribution

The radial fan draws in the filtered air and blows it out radially through the side openings at the top of the housing. It flows along the ceiling, descends into the room and displaces the used air – for even air cleaning, including at breathing height.

FILTRATION

Filtered in stages.

Order from bottom to top: optional activated carbon, HEPA H10 pre-filter, HEPA H14 main filter – sealed into the partition wall. Above it, UV-C irradiates the filter surface, followed by the radial fan.

Filter life dp Pro: approx. 2,200 operating hours, dp Industrial: approx. 4,200 operating hours. The app signals a filter change at 80% exhaustion.



HEPA filter cassettes of the dp Pro

STAGE 1 · OPTIONAL

Activated carbon

Binds volatile organic compounds (VOCs) and odours – useful e.g. in restaurants, pharmacies and salons.

STAGE 2

HEPA H10

Pre-filter per EN 1822. Retains coarser particles and dust and relieves the main filter.

STAGE 3

HEPA H14

Main filter with ≥ 99.995% efficiency at MPPS per EN 1822 – retains e.g. fine dust, pollen and mould spores.

ENCLOSED

UV-C LED

4 enclosed modules irradiate the filter surface inside the sealed housing. No exposure of people or of the room air.

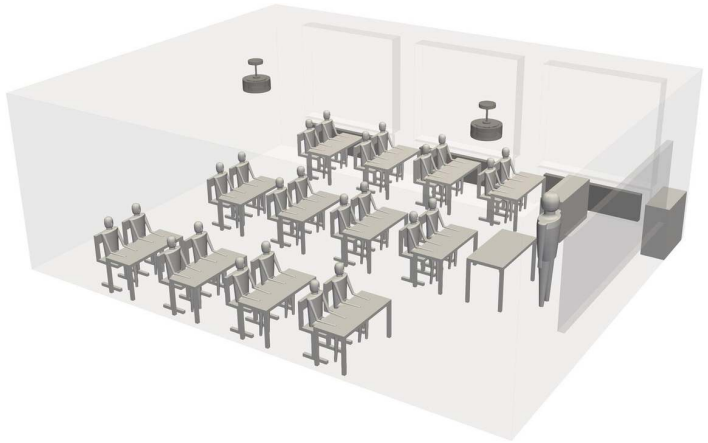
Note: ≥ 99.995% describes the efficiency of the H14 filter (filter level) at MPPS per EN 1822 – not the cleaning efficiency of the entire room air.

AIRFLOW SIMULATION · TU BERLIN / HRI

How does purified air spread through a classroom?

In 2021 the Hermann-Rietschel-Institut (HRI) at TU Berlin used a comparative CFD airflow simulation to analyse how purified air spreads through a classroom: two ceiling-mounted dp units (then called “dp Purifier Lamp”) compared with one mobile floor-standing air purifier – each with the same total airflow.

- Classroom
  60 m², ceiling height 3.0 m
- Occupancy
  24 pupils + 1 teacher
- Boundary conditions
  Heat load 2,500 W, surfaces 20 °C
- Total recirculation airflow
  760 and 1,000 m³/h
- Assumptions
  Source evenly distributed, ideal airborne particles, separation efficiency 100%

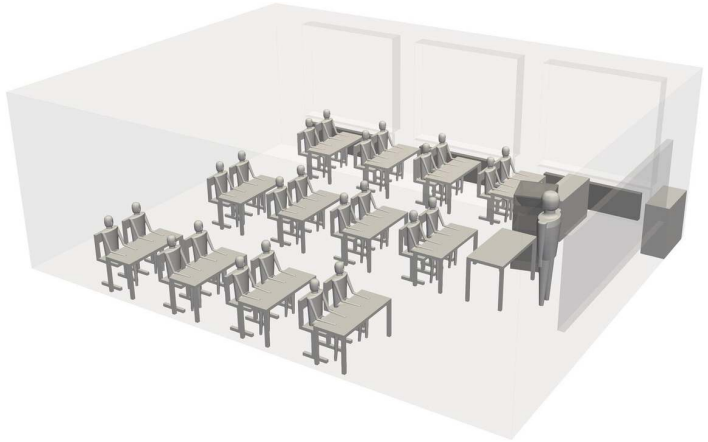


2 × dp on the ceiling

380 or 500 m³/h each

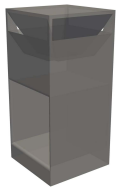


Geometry model of the dp ceiling unit



1 × mobile air purifier on the floor

760 or 1,000 m³/h



Geometry model of the mobile reference unit

Source: short report “Classroom Air Purifier – DP Purifier Lamp and Mobile Air Purifier”, HRI, TU Berlin, 17 Aug 2021. Figures from the short report. Simulation study – not a certification or product test.

RESULT I · AIR PURIFICATION LEVEL

More even at breathing height.

The figures show the simulated air purification level at a total airflow of 760 m³/h – at 1.0 m (breathing height of seated pupils) and at 1.6 m (breathing height of the teacher).

With the two ceiling units the picture is largely homogeneous. With the mobile unit the effect is good close to the device and decreases with distance, resulting in larger differences across the room.

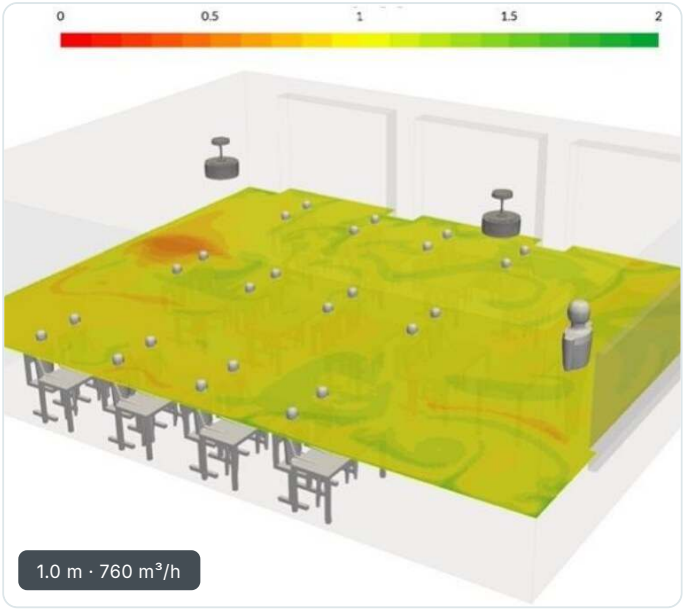
Colour scale air purification level

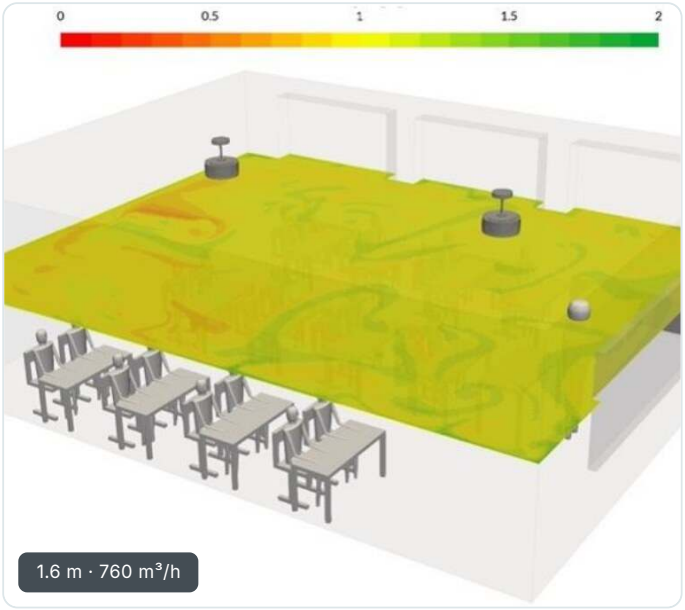
0 0.5 1 1.5 2

0 = no effective air purification (undersupplied) · 1 = as with ideal mixed ventilation · 1.5 = 50% higher effect than the design air change

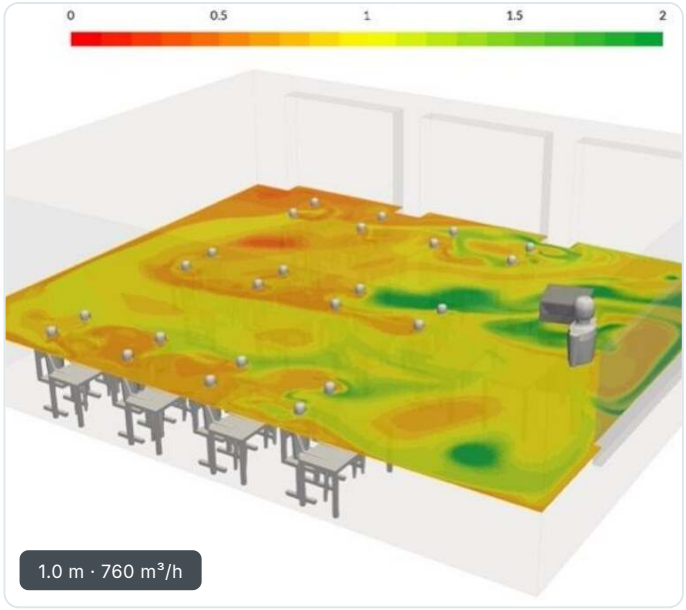
Figures: HRI, TU Berlin, short report of 17 Aug 2021 (excerpts). Results apply to the simulated conditions.

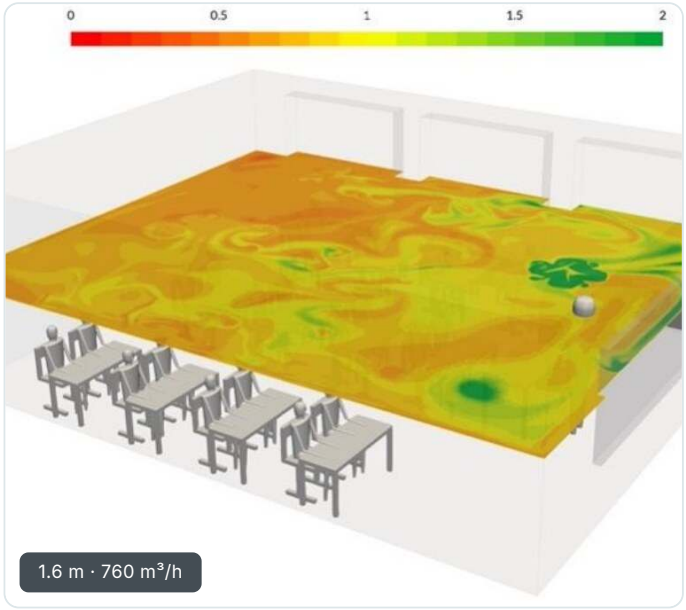
2 × dp on the ceiling



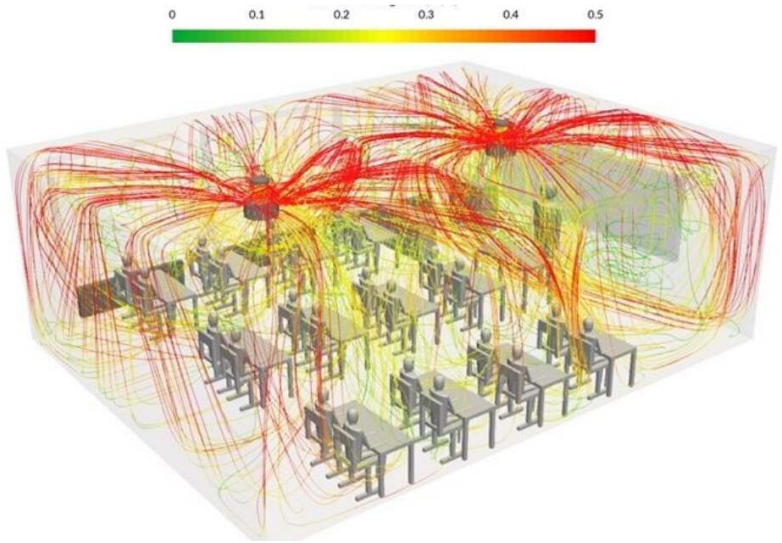


1 × mobile air purifier

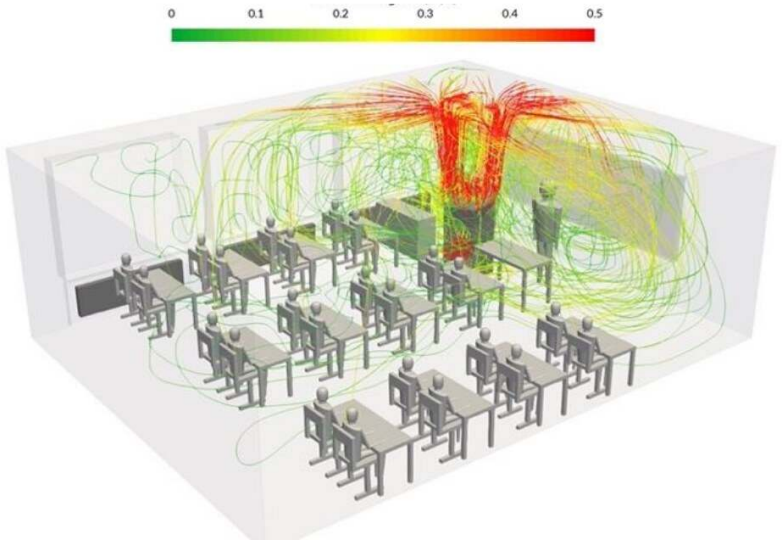




2 × dp on the ceiling · streamlines, 1,000 m³/h



1 × mobile air purifier · streamlines, 1,000 m³/h



RESULT II · AIRFLOW AND CONCLUSION

Good mixing from above.

The streamlines show how the ceiling units distribute the purified air across the ceiling into the whole room. With the mobile unit the effect is more concentrated around the device. (Colour scale: air velocity 0–0.5 m/s, green = slow, red = fast.)

Conclusion of the short report

DP CEILING UNITS

- more homogeneous air cleaning in the occupied zone
- higher average purification level at breathing height
- no obstruction of space by the installation location

MOBILE AIR PURIFIER

- lower risk of draughts
- locally large differences in purification effect

Context: there is a trade-off between high air purification and low air velocity. Airflow, number of units and position are therefore planned for each room – for higher demand, several units rather than one unit at maximum speed. The simulation is a comparative airflow analysis under idealised assumptions; it is not a certification and not a laboratory product test.

Authors: Dr.-Ing. Stefan Brandt, Dipl.-Ing. Eugen Lichtner · Hermann-Rietschel-Institut, TU Berlin
under the supervision of Prof. Dr. Martin Kriegel · short report dated 17 Aug 2021

COMPARISON

Ceiling instead of floor.

dp on the ceiling

- Draws in room air above the occupied zone
- Distributes filtered air through 360° along the ceiling
- In the TU simulation: more even air cleaning at breathing height
- No floor space, no cable on the floor, no repositioning
- Air purifier and light in one unit (dp Pro)

Floor-standing unit

- Often works most strongly near the device
- In the TU simulation: larger local differences across the room
- In the TU simulation: lower risk of draughts
- Needs floor space and can be moved or blocked
- Larger rooms often need several units

> **The goal is not just clean air next to the device, but cleaner air where people actually breathe.**



Qualitative comparison based on the TU Berlin / HRI airflow simulation (2021) with one mobile air purifier. Not a test of specific third-party products.

MODEL 1 · DP PRO

dp Pro

Ceiling air purifier with integrated LED lighting

The dp Pro combines HEPA H10/H14 filtration, an enclosed UV-C stage, 360° air distribution, app control and dimmable three-zone LED lighting in one ceiling-mounted unit. It is made for rooms where clean air, good light and free floor space matter – from living areas and offices to classrooms, practices, pharmacies and hotels.

550 m³/h
max. airflow

≥ 99.995%
H14 efficiency at MPPS (EN 1822)

approx. 183 m³
room volume at 3 air changes/h

≤ 55 m²
living areas up to approx. 55 m²*

1,410 lm
LED, 3 zones, 2,700–6,000 K

11 kg
Ø 445 mm × H 227 mm



IDEAL FOR

Offices · Classrooms & nurseries · Practices · Pharmacies · Hotels · Hospitality · Living areas

* depending on ceiling height, use and target air change rate



dp Pro in polar white

DP PRO · DESIGN & DIMENSIONS

Planned like a luminaire.

The dp Pro is mounted on the ceiling like a pendant light: ceiling bracket with rod and canopy, mains connection 220–240 V. The housing is injection-moulded ABS (4 mm); the standard colour is polar white.

Polar white
Standard

Black
on request

Custom colours
on request

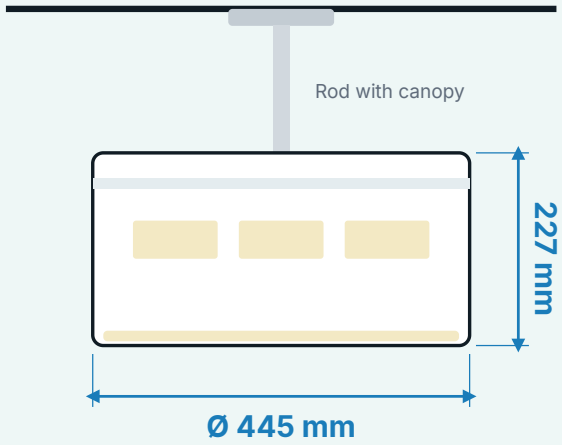


Top with 360° air outlet



Underside with intake grille and light ring

Dimensions

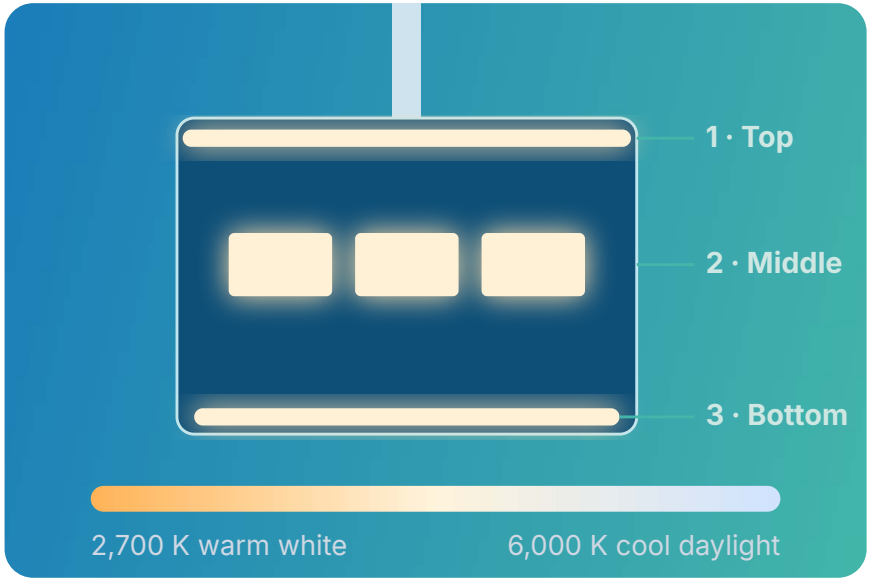


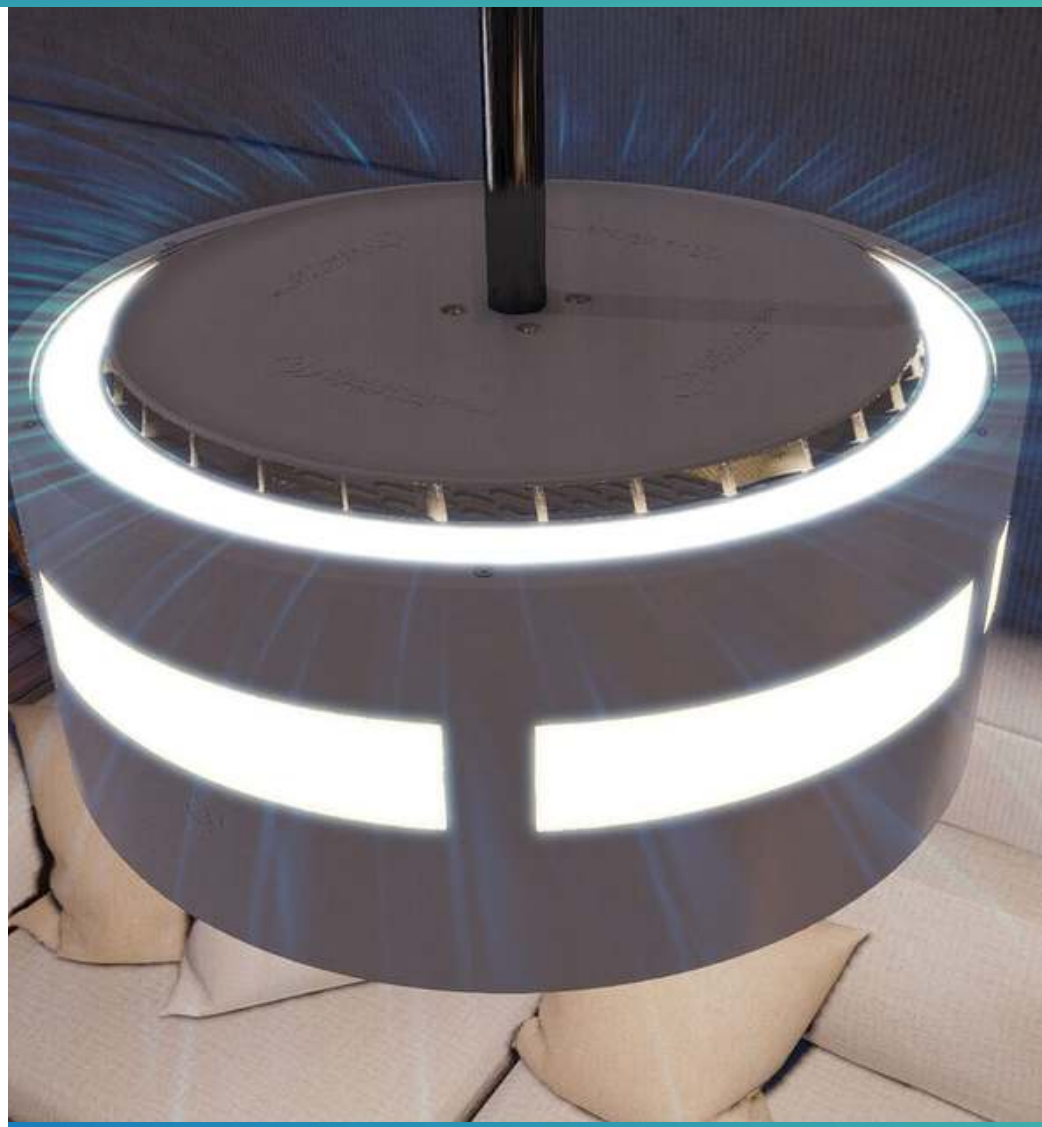
11 kg · polar white

DP PRO · LIGHTING

Light in three zones.

Three independently controllable LED zones – top, middle, bottom – make the dp Pro a full room light. Colour temperature and brightness are adjusted steplessly via the app: from warm white light for living areas and hotels to cool daylight white for offices and classrooms.





3 × 14 W
three LED zones, independently switchable

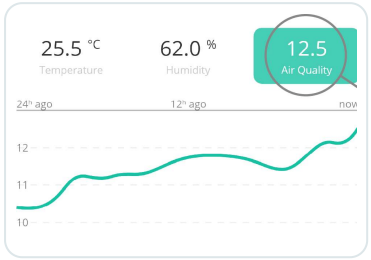
1,410 lm
total luminous flux, dimmable

2,700–6,000 K
colour temperature, stepless

APP CONTROL

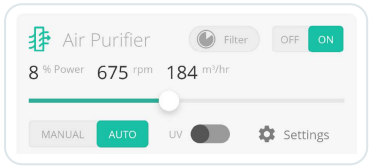
Everything in view – via the app.

The dp app for Android and iOS connects to the unit via Wi-Fi and shows all values live – here the main view of a room.



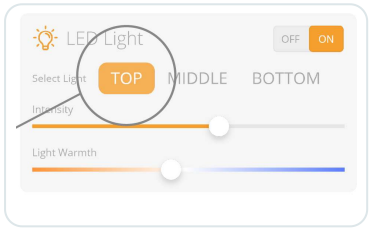
1 Live air quality

Temperature, humidity and air quality index at a glance, plus a trend chart over 24 hours.



2 Fan: manual or auto

Power in %, speed and airflow in m³/h are displayed (example: 8% · 675 rpm · 184 m³/h). UV-C via switch.



3 LED zones

Select top, middle and bottom individually; adjust brightness (intensity) and light warmth steplessly.







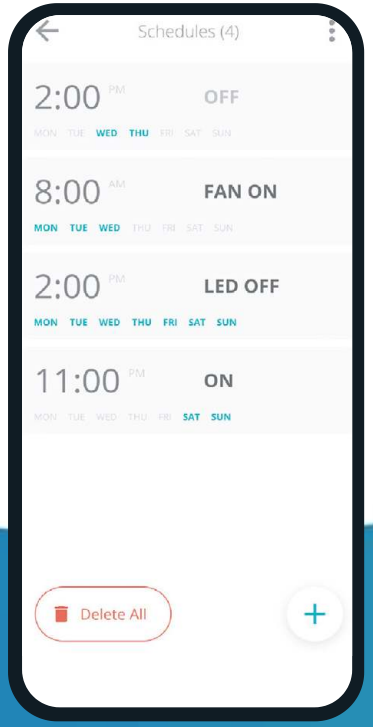
Three LED zones – individually controlled via the app
2,700–6,000 K · 1,410 lm · dimmable (dp Pro)

APP CONTROL

Schedule, check, set up.

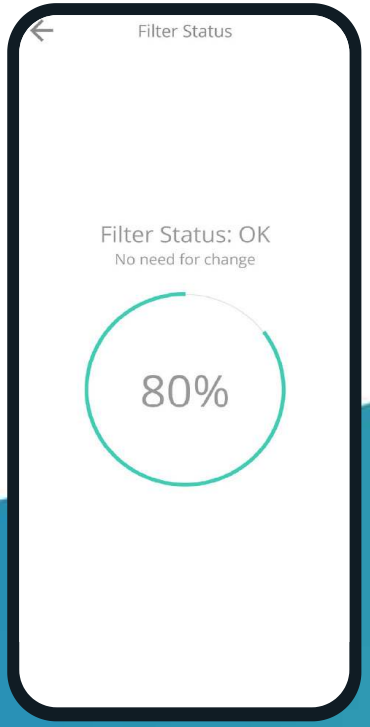
4 Schedule

Automatic on/off times – separately for fan and LED, repeatable by weekday.



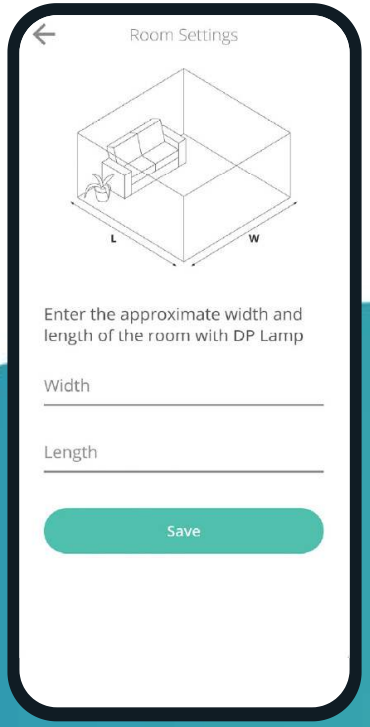
5 Filter status

Filter condition in percent at a glance (example: 80%); the app signals a change at 80% exhaustion.



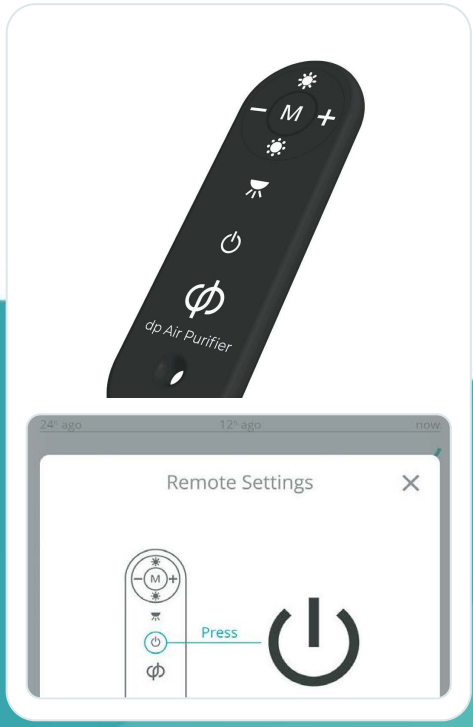
6 Room setup

Enter the width and length of the room – the app calculates the fan speed for approx. 3 air changes per hour.



7 Remote control

Included in the delivery. It is paired in the app under “Remote Settings” at the press of a button.



Android & iOS · Wi-Fi 2.4 GHz · 802.11b/g/n · Hotspot + LAN · Remote control included

DP PRO · TECHNICAL DATA

dp Pro technical data

AIR & FILTRATION

Max. airflow	up to 550 m³/h
Operating airflow	550 m³/h
Recommended air change	approx. 3 × per hour
Room volume at 3 ACH	approx. 183 m³
Room size	living areas up to approx. 55 m²*
Filters (standard)	HEPA H10 (pre-filter) + HEPA H14
Optional filter	Activated carbon
H14 efficiency	≥ 99.995% at MPPS (EN 1822)
Filter life	approx. 2,200 operating hours
Filter alarm	in the app at 80% exhaustion
UV-C	4 enclosed UV-C LED modules irradiating the filter surface; switchable via app
Air distribution	360°, ceiling-mounted
Fan speed	variable, via app
Sound pressure level	40–65 dB

LIGHTING

LED zones	3 (top, middle, bottom), independently controllable
LED power	3 × 14 W
Colour temperature / flux	2,700–6,000 K stepless · 1,410 lm, dimmable

ELECTRICAL & CONTROL

Voltage	220–240 V / 50–60 Hz
Power supply	Mean Well XLG-150-24-A (24 V DC)
Power consumption	min. 5 W / max. 120 W (motor max. 85 W + 3 × 14 W LED)
App / Wi-Fi	Android & iOS · 802.11b/g/n, 2.4 GHz · hotspot + LAN
Remote control	included

MECHANICAL & GENERAL

Dimensions / weight	Ø 445 mm × H 227 mm · 11 kg
Housing / colour	injection-moulded ABS, 4 mm · polar white
Mounting	ceiling bracket with rod and canopy
Marking / warranty	CE marked · 2 years
Scope of delivery	unit, HEPA H10 and H14 filters, remote control, power supply, ceiling mounting kit, manual

* depending on ceiling height, use and target air change rate. Specifications subject to change.



dp Industrial in a nursery group room

MODEL 2 · DP INDUSTRIAL

dp Industrial

High airflow for large rooms

The dp Industrial is the high-capacity ceiling unit for large and busy rooms: robust 2 mm aluminium housing, HEPA H10/H14 filtration, optional activated carbon and an enclosed UV-C stage. Continuous operation is designed for 800 m³/h, with up to 1,500 m³/h available when needed.

1,500 m³/h
max. airflow

800 m³/h
operating airflow (continuous)

approx. 267 m³
room volume at 3 ACH (800 m³/h)

≥ 99.995%
H14 efficiency at MPPS (EN 1822)

20 kg
aluminium, 2 mm

approx. 4,200 h
H14 filter life





Clinic

Open-plan offices · Schools & nurseries · Clinics & practices · Pharmacies · Hospitality · Industry

DP INDUSTRIAL · TECHNICAL DATA

dp Industrial technical data

AIR & FILTRATION

Max. airflow	1,500 m³/h
Operating airflow	800 m³/h (continuous operation)
Recommended air change	approx. 3 × per hour
Room volume at 3 ACH	approx. 267 m³ (at 800 m³/h)
Filters (standard)	HEPA H10 (pre-filter) + HEPA H14
Optional filter	Activated carbon
H14 efficiency	≥ 99.995% at MPPS (EN 1822)
H14 filter life	approx. 4,200 operating hours
Filter alarm	in the app at 80% exhaustion
UV-C	4 enclosed UV-C LED modules irradiating the filter surface
Sound pressure level	depends on fan speed and project

ELECTRICAL & CONTROL

Voltage	220–240 V / 50 Hz
Power consumption	max. 150 W
Protection	integrated 6 A circuit breaker
Power supply	Mean Well XLG-150-24-A
App / Wi-Fi	Android & iOS · 802.11b/g/n, 2.4 GHz
Building management (BMS)	integration on request

MECHANICAL & GENERAL

Dimensions (L × W)	640 × 540 mm
Weight	20 kg
Housing	aluminium, 2 mm
Colour	standard finish; custom RAL colours on request
Marking / warranty	CE marked · 2 years



Specifications subject to change.

MODEL COMPARISON

dp Pro or dp Industrial?

	dp Pro	dp Industrial
Design	pendant light with air purifier	ceiling unit, aluminium housing
Max. airflow	550 m³/h	1,500 m³/h
Operating airflow	550 m³/h	800 m³/h
Room volume at 3 ACH	approx. 183 m³	approx. 267 m³
Filters	HEPA H10 + H14, optional activated carbon	HEPA H10 + H14, optional activated carbon
H14 efficiency	≥ 99.995% (MPPS)	≥ 99.995% (MPPS)
Filter life	approx. 2,200 h	approx. 4,200 h (H14)
UV-C	4 enclosed LED modules	4 enclosed LED modules
LED lighting	3 zones, 2,700–6,000 K, 1,410 lm	–
Dimensions	Ø 445 × H 227 mm	640 × 540 mm
Weight	11 kg	20 kg
Power consumption	5–120 W	max. 150 W
Price	from €790 excl. VAT	from €1,390 excl. VAT

Rule of thumb for planning

Required airflow ≈ room volume × 3 (recommended air changes per hour).

Example classroom
60 m² × 3.0 m = 180 m³
180 m³ × 3 = 540 m³/h → 1 × dp Pro (550 m³/h)

For even distribution and low air velocities, several units at a lower speed can make sense – the TU simulation considered two units for 60 m².

In short

dp Pro – rooms up to approx. 183 m³ where light and design matter.
dp Industrial – large rooms, high occupancy, continuous operation.

APPLICATIONS

Made for many kinds of rooms.

Model choice and number of units depend on room volume, occupancy and target air change rate.

Offices & meeting rooms

Discreet ceiling units without floor space, controlled by app and schedule – light included (dp Pro).

Schools & nurseries

A fixed place on the ceiling: nothing in the way, nothing moved around. Filters fine dust, pollen and dust from the room air.

Practices & clinics

Lowers the particle load in treatment, waiting and reception areas in continuous ceiling-mounted operation.

Pharmacies

HEPA H14 for fine particles in the sales area; optional activated carbon binds odours and VOCs.

Hotels

Rooms, lobby and conference rooms: air purification and lighting in one unit, warm to daylight white.

Restaurants & cafés

Filters smoke and fine particles; optional activated carbon for cooking and food odours.

Beauty & hair salons

Optional activated carbon binds odours and VOCs from dyes, varnishes and cleaning agents.

Gyms

Many people, lots of movement: 360° air distribution from the ceiling into the training area.

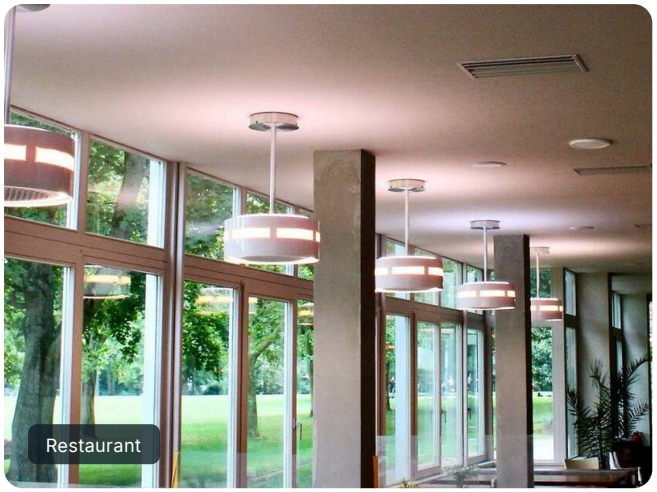
Industry & production

dp Industrial with aluminium housing and up to 1,500 m³/h – proven in 24/7 operation (Budenheim reference).

IN USE

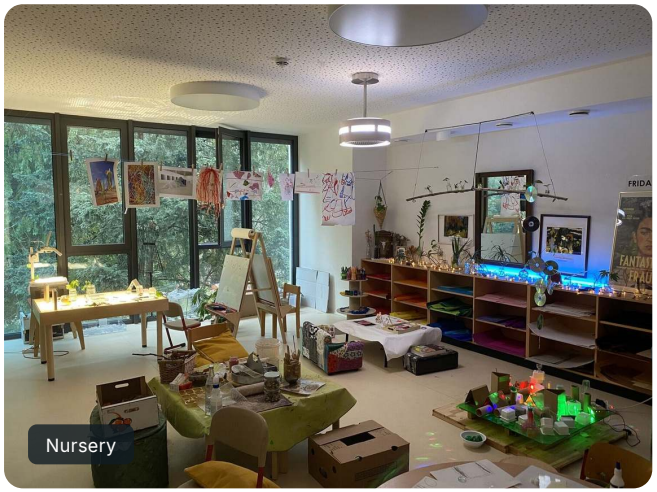
dp in everyday use.

Installations in Germany, Saudi Arabia, the UAE, India and Iran – in schools, nurseries, offices, hospitality, clinics and industry.


Restaurant


Office


Classroom


Nursery


Clinic · dp Industrial


Industry

REFERENCE · INDUSTRY

Chemische Fabrik Budenheim

At the Chemische Fabrik Budenheim production site (Rhineland-Palatinate), dp units have been running 24/7 since 2021.

For us, strong practical evidence of robustness and reliability: continuous round-the-clock operation in an industrial environment over several years.

24/7
continuous operation

since 2021
in service

CUSTOMERS AND REFERENCES (SELECTION)

- Chemische Fabrik Budenheim
- DB Systemtechnik
- German International School Riyadh
- ISF International School Frankfurt Rhein-Main
- Obermayr
- vivo

Installations in Germany · Saudi Arabia · UAE · India · Iran

Names shown with the customers' approval. Reference letters, including from DB Systemtechnik and the German International School Riyadh, are available.

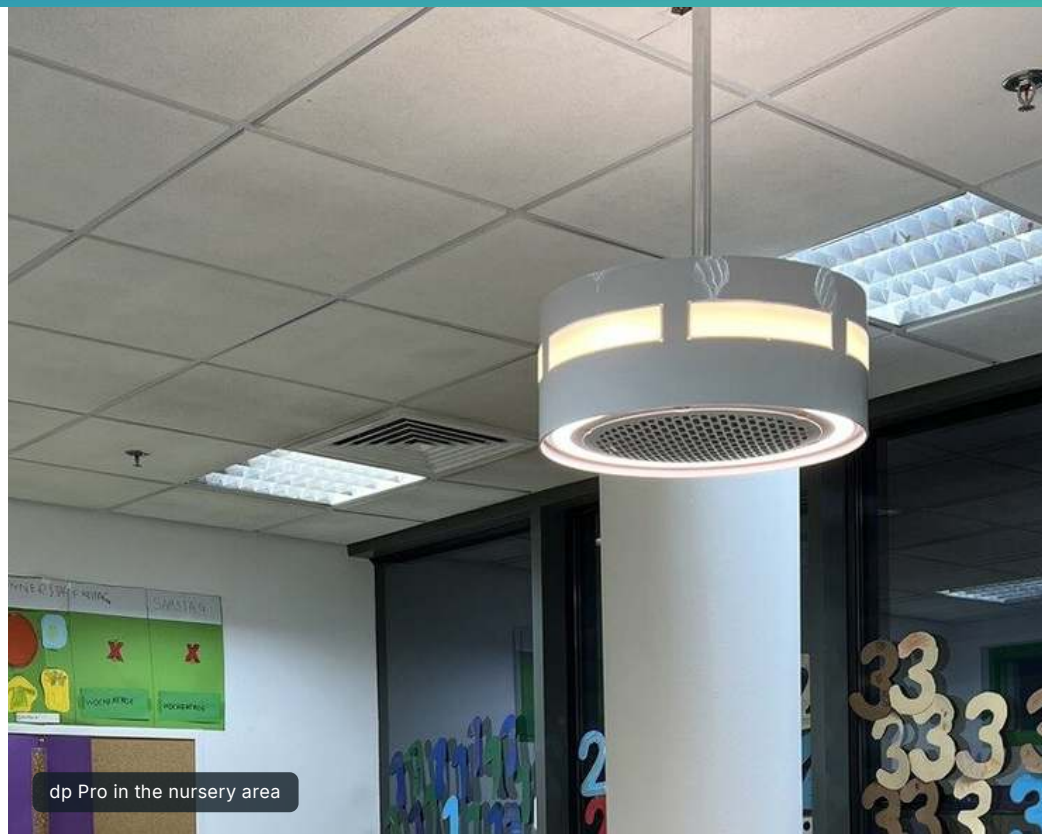
REFERENCE · SCHOOL

German International School Riyadh

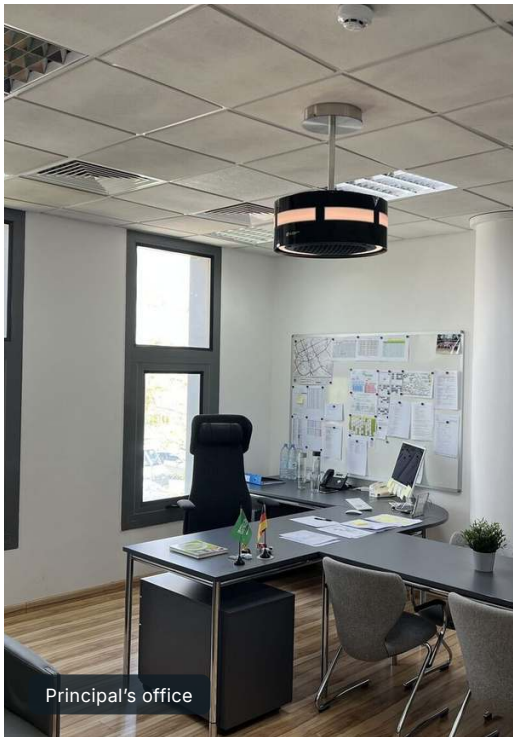
At the German International School Riyadh (Saudi Arabia), dp units are installed in the nursery area and in the principal’s office. The school documented its experience in reference letters (2025 and 2026).

- Riyadh, Saudi Arabia
- Nursery area and principal’s office
- dp Pro · dp Industrial

> **“Noticeably fresher and cleaner air and a more pleasant indoor climate.”**
>
> From the reference letter of the German International School Riyadh



dp Pro in the nursery area



Principal’s office



dp Industrial



dp Industrial in an operating room (field installation)

REFERENCE · HOSPITALS

Field measurements in hospitals.

dp units are installed in hospitals in India and Iran, where measurements were taken and documented under real operating conditions:

98.2%

fewer particles (0.5 µm)

Masih Daneshvari Hospital (NRITLD), Tehran · 2023
dp Industrial, measured over 3 weeks of operation

42%

fewer particles (0.3 µm) in 20–26 min

Saroj Hospital, New Delhi · 2025
field measurement, particle size 0.3 µm

99.967%

particle reduction in a stress test

Max Hospital, New Delhi
stress test with incense smoke

OR & isolation

airborne bacterial and fungal load

Ayatollah Yathribi Hospital, Kashan · 2023
laboratory analysis of air samples in operating and isolation rooms; significantly reduced colony counts according to the hospital's letter

Field measurements under real operating conditions. The values apply to the respective installation, room situation and measurement method and cannot simply be transferred to other rooms. These are not clinical studies; no health effects can be derived from the measured values.

PRESS

dp in the media.

Offenbach-Post
NEWSPAPER ARTICLE

10 DECEMBER 2021

“Reine Luft kommt von der Decke”

Report on the dp ceiling unit – air purifier and ceiling light in one.
(German title: “Clean air comes from the ceiling”)

TOPICS COVERED

- Air filter and ceiling light in one unit
- Airflow analysis by TU Berlin / Hermann-Rietschel-Institut
- In use e.g. in schools and at Deutsche Bahn

Print edition, Offenbach region

rheinmain TV
TV REPORT

5 JANUARY 2022

Feature in the programme “Im Blick”

TV feature on the dp ceiling unit and its applications.

TOPICS COVERED

- Experience of a customer from a hair salon
- Explanation of the TU Berlin airflow analysis
- A look at the production at the time

Regional TV, Rhine-Main area

> **“The lamps are a good alternative to the large, heavy units.”**
>
> Dr.-Ing. Stefan Brandt, Hermann-Rietschel-Institut, TU Berlin, quoted in the Offenbach-Post on 10 Dec 2021 (translated from German)

PRICES & SERVICES

Transparent pricing.



dp Pro

Price from

€790

excl. VAT



dp Industrial

Price from

€1,390

excl. VAT

All prices net, plus statutory VAT. As of 2026; subject to change. Individual quotations for projects on request.

Delivery & installation in Germany
€199 for the first unit, €99 for each additional unit at the same site (each excl. VAT)

Volume discount
from 5 units – please contact us

Austria & Switzerland
delivery and installation on request

2-year warranty
on dp Pro and dp Industrial

Replacement filters
HEPA H10, HEPA H14 and activated carbon on request

Planning support
number and position of units based on room volume and target air change rate

1 · Enquiry
rooms, size and use

2 · Planning
model, quantity and position

3 · Quotation
transparent, net excl. VAT

4 · Delivery & mounting
service available in Germany

DUST & POLLUTION
PURIFIER

CONTACT

Talk to us about your rooms.

Dust and Pollution Air Purifier Lamp FZC
Business Centre, Sharjah Publishing City Free Zone
Sharjah, United Arab Emirates

+49 176 31701113 · +49 6105 9639681

order@dust-pollution.com

www.dp-purifier.com

www.dp-purifier.com



Designed & developed in Germany

© 2026 Dust and Pollution Air Purifier Lamp FZC. Specifications subject to change.
All information without guarantee. Photos: own installations and product shots; simulation figures: HRI, TU Berlin (2021).