

AiroDoctor

In-duct air purifier system V10P-ID

Manual



Please carefully read this manual before using the product

AiroDoctor In-duct air purifier system V10P-ID



Dear Customer,

thank you for purchasing the AiroDoctor V10P-ID in-duct air purifier system.

In order to facilitate the installation and operation of this product, we recommend to carefully read this manual and store it in a safe place. Use these operating

instructions as a reference for a qualified and standardized installation, proper operation and maintenance.

If any questions arise during operation, please contact our customer service or your local reseller.

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Important safety instructions

For safety reasons and to ensure proper operation of the product, all relevant regulations, rules and instructions must be strictly followed.

Upon receipt, goods must be immediately checked to exclude damages during transportation and ensure that they match the products ordered. Claims may be forfeited if the claim is not made in due time

Storage must be vibration-free, dry and free from temperature fluctuations. Proven damage resulting from transport or storage is not covered by the warranty. Tampering with the goods for any other purpose is not permitted and will invalidate the warranty in any case!



An expert's report by the Charité Institute in Germany recommends AiroDoctor's

technology for use in even very sensitive environments like daycare facilities and schools. Tests show that no harmful by-products are generated by the patented UV-A photocatalytic process.

Features / Overview

In-duct air purifier system V10P-ID is used for cleaning the air flow in small and medium-sized HVAC systems. The fanless UV photocatalytic module is suitable for new installations as well as to retrofit existing HVAC systems.

AiroDoctor air purification principle is based on the photocatalysis effect. The unique filter, internationally patented, certified and tested as highly effective, emits no harmful by-products.



Viruses & Bacteria



Allergens & Fine Dust



Gases & Odors







International expert's reports and certifications confirm the highly effective performance of AiroDoctor's photocatalysis technology.

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Installation / Assembly

Assembly instruction

The proper installation placement of the device is after the filters of the ventilation/ air conditioning (HVAC) unit.

The connections are designed according to DIN 24147 in "nipple dimension", i.e. the connections fit into the existing spiral ducts. The line connections must be made airtight.

- → Assembly can be carried out in any orientation.
- → The flow direction is marked on the device
- → The ControlBox 10P must be accessible and serviceable, not covered or obstructed by other objects, walls, or ceiling.
- → In the vicinity of heating elements, observe ambient temperatures (<50°C).</p>

Pressure loss, power reduction

The resulting pressure drop is 40 Pa.

Assembly and electrical work

The connection to the power line must be carried out by trained personnel, following local regulations, using the RST 16/3 device and the supplied cable.

Preferably, connect the unit to the power supply of the HVAC system to switch the unit ON and OFF simultaneously with the existing system.

The green LED will confirm the correct connection of the device, now in standby mode, ready to use.

To reduce operating costs and extend product life, the device will activate the air purification process automatically and only when the internal sensor detects an air flow (differential air pressure sensor > 20 Pa).

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Status display / control / troubleshooting

Regularly inspect the air duct for external objects that might obstruct or damage the module. Check the device and ensure that the LEDs are properly working.

LED indicator	light	Status		Troubleshooting
green	on	ready for operation	operating voltage is present ✓	-
	off	not ready for operation	no operating voltage	check electrical connection
blue	on	photocatalysis in operation	system running 🗸	-
	off	photocatalysis off	ventilation system off - no air flow	check ventilation system
			air flow too low - unit switched off	check air flow
			operating voltage missing / indicator light green?	check electrical connection
			device error / internal defect	exchange / repair

Checking the photocatalytic unit

Checking is only possible when the unit is switched on.

Green LED (A):

Blue LED (B):

the unit is properly connected to a valid power source (Standby mode).

the device is actively purifying the air (photocatalytic process in progress).



Function control	Display	Operating voltage / load current photocatalysis		Max. deviation
Press and hold the check button (C)	top	voltage	12 V	- + 1.0 V
	down	current	2.2 A	- + 0.6 A
		current (two units)	4.5 A	- + 1.0 A

If the values on the display are significantly different from those in the chart, one or more LEDs are possibly faulty and need to be replaced.

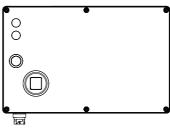
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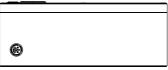


Technical data

Range of use

- → Installation situation:
 - new installation in HVAC systems
 - retrofitting existing HVAC systems
- → Filter box (passive) working principle UV-LED photocatalysis
- → Automatic activation when airflow is detected.
- → Operating condition check
- → Functional condition check
- → Maintenance-free







Dimensions

Duct ø	Length 1 (mm)	Length 2 (mm)	Width (mm)	Height 1 (mm)	Height 2 (mm)
250	356	280	294	398	294

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SPECIFICATIONS	V10P-ID
Duct size diameter (mm)	250
Product description	Fanless air purification system for integration into new or existing duct system
Working principle / technology	UV-A photocatalysis (wavelength 385 nm) + titanium dioxide (TiO ₂)
Scope of application	pre-filtered air (free from pollen & dust) / not suitable for aggressive gases
Air flow rate	1 × photocatalysis up to 4.7 m/s 2 × photocatalysis up to 7.2 m/s
Operating temperature	0 - 50 °C
Pressure loss	40 Pa
Noise emission	0 dB (passive)
Dimensions D×W×H (mm	50 × 320 × 390
Weight (kg)	7.0
Installation position / duct size	in duct system / adapted to the shape and diameter of the air ducts
Control	ControlBox V10
Item no.	CB-230/12-V10
Dimensions D×W×H (mm)	250 × 160 × 90
Protection class	IP 65
Connection	on site via RST 16/3 device connection
Voltage	230 V AC - 50 Hz
Load current	0.2 A (1 PCO module) / 0.3 A (2 PCO modules)
Power	40 W (1 PCO module) / 60 W (2 PCO modules)
Activation	differential air pressure sensor > = 20 Pa
Voltage photocatalysis	12 V DC
Status display	Standby mode, ready for operation = green LED
	Air purification in progress = blue LED
Functionality check	By pressing the check button (C) LED voltage - 12 V LED current - 4.5 A



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