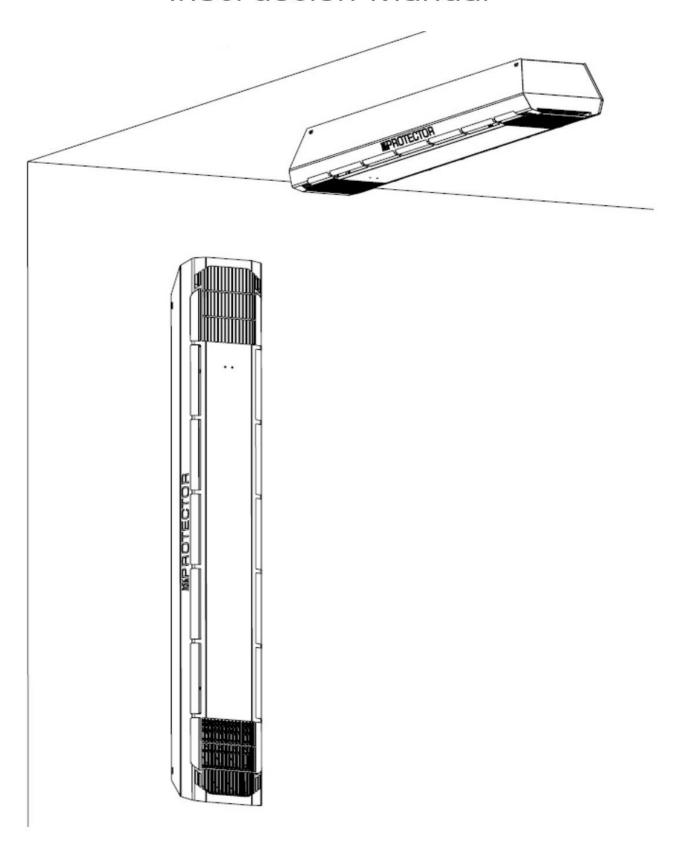
# Instruction Manual



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#### 1 Introduction

#### Dear Customer,

Thank you for choosing the ROOFMAP! ROOFMAP offers you sophisticated and reliable technology, functionality and an attractive design. Should you have any complaints despite our careful quality control, please contact our central customer service. We will be happy to help you.

Customer service / Replacement

E-Mail service@myairprotector.de

Phone +49 (0) 7731 / 9440795 Fax +49 (0) 7731 / 943959

All services are available at the following times: Mon - Fri 9:00 a.m. - 4:00 p.m.

Outside of business hours, please let us know your requirements by email or fax.



#### 2 Label- specific information

#### 2.1 Product information

MyAirProtector GmbH hereby declares that the ROOFMAP complies with VDI 6022 Directive 2014/53 / EU. The devices also meet the requirements of the following EU directive: RoHS directive 2011/65 / EU.

In order to maintain this condition and to ensure safe operation, the user must observe these operating instructions! Before using the product, read through the complete operating instructions and observe all operating and safety instructions!



#### 2.2 Disclaimer

These operating instructions have been prepared with the greatest care. Should you nevertheless notice any omissions or inaccuracies, please notify us in writing at the address given above. MyAirProtector GmbH accepts no liability for technical and typographical errors and reserves the right to make changes to the product and operating instructions at any time without prior notice. MyAirProtector GmbH shall not be liable or responsible for any personal injury, property damage or damage caused to the device or any direct or indirect consequential damage arising or caused in connection with the repairs and other actions performed by unqualified electricians. It is strictly forbidden to make unauthorized technical modifications to the device.

MyAirProtector GmbH assumes no liability or warranty for the accuracy, timeliness and completeness of the information in this document.

#### 2.3 Warranty

You receive a 2-year warranty on this device from the date of purchase. Each unit is carefully produced in Germany and subjected to a conscientious final inspection at MyAirProtector GmbH.

In the event of damage, please contact the respective seller via the respective service telephone and have the purchase receipt/invoice ready. In case of doubt, please contact our service center directly. This is the only way to ensure that your goods are sent in without any problems. A guarantee can only be provided for material and production faults, but not for transport damage, wearing parts, for example lamps, or damage to fragile parts, for example switches or lamps.

#### **Excluded from the guarantee:**



- Visible damage such as scratches, broken parts, stains/discoloration or other damage or defects caused by misuse, incorrect use, neglect, vandalism, alterations/conversion or failure to follow the instructions for use.
- Use of non-original parts.
- Damage caused by dropping the product or by incorrect transport, incorrect packing or incorrect storage.
- Repair by an unauthorized third party.

#### 2.4 Performance data

# RF150

UV-C- fluorescent tubes	
electrical power	75 W
UV-C-power	25 W
wavelength	253,7 nm
lifetime	9.000 h

2 x fan		
maximum power	50 W	
effective volume flow	max. 150 m <sup>3</sup> /h ±10%	
noise emissions (sound pressure level)	48 ± 2 dB(A) at 1m distance	

total electrical power	175 W
power consumption	1 A

#### RF150L

UV-C- fluorescent tubes	
electrical power	75 W
UV-C-power	25 W
wavelength	253,7 nm
lifetime	9.000 h

2 x fan	
maximum power	50 W
effective volume flow	max. 150 m <sup>3</sup> /h ±10%
noise emissions (sound pressure level)	48 ± 2 dB(A) at 1m distance

2 x LED	
LED power	24 W
luminous efficacy	2400 lm
colour temperature	4000K
lifetime	up to 30.000 h

total electrical power	223 W
power consumption	1 A

#### **RF300**

2 x UV-C- fluorescent tubes		
electrical power	75 W	
UV-C-power	25 W	
wavelength	253,7 nm	
lifetime	9.000 h	

2 x fan	
maximum power	50 W
effective volume flow	max. 300 m <sup>3</sup> /h ±10%
noise emissions (sound pressure level)	55 ± 2 dB(A) at 1m distance

total electrical power	250 W
power consumption	1,5 A

# RF300L

2 x UV-C- fluorescent tubes		
electrical power	75 W	
UV-C-power	25 W	
wavelength	253,7 nm	
lifetime	9.000 h	

2 x fan		
maximum power	50 W	
effective volume flow	max. 300 m³/h ±10%	
noise emissions (sound pressure level)	55 ± 2 dB(A) at 1m distance	

2 x LED		
LED power	24 W	
luminous efficacy	2400 lm	
colour temperature	4000K	
lifetime	up to 30.000 h	

total electrical power	300 W
power consumption	1,5 A

# 2.5 Information on the operating instructions

established by: Ntokos V. date: 2021.09.09						
audithed by: Deuer D. date: 2021.09.22						
approved by: Dukart S. date: 2021.09.24						
1	Initial release		1	2021.09.24		
index	modification		edition	date	modified	audited

#### 3 Basic safety instructions

#### 3.1 Warnings and symbols

The following designations or symbols are used in the operating instructions for particularly important information:



Special instructions for operating the system, for example to avoid malfunctions.



Special information, e.g. regarding the economic use of the plant.



Special information or prohibitions and restrictions to prevent damage.



Information or prohibitions to prevent personal injury or extensive damage to property.



Information on special hazards which are imminent if the hazard note is not observed.

#### 3.2 Intended use



After receiving the package, check it for packaging damage and document this accordingly. If the packaging is severely damaged, the consignment should be rejected. A damaged device must not be put into operation.

The device is designed for the purpose of cleaning or disinfecting the ambient air, especially for poorly or non-ventilated interiors. The use of the device minimizes the risk of infection, especially in the case of virus- or bacteria-based infections.

However, infection cannot be ruled out. In particular, not if the user of the device does not adhere to official hygiene regulations, recommendations, ordinances, laws or binding instructions, such as minimum distance, mouth and nose covering and similar measures and provisions. For an optimal effect, the devices should be distributed evenly in the room.



- Do not cover air openings!
- Observe the manufacturer's installation recommendation!
- Always place the device on the bracket supplied by the manufacturer!

Intended use includes observing the operating instructions, in particular the safety instructions, and observing the inspection and maintenance conditions.



This product is not a medical product according to the Medical Devices Act - MPBetreibV, and it is not subject to its restrictions.

#### 3.3 Organizational measures

- The employee assigned to work on the system must have read and understood the
  operating instructions and, in particular, the chapter on safety before starting work. It
  is too late during work. This applies in particular to personnel who only work on the
  machine occasionally, for example maintenance.
- The operating instructions must always be kept ready to hand in printed or digital form at the place of use of the system.

In addition to the operating instructions, the generally applicable, statutory and other binding regulations on accident prevention and environmental protection must be observed and instructed.

#### 3.4 Personnel selection and qualification

- Only use trained or instructed personnel. Clearly define the responsibilities of the personnel for operation, maintenance and repair!
- Work on the electrical equipment of the installation may only be carried out by a qualified electrician or by specially trained persons in accordance with the electro technical safety rules.

#### 3.5 Safety instructions for specific operating phases

• Only operate the system if all protective devices and safety-related equipment, e.g. detachable protective devices, are present and functional.



#### This applies especially to the safety cover!

- Immediately eliminate any faults that may affect safety.
- Carry out the prescribed adjustment, maintenance and inspection work in due time.

#### 3.6 Safety instructions for individual system parts

#### general use:



- UV-C radiation is dangerous for eyes and skin. Removing the shields is not permitted.
- If the mains cable is damaged, it must be replaced by the manufacturer.
- Do not immerse the device in liquids or operate it when it's wet.

#### assembly and connection:

 Installation and electrical connection may only be carried out by a certified electrician.

#### filter change:

- Caution: Observe hygiene measures after changing the filter!
  - Wear gloves
  - Do not touch the face with your hand
  - Wash your hands

#### lamp replacement:

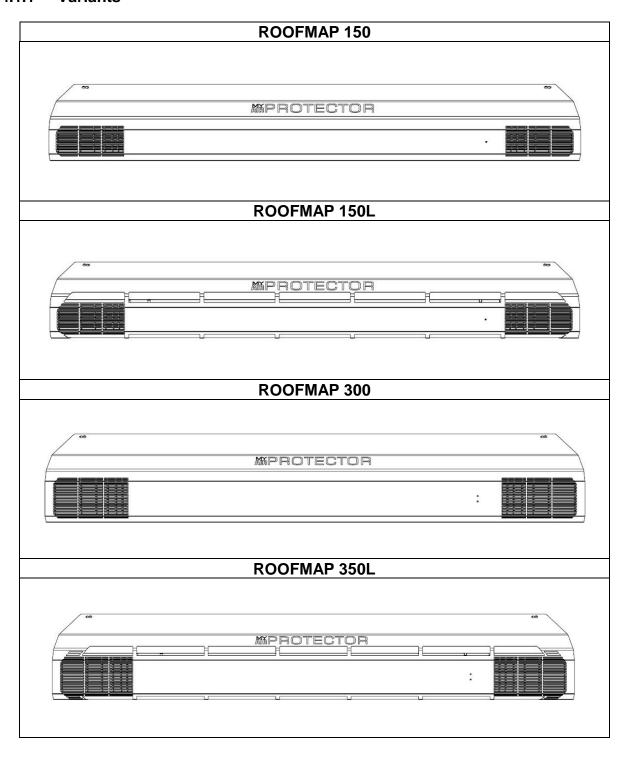
- The lamp may only be changed by a certified electrician.
- Caution: Before changing the lamp, disconnect the unit from the mains and secure it against being switched on again!

Observe the nationally applicable safety regulations during use. In the Federal Republic of Germany, the guidelines of the employers' liability insurance association must be observed. For other countries, the national safety guidelines must be observed.

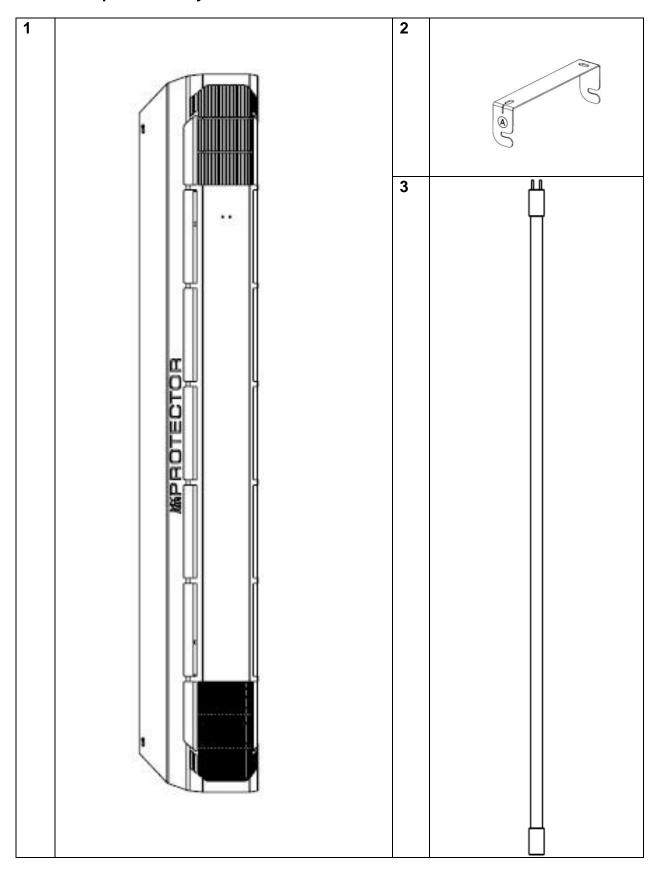
# 4 Mounting details

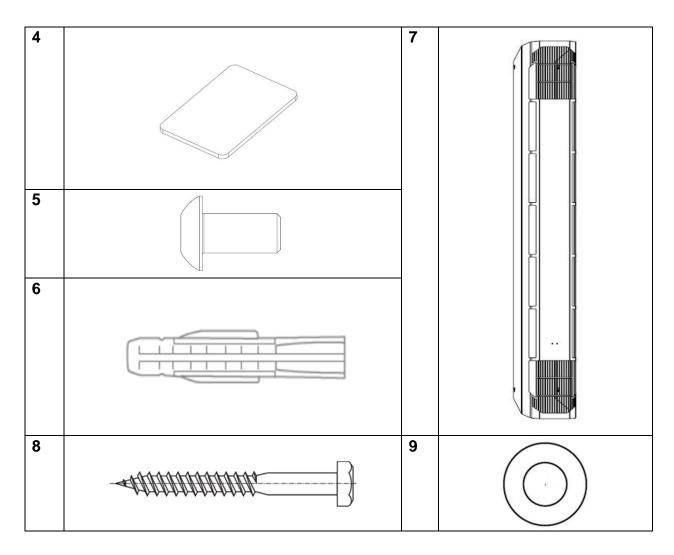
#### 4.1 Information on plant assembly

#### 4.1.1 Variants



#### Scope of delivery 4.1.2





			RF150 RF150L	RF300 RF300L
1.	base body		1x	1x
2.	ceiling bracket		2x	2x
3.	UV-C fluorescent tube		1x	2x
4.	G4 filter		1x	1x
5.	M5 screw	(ISO 7380-M5 x 10mm)	8x	8x
6.	wall plug	(Ø8mm x 51mm)	4x	4x
7.	panelling	·	1x	1x
8.	ceiling screw	(DIN 571-Ø6mm x 60mm)	4x	4x
9.	M6 washer	(DIN 902/6,4x18x1,6mm)	4x	4x

#### 4.2 Notes installation



 All electrical installations must be carried out by a specialist. The installation of the electrical connections must be carried out without voltage-free

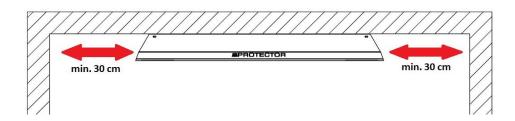


 Different materials require different fastening fittings. Use screws and dowels that are suitable for the corresponding material. The mounting material supplied is intended for fastening in solid building material (concrete, solid brickwork). Before mounting, make sure that drilling and screwing will not damage any pipes in the substrate. To prevent this, pay attention to the position of the supply line, among other things.



- Ensure at least 30 cm clearance on each side between the unit and the walls or floor/ceiling in the case of vertical installation.
- For vertical wall mounting, LED side must face upwards, ensure correct mounting.
- The device should be kept away from heat sources and protected from direct sunlight.

#### 4.3



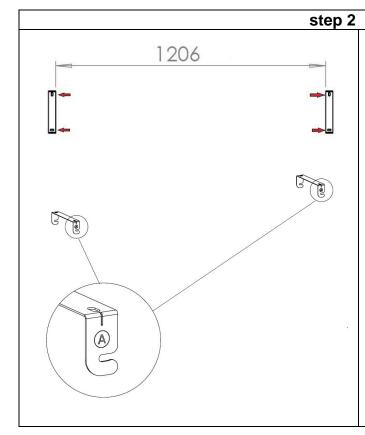
#### 4.3 Ceiling mounting

# RF150 | RF300 | RF300L step 1 Place the of the following thread removes the following thread removes

Place the device on a flat surface.

Loosen the M5 screws pos. 5 (4x) and unthread the casing pos. 7 and remove it downwards.

Loosen (do not remove) M5 screws pos. 5 (4x) and remove ceiling bracket pos. 2 upwards.

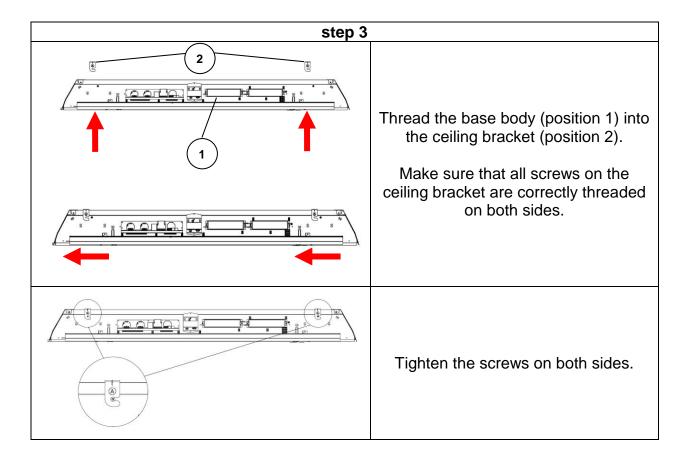


Place ceiling bracket pos. 2 at a distance of 1206 mm from the ceiling, making sure that the two ceiling brackets are parallel to each other and point in the same direction (see marking A and B).

Mark hole positions and drill 70mm deep with 8mm drill bit (4x), see arrows.

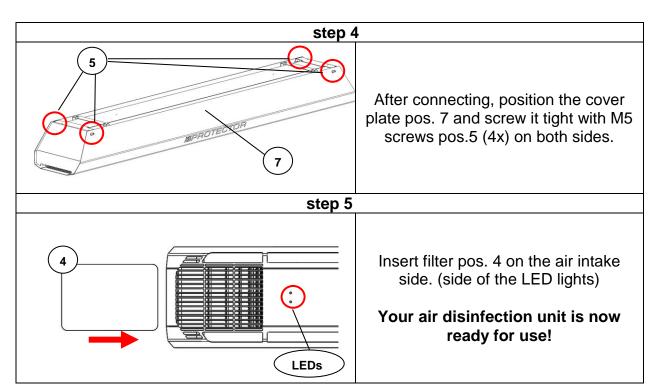
When using other anchors and screws, follow the manufacturer's instructions.

Insert wall plugs pos. 6 into holes and screw ceiling bracket to ceiling or wall with wall screws pos. 8 (4x) and washers pos. 9 (4x).





For electrical connection, see connection diagram on pages 18-23.



#### 4.4 Electrical connection

Connection diagram of your device depending on the unit and the light switch in the room.

In the following table you will find an overview of the possible connection diagrams.

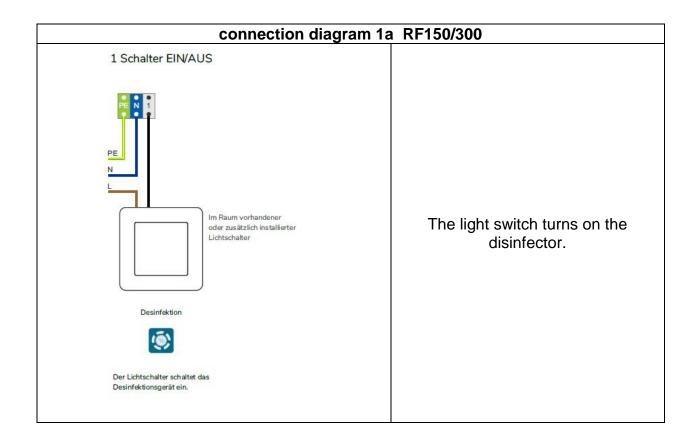
	one switch two switches one switch through		ough function	
	air disinfection ON/OFF	switch 1 air disinfection ON/OFF.	Switch everything OFF.	Switch air disinfection ON Light OFF.
		Switch 2 light ON/OFF	Off and ON again Switch air disinfection and light ON.	Switch air disinfection ON Light ON.
			Off and on again Switch air disinfection ON, light OFF.	Switch air disinfection OFF Light OFF.
			Off and on again Switch air disinfection OFF Light ON.	
RF150	connection diagram 1a	-	-	-
RF150L	connection diagram 1b	connection diagram 2	connection diagram 3a	connection diagram 3b
RF300	connection diagram 1a	-	-	-
RF300L	connection diagram 1b	connection diagram 2	connection diagram 3a	connection diagram 3b

#### 4.4.1 Connecting variants without LED lighting

#### Auslieferungszustand

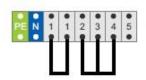






#### 4.4.2 connecting variants with LED lighting

#### Auslieferungszustand





#### Einstellung Wippschalter am Gerät

1 = Anschluss Schaltfolge

2 = Anschluss L

(ē)

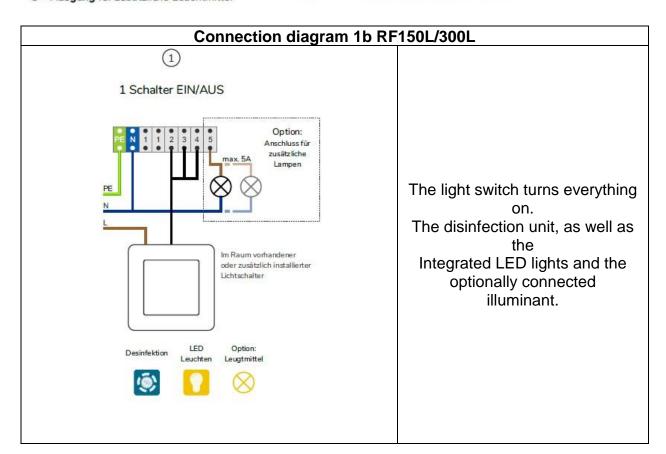
3 = Anschluss Luftdesinfektion

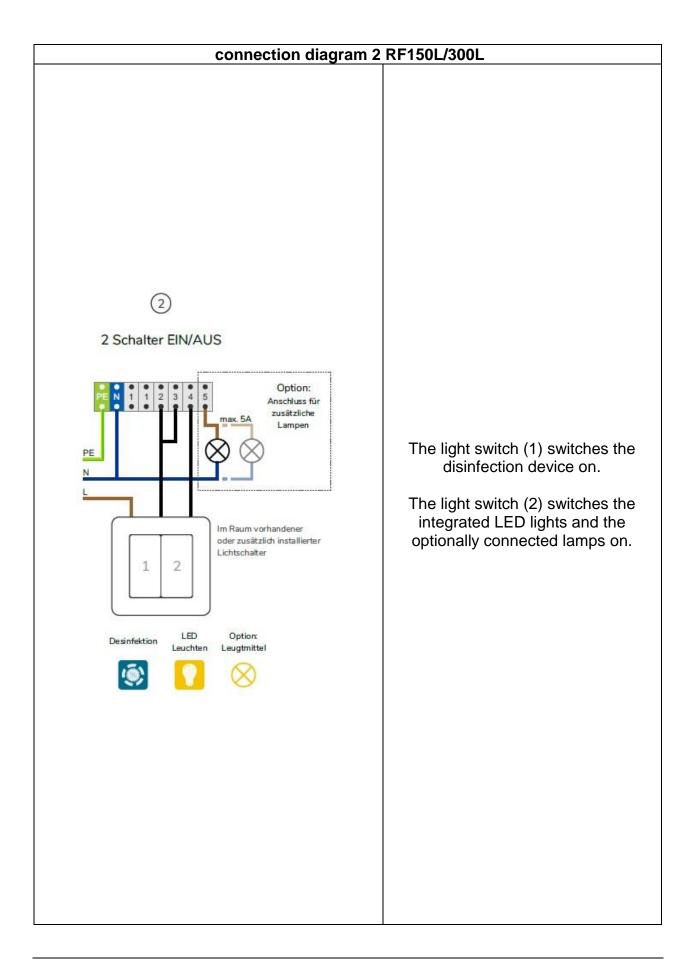
4 = Anschluss LED-Leuchten

5 = Ausgang für zusätzliche Leuchtmittel

O = Leuchtmittel werden geschalten.
(Eingebaute LED-Leuchten bleiben aus)

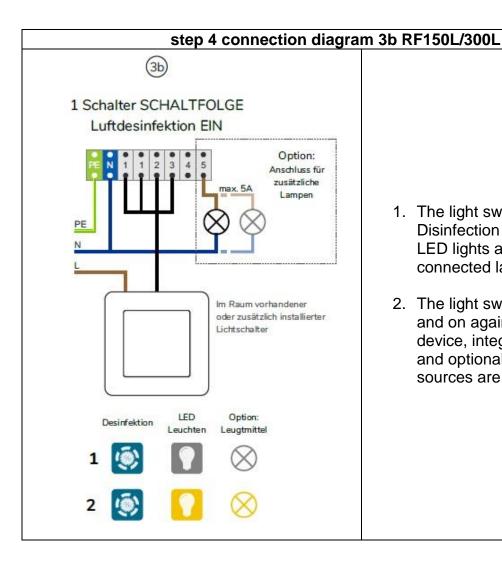
Eingebaute LED-Leuchten und die am Ausgang angeschlossenen Leuchtmittel werden geschalten.





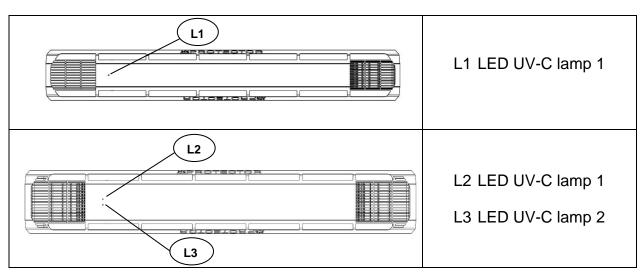
# connection diagram 3a RF150L/300L 1 Schalter SCHALTFOLGE Option: Anschluss für zusätzliche Lampen Im Raum vorhandener oder zusätzlich installierter Lichtschalter LED Option: Desinfektion Leuchten Leugtmittel \* In diesem Schaltzustand ist alles ausgeschaltet. Am Gerät liegt aber Spannung an und kann somit über W-Lan geschaltet werden

- The light switch is switched on. Disinfection device, integrated LED lights and optionally connected lamps are OFF.
- 2. The light switch is switched off and on again. Disinfection device, integrated LED lights and optionally connected light sources are ON.
- 3. The light switch is switched off and on again. Disinfection device is ON. Integrated LED lights and optionally connected light sources are OFF.
- The light switch is switched off and on again. Disinfection device is OFF. Integrated LED lights and optionally connected light sources are ON.



- The light switch is switched on. Disinfection device, integrated LED lights and optionally connected lamps are OFF.
- 2. The light switch is switched off and on again. Disinfection device, integrated LED lights and optionally connected light sources are ON.

### 5 Device description



#### 5.1 Connection values

#### RF150 / RF150L

 $\begin{array}{lll} \text{voltage U}_N & 220 \text{ V} - 240 \text{ V} / 50 \text{ Hz} - 60 \text{ Hz} \\ \text{total power consumption RF150} & 175 \text{ W} \\ \text{total power consumption RF150L} & 223 \text{ W}. \\ \text{current I}_{\text{max}} & 3 \text{ A fuse} \end{array}$ 

#### RF300 / RF300L

voltage  $U_N$  220 V - 240 V / 50 Hz - 60 Hz total power consumption RF300 260 W total power consumption RF300L 300 W current  $I_{max}$  3 A fuse

#### 5.2 Dimensions and weights

#### RF150 / RF150L

housing dimensions W x H x L:

weight RF150

220 mm x 150 mm x 1.560 mm
12,5 kg
weight RF150L

12,8 kg

#### RF300 / RF300L

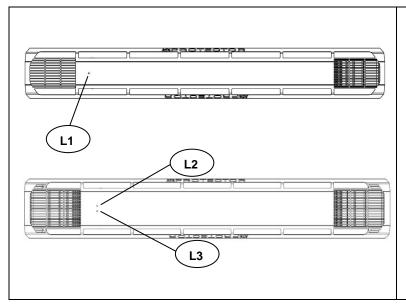
housing dimensions W x H x L: 273 mm x 180 mm x 1.670 mm weigth RF300 17,5 kg weigth RF300L 17,8 kg

#### 6 Plant operation

#### 6.1 Preparatory activities

- Caution: The information on disinfection performance only applies to the UV-C lamps offered by the manufacturer. If unauthorized UV-C lamps are used, neither the disinfection effect nor the safety of the device can be guaranteed.
- Do not place the air disinfection device in the direct vicinity of heaters, stoves, other heat sources or in direct sunlight. Only operate the device at locations with temperatures in the permissible ambient temperature range of -10 ° to + 40 ° C.
- For the desired cleaning time of your room, the respective recommendation in the country must be observed.

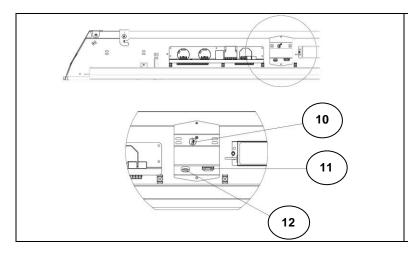
#### 6.1.1 Safety and function check



A functional check of the UV-C fluorescent tubes is made possible via green LEDs in the picture.

L1 for RF150 and RF150L L2, L3 for RF300 and RF300L.

If one of the LEDs does not light up, the device must be shut down immediately and, if necessary, a new UV-C fluorescent tube must be installed by a qualified electrician.



- 10. thermal switch
- 11. switch for the LED lighting
- 12. fuse 3A

The function of the fan can be checked by its noise level. If the noise shows irregularities or is no longer audible, please contact the service center.



The device disinfects the air by means of UV-C radiation, not by filtering the particles. The built-in G4 filter protects the fluorescent tubes from contamination and must not be removed.

#### 6.2 Switching on the system

- Switch on the device using the light switch
- The device is equipped with a WLAN function and can be accessed via an app. to be served. The device must have continuous current (light switch on). the app is available from 2022.



Extract from the standard: ASR A3.7: May 2018 Chapter 3.16 Activity categories I, II, III.

Chapter 5.1:

- (1) While performing activities in activity category I, a rating level of 55dB (A) must not be exceeded.
- (2) While performing activities in activity category II, a rating level of 70dB (A) must not be exceeded.



UV-C fluorescent tubes only develop their full disinfection performance after a few minutes!

#### 6.3 End of operation

- Press the light switch to turn off the device.
- Switch off the device via the WLAN function.

#### 6.4 Plant start after malfunction

 In the event of a malfunction or overheating, the device switches itself off and is ready for use again by manually pressing the thermal switch item 10. If the device is switched off repeatedly, the service technician or a qualified electrician must be informed. Please make sure that the device and especially the ventilation openings are not covered or covered by foreign bodies and objects.

#### 6.5 Cleaning the plant

- Move the main fuse switch in the house connection box down.
- Clean the outside of the device with a slightly damp cloth.
- Dry the device with a cloth before switching it on.

#### Maintenance

# The ins

The inserted G4 particle filter should be changed at regular intervals.

Recommended cycle: 3 months. However, after 2000 operating hours at the latest!

Filter only on air intake side (LED side).

#### **UV-C** fluorescent tube

#### **Designation:** TUV 36 T5 HO 4P SE

The UV-C fluorescent tubes should be changed annually for optimal disinfection performance.

This is based on the recommendation of the lamp manufacturer.

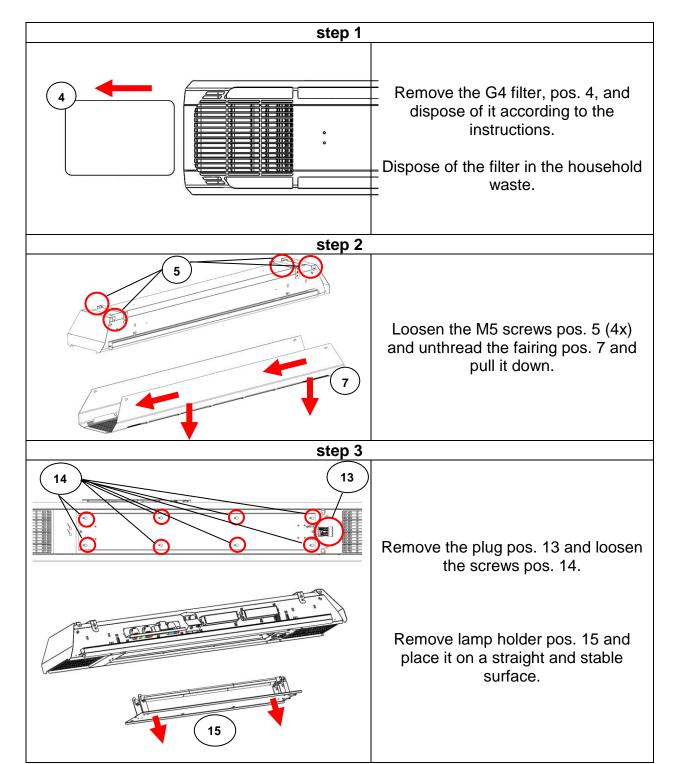
We recommend always changing all UV-C fluorescent tubes when changing.

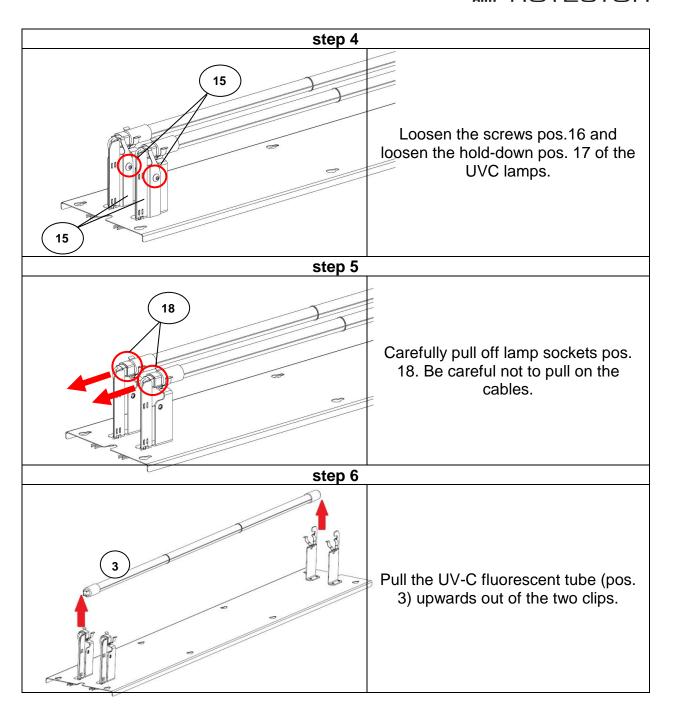
Recommended cycle: 12 months. However, after 9000 operating hours at the latest!

#### 8 Maintenance



Set the switch of the main fuse in the house connection box downwards. Wearing gloves and mouth/nose protection is recommended, especially when handling the filter mats.







If the UV-C fluorescent tube breaks, ventilate the room for 30 minutes before disposing of the UV-C fluorescent tube!

#### step 7

Now work backwards from step 6 to step 1.

Congratulations, your air disinfection device is now ready for use again!

# 9 Malfunction analyses

If your fault does not appear in our list, please contact our service centre directly.

system	problem	Remedy	
RF150L   RF150L	Device does not work!	Check switches	
RF300L   RF300L		Check fuse	
		Check cable	
	Device switches off!	Check room temperature (max. 40°C)	
		Ventilation slots are covered	
		<ul> <li>Clear ventilation slots</li> </ul>	
		Avoid heat sources	
		<ul> <li>Change device position</li> </ul>	
		Avoid dircet sunlight	
		Change device position	
		Fan noise not audible	
		Fan defective, call service	
	One or more control	UV-C fluorescent tube defective, call in	
	LEDs do not light up!	electrician!	
		<ul> <li>Note UV-C lamp number</li> </ul>	
		<ul> <li>Change UV-C lamp</li> </ul>	
RF150L   RF300L	One or more LED lights, do not light up.	Defecitve LED lights	
		<ul> <li>Send the device to the</li> </ul>	
		manufacturer for LED lamp	
		replacement.	



The device may only be repaired by MyAirProtector or repair centres certified by MyAirProtector.

#### 10 Disposal

ENVIROMENTAL PROTECTION- DIRECTIVE 2002/96/ EC CORRECT DISPOSAL OF THIS PRODUCT



Within the EU, this symbol indicates that this product should not be disposed of with household waste. Waste equipment contains valuable recyclable materials that should be recycled to prevent harm to the environment or human hearth from uncontrolled waste disposal. Therefore, please dispose of old appliances via suitable collection systems or send the appliance for disposal to the place where you purchased it. They will then recycle the appliance.

Conduct in compliance with disposal laws see: <a href="https://www.lamprecycle.org/">https://www.lamprecycle.org/</a> Or get more information under 1-800-555-0050.

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#### Terms of use of professional information:

- (1) The Licensor shall be liable for intentional or grossly negligent breaches of duty. This also applies to vicarious agents.
- (2) The licensor is liable for guarantees without limitation.
- (3) In the event of slight negligence, the Licensor's liability shall be limited to the foreseeable damage typical of the contract.
- (4) The Licensor shall not be liable for damage that could not be expected to occur within the scope of the license agreement.
- (5) Liability for loss of profit, for damages from third party claims against the licensee and for other consequential damages is excluded.
- (6) The licensor is not liable for the economic success of the use of the tools or trainings.
- (7) Liability under the Product Liability Act remains unaffected.

#### 11 Feedback

Your feedback is important to us!

Thank you for your trust in us.

Your opinion is just as important to us as your trust! Only with your help can we continuously improve and adapt our products to your wishes and needs. You can send us your feedback directly via e-mail, our online from or in person.

Your feedback will be sent directly to our service line.

E-mail: <a href="mailto:feedback@myairprotector.de">feedback@myairprotector.de</a>



Just use our online form!

scan QR code
 give rating
 improve performance