Inazuma

Installation and Operating Instructions

INAZUMA HD PRO 50.000 UV-C
High-Performance Duo UVC Lamp
Index

1. General Information .......................................................................................................................... 3
   1.1. Introduction ....................................................................................................................................... 3
   1.2. Warning label .................................................................................................................................... 3
   1.3. Important safety notes and warnings ............................................................................................... 3
   1.4. Additional safety instructions and warnings .................................................................................... 3
   1.5. Manufacturer .................................................................................................................................... 4
   1.6. WEEE-registration ............................................................................................................................. 4
   1.7. EC declaration of conformity ........................................................................................................... 4
   1.8. Alteration and modification .............................................................................................................. 4
   1.9. Spare parts ........................................................................................................................................ 4
   1.10. Description and function of the product .......................................................................................... 4

2. Installation and maintenance ........................................................................................................... 5
   2.1. Information on installation and maintenance .................................................................................. 5
   2.2. Connection to the ballast unit ........................................................................................................... 5
   2.3. Mounting inside the filter .................................................................................................................. 5
   2.4. Assembly of the UVC lamp ............................................................................................................... 6
       2.4.1: Insertion of the illuminant and quartz tube .................................................................................. 6
       2.4.2. Illuminant replacement ................................................................................................................. 6
       2.4.3. Quartz tube replacement ............................................................................................................... 6

3. Technical Data ................................................................................................................................... 7

4. Warranty ............................................................................................................................................ 7
1. General Information

1.1. Introduction
Congratulations on your new acquisition – the high-performance duo UVC lamp HD-Pro 50.00 including a ballast unit.
To avoid restrictions on function and warranty it is important to read this manual carefully.

To make sure your filter works as supposed to, we ask you to follow the manual, the user-guide and additional notes that are provided with this product, closely.

In the event of emerging questions not addressed in this manual we ask you to get in contact with your (local) dealer.

1.2. Warning Label
In this manual, you find the two signs shown below. They point out important warnings or significant Informations.

1.3. Important safety notes and warnings
Please store this manual at an accessible location to be able to address emerging questions about installation, function and debugging.
It is recommended to keep a copy of this manual close to the UVC so that e.g. technicians are able to get quick access to all informations needed.

The Inazuma immersion-UVC can only be installed used in closed filter systems.

This UVC-device is equipped with safety mechanisms and must therefore be operated in Inazuma drum filter systems only.

The mains power plug is not included in delivery. The connection must be carried out according to the norm EN60335-2-109 qualified personnel.

PLEASE NOTE
The manufacturer will not assume responsibility for any damages emerged by misuse of the product or parts of it or by non-observance of rules, guides and manuals provided in this document and additional documents (including stickers and warning signs) provided with the product.

The device can only be operated, if your house wiring owns a ground fault circuit interrupter (GFCI) / residualcurrent device (RCD) (30 mA for humid environment) and the power supply is connected to said system.

It is also recommended to use an overvoltage protection class D or 3 (depending on your local guidelines).

Ultraviolet light can cause damage on your eyes and skin. Always protect yourself and others from direct UVC-light! The UVC lamps must be mounted in a way, that nobody might be exposed to the light by accident. If you notice any painful reactions, please contact a doctor.

Do not expose any humans, animals or plants to the radiation.

Operate the device only, when there is no-one in the water.

Put the UVC-lamp only then in operation, when it is completely under water!

The ballast unit is protected against splash water (protection class IP65).

Always pull the mains plug during maintenance (e.g. changing of the illuminant or cleaning of the quartz tube).

The immersion-UVC must be protected from frost. Temperatures below the freezing point can damage the illuminant or the quartz tube.

In case parts of the immersion-UVC (especially the quartz glass) are damaged, the lamp must not be brought to operation.

The device must be cleaned and descaled regularly to ensure a proper functioning.
1.5. Manufacturer

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1.6. WEEE-registration

The WEEE-registration ensures that the producers are assuming liability for their electrical and electronic equipment, especially the responsibility for recycling and disposing of these according to the “ElektroG”.

The Federal Environment Agency of Germany (Umweltbundesamt) confirms the registration of this product under the following number:

WEEE-Reg.-Nr. DE 19429673

1.7. EC-Declaration of Conformity

Manufacturer: Inazuma
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Device Type: Immersion UVC lamp including electronic ballast unit.

The manufacturer declares hereby the conformity of the product with the safety requirements mentioned above.

1.8. Alteration and modification

We point out that every alteration or modification without written approval by Inazuma or one of its authorized suppliers will cause the immediate annulment of the CE conformity assessment.

Inazuma will not assume liability for damages on persons or property emerged by unauthorized alterations or modifications.

Die Inazuma immersion UVC lamp can only be used in closed filter systems by Inazuma.

1.9. Spare parts

Only spare parts provided by Inazuma or one of its authorized suppliers are approved for installation.

In the event of usage of non-authorized parts the warranty will expire and Inazuma will not assume liability for damages.

Only use special tooling.

1.10. Description and function

• Energy saving high-performance immersion lamp
• “Longlife” durability of up to 16,000 hours
• Two lamps (55 watt each) can be plugged into one ballast unit
• Horizontal or vertical installation possible
• Wavelength range 253.7 nm (nano meters)
• Germ-reducing effect through destruction of the cell structure of bacteria, algae and viruses
2. Installation and maintenance
2.1. Information on installation and maintenance
- Can only be installed and used in closed filter systems
- The ballast unit must be mounted in a dry spot, where it is also protected from direct sunlight
- Glass or artificial glass protects from UVC radiation, and can be used as a transparent coverage
- The immersion lamp must be protected from frost; temperatures below the freezing point can damage the illuminant and quartz tube
- The electronic ballast unit produces heat, that dissipates through the housing
- Max. operating temperature 50 °C
- The ballast unit must be protected from direct sunlight
- Pull the mains plug prior to any maintenance work!
- Any maintenance work on electrical parts must be carried out by qualified personnel
- Do not touch the lamp on the glass part
- We recommend to exchange the illuminant every two years

2.2. Connection to the ballast unit
Connect the UVC lamp or lamps as shown in the pictures below. Incorrect installation will damage the ballast unit!

When connecting only one lamp, use the single slot on the right.

If you want to connect two lamps, use the slots on the left side of the ballast unit.

2.3. Mounting inside the filter
All Inazuma drum filters of the MKV series and Smarty have one or multiple inboard holders for an easy mounting of the HD-Pro-50.000 UVC lamps. (see fig. 1).

Mounting:
Insert the immersion UVC lamp inside the stainless steel holder from above. Pay special attention to not damage the quartz tube.
The Union nut of the lamp should now be laying flat on the top part of the holder (see fig. 2).

Depending on the installation location of the UVC lamp, it might be necessary to unscrew the nut of the gas pressure absorber to be able to insert it (see fig. 3)
2.4. Assembly of the UVC lamp

2.4.1. Insertion of the illuminant and quartz tube
1. Loosen the union nut and remove the O-ring, that is located inside the nut (fig. 1)
2. Slide the ring on the quartz tube and spray the open end of the tube with silicone spray or a similar lubricant (fig. 2)
3. For safety reasons we recommend to wear safety gloves in the following steps
4. Push the illuminant into the socket
5. Slide the open end of the quartz tube with some pressure 3 cm deep into the socket, so that it slides over the first seal ring and meets the last. You should hear a click. Pay attention to not tilt the tube (see fig. 3 and 4)
6. Slide the union nut you unscrewed in point 1 over the closed end of the quartz tube and slide it over the O-ring up to the bolting of the socket (fig. 5)
7. Tighten the union nut

2.4.2. Illuminant replacement

ATTENTION! Shock hazard!
1. Pull the mains plug of the device!
2. Loosen the union nut and slide it over the quartz tube (fig 1)
3. For safety reasons we recommend to wear safety gloves in the following steps
4. Pull cautiously on the quartz tube
5. Pull the old illuminant out of the socket
6. Insert the new lamp
7. Pay attention that the O-ring is still sitting on quartz tube
8. Repeat steps 5 to 7 in chapter 2.4.1.

2.4.3. Quartz tube replacement
1. Pull the mains plug of the device!
2. Loosen the union nut and slide it over the quartz tube (fig 1)
3. For safety reasons we recommend to wear safety gloves in the following steps
4. Pull cautiously on the old quartz tube
5. Pay attention to slide the O-ring on the new quartz tube
6. Repeat steps 5 to 7 in chapter 2.4.1.
3. Technical Data

- Power supply: 230 V / 50 Hz
- Max. power: 130 W
- Lamp power: 55 – 120 W
- Max. lifetime: 16,000 hours
- Protection class ballast unit: IP-65
- Protection class UVC lamp: IP-68

4. Warranty

The warranty includes only the device (ballast unit and lamp).

Wearing parts, as the illuminant and quartz tube are excluded from warranty.

The manufacturer accepts no liability for any consequences resulting from inappropriate, negligent or incorrect installation or misuse and any consequences that result.

The supplier’s liability under this limited warranty shall extend only to the replacement of a defective product.

This warranty is not transferable.
You will be amazed!