

i-fogger[®]

Effortless 360° disinfection

User manual



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Original user manual, written in the English Language

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Version: v.1.0



Preface

Thank you for purchasing the i-fogger®. The i-fogger disinfects surfaces and entire spaces quickly. The mobile unit creates and disperses a disinfectant aerosol (mist) to reduce the number of airborne micro-organisms and viruses. Bonus: it's also easy to apply disinfectant to surfaces that are difficult to reach.

Please read this manual carefully for important information and operating instructions before using the i-fogger. Save this manual for future reference. This i-fogger will provide excellent performance. The best results will be obtained when the i-fogger is:

- regularly maintained per the i-fogger preventive maintenance instructions in this manual;
- operated with reasonable care and caution;
- maintained with manufacturer-supplied parts.

When this manual refers to “the manufacturer”, this means: Future Cleaning Technologies B.V, an affiliate company of i-team in Eindhoven, the Netherlands. When this manual mentions “the partner”, your local i-team resell and support service partner is referred to.

Purpose of the user manual

The purpose of the user manual is to provide the user with information in such a way that during the life of the i-fogger, the machine is used correctly, efficiently and safely, even in the event of reasonably foreseeable misuse, as described in section 1.2 of this manual.

The user manual contains instructions regarding:

- personal operator safety;
- intended and non-intended use of the i-fogger;
- instructions for daily use;
- maintenance instructions;
- storage conditions;
- disposal of the i-fogger.

These instructions must be considered to avoid risks that could lead to physical and/or material damage.

Target audience

This user manual is intended for operators of the i-fogger and their supervisors, as well as partners and importers.








Operators of the i-fogger

The i-fogger may only be operated by a person who has correctly read and understood the instructions in this manual or is trained by an experienced operator who has read and understood the instructions in this manual.



Reading guide

The following symbols and terms are used throughout this manual to alert the reader to safety issues and important information:

Symbol	Term	Explanation
	WARNING	Indicates a hazardous situation which, if the safety instructions are not followed, can lead to injuries of the operator or bystanders, light and/or moderate damage to the product or the environment.
	CAUTION	Indicates a hazardous situation which, if the safety instructions are not followed, can lead to light and/or moderate damage to the product or the environment.
	STRONG MAGNET	Indicates the machine contains strong magnets. These can cause pacemakers to stop or cause electronic data to be damaged, for instance on information stored on access passes.
	BATTERIES	Indicates a battery-operated machine. Batteries must be charged according to the instructions in this manual and the instructions at the charger.
	PACEMAKER	Indicates operators and maintenance crew wearing pacemakers should keep a minimal distance of 6 in / 15 cm. In this specific case operators may not use the machine.
	PROTECTIVE EYEWEARE	Indicates protective eyewear is advised, for instance when filling the machine with cleaning solution.
	WASH HANDS	Indicates operators are advised to wash their hands, for instance after filling and/or draining the cleaning solution.



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1 Introduction

The i-fogger® is an easy and safe machine to use, this manual helps you get started and explains the operation and maintenance procedure.

The i-fogger has been designed as a comfortable, ergonomic backpack, allowing complete freedom of movement and easy usability. An ergonomic spray gun is attached to the unit, which ensures fast, reliable and easy operation. Centralized controls are located on top of the machine. Everything you need lies within the reach of your fingertips. The lid of the disinfectant solution tank is available in 4 different colors to easily identify different disinfectants.

This manual is intended for those who work with the i-fogger and perform daily maintenance. The manual must be read in full before the first actions. This manual describes the correct method of use, safety measures, maintenance and transport.

i-team Global continuously improves all their products based on user experience and feedback. Any deviations between the texts and/or images from the manual and your i-fogger can therefore arise from the difference in model or from possible changes due to continuous development and innovation.



1.1 Intended use of the product

The i-fogger® is a specialized machine for disinfecting surfaces and entire spaces, see Figure 1.

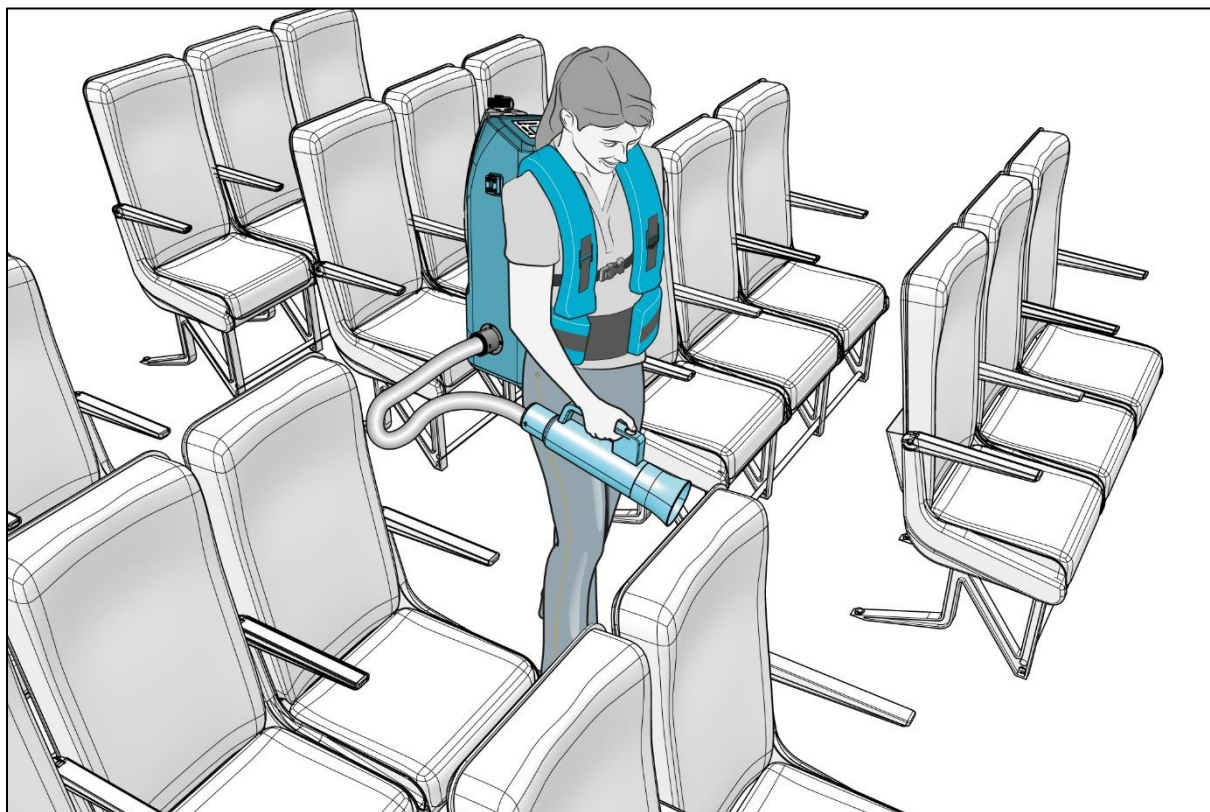


Figure 1

The i-fogger is, for example, suitable to use in cinemas, airplanes, cruise ships and shopping malls.

The i-fogger must be used in a dry environment.

In order to spray different sizes of aerosol (mist) particles, 4 different types of spray nozzles are provided. These spray nozzles are easy to replace. To select the right spray nozzle, see section 2.3.

1.2 Non-intended use of the product



WARNING

Non-intended use can have consequences for the safety of operators and bystanders and will void the warranty on the product.

The i-fogger is not intended to be used in moist or wet environments such as saunas and other areas where fog or moisture is already present in the air.

Do not use the i-fogger in enclosed spaces with little ventilation.

Do not use the i-fogger in spaces where people are present.



1.3 Lifespan



CAUTION

To ensure proper and safe operation throughout the life of the i-fogger®, it is recommended to have an authorised i-team partner check the machine after the first 50 hours of use and then every 125 hours afterwards. To check the used operating hours, please check the hour meter on the main control panel. See section 2.1.

1.4 Modifications

It is not permitted to make modifications to the design of the i-fogger without consultation and permission from the manufacturer. This affects the warranty, see section 1.6 of this manual.



1.5 Specifications

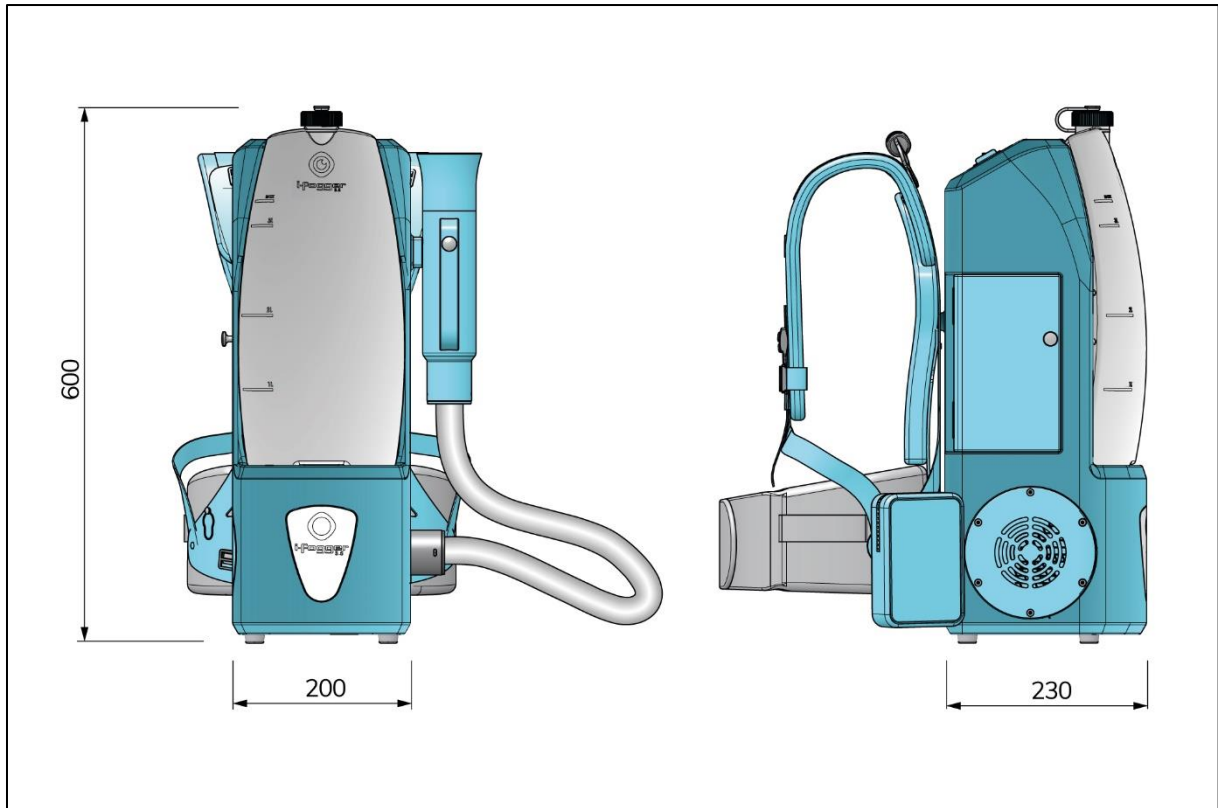


Figure 2

Product size body unit (L x W x H):	230 x 200 x 600 mm
Weight including battery:	8.2 kg
Weight without battery:	7.9 kg
Hose length:	1.2 m
Tank capacity:	3.5 L
Spray distance:	4 – 5 m
Spray volume:	100 – 175 ml/min
Droplet size:	20-150 µm
Pump specifications:	DC 24 V, 5 W, 100 ml/min
Material main body:	LDPE
Material spray gun:	Aluminium
Power source:	i-power® 9 or i-power® 14 battery
Battery spec i-power 9:	24 V 8.8 Ah
Battery spec i-power 14:	25.2 V 14 Ah
Run time i-power 9:	≈ 30 min
Run time i-power 14:	≈ 50 min



1.6 Warranty

The i-fogger® should only be operated with the materials supplied. Using alternative supplies may cause damage to the i-fogger and may cause a risk to the operator. The use of alternative supplies voids manufacturer's warranty.

1.7 Identification

Each i-fogger has a unique identification number that can be found on the bottom of the main body. Your i-team dealer needs this number when you order parts.

Explanation type plate:



Product type: i-fogger 3.5

Serial number:

Figure 3



2 Description

The compact lightweight i-fogger® consists of two main parts:

- the body, that contains the disinfectant solution tank, that can be carried as a backpack;
- the spray gun, that disperses a disinfectant aerosol (mist) to reduce the number of airborne micro-organisms and viruses.

The i-fogger consists of:

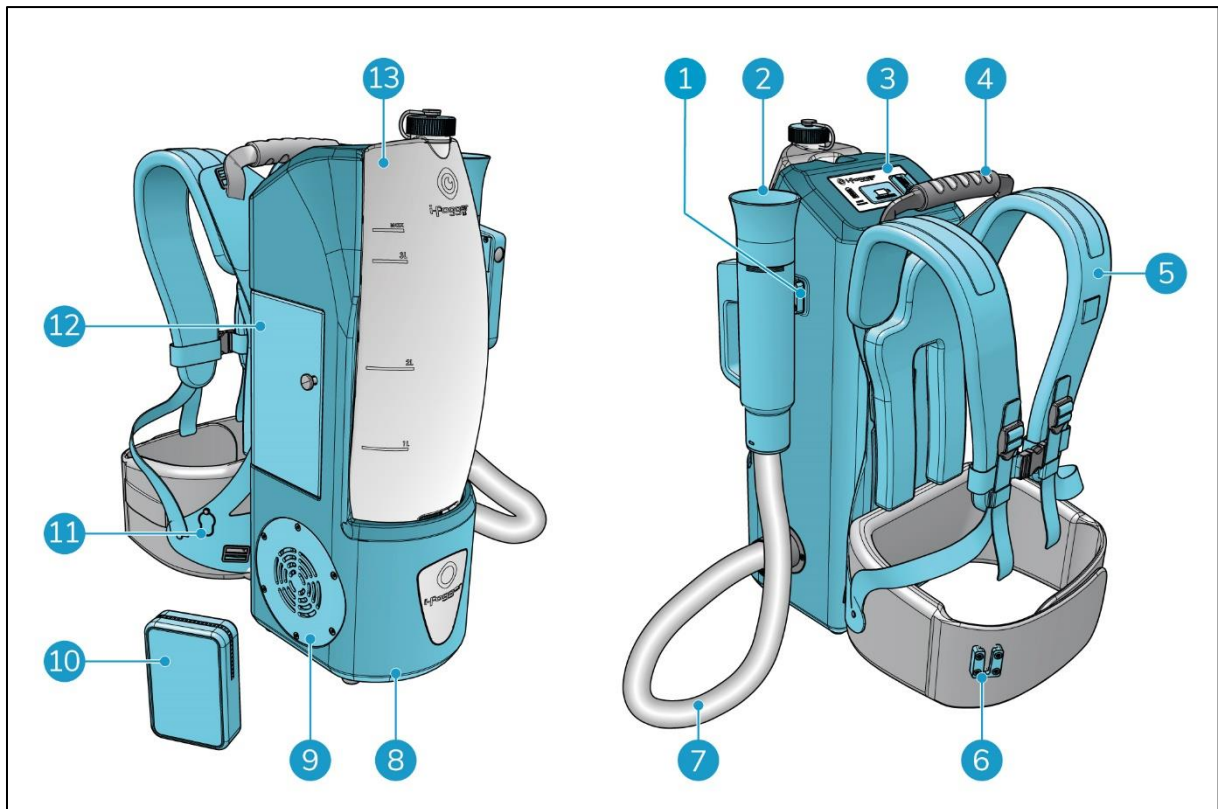


Figure 4

Legend

- | | |
|---|--|
| 1. A hook for the spray gun. | 8. A main body. |
| 2. A spray gun. | 9. A filter cover for the motor air inlet. |
| 3. A control panel. | 10. An accessory bag. |
| 4. A carrying handle. | 11. A hook for the accessory bag. |
| 5. A harness. | 12. A battery compartment. |
| 6. A hook for the spray gun during operation. | 13. A disinfectant solution tank. |
| 7. A flexible hose. | |



2.1 Control panel

1. Battery power status display. The green battery power status LEDs are on during normal use. When the battery is full, all green LEDs are on. When the batteries get empty, the green LEDs will go off one by one.
2. Hour meter. The counter on the right (Figure 5, pos B). counts in 6 minute cycles. This means that if the display shows a "1", the i-fogger® has run for 6 minutes. After 10 cycles, the second counter from the right (Figure 5, pos A) will show a "1", this indicates 1 hour. The counter on the right (Figure 5, pos B) starts again at "1".
3. The ON/OFF switch.

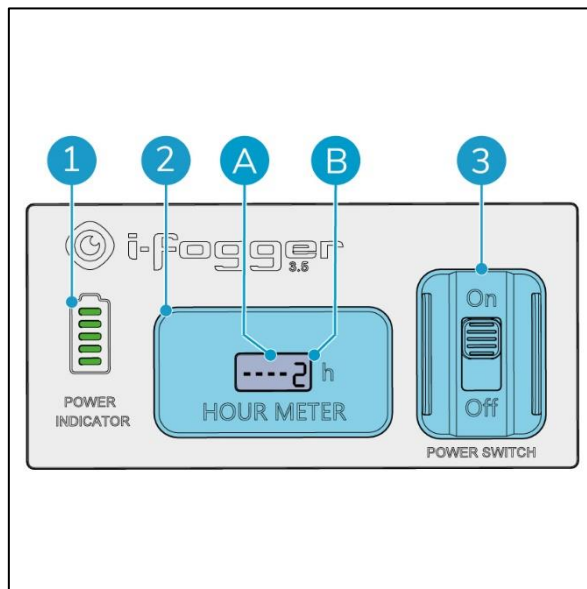


Figure 5

2.2 Spray gun self reset button

1. The self reset button. The self reset button has a safety function. This means that the i-fogger will not work if you press it and have accidentally forgotten to switch off the ON/OFF switch on the i-fogger main body.

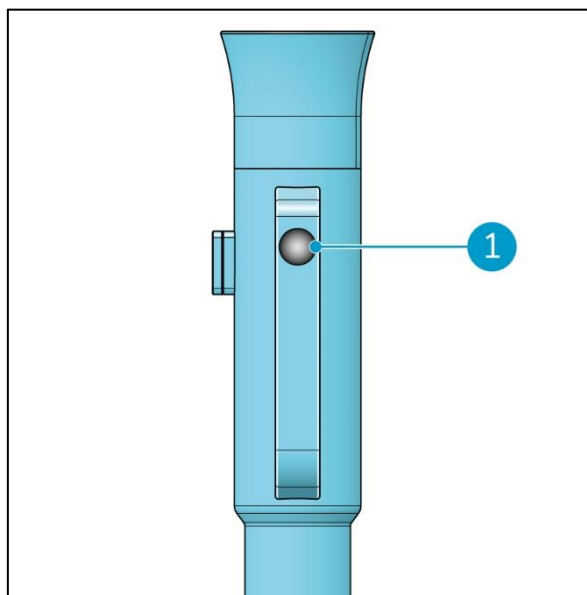


Figure 6



2.3 Spray nozzles

Spray nozzle diameter and color	Intended use
0.3 mm x 1 silver ring	Indoor applications, when there is a short time between people occupying the space. For example cinemas, airplanes, trains, common transport.
0.5 mm x 1 golden ring	Indoor applications, when there is a long time between people occupying the space. For example end of day in restaurant or retail.
0.8 mm x 1 blue ring	Indoor applications, high volume spaces. For example warehouses and manufacturing floors.
1.0 mm x 1 black ring	Outdoor applications, high volume spaces. For example amphitheatres and sport event centers.



3 Safety

Safety comes first. Therefore, please take your time to read and understand these safety instructions. Improper use can cause harm or void the manufacturer's warranty.

3.1 General safety instructions



WARNING

- **DO NOT** push the self reset button on the spray gun when it is on your belt;
- always keep the body of the i-fogger® in an upright position when the tank is full or the battery is inserted;
- avoid moist or fluid from entering the motor air inlet.

3.2 Risks during operation

3.2.1 The disinfectant solution



WARNING

General safety rules:

- keep locked up and out of reach of children;
- keep away from food, drink and animal feed;
- if disinfectant is ingested, seek medical advice immediately and show the disinfectant bottle. **DO NOT** induce vomiting.

3.2.2 The battery



BATTERY

During normal operation the 24 V battery causes no safety hazard on their own. Please keep in mind the following safety instructions:

- do not crush, pierce or damage in any way;
- do not heat or incinerate;
- do not short-circuit;
- do not dismantle;
- keep the battery dry;
- only charge between 5 °C ~ 40 °C / 41 °F ~ 104 °F;
- only use between 5 °C ~ 45 °C / 41 °F ~ 113 °F;
- only use the original battery from the manufacturer.

3.2.3 Strong magnets



CAUTION

Please be aware of the integrated magnets that hold the fluid tanks in place.



WARNING

Operators and maintenance crew wearing pacemakers should keep a minimal distance of 6 in/15 cm.



3.2.4 Personal protection



ATTENTION

Disinfectants can be irritating to the eyes. Wear eye protection and use caution when filling the tank. Always keep the spray gun pointed away from your face.



ATTENTION

Clean your hands immediately after filling or draining the disinfectant solution tank.



4 Transport and storage

- do not store the i-fogger® outdoors;
- store the i-fogger in an upright position, in a dry place;
- in case the i-fogger is stored for a longer period, remove the battery. See section 6.2.1;
- before you ship the i-fogger, remove the battery. See section 6.2.1;
- before you store or transport the i-fogger, it is recommended to drain the disinfectant solution tank;
- before you store the i-fogger, it is recommended to clean it with a damp cloth.



5 Assembly and installation

The i-fogger® does not require much assembly, the harness is already attached. You only need to attach the tank, and insert a battery. A battery and a battery charger can be ordered separately.

5.1 Unboxing

The i-fogger is packed in 1 box.

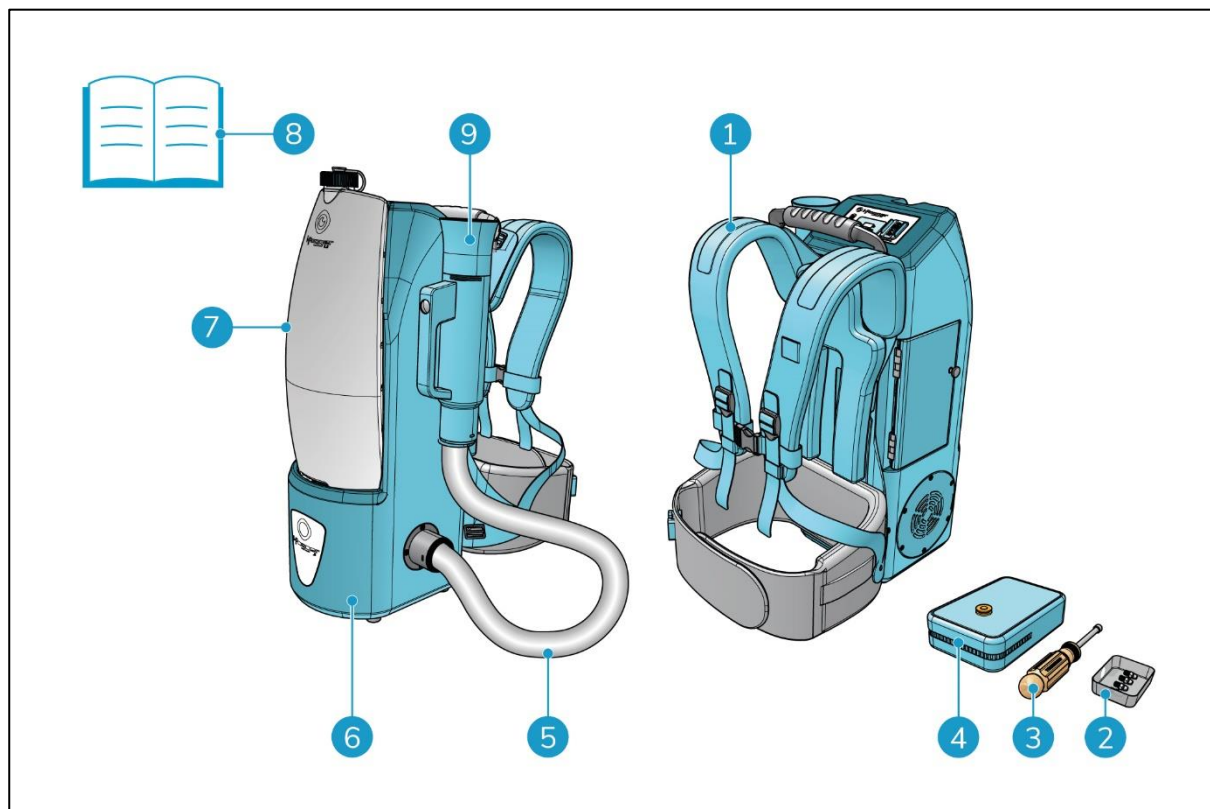


Figure 7

Legend

- | | |
|---------------------|----------------------------------|
| 1. 1x back harness | 6. 1x i-fogger main body |
| 2. 4x spray nozzle | 7. 1x disinfectant solution tank |
| 3. 1x nut driver | 8. 1x this manual |
| 4. 1x accessory bag | 9. 1 x spray gun |
| 5. 1x flexible hose | |



5.2 Assembly

1. Place the i-fogger® on a level surface.
2. Place the disinfectant solution tank (Figure 8, pos 2) on the i-fogger. Press it downwards to make sure that the valve (Figure 8, pos 3) is secured onto the valve stem (Figure 8, pos 4) on the i-fogger body.
3. Press the top of the disinfectant solution tank against the i-fogger body. The magnet (Figure 8, pos 1) locks the disinfectant solution tank in place.

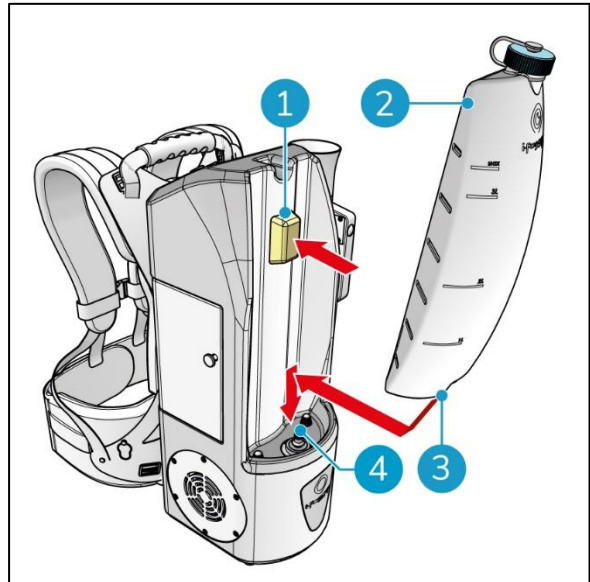


Figure 8

4. Open the hatch (Figure 9, pos 4) in the body of the i-fogger.
5. Ensure that the i-fogger is turned off. To do this check the ON/OFF switch on the i-fogger body (Figure 9, pos 1).
6. Insert the battery (Figure 9, pos 3) in the battery slot (Figure 9, pos 2), until you hear a "click". The battery is now fixated.

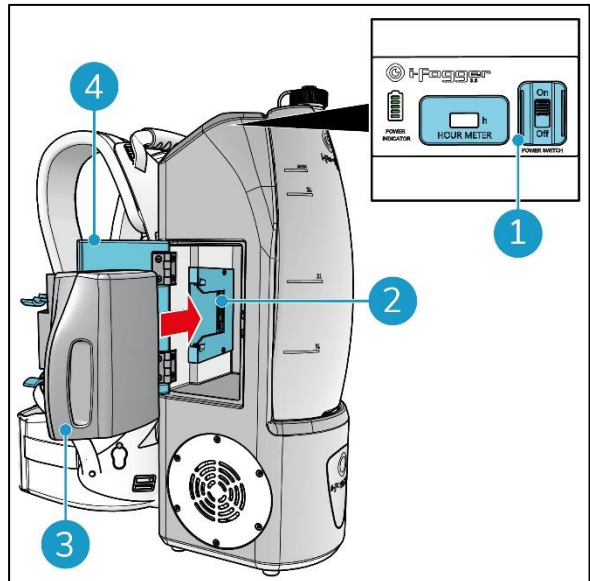


Figure 9



5.2.1 Attaching the right spray nozzle for the job

ATTENTION



- there are 4 different spray nozzles, with each its specific application. Choose the right spray nozzle for the specific job. Please see section 2.3;
- use the nut driver from the accessory bag.

1. Turn the spray nozzle clockwise (Figure 10, pos 1) to attach it to the spray gun.

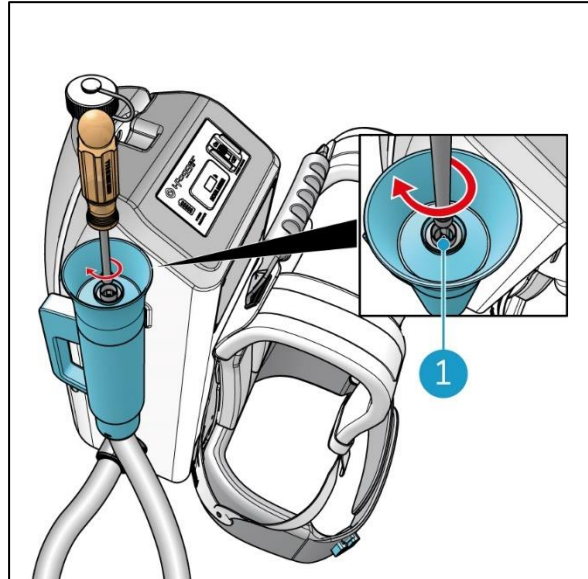


Figure 10



6 Operation

6.1 Before you start



ATTENTION

Make sure that the battery is fully charged before you start. Please refer to the user manual of the i-charge® 9 or i-charge® 14, depending on which type of battery you use.



FIRST TIME USE

If you use the i-fogger® for the first time, please allow the disinfectant solution to work its way through the system. This might take some time.

6.1.1 Checking and topping up the disinfectant solution level

1. Place the i-fogger® on a level surface.
2. Visually check the level of disinfectant solution in the disinfectant solution tank.
3. If the level is low, remove the disinfectant solution tank from the i-fogger main body.
4. Pull the top of the disinfectant solution tank towards you (Figure 11, pos 1).
5. Remove the disinfectant solution tank (Figure 11, pos 2) by pulling it up slightly.

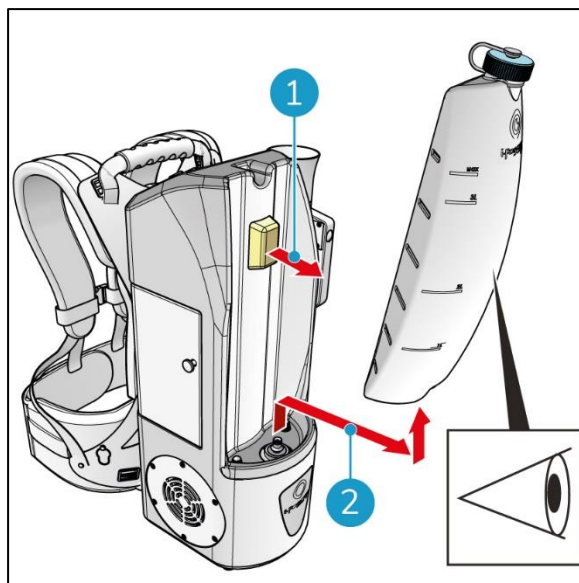


Figure 11

6. Turn the filler cap (Figure 12, pos 1) of the disinfectant solution tank anti clockwise to remove it.
7. Pour in the disinfectant solution.
8. Turn the filler cap of the disinfectant solution tank clockwise to lock it. Make sure it seals tight.
9. Replace the disinfectant solution tank on the i-fogger main body.

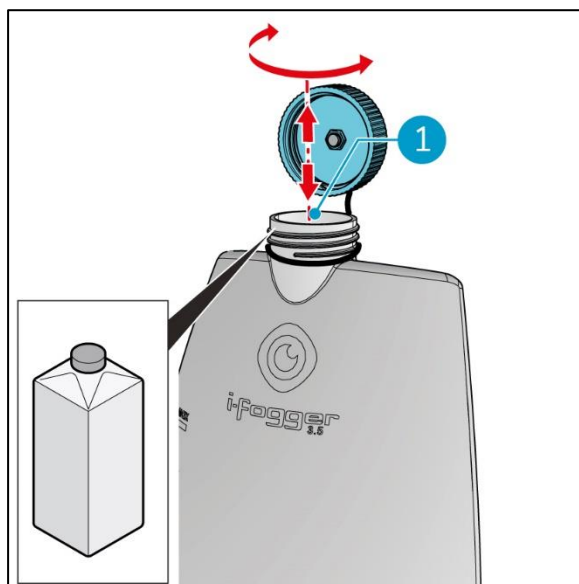


Figure 12



6.2 Operation procedure

1. Place the i-fogger® on a level surface.
2. Ensure that the i-fogger is turned off. To do this check the ON/OFF switch on the i-fogger body (Figure 13, pos 1).
3. Insert the battery in the battery slot (Figure 13, pos 3) until you hear a “click”. The battery is now fixated.
4. Ensure that the disinfectant solution tank (Figure 13, pos 2) is in place.

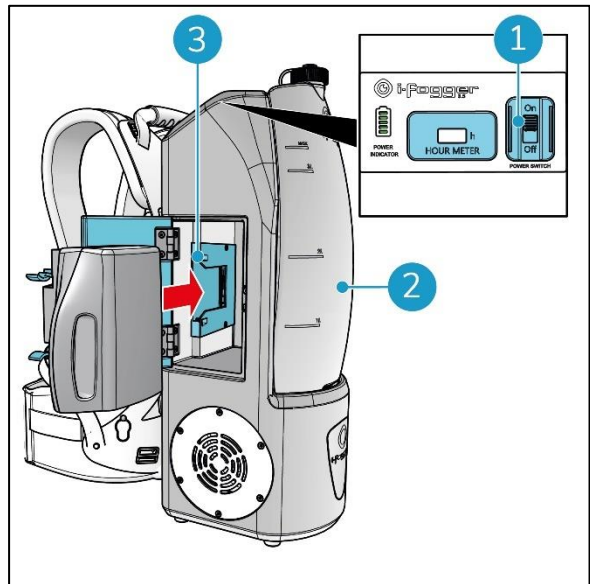


Figure 13

5. Undo the Velcro closures (Figure 14, pos 3).
6. Loosen the 2 buckles (Figure 14, pos 4).
7. Loosen the buckle at the front (Figure 14, pos 2).
8. Press the ON/OFF switch (Figure 14, pos 1) to turn on the i-fogger. The hour meter and the battery power status display light up. See also section 2.1.

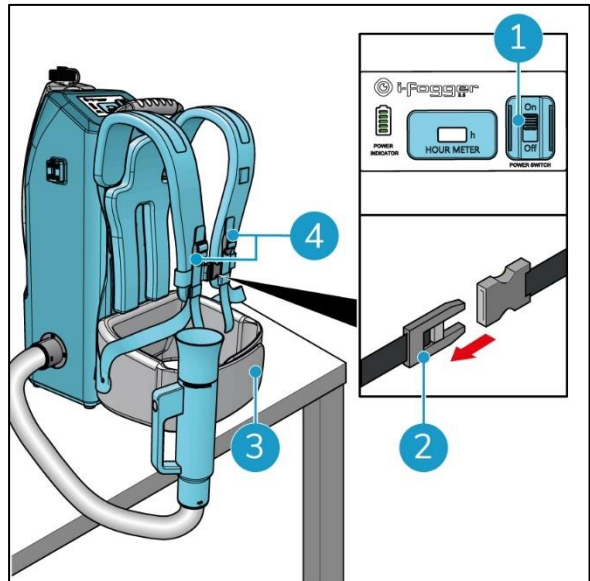


Figure 14



9. Remove the spray gun from the main body of the i-fogger®, and place it on the harness (Figure 15, pos 4).
10. Place the i-fogger on your back (Figure 15, pos 5).
11. Tighten the Velcro closures until they fit comfortably (Figure 15, pos 2).
12. Fasten the 2 buckles (Figure 15, pos 1) until they fit comfortably.
13. Fasten the buckle at the front (Figure 15, pos 6).
14. Walk to the location where you want to spray.
15. Press the self reset button on the spray gun (Figure 15, pos 3).
16. Start spraying.

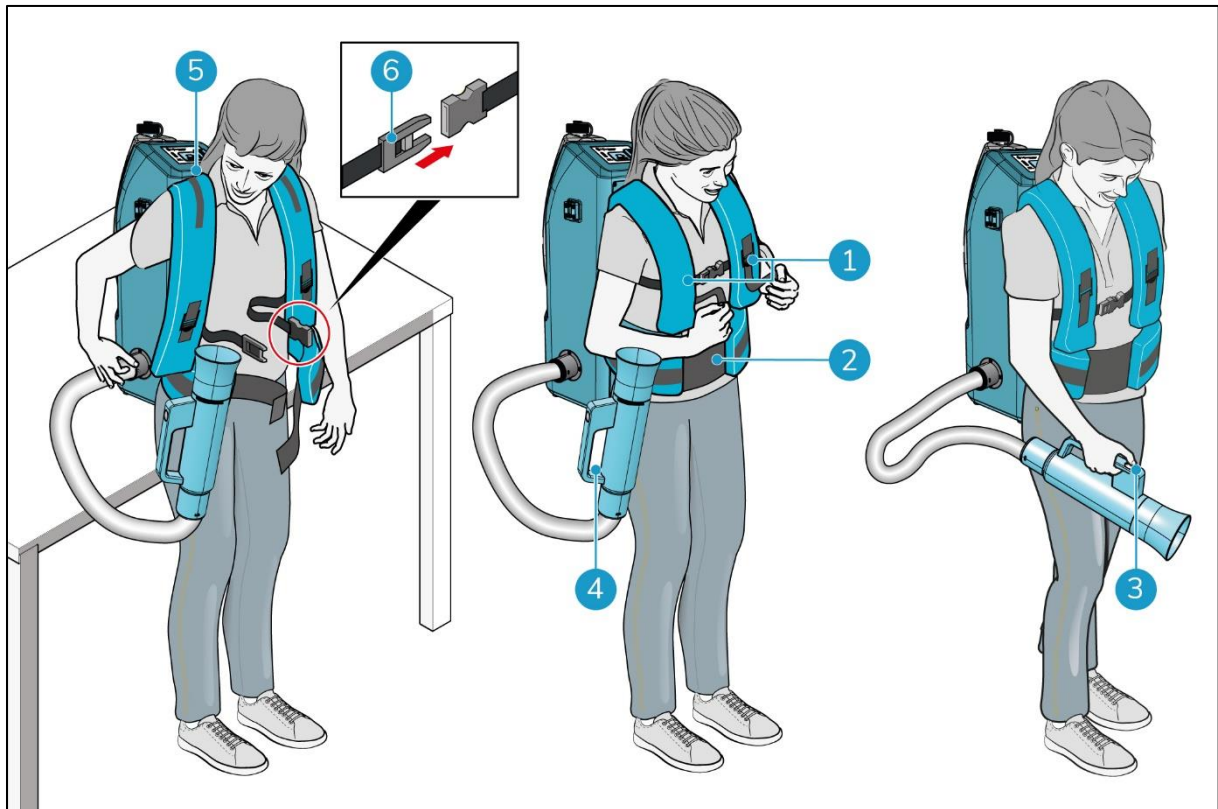


Figure 15



6.2.1 After operation

1. Press the self reset button on the spray gun (Figure 15, pos 3) to stop spraying.
2. Undo the buckle at the front (Figure 15, pos 6).
3. Undo the other 2 buckles (Figure 15, pos 1).
4. Undo the Velcro closures (Figure 15, pos 2).
5. Place the i-fogger® on a level surface.
6. Press the ON/OFF switch (Figure 16, pos 1) to turn off the i-fogger.
7. Place the nozzle back in its upright position on the side of the i-fogger. This is to avoid leakage as there can still be liquid left in the hose.
8. Open the hatch (Figure 16, pos 3).
9. Slightly press the plastic clips together and remove the battery (Figure 16, pos 2).
10. Charge the battery for next use, please refer to the user manual of the i-charge® 9 or i-charge® 14, depending on which battery charger you use.

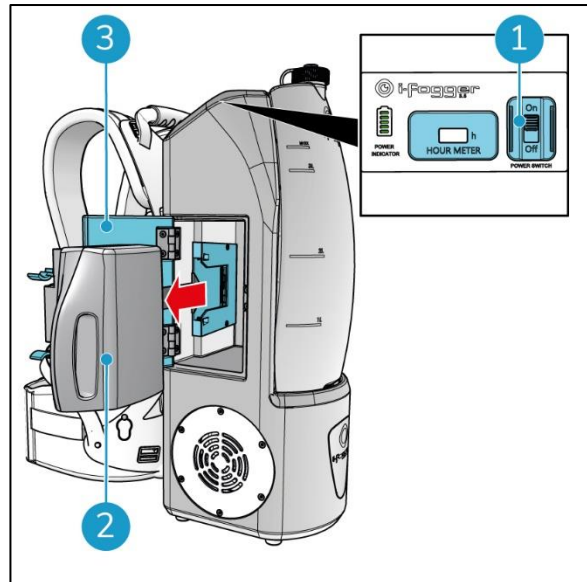


Figure 16

6.2.2 Removing the disinfectant solution tank

You can remove the disinfectant solution tank by following the procedure shown in section 5.2 in reversed order.

6.2.3 Removing the spray nozzle

You can remove the spray nozzle by following the procedure shown in section 5.2.1 in reversed order.



6.3 Cleaning and storage



WARNING

- **DO NOT** clean the i-fogger® with a high pressure cleaner;
- **DO NOT** submerge the i-fogger in water;
- turn off the i-fogger and remove the battery.

6.3.1 Flushing the spray nozzle

To prevent blockage of the spray nozzle, it is recommended to flush the spray nozzle with tap water after disinfecting.

1. Put circa 0.25 l of water in the disinfectant solution tank, see section 6.1.1.
2. Turn on the i-fogger, see section 6.2. The water flushes the nozzle.
3. Turn off the i-fogger, see section 6.2.1.
4. Wipe the spray gun with a damp cloth.

6.3.2 Flushing the disinfectant solution tank and cleaning the exterior

It is recommended to flush the disinfectant solution tank of the i-fogger® daily, to prevent it from being clogged. It is also recommended to clean the outside of the i-fogger as certain chemicals from the disinfectant solution may discolor parts of it.

1. Pull the top of the disinfectant solution tank towards you (Figure 17, pos 1).
2. Remove the disinfectant solution tank (Figure 17, pos 2) by pulling it up slightly.

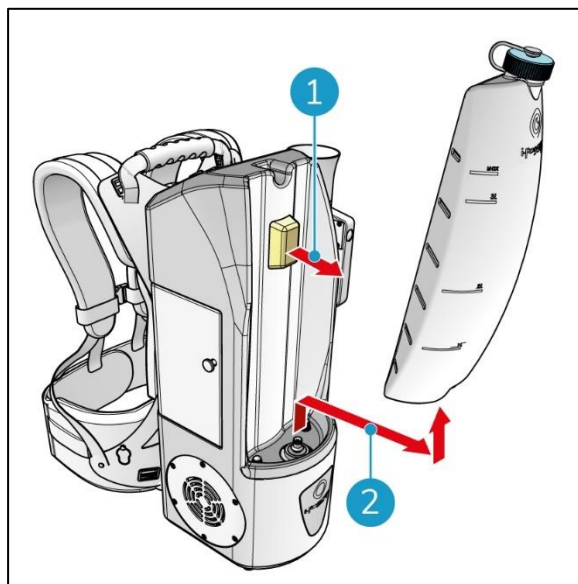


Figure 17



3. Fill the disinfectant solution tank with tap water (Figure 18, pos 2).
4. Carefully shake the disinfectant solution tank and dispose of the waste water properly (Figure 18, pos 1).

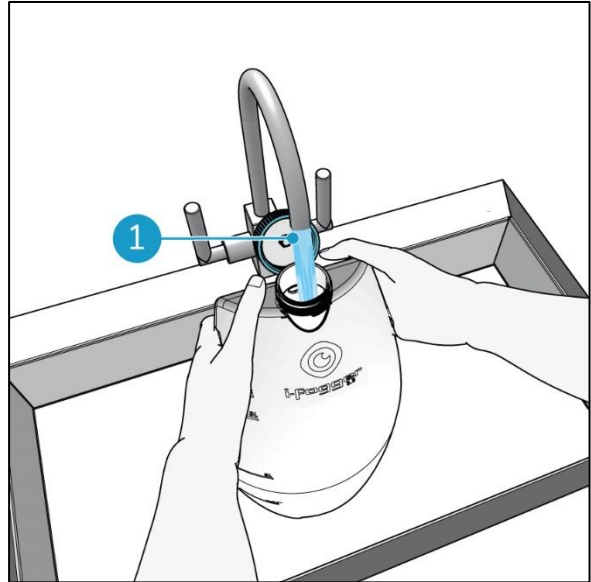


Figure 18

5. Wipe the valve stem (Figure 19, pos 3) and the valve stem plate (Figure 19, pos 4).
6. Wipe the magnet (Figure 19, pos 1) and the magnetic fixing plate (Figure 19, pos 2).
7. Place the disinfectant solution tank back on the i-fogger.
8. Wipe down the i-fogger with a damp cloth.

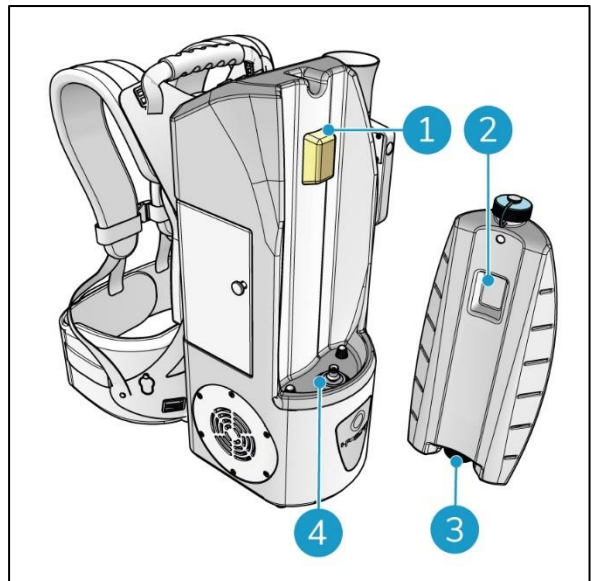


Figure 19

6.3.3 Storage

See section 4.



7 Maintenance

To ensure proper and safe operation throughout the life of the i-fogger® 1.0, it is recommended to have an authorised i-team partner check the machine after the first 50 hours of use and then every 125 hours afterwards.



8 Troubleshooting

Problem	Cause	Solution
i-fogger® does not work	ON/OFF switch and/or self reset button on the spray gun are turned off	Turn on the ON/OFF switch and/or self reset button on the spray gun.
	Empty battery	Charge the battery.
	Battery not correctly inserted	Make sure to reinsert the battery correctly, until you hear a click.
	Only air comes out of the nozzle	Give the disinfectant solution time to work its way through the system. If you have done that and the disinfectant solution still does not come through, the pump might be broken, see i-team partner for repair.
	Disinfectant solution is low	Turn-off the i-fogger. Fill the tank with disinfectant solution.
Fluid leakage	Filler cap is not put back correctly	Check and replace the filler cap correctly.
	The tank cap is not put back correctly	Check and replace the tank cap correctly.
	Tank might not be inserted properly	Remove tank and reinsert.
	i-fogger was stored or transported lying down without draining the tank first	Place the i-fogger upright.
Battery not charging	Battery is end of life	Replace battery.



9 Decommissioning and disposal



ATTENTION

It is the responsibility of the i-fogger® owner to dispose of the product responsibly.

At the end-of-life, the i-fogger still contains valuable resources and needs to be disposed of according to your local laws and regulations regarding recycling of electrical equipment.



Before disposal please:

1. Remove the battery for separate disposal.

TIP:

Alternatively, keep the battery for use in another piece of i-team equipment.

2. Empty the disinfectant solution tank.
3. Remove all loose components, like spray nozzles.
4. Dispose all items according to your local laws and regulations.

TIP:

Contact your local i-team partner to explore all possibilities of returning components at the end-of-life of your i-fogger.



10 Attachments

10.1 CE Certificate



EG/EC
KONFORMITÄTSERKLÄRUNG
DECLARATION OF CONFORMITY

Wir:

We: Future Cleaning Technologies B.V., Hoppenkuil 27b, 5626 DD Eindhoven, Netherlands

Erklären in alleiniger Verantwortung, das das Produkt:

Declare under our sole responsibility that the product:

i-fogger

(Art der Maschine / Type of machine)

i-fogger 3.5
und folgende / and following

(Modell – Seriennummer, Baujahr / Model – serial number, year of production)

auf das sich diese Erklärung bezieht, mit den folgenden Normen übereinstimmt,
to which this declaration relates is in conformity with the following standards,

EN 55014-1:2017, EN 55014-2:2015

(Titel und/oder Nummer sowie Aufgabedatum der Norm(en) oder der anderen normativen Dokument(e)
(Title and/or number and data of issue of the standard(s) or other normative document(s))

gemäß die Bestimmungen der Richtlinien: follow the provision of directives:

EMC 2014/30/EU, ROHS 2011/65/EU, EU 2015/836 Annex II

Eindhoven, 25.09.2020

Frank van de Ven
Director

(Ort und Datum der Ausstellung)

(Place and Date of issue)

(Name und Unterschrift oder gleichwertige
Kennzeichnung des Befugten)

(name and signature or equivalent marking or
authorized person)



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