



# **SILVERGATE**

## **USER'S MANUAL**

# 1. General Information

## 1.0 GENERAL INFORMATION

General Information section explains in general terms the system and the purpose for which it is intended.

## 1.1 SYSTEM OVERVIEW

OZZO.01.21.OM.1 is a system for aerosol dispersal of liquids with mist-forming effect (after this referred to as the system). Ozzo Ukraine LLC produces the system in Kyiv, Ukraine according to Technical Specifications TU U 28.2-43373156-001: 2020.

The system is an effective means of spraying liquid on clothes, shoes and equipment of people. It is suitable for use in any public places, medical institutions, shopping and entertainment complexes, office premises, administrative and multi-storey residential buildings and other areas of mass congestion.

## 1.2 ORGANIZATION OF THE MANUAL

The user's manual consists of six sections: General Information, Components, Assembly manual, Getting Started, Operation Manual and Self-Service section.

General Information section explains in general terms the system and the purpose for which it is intended.

Components section demonstrates the structure of the system and provides a range of components that must be included.

Assembly Manual provides illustrated step-by-step instruction for starting-up the system.

Getting Started demonstrates how to turn on and set up the system before full exploitation. Operation Manual shows how to use the system after completing all installation steps.

The Self-Service section illustrates cases when the owner of the system is allowed to service the system by himself without impact on the warranty period.

## 1.3 SAFETY CONSIDERATIONS

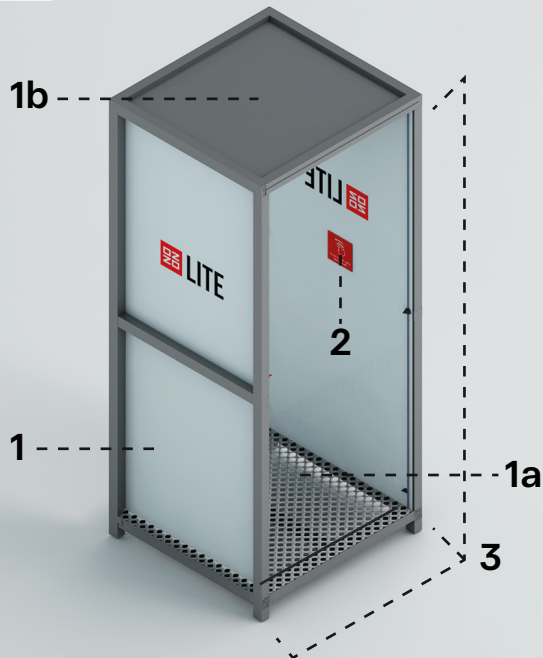
This product has been designed with the greatest concern for safety. Improper installation, adjustment, alteration, service, maintenance, or use can cause conditions which may cause death, personal injury, or property damage. Consult a qualified installer, service agency, distributor or branch for information or assistance. Refer to the instructions packaged with the kits or accessories when installing.

Read these instructions thoroughly and follow all warnings or cautions.

Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies hazards which could result in personal injury or death. CAUTION is used to identify unsafe practices which may result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

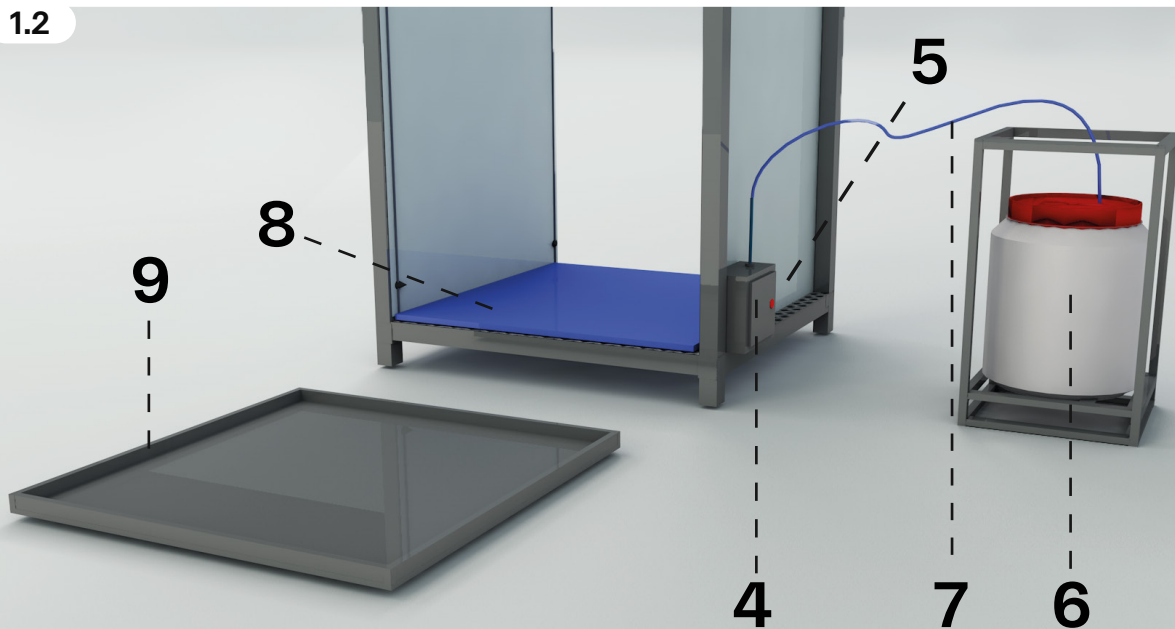
# System's Structure

1.1

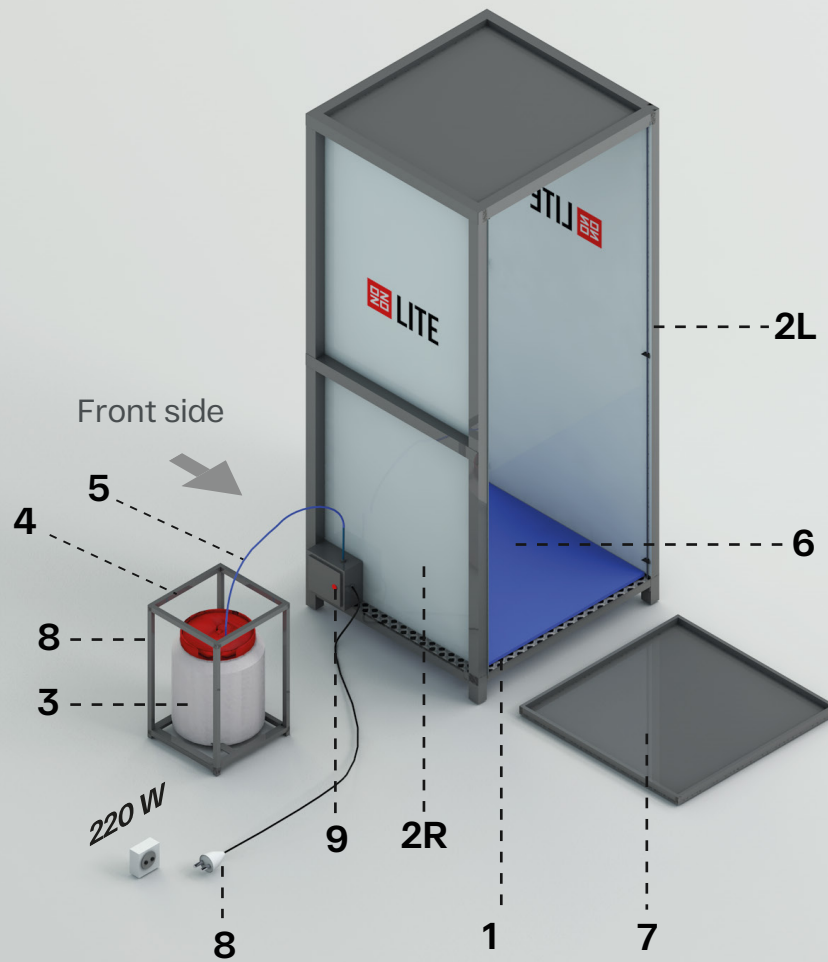


1. The Frame (System)
  - 1a. Base
  - 1b. Roof
2. Motion sensor
3. Fluid mainlines with nozzles
4. Engine
5. Power switch (ON/OFF)
6. Liquid tank
7. Liquid supply hose
8. Rug
9. Drip tray

1.2



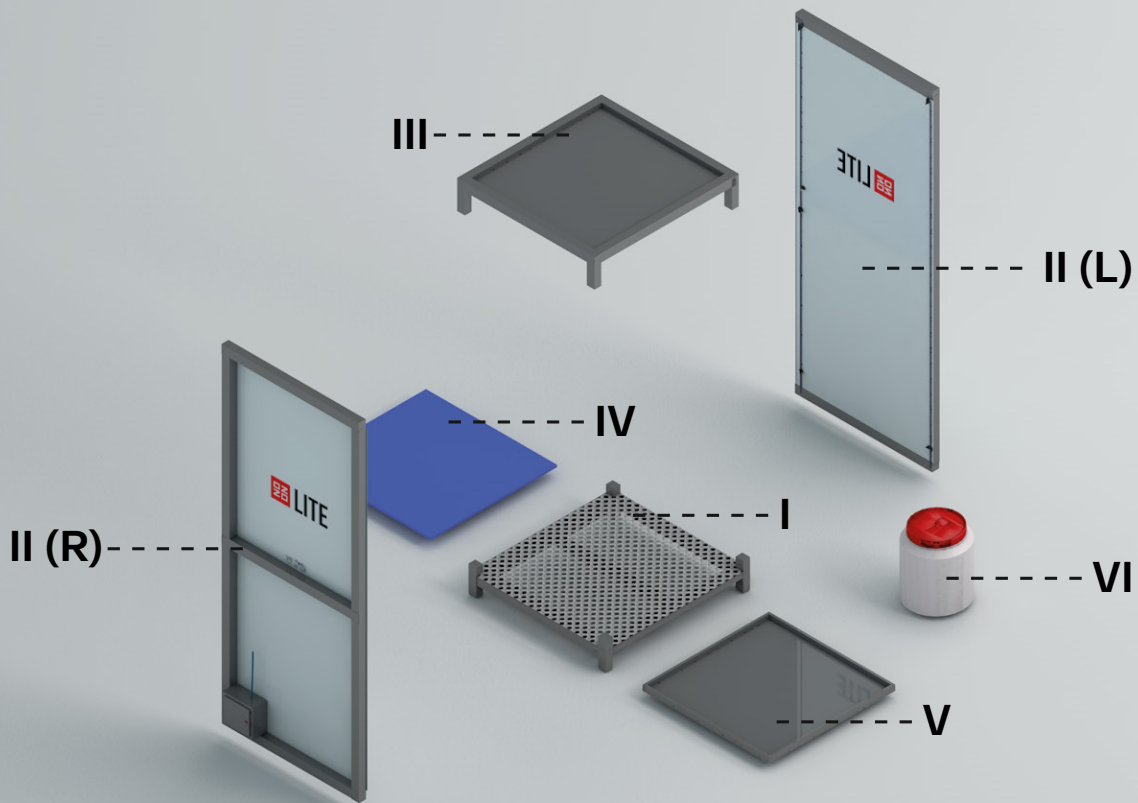
### 1.3



1. The base of the system;
2. Two sidewalls (left - 2L - is regular, right - 2R - is with an engine);
3. Liquid tank;
4. Tank stand;
5. Liquid supply hose;
6. Rug;
7. Drip tray;
8. Power connection;
9. Engine (equipped with ON/OFF button)

# 2. Components

2.1

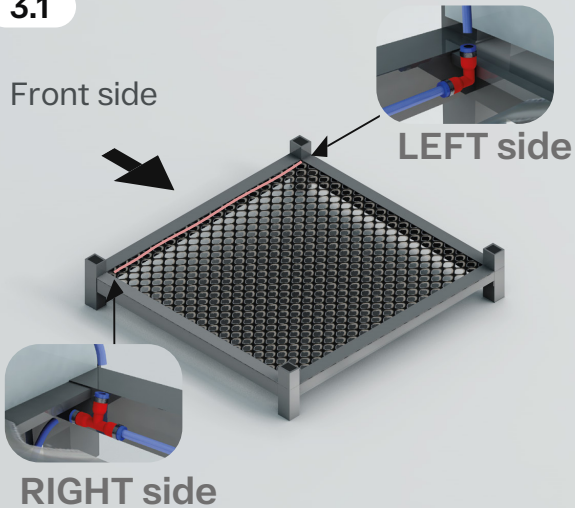


- I. The base of the system; Two
- II. sidewalls;
- III. Roof;
- IV. Rug;
- V. Drip tray;
- VI. Liquid tank (with a stand);

# 3. Assembly Manual

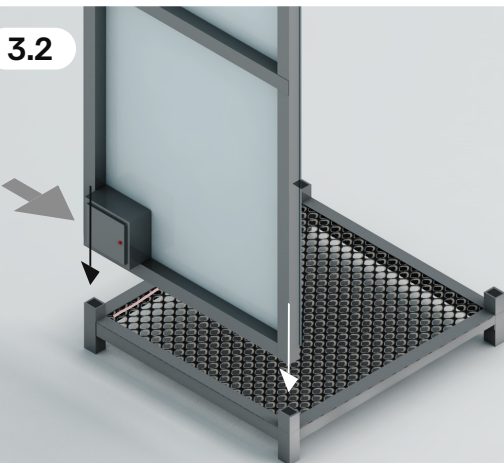
3.1

Front side



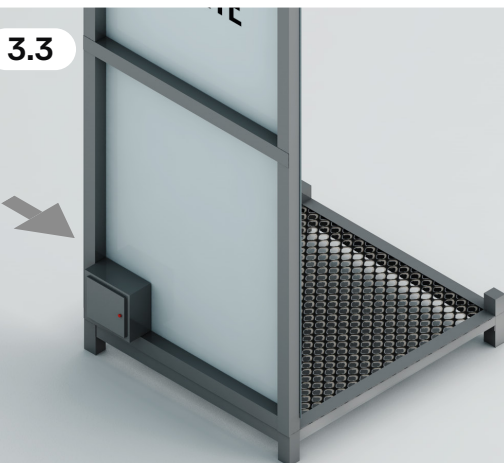
3.1. Place the base (I) at any flat surface, or where the system is to be used (inside or outside). Identify the front of the base by facing the tube that is mounted along one side of construction (Fig. 3.1).

3.2



3.2. Take the right wall (II-R, with integrated engine) and connect to the right side of the base (Fig.3.2).

3.3



NOTE: The wall is considered to be correctly installed when both parties are tightly fixed to the base (Fig.3.3).

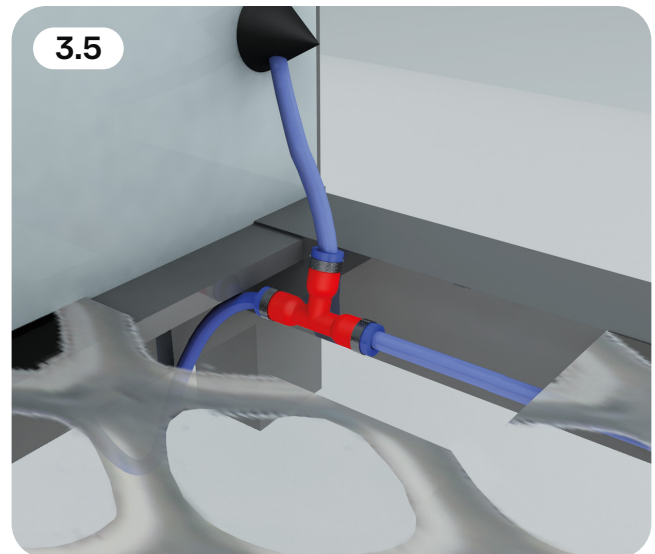
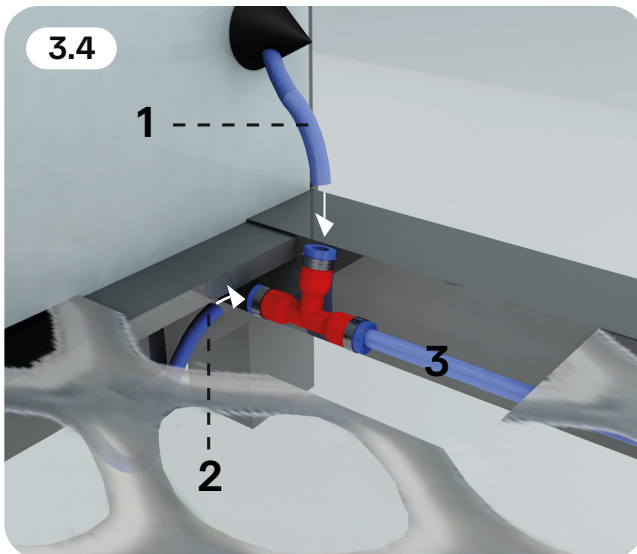


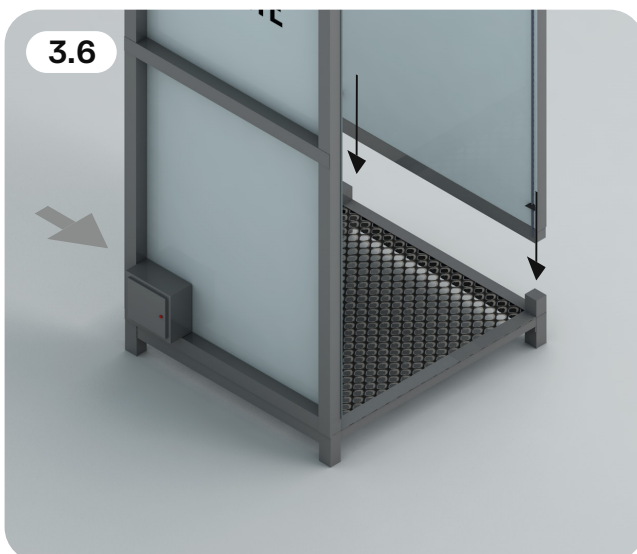
Fig.3.4

1. Vertical mainline
2. Right side motor tube

3.3. Take the blue T-shaped fitting which is mounted to the central mainline (3) and connect it to the vertical tube (1) that attached along the entire side of the right wall (Fig.3.4 - 1). Take another side of T-shaped fitting (3) and connect it to the tube that sticks out of the engine, on the outside (Fig.3.4 - 2).

NOTE: The sound of "click" would indicate that the T-shaped fitting was correctly connected to the hose.

NOTE: Proceed to the next step by making sure that the connection of fitting and two tubes have been made accurately (Fig.3.5).



3.4. Take the left wall (II-L) and connect it to the left side of the base, until a tight contact as in Fig. 3.6.



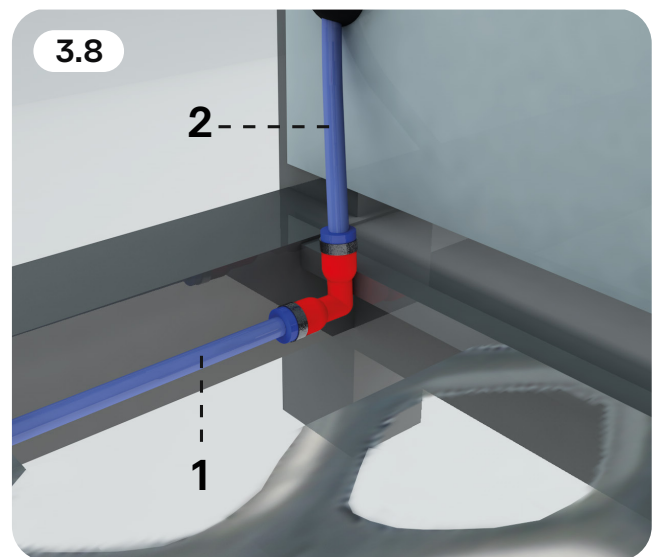
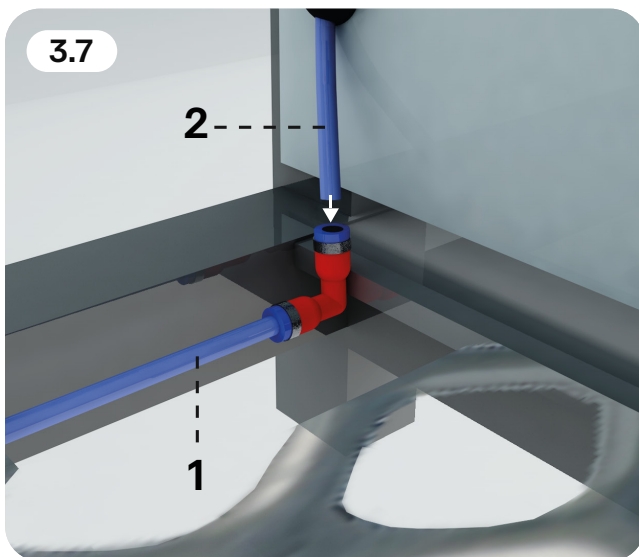


Fig.3.7

1. Central mainline with fitting;
2. Left side vertical mainline;

3.5. After installing the left wall, connect the central mainline with T-shaped fitting (1) with the vertical mainline that attached along the entire side of the left wall (Fig.3.7- 2).

NOTE: The sound of "click" would indicate that the T-shaped fitting was correctly connected to the hose. Proceed to the next step by making sure that the connection of fitting and two tubes have been made accurately (Fig.3.8).

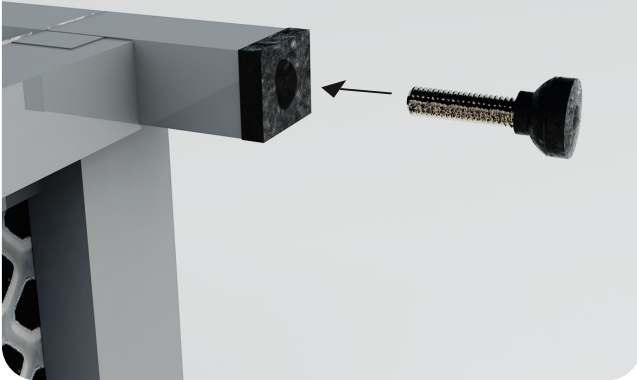
NOTE: the correct connection is showed on the Fig.3.8.



3.6. Insert the roof (III.) into the four slots at the top of the walls. Lower all four sides of the roof simultaneously (Fig.3.9) . The contact must be tight on all sides (Fig.3.10).



3.11



3.12



3.7 Put the system horizontally on the left wall (which is without a motor). Screw in the bolts into the four plastic slots of base's legs (Fig.3.11).

**Caution:** Do not screw in the bolts to the contact with the plastic slots. Leave enough space (6-7 bolt turns) to allow for the required height (5-6 cm) of the pallet insert (Fig.3.12).

**WARNING:** Do the p.3.7 with additional assistance. Weight of the system may cause danger for health or life.

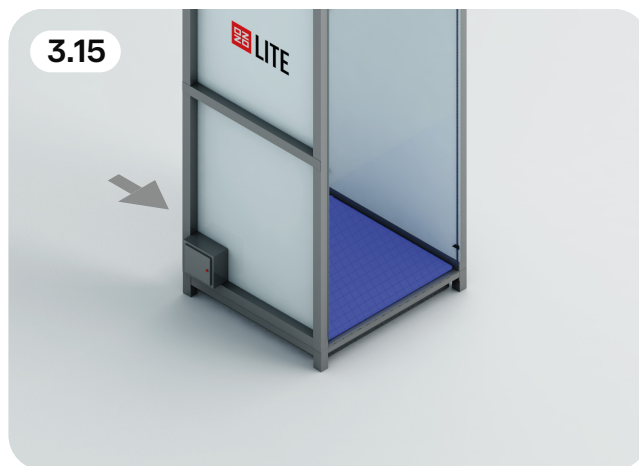
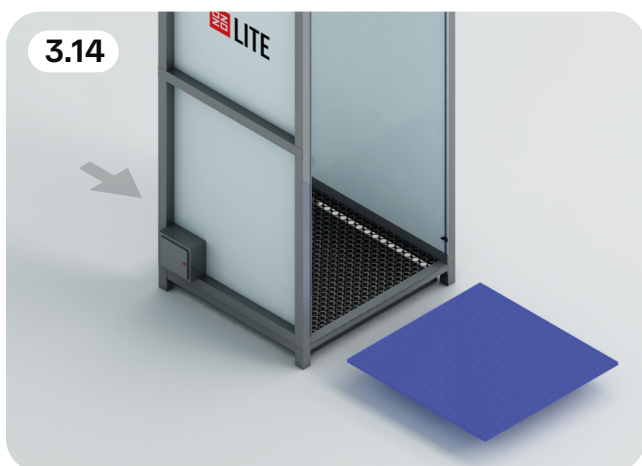
3.13



3.8. After performing p. 3.7., install the system vertically (in full height). Place the drip tray (V.) under the base of the system (Fig. 3.13). If the tray does not fit the base, return to p. 3.7 and increase the height of the system. To increase the height - untwist the bolts equally at all legs.

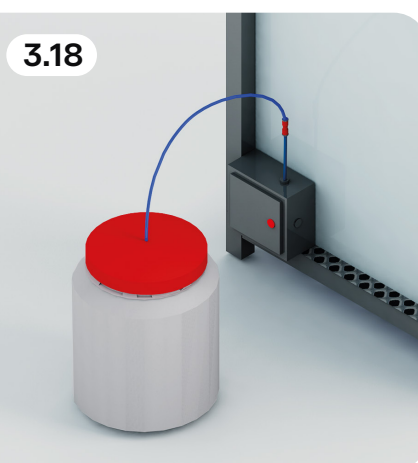
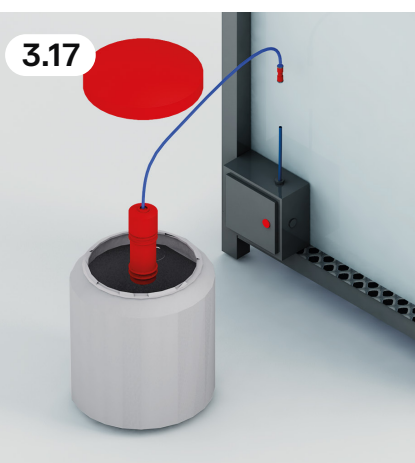
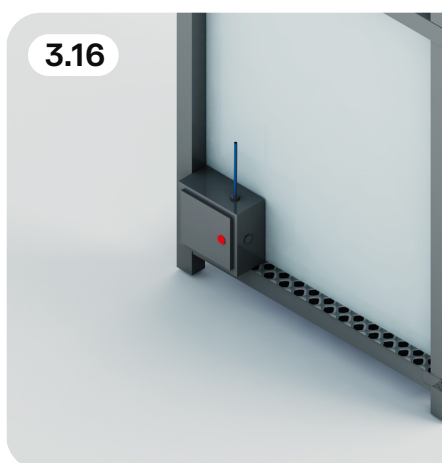
After finishing p. 3.7. and 3.8., calibrate the system independently by adjusting the height of each side of the system.

**NOTE:** the correct completion of p.3.7 would bring that the system does not have any looseness during the usage.



3.9. Place the antibacterial carpet (IV.) on top of the metal base of the frame (Fig. 3.14).

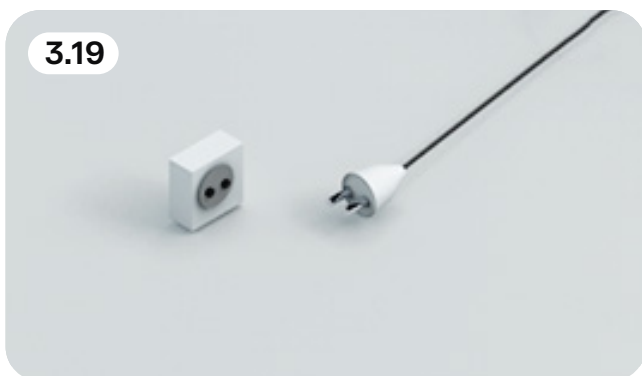
NOTE: The PVC grid should be face up, and the PVC fabric with drainage holes face down (Fig.3.15). Make sure the mat is installed correctly to maintain the antibacterial effect and prevent injury.



3.10. Fill the tank with the necessary liquid (for the first start-up – distilled water is recommended). Put the cleaning filter attached to the tube inside the tank with liquid (Fig.3.17) and close the lid tightly (Fig.3.18).

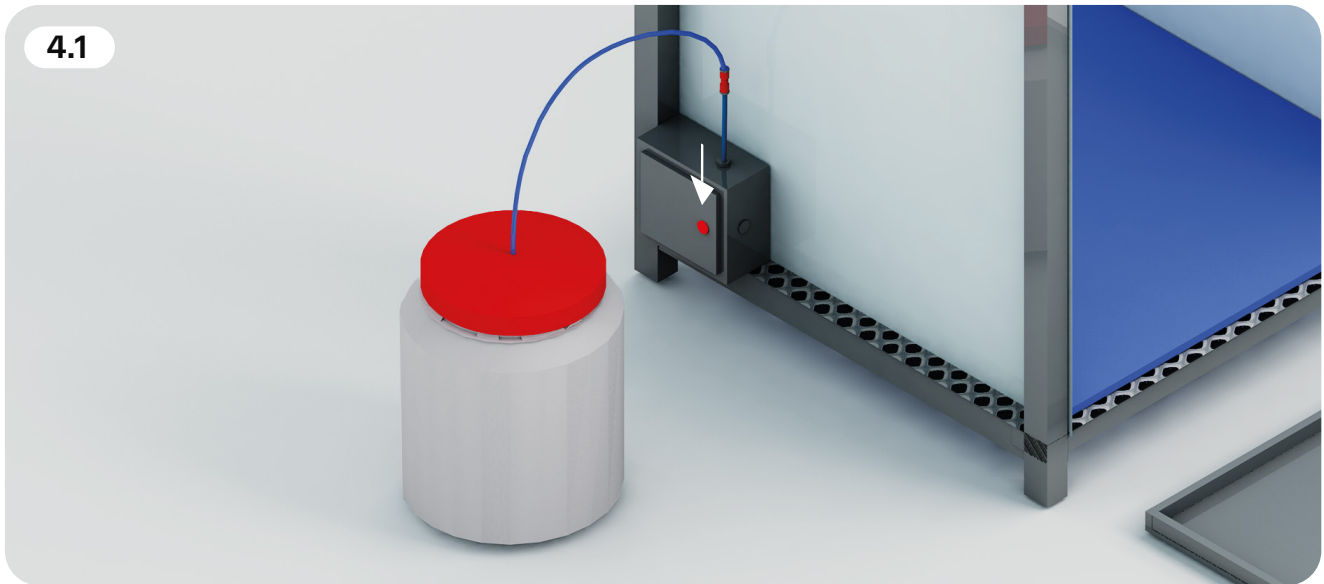
Connect the tank hose with the 15cm tube (Fig.3.16) that sticks to the engine (on the outside of the right wall) using a direct blue fitting (Fig.3.18).

NOTE: Do not fill 100% of the tank with liquid. Keep at least 10% of space for cleaning filter.



3.11. Connect the system to a 220V network (Fig.3.19).

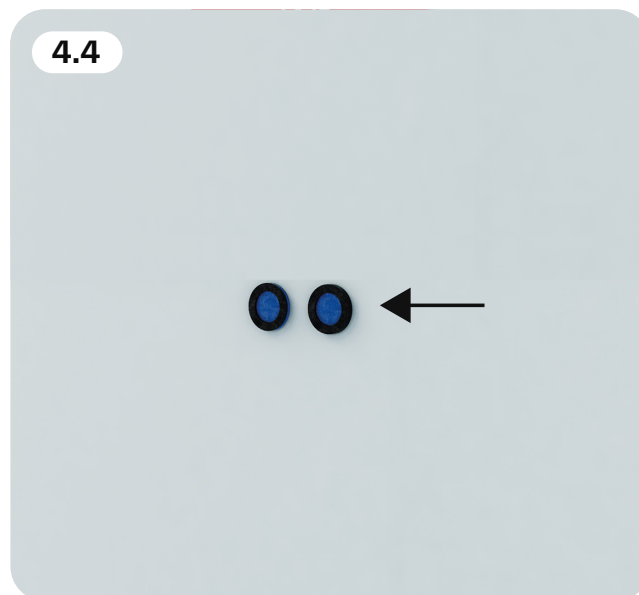
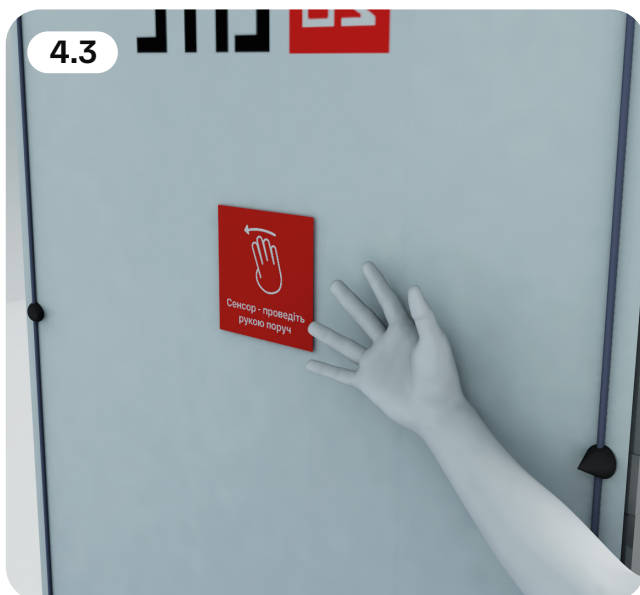
# 4. GETTING STARTED



4.12. After connecting the system to the mains, switch on the engine (on/off button) on the right side of the system (Fig.4.1).



4.13. Make sure that all nozzles have the correct tilt angle (45°). If the direction is not satisfactory, it can be corrected manually (Fig.4.2).  
NOTE: Do not put force to move fittings. Directions change by slight effort.



4.14. The system can be equipped with a motion sensor or with an optical sensor (see the configuration of Your system). In the first case, as on Fig. 4.3 the activation of the system requires wave with the hand close to a sensor (2-3 cm). In the second case (Fig.4.4), no action required – the person has to enter the system, and it will activate the spraying session automatically.

NOTE: Despite the type of sensor, the motion unit is located on the right wall (inside).

4.15. To start the system, perform 5-6 spraying sessions by moving the hand near the motion (Fig.4.3) or optic sensor (Fig.4.4). The system will pump the liquid through all mainlines and start the complete sprayings after 7-8 test sessions.

NOTE: If nozzles are not starting complex spraying of the liquid after test sessions, go to P.3.3, P.3.5 and check the density of the connection between fittings and all lines.

NOTE: If the system had a downtime (2-3 days), steps for pumping up system (paragraph 4.3.) would be mandatory before usage.

# 5. Operation Manual

## 5.1 PREPERATOTY STEPS:

5.1.2 Make sure that the system's engine (located on the right wall) is turned ON; 5.1.2. Check the amount of liquid in the tank. NOTE: It has to be above min. level and below max. level.

5.1.3. Spraying nozzles must have the right angle;

## 5.2 USAGE:

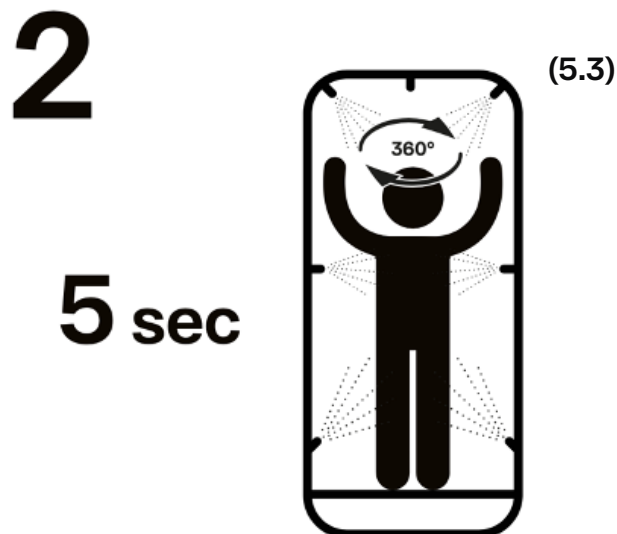
5.2.1 Enter the system by stepping in the middle of the base (Fig.5.1).

5.2.2 Move Your hand near motion sensor (located on the right wall) or wait until the system launches automatically (Fig.5.2).

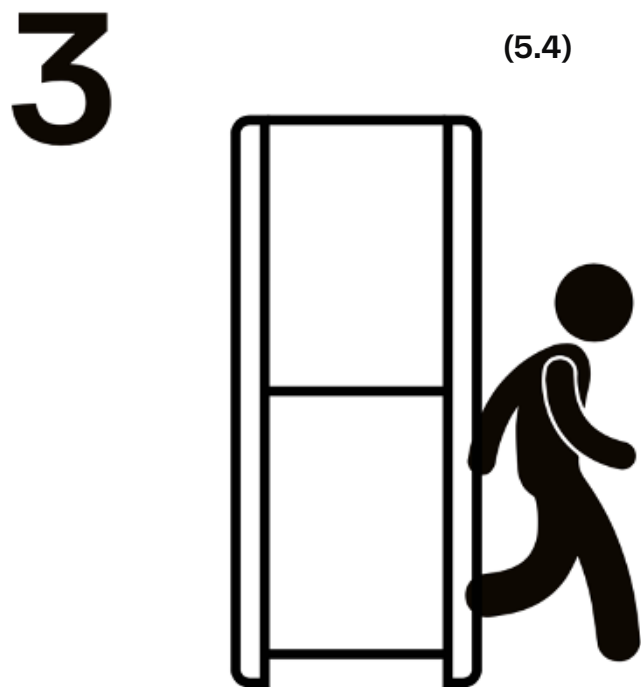


5.2.3 When the system activates spraying session – make a 360° spin around (Fig.5.3).

5.2.4 Stay in the svstem durinda the entire session (5 seconds). Fig.5.3.



5.2.5. As soon as the system finishes session – proceed to exit (Fig.5.4).



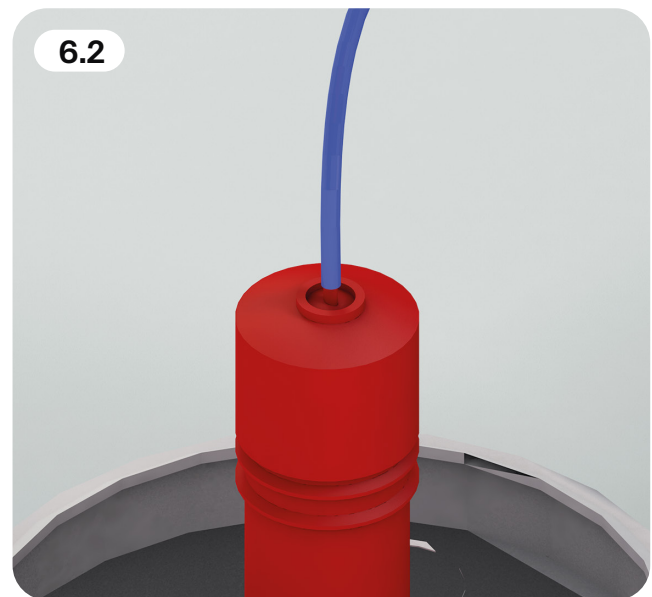
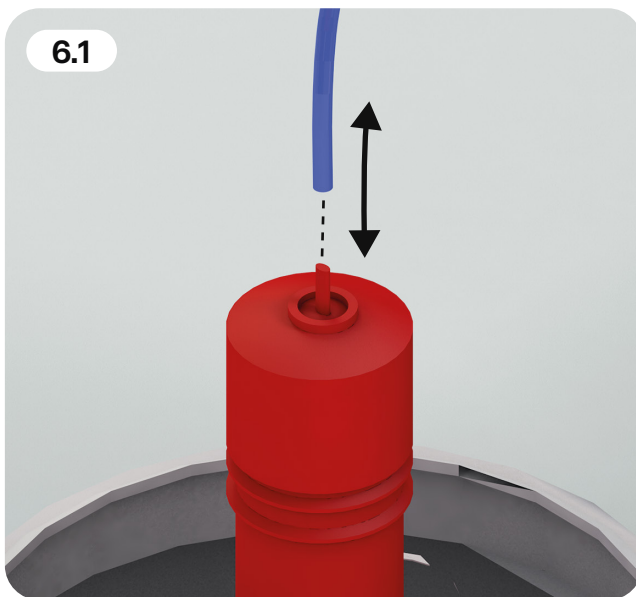
5.2.6. Next person can come in when the "spraying fog" has cleared (3-4 sec. after the previous session).

To reactivate the system – repeat actions from paragraph 4.2.1.

Warning: depending on the type of liquid that is being used, the system's user may need to close their eyes and hold one's breath during 5-6 sec. session. If the liquid has such requirements, the owner of the system must inform users by himself (usually with a warning sign).

# 6. System's self service

**CAUTION:** Read the instruction carefully before making any self-adjustments. In case any problems with the System arise, please check the correctness of installation and functioning of the product in accordance with the Operating Manual before appealing to the manufacturer or seller. Do not make any unauthorised adjustments without competent assistance. Become acquainted with information in the System's warranty card before making changes or starting self-service actions.

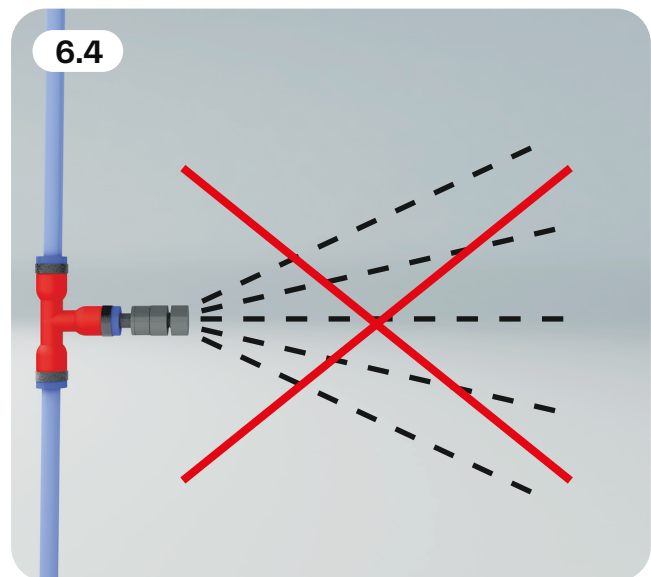
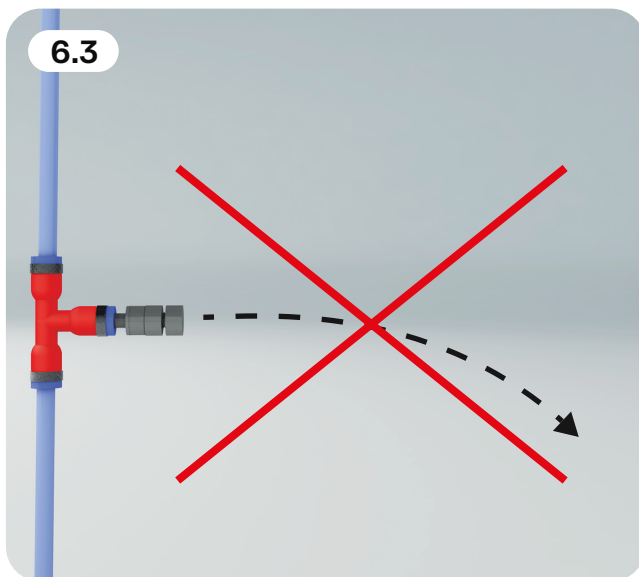


## 6.1. Replacement of cleaning filter (located inside the tank)

The coarse filter is designed for six months of trouble-free operation. To change the filter, it is necessary:

1. Unscrew the tank lid;
2. Pull the filter out of the tank;
3. Disconnect the tube from the filter (Fig.6.1);
4. Attach a new filter to the tube (pull on the nozzle), Fig.6.2;
5. Put the filter in the tank;
6. Close the lid of the tank.



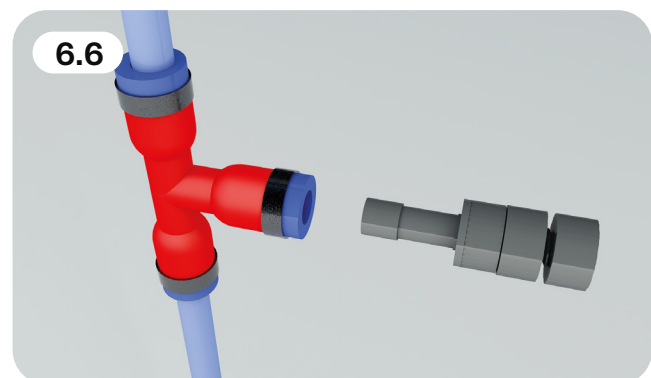
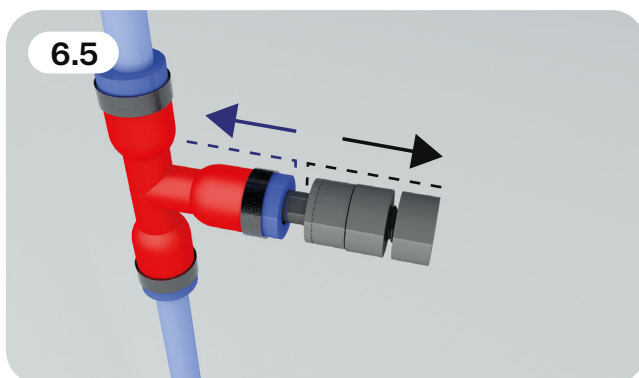


## 6.2. Independent nozzle blowing

Partial or complete replacement of the nozzles would be mandatory as a result of the use of insufficiently cleaned liquid or as a result of dirt/sand particles entering the system piping.

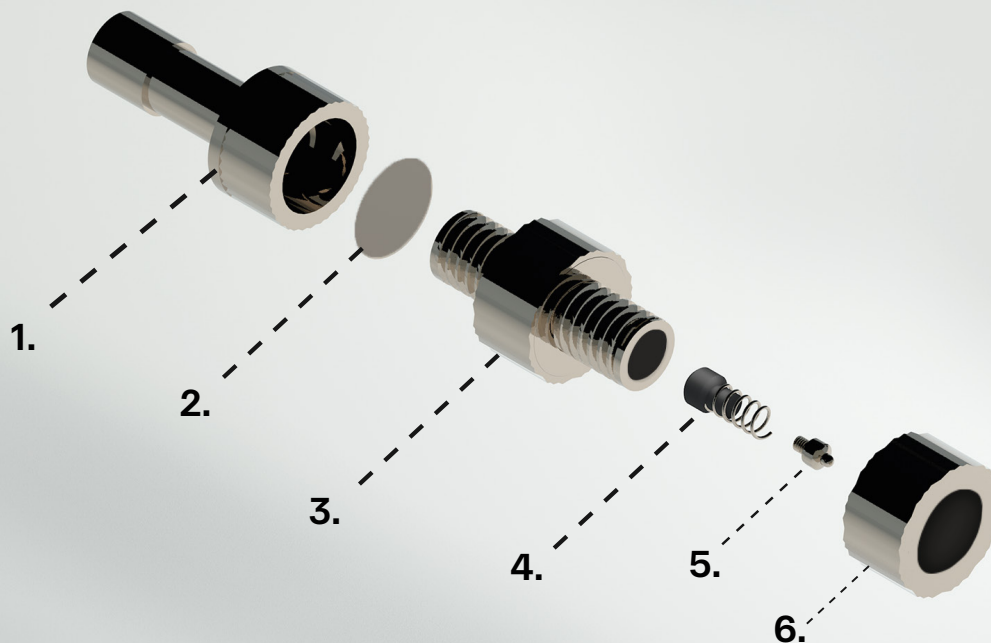
### Issue:

1. The nozzle does not spray the liquid but lets it through with a jet (Fig.6.3)
2. The nozzle is not letting liquid through (Fig. 6.4)



**Solution:** 1) Press the blue ring on the base of the fitting and instantly remove the nozzle from the fitting (Fig.6.5). Disconnect the nozzle from the fitting which is installed in the line, as shown in Fig.6.6.

## 6.7



2) After disconnection, the nozzle must be disassembled into six parts (by hand) of which it stands. The components of the nozzles are shown in Fig. 6.7.

1. Base
2. Filter
3. The body
4. Spring
5. Valve.
6. Nozzle head

3) Elements #1/3/6 **must be blown with warm air.**

4) After completion of steps 1-3, the nozzle has to be reassembled (stage 6 to 1 in p.2) and connected to the systems.

5) Turn on the system, make 5-7 testing sessions to pump the system with the filled liquid and report on results in the passport.

### 6.3 Issue: Fittings are leaking.

**Solution 1:** check the quality of the connection between fittings and mainlines. You must hear a click that indicates a successful connection.

**Solution: 2.** If droplets do not disappear, disconnect fitting and attach another fitting that each system is equipped with.

Each system is supplied with a spare parts package as part of the system:

1. Nozzle 0,3  $\mu\text{m}$ , 6 mm - 1 pcs.
2. Fitting T-shaped 6x6x6 mm
3. Fitting L-shaped 6x6 mm

## **WARNING!**

Do not remove the stickers covering the sensor. It protects the sensor against moisture and water ingress. Dislodging the "sensor" sticker will result in system failure.

The warranty will not cover the failure of the system for this reason.

