



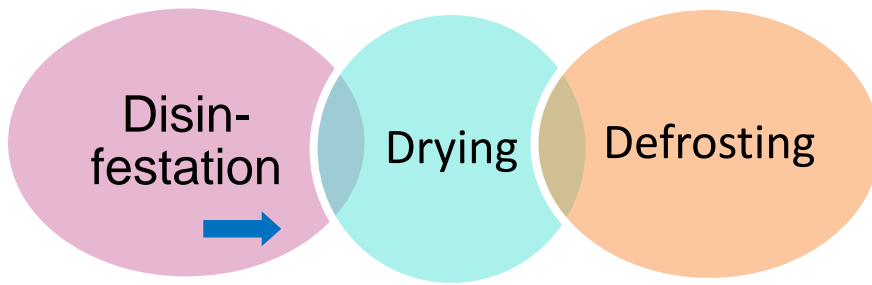
Shashel  
շաշիւլ

2018

[Operating manual.  
Instruction booklet]

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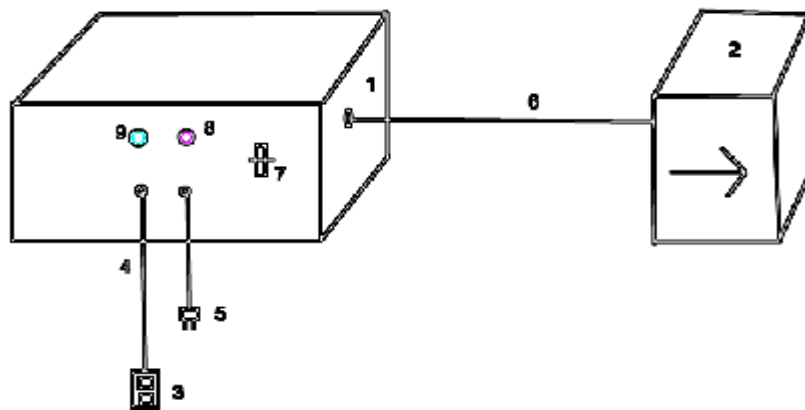
## 1. DEVICE APPLICATION

The Shashel Microwave device is designed for safe use in many settings, including private homes, warehouses, food storages, and containers. It can be used for many purposes:

- Elimination of bacteria, fungi, mould and pests, such as woodworm;
- Drying of walls, including after plastering;
- Speed-drying of adhesive joints etc. ;
- Defrosting of walls and other structural elements in cases of water leakage, and for the purposes of waterproofing, and other construction work;
- Liquid glass foaming.

## 2. DEVICE CONFIGURATION AND STRUCTURE

The **Shashel device** is a remotely controlled microwave generator, made up of a **power unit**, a **microwave unit**, and a **remote control panel**.



PICTURE 1

1. Power unit
2. Microwave unit
3. Remote control panel
4. Remote control panel cable
5. Power cable
6. Generator unit power cable
7. Power toggle switch
8. Red indicator (Microwave generator switch-on)
9. Green indicator (Power switch-on)

### 3. CONNECTION, SETUP, OPERATING PROCEDURE

1. **Connect the device to 220-240V, 50 Hz power supply using the power cable (5 in picture).**
2. **Place the microwave unit (2 in picture) against the surface to be treated (the direction of microwave action is indicated by the arrow).**
3. **Turn the power supply on with the toggle switch (7 in picture). Make sure that the green indicator light is on (9 in picture).**
4. **Stand at least 5 meters away from the microwave unit.**  
**You do not need any Personal Protective Equipment, 5 meters away is absolutely safe. 5 meters from the side or rear of the microwave. If facing the front of the emitter then allow more than 12 meters if it is not in contact with any surface, like walls but emitting into an open space.**
5. **Turn microwave unit on by pushing ON button on remote control panel (3 in picture). Make sure that red indicator light is on (8 in picture).**

**TREATMENT TIME DEPENDS ON OBJECT THICKNESS, HUMIDITY, INDIVIDUAL CONDITIONS, ETC. AND IS DETERMINED EXPERIMENTALLY. IT CAN RANGE FROM 2 TO 17 MINUTES.**

Treatment time is determined in the following way:

Use device to heat an area of cold material (e.g. timber) for *one minute*, then move device to heat adjacent area for *two minutes*, then move to heat next area for *three minutes* and so forth until the timber changes colour (wood will slightly darken). Once colour change occurs, treatment time is determined by subtracting one minute: e.g. *if timber changes colour after 8 minutes of heating, then total treatment time should not exceed 7 minutes.*


Treatment time will depend on particular conditions of the timber (grade, moisture, thickness, etc.).

6. **Turn microwave unit off by pushing OFF button on remote control panel (3 in picture). Make sure that the red indicator light on power unit is off and let device cool down for 2-4 minutes.**
7. **After cooling down phase (When you switch off, return and reallocate as a generalization 2 minutes will have passed by then), move microwave unit to next area to be treated and repeat steps 4-6.**
8. In order to finish operation, the microwave unit needs to be switched off on the remote control panel, and the power supply disconnected by using the toggle switch on power unit. **Make sure that the green indicator light on power unit is off.**
9. Unplug device for storage.

#### 4. SAFETY PRECAUTIONS

1. A person standing near the microwave unit can be exposed to a strong electromagnetic field.

DURING OPERATION, YOU SHOULD AT ALL TIMES BE AT LEAST 5 METRES AWAY FROM THE MIROWAVE UNIT.

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2. BE CAREFUL! During operation, the device is powered by high voltage. When the device is powered on, under no circumstances touch the microwave unit with any earthed system, including water-supply pipes.
  3. REMEMBER! The device should only be operated under supervision. Always switch off the microwave unit and power unit and unplug the device when not in use.
  4. If there is electric wiring and/or cables in the treatment zone, they must be disconnected from their power source. Do under no circumstances direct the microwave unit onto cables in a corrugated metal tube!
  5. Keep the entire device away from water and animals
  6. Keep the microwave unit's display clean. Severe contamination can cause damage to the unit.
  7. Never cover the device's cooling fans to avoid equipment damage.
  8. Do not operate defective equipment.
  9. If the device is defective contact the manufacturer.
  10. Use the device only as described in this manual. The safety instructions do not comprise all possible cases and situations. As a user you must apply common sense, use sound judgment and be careful during installation, maintenance, and operation of the device.

#### SPECIFICATIONS

Material - aluminum, galvanized metal

Size of treatment area – 300 x 300 mm.

Power(frequency) - 1.5 kW (2450 MHz)

Operating duty – cyclic: 0.5-17 minutes of operation, 2-4 minutes of cooling down.

Supply voltage - stabilized 230 V, 50-60 Hz

Length of remote control cable – 15 meters.

Net weight – 16 kg.

Cooling – air.

Made according to - ISO 9001:2008 / CE

#### 5. CONTENT OF THE PACKAGE

1. Microwave device for the disinsection of wood and wooden structures Shashel.net
2. Instructions.

CE Marking Brand: Shashel® Models: basic / wall insecticide, insecticide for complicated places, insecticide for restorers. Year of manufacture: 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 regulations: • 2006/95 / EC (73/23 / EEC), the Low Voltage Directive. • 2004/108 / CE (89/336 / EEC), Electromagnetic Compatibility Directive.

It is manufactured in accordance with the quality system: ISO 9001: 200

## 6. MANUFACTURER'S WARRANTIES

- 1) 2-year warranty on materials and manufacturing quality.
- 2) exceptions and limitation of the guarantee:
  - a) the guarantee is only valid within the indicated period.
  - b) negligence, improper or inappropriate use.
  - c) failure to comply with the instructions for installation, maintenance and use.
  - d) changes or attempts to repair, unauthorized technical service after the sale.
  - e) manipulation by third parties or any other reason for which the normal operating conditions of the Shashel insecticide differ, or are out of control, such as fires, floods, earthquakes, lightning strikes, etc.
  - f) damage caused by overvoltage due to an inadequate power supply.
  - g) in case of inadequate transportation.

## SCOPE OF SUPPLY

1. Shashel microwave device.
2. Operating manual.

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28.9-30885072-001:2014 CE marks

Manufacturer: shashel.net

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