



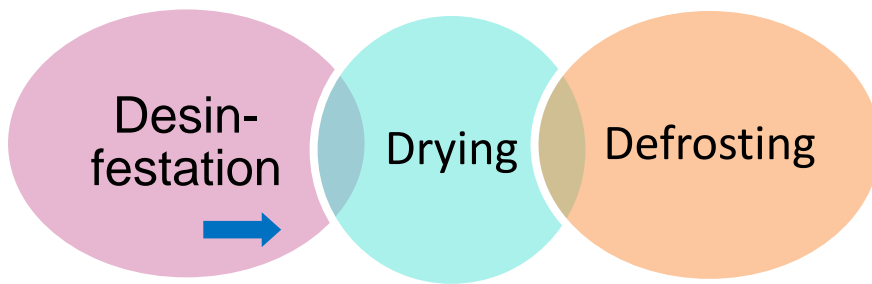
[Shashel]

2014

[Operating manual.  
Instruction book]

## CONTENT

1. <u>DEVICE DESIGNATION</u>	2
2. <u>DEVICE CONFIGURATION AND STRUCTURE</u>	2
3. <u>CONNECTION, SETUP, OPERATION PROCEDURE</u>	3
4. <u>SAFETY PRECAUTIONS</u>	3
5. <u>SPECIFICATIONS</u>	4
6. <u>SCOPE OF SUPPLY</u>	5



## 1. DEVICE DESIGNATION

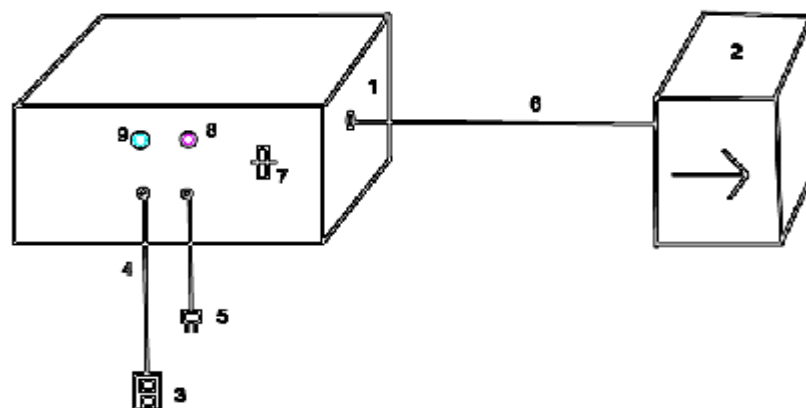
Microwave unit is designated for:

- Fungus treatment and disinfection of warehouse, civil works, vegetable stores, containers elements.
- Wall drying and bacteria treatment, including after plastering, treatment against wood-boring beetle and mould.
- Deep defrosting of walls in places of water escape, for waterproofing, and other construction works, liquid glass foaming.
- Defrosting of structure elements.
- Adhesive joints fast drying, etc.

## 2. MICROWAVE UNIT CONFIGURATION AND STRUCTURE

Microwave unit is remote control microwave electromagnetic field generator.

*Microwave unit structure: 1. Power unit, 2. Generator unit, 3. Remote control panel, 4. Remote control panel cable, 5. Power cable.*



PICTURE 1

PMC 1

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

## CONNECTION, SETUP, OPERATION PROCEDURE

1. Connect microwave unit to 230V, 50 Hz power supply using network cable with obligatory grounding.
2. Place generator unit (Pic. 1-2) against surface to be treated (Microwave electromagnetic field direction of action is shown with arrow).
3. Turn power supply on with toggle switch (Pic. 1-7). Make sure that green indicator lights.
4. **Step at least 5 meters** from generator unit.
5. Turn generator on by pushing ON button on remote control panel. Make sure that red indicator on power unit lights.

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

How is treatment time determined?


Cold places are consequently heat with 1 minute interval until wood slightly darkens. After color shift is reached exposure time is decreased on 1 minute. It will be treatment time for such timber (individually grade, moisture, thickness, etc.).

6. Turn generator off by pushing OFF button on remote control panel. Make sure that red indicator on power unit does not light and move generator unit for treatment of another area.
7. Do not turn generator on for 2-4 minutes, in order to let microwave unit cool down.
8. In order to finish operation it is required to switch generator off using remote control panel and turn power supply off using toggle switch on power unit. Make sure that green indicator on power unit does not light.
9. De-energize microwave unit.

## SAFETY PRECAUTIONS

1. A man standing against microwave unit can be exposed to strong electromagnetic field influence.

IT IS STRICTLY PROHIBITED TO STAY ON THE DISTANCE LESS THAN 5 METERS AWAY FROM GENERATOR UNIT DURING MICROWAVE UNIT OPERATION.

- 
2. BE CAREFUL! Operating unit is under dangerous voltage. It is prohibited to simultaneously touch microwave unit body and central batteries or water-supply pipes and other grounded systems.
  3. REMEMBER! Microwave unit is a device to be operated under supervision. In case of safety de-energizing, do not forget to switch off the unit.
  4. If electric wiring and cables in treatment zone, they shall be de-energized. If cable are in metal corrugated tube, then it is prohibited to direct a projector on them!
  5. Keep unit body and cable away from water penetration.
  6. Keep projector's display clean. Severe contamination can cause display damage.
  7. Do not cover cooling fans to avoid equipment damage.
  8. Use equipment only as designated, as it written in this manual. Indicated precautions and important safety instructions do not comprise all possible cases and situations. User shall use sound judgement, be careful during unit installation, maintenance, and operation.
  9. Do not operate defective equipment until it is repaired by qualified manufacturer's service specialist.

## SPECIFICATIONS

Area to be treated – 300 x 300 mm.

Capacity – 1,5 kW.

Operating duty – cyclic – 0,5-17 minutes of operation, 2-3 minutes of cooling down.

Supply voltage – stabilized, 230 V, 50-60 Hz.

Remote control – 15 meters.

Net weight – 16 kg.

Operating frequency - 2450 MHz.

Cooling – air.

It is subject to be used in normal conditions. Service life – 5 years.

## SCOPE OF SUPPLY

1. Microwave equipment for wood and wooden structures disinfestation.
2. Operating manual.

Manufacturer: shahel.net

TU U 28.9-30885072-001:2014

CE marks

