

LABORMAT-SD

Working Instructions



Boiling Out Unit - Standard Model

- **Stainless Steel Container and Lid**
- **Integrated Hand Shower**
- **Individual Spray Timer**
- **Outlet for Dirty Water**
 - **Collecting Bowl**
 - **24 Hour Timer**
- **Exchangeable: Operation with Hand Shower**



DREVE-DENTAMID GMBH

Purpose

The **LABORMAT-SD** is a standard unit for the laboratory for automatically doing work steps like boiling out (of wax residues), scalding and polymerising flasks as well as plaster forms. The temperature range is between 30 °C up to 95 °C.

Technical Data

Nominal voltage:	230 V ~	
Nominal frequency:	50 Hz	
Power consumption:	3100 W	
Highest operating temperature:	95 °C	
Volume (container):	70 dm ³	
Dim.:	Height:	850mm
	Width:	630mm
	Depth:	600mm
Weight:	75 kg	

Starting

The figures in the text (in brackets) refer to the enclosed illustrations attached to the working instructions as well as the spare parts list.

1. Check, if voltage indicated at the back of the unit corresponds to mains supply.
2. Connect electric power plug (16) to mains supply.
3. Connect water inflow pipe (34) via tube connection (4) at the back of the unit.
4. Fill the unit with water. The contents amounts to 70 l and is reached, when the water level is approx. two fingers below the flow socket.

Operating

I) Make the unit ready for operation:

1. Switch on at the main switch (6).
2. Adjust requested temperature at the thermostat button (10).
The yellow indicator lamp (11) flashes permanently, when the temperature is reached.

Approx. 90 minutes are required to heat the unit up to e. g. 90 °C.

II) Spray operation:

In the unit

3. Set selector switch (45) into position "spraying".
4. Put objects on the tray or insert dividing baskets.
5. Turn switch (7) for short-term operation or the spray timer (8). In both cases the red indicator lamp (9) flashes during operation.

With hand shower

3. Adjust selector switch (45) into position „hand shower“.
4. Put objects onto the tray (17).
5. Adjust spray timer (8) or switch (9), so that the pump starts to work.
6. Simultaneously turn switch at the hand shower (20).

Attention: Do not touch spray pipes, flask baskets or other interior metal parts when the unit is heated up!

III) Preselect operating time:

7. Put unit on/off switch (6) into position „ON“.
8. Calculate hours until scheduled start of work with LABORMAT-SD.
9. Calculate water heating time back (approx. 90 minutes at 90° C).
10. Adjust ascertained number of hours at the 24 hour timer (42).
White indicator lamp (44) flashes.

The timer disconnects the heating electric supply. It is not possible to select the spraying process.

Note

The water level should always be controlled and perhaps filled again with water. **The heating must always be covered with water.**

It is essential to put **UNISOL-W** into the water bath. This product prevents emulsifying of the water with wax and supports the dissolving of wax and cleaning of the models as well as the flasks.

Only start boiling-out procedures in the units with closed lid.

Please note: Put **UNISOL-W** only into the cold water, as otherwise the formation of foam will result.

Maintenance

The unit should be cleaned regularly and the wax layer - as long as it is soft and not yet hot and fluid - should be removed daily.

In order to clean the unit completely the water must be pumped off.

- Remove spray pipe (2) at the quick lock and install the prepared drain pipe (36) at this quick lock. Put the outlet pipe into a sink or into a bowl filled with water.
- The water bath should only be pumped off, when it is cold as hot, fluid wax could block the outlets.
- Now set timer (8): the pump runs, and the water is pumped off until the container is completely emptied, apart from a rest at the bottom (time approx. 3 - 4 minutes). The mentioned sediment is not pumped off, but the dirt resp. plaster mud have to be removed via the outlet for dirty water (14) at the container.
For this the refined steel cap (spring magnet) is removed and the outlet for dirty water (14) at the container is opened.

Let the dirty water run into the plastic bowl below (15). Please take into consideration, that the outlet for dirty water (14) is sealed again.

- Afterwards loosen the water drain pipe (36) at the spray pipe quick clutch (perhaps clean this before) and insert into the right position again.

Note: Please ensure that the nozzle of the spray pipes have a downward position!

- Fill the container with water via the water inflow pipe (34) - as described above.
- Use **PURGAT** for a general cleaning of the unit.
- If the water contains a lot of lime, it is recommendable to sometimes put **UNISOL-E** into the water.

Note

Repairs and maintenance of the electrical equipment of the **LABORMAT-SD** are to be carried out only by electrotechnically qualified personnel. At all times disconnect the mains.

Dreve-Dentamid GmbH is only responsible for the safety, reliability and performance of the unit if

- the unit is only used for the corresponding purpose.
- the unit is only used by trained personnel.
- the unit is used in accordance with these working instructions.
- extensions, readjustments, changes or repairs are only carried out by persons authorized by Dreve-Dentamid GmbH.

As we constantly develop our products, we reserve the right to change technical details.

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