

Instruction manual

Microwave Drying Cabinet UX 3507/ 3508

General

The **UX 3507/ 3508** microwave drying cabin is used to determine the water, moisture and solids content of non-metal products and has proved to be extremely valuable for a wide range of products.

The use of microwave energy to evaporate water offers major advantages in terms of time saving and accuracy compared to the conventional drying chamber method and infrared drying for many products.

One of the most important assumptions with this method is the **homogeneous distribution and precise metering of the microwave energy** in the drying chamber. This requirement has been met optimally in the **UX 3507/ 3508** model so that the instrument is ideally suited for universal use.

The **infinitely adjustment** of the microwave energy **by separate impulse- and pause-times** allows a very careful drying of the samples. This is the main reason for the possibility of using microwave energy in a laboratory drying chamber and also the **main difference to any household unit**.

The actual sample carrier with a diameter of 310 mm allows the simultaneous processing of several samples. The number of samples depend on the size of the drying dishes.

7 DURAN-glass-drying dishes with a diameter of 75 mm each can be accommodated easily for a simultaneous drying cycle.

Setting the drying parameters

The microwave energy cannot be regulated stepless like the electric energy in a normal heating cabinet. But the **drying power** can be changed by setting the impulse time and the pause time. E.g. 6 seconds impulse time and 4 seconds pause time mean that the microwave energy will dry the samples in intervals of 6 seconds with 4 seconds pause respectively.

A **drying time** can be set up to 99 minutes.

For the case that the samples will stay in the microwave dryer for a longer time after the end of drying it might happen that the samples will take moisture from the air. This might cause wrong values for the moisture- or dry matter-content. A **conservation power** can be set to prevent this.

1. Impulse time

Press button UP until „IP“ appears in the display.

Press button START/ENTER.

Change the value in the display using the UP- and DOWN-buttons.

Confirm the value with button START/ENTER.

2. Pause time

Press button UP until „PS“ appears in the display.

Press button START/ENTER.

Change the value using the UP- and DOWN-buttons.

Confirm the value with button START/ENTER.

3. Drying time

Press button UP until a four digit value for a drying time appears in the display.

Change the value using the UP- and DOWN-buttons.

Confirm with button START/ENTER.

4. Conservation power

Press button UP until „EIP“ appears in the display.

Press button START/ENTER.

Change the value between 0 and 9 using the UP- and DOWN-buttons.

Confirm with button START/ENTER.

After the parameters have been set one time, every new drying process is started by using the START/ENTER button. The display shows the remaining drying time. At the end of the drying time a signal sounds. With conservation power set the display shows the time in ascending minutes.

If there are questions left, please ask your local dealer or

Safety hints

The microwave drying cabin shall only be used to dry small samples of material

Please use only the original drying jars (DURAN glass) or similar jars of glass or porcelain.

When samples contain combustible solvents (e.g. lacquer) or volatiles (e.g. coal) please use only low drying power and take care of good ventilation of the drying chamber and the room.

Do not use the UX 3507 in an explosion endanger area. **The device is not explosion-proof.**

If samples start to burn, let the door closed and pull out the power supply cable.

Never put parts out of metal into the drying chamber. The magnetron might be damaged.

Never start a drying process without some wet samples inside the drying chamber.

Persons with a heart pace-maker should not stay near a microwave unit.

Please take care that all ventilation openings are not closed. The unit shall have a space of some centimetres around it.

The UX 3507/ 3508 shall only be maintained by a qualified specialist. Some inner parts have a voltage of more than 2000 Volt!

Technical data

Power supply: 230 Volt ~ / 50 Hz, fuse 16 A
Power consumption: 1470 Watt
Power output: max 900 Watt
Microwave frequency: 2450 MHz
Outer dimensions: W 510 mm x D 370 mm x H 305 mm
Inner dimensions: W 330 mm x D 330 mm x H 211 mm
Weight: 17,6 kg