

Instructions for use

AQUAMAT

Polymerizer for acrylic plastics



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1. INTRODUCTION

Thank you for having purchased the polymerizer for acrylic plastics **AQUAMAT** furnace which, we are sure will meet all your needs and will satisfy your highest demands.

This device has been designed according to the requirements of latest industrial standards and we guarantee that you will use it for many years as your closest assistant. However, inappropriate use may damage the equipment and be harmful to personnel. Please observe the relevant safety instructions and read the instructions for use carefully.

We wish you a pleasant working experience with the polymerizer for acrylic plastics **AQUAMAT**.

SIMBOLS:



This symbol indicates that there is high dangerous tension under the bonnet which it is put on.



This symbol indicates that the unit complies with the requirements of the Directives for Low Tension and Electromagnetic Compatibility as well as for the Standards harmonized with them.

2. SAFETY INSTRUCTIONS



WARNING!



The following instructions must be observed in order to avoid personnel injury or equipment failure.

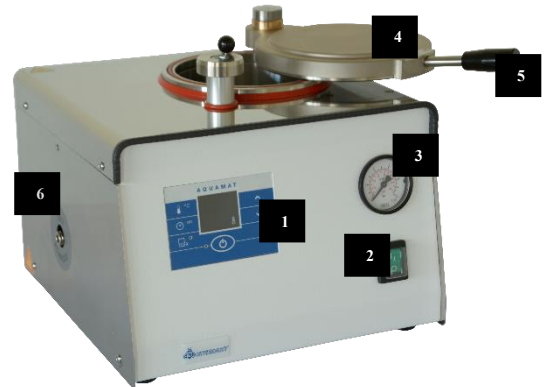
- the device must not be run by an operator who is not familiar with these instructions;
- before you plug in the device check if the voltage in the electrical network corresponds to the working tension. In case of discrepancy, consult a specialist;
- on no account should the device be altered;
- the notices and stickers must be kept in good condition so that they are easily readable; they should not be removed!
- the unit must not function in case of being damaged and in position to injure the staff or a third person;
- keep the power cable out of heat, oil and coarse objects; while moving the cable do not make contact with the device.
- switch off the device and pull out the feeder cable plug from the power socket before each cleaning or upkeep.
- spare parts which are not specified by the manufacturer must not be used!
- keep from falling and hitting;
- to accomplish its functions the device must be heated so bear in mind the possible dangers of explosion or emissions of toxic or combustible gas as a result of the heating of materials in the device itself. Therefore, the unit is recommended to be placed in a suitable ventilated spot in the premises.

If the unit is used by means not indicated by the manufacturer, the provided protection can worsen!

3. DESCRIPTION OF THE UNIT

This device is used for polymerization of acrylic plastics and can also be used as a pressure chamber. It is designed for work in dental laboratories.

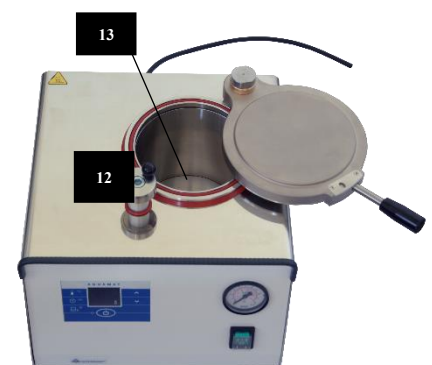
1. Front panel;
2. Power switch;
3. Manometer;
4. Cover;
5. Handle for opening / closing
6. Nozzle for exit water;



7. Nozzle for air;
8. Filter for power cord;
9. Power cord;
10. Fuses;
11. Pressure reducing valve;



12. Lock;
13. Filter.



4. INSTALATION AND INITIAL START-UP

UNPACKING

- Carefully remove modules from packages;
- Make sure that the rated voltage is ~230V and the contact is reliably grounded;
- Place the device near the power socket, so it is accessible.

CONNECTIONS

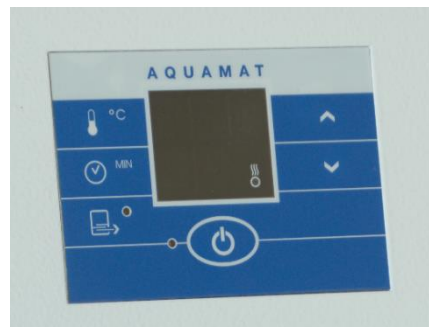
- Connect the main air supply on the rear panel to the nozzle for air (7.). The connecting orifice is $\varnothing 6$ sized. The maximum pressure in the mains should not be higher than 6 Bar.
- Connect hose $\varnothing 8$ to the nozzle for exit water (6.) and lead it to the sewage system or to an outside container for collection of the resting liquid. This orifice is placed on the right-side of the device.

ATTENTION: *Do not sink this hose in any liquid, because it might destroy the unit!*

- The safety valve is on the rear panel. The unit should be put in a proper place so that if this valve is activated you are able to avoid the damage of another part. Do not put it on combustibles.

5. PRACTICAL USE

PRESETTINGS



The preparation for the work consists in setting of the needed time and temperature. The adjustments are done using the selection buttons - button °C and button MIN.


After pressing one of these buttons you will see the current value blinking on the display. When the indication is blinking, you can change it with the help of the arrow buttons until you reach the desired value.


To save this value you must press the relevant selection button (°C or MIN) again. This way you exit the mode for adjustment of the parameters and the unit is ready for work.

The polymerization unit has two working temperature zones which means that the device can heat at two stages. For adjustment of the middle stage the same buttons as described above are used but they should be kept pressed for more than 2 seconds.


The setting of the middle stage is made in the same way as the final stage. The middle stage cannot be achieved either if the adjusted temperature is 39°C or if the adjusted time is 0 minutes.


WAY OF USE



Put an object in the device. Pour as much liquid as needed to fill the chamber up to 2 cm below the upper edge. Close the lid till it reaches the stopper. Start the process by pressing the button .

The process can be discontinued at any time by pressing the button  again.

After starting the program, you must press the button for draining of the liquid, the relevant LED flashes and the liquid will be drained automatically in the end of the process.

In case you need to drain the liquid manually this can be done when the device is not in mode for program execution. For this purpose, the button  should be pressed. Having emptied the device you must press the same button again so that the electromagnet valve will close.

To start a working cycle while the difference between set temperature and temperature in the bowl is less than 10°C, you must press and hold the  button for several seconds. The unit will start after issuing a beep.

This unit can work without heating. You can start the different working mode by pressing the two arrow buttons  and  simultaneously.

This way pressured air will enter into the chamber and will stay there for preliminary adjusted time. This mode is useful for preliminary dry pressing of some objects.



WARRNING!



Do not open the lid of the device before the temperature drops under 100°C because then the water will boil and there will be risk of burns.

Take care of the red silicone sealing ring that is under the hood. If it is dry, wet it with water before closing the lid to protect it from accidental damage.

THERMAL PROTECTION

This device is equipped with thermal protection. If the temperature in the chamber exceeds 150°C a special component will stop the heating.

To restore normal function, you need to:

- unplug the device from the socket;
- remove the left side cover;
- resume normal work by pressing the red button which is on the thermal protection component;

6. TECHNICAL DATA

Electrical supply	~230 V, ±10%, 50Hz
Power consumption	1220 W
Category of over tension	II
Effective volume of the chamber	1,5L
Interior dimensions	Φ140 mm; h=145 mm
Maximum operating pressure	6 Bar
Limits set for the working temperature	40°C - 125°C
Operating temperature zones	2
Limits set for the time	1min – 99min
Overall dimensions: - Width - Length - Height	300 mm 330 mm 240 mm
Model Weight	9,3 kg
Working temperature	5°C - 40°C
Level of environment pollution	2
The device is designed for usage in normal dental laboratories up to 2000 m altitude above sea level.	
The maximum relative humidity of the air must be 80% for temperatures up to 31°C, decreasing lineally to 50% relative humidity for temperature of 40°C.	

7. MAINTENANCE

- Avoid positioning the unit in the immediate vicinity of heat sources (radiators);
- Do not leave objects on the body of the unit;
- Clean with a slightly moist cloth.
- Change the safety locks with the announced values only, namely:

6,3A/250V; slow (class T)

- No repair activity by a service technician who is not authorized by the manufacturer is allowed!
- The lifting and carrying should be made only with both hands from below as the furnace is standing upright.
- No carrying and transportation in another state except for vertical position is allowed!

8. DELIVERY SCOPE

- Polymerization Unit Aquamat	1 pc.
- Drain hose-pipe	1 pc.
- Spare fuses:	
T 6,3A/250V	2 pcs.
- User manual	1 pc.

MANUFACTURER: Interdent d.o.o.
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WARRANTY FOR PRODUCT REF.: 0689

Product: AQUAMAT

Serial number:

Date of sale:

Signature of the seller:

Warranty declaration:

- The product will work flawless during the warranty period if being administered in accordance with its purpose and the instructions provided;
- Warranty period expires after 12 months from purchase day. At your request, we will repair failure or defects on the product, if you will report it within the warranty period. Failure will be resolved free of charge within 45 days from the date of failure report. The product, which will not be repaired within this deadline, will be, at your request, replaced with a new one. We will extend the warranty period for the time the product was being repaired.
- Validity of the warranty should be proofed by certified warranty card and original invoice.

The warranty is voided:

- If an unauthorized person interferes into the device
- If provided instructions for use are not being considered
- If the device is being mechanically injured
- If the unoriginal spare parts are being built in