

INSTALLATION AND OPERATING INSTRUCTIONS

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

HEATED SPATULA SET ARTIST III

- INSTRUCTION MANUAL -

1.1 ENDED USE

The **Heated Spatula ARTIST III** is an indispensable instrument in all conservation laboratories of paintings, both on canvas and on panel, paper, and wood. All operations relative to sizing, relining etc., are facilitated thanks to its heated spatulas (there are tips of many shapes and sizes) which are heated to the most suitable temperature. The instrument is not intended for use in any medical circle, and none of its parts should be in contact with any part of the human body.

The **Heated Spatula ARTIST III** is an electrically-controlled instrument which allows various types of work to be completed in extremely secure conditions for both the operator and the electrical circuits.

The **Heated Spatula ARTIST III** was designed according to the most strictest European standards and this is therefore a guarantee for the user. The operator, however, must never disregard the most elementary safety rules, including altering the correct use of the instrument or make self-repairs. Interventions made on the internal circuits of the **Heated Spatula ARTIST III** must be made only by qualified personnel.

The operator that uses this instrument must follow the instructions specified in the instruction and maintenance manual. The operator must not be inexperienced and must have matured to a certain level of experience with this type of equipment. The manufacturer does not assume any responsibility for its use which is not provided for within the instructions of use and maintenance, let alone in the case where modifications were made of one's own free will (this would be sufficient for immediate annulment of the warranty). Please read carefully the present manual – directions for use, warnings and precautions - before switching on the device; the non-observance of the warnings may cause injuries. The safety of the operator and of the people at work depends on the judgment and caution in the use of the device; the operator should be familiar with the position and function of all controls.



2. TECHNICAL SPECIFICATIONS

- Power supply: 230V 50/60 Hz single-phase
- Power: 60W
- Handle voltage: 48V
- Temperature range: 25 °C - 420 °C
- Size of the control unit : 80x160xh. 125 mm
- Total weight: 3.1 kg

COMPONENTS

- A handle with tip-holding shaft, built-in probe and connection cable to the control unit, 1.1 m long
- a handle stand
- four supplied tips:
 - 1 leaf-shaped dim. 22x50 mm Art. 1
 - 1 button-shaped dim. \varnothing 4 mm Art. 5
 - 1 leaf-shaped dim. 20x63 mm Art. 18
 - 1 plate-shaped dim 10x50 Art. 21
- paste for the conduction of heat
- a rubber tip holder for the tip replacement
- a grounding cable
- a small hard case size 432x315x110 mm.

3. DIRECTIONS FOR USE

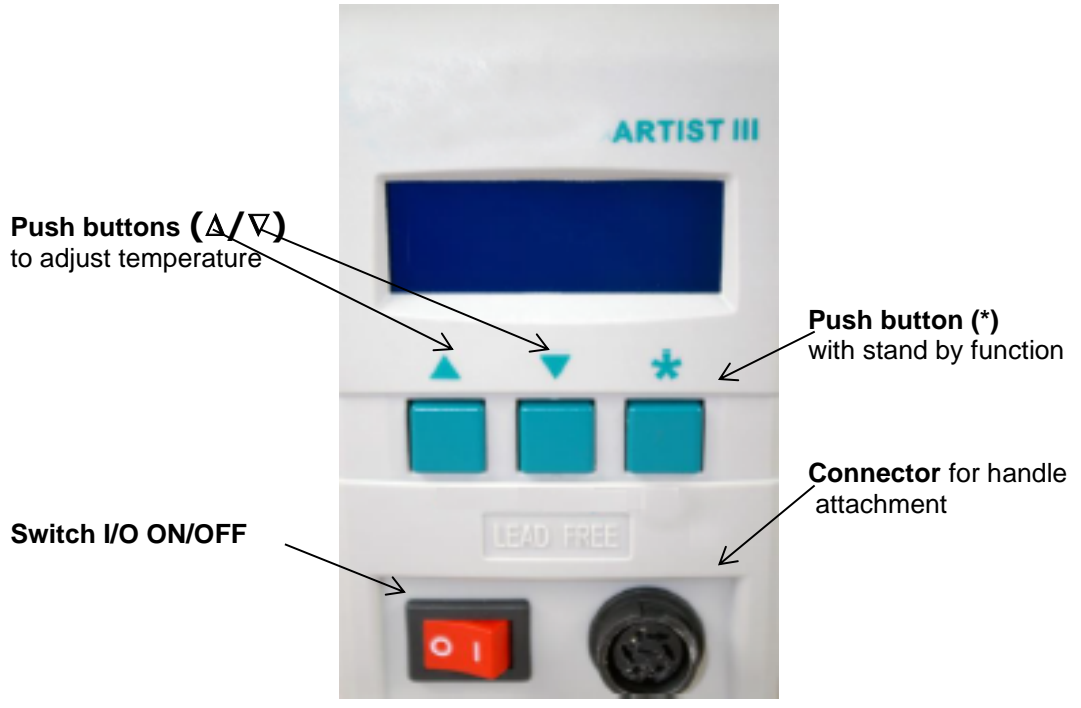
DESCRIPTION

The **Heated Spatula ARTIST III** makes the sticking and relining much easier thanks to its special tips inserted into the handle. The latter is heated to a temperature which can be varied from approx. 25 °C to approx. 420 °C. The device maintains the selected temperature with an accuracy of ± 2 °C, it is light and handy, sturdy and compact. The tips, that are easily interchangeable, allow the operator to obtain a precise intervention with ease. It is equipped with an electronic ESD/LEAD FREE control unit with a display showing simultaneously the selected temperature and the actual temperature.

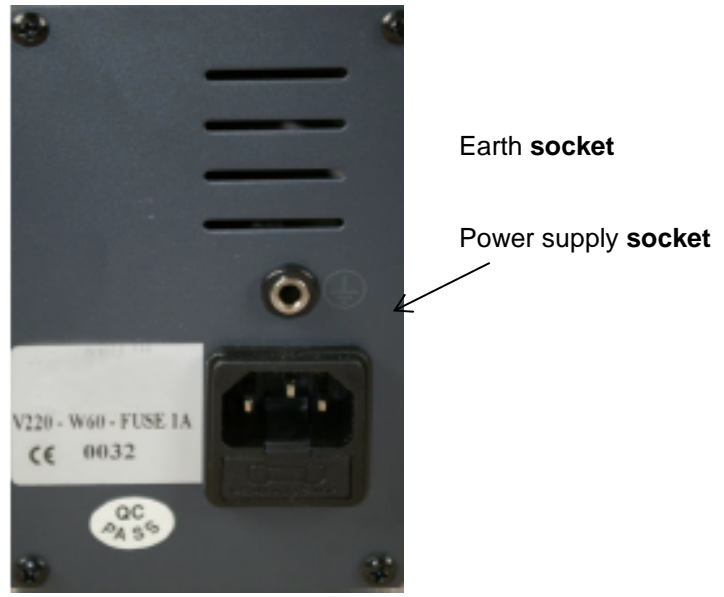
ESD FREE = completely antistatic, it prevents electrostatic discharge on the operator who is using it

LEAD FREE = not containing the element lead in the production of electronics (circuits, wiring, resistors, transformers)

4.1 FRONT CONTROL PANEL



4.2 REAR PANEL



POWER ON

- Insert the handpiece connector into the correspondent connection on the front of the control unit.
- Choose the tip best suited to the type of work to be carried out and screw it on to the handpiece by hand. **Avoid the use of pliers or pincers to screw and unscrew the tips and the tip-holding shaft; this may inflict irreparable damage to the handpiece.** To increase the conduction of heat, use the supplied paste for cauteries; place a small amount on the thread of the tip-holding shaft. Before removing the tip in order to substitute it, or to end work, bring the tool to a low temperature. The tip chosen must come from the four supplied, or the conservator may, upon request, acquire other tips from a range of 23 in various shapes and sizes. Each tip is constructed in copper and finished by double-layered chromium-plating.
- Connect the instrument to an appropriate electrical outlet.
- Turn on the instrument by putting the switch in position (I), thus highlighting the lighting of the display.
- If the handpiece has not been inserted in its attachment or if the handpiece is damaged, the microprocessor notifies that it is missing and shows on the display an error message. At this point, the tool remains inactive, not heating up at all.
- After ignition, the **Heated Spatula ARTIST III** will show the actual temperature of the spatula, based on the last selected temperature.
- To regulate the temperature of the handpiece, press the button (∇/Δ); on the front panel and on the display will appear - lower on the right - the selected temperature ("Set Temp") while on the left the real temperature of the handpiece ("Real Temp").
- Carry out work using the heated spatula as a small iron. It may happen that the heating of an object may lower the temperature of the tip. The regulator of the **Heated Spatula ARTIST III** will automatically intervene to re-stabilize the desired temperature, with the maximum power compatible.
- During breaks in the work, the **Heated Spatula ARTIST III** can be put into "Standby" mode by pressing the button (*) on the front panel; some dashes "----" will appear on the display and the instrument will become cold; by pressing the same button (*), the instrument will return quickly to the temperature previously set.



5. WARNINGS AND PRECAUTIONS

- Avoid switching on involuntarily: upon inserting the plug into the outlet or connection of the outlet to the electricity, assure that the switch is in the off position.
- Do not use the power cord for purposes other than that for which it was designed; never transport the instrument while holding it by the power cord. Do not extract the plug in the outlet pulling it by the power cord and avoid contact of the power cord with sources of heat, oil and sharp objects.
- Do not allow water or any other type of liquid to enter the interior of the instrument and of the handpiece; this could damage its proper working ability.
- Always maintain an organized work space: after having used the handpiece, place it in its holder located on the side of the instrument, to avoid that it falls and becomes damaged.
- Keep away from children and do not allow access to the work area to other persons. Whenever the instrument is not in use, keep in a closed, dry and secure place, otherwise at a height not accessible to children.
- Never rest hands or anything else on the tip of the handpiece to avoid burns. To substitute the point, wait until the tip has cooled or use the special rubber tip holder.
- Absolutely avoid that the handpiece is banged or dropped: it could become irreparably damaged. Obviously the manufacturer will not answer to damage provoked by drops, poor use or inobservance to the rules of use and maintenance given in the present booklet.
- Avoid incorrect positioning of the body: prepare an ergonomic work space.
- Wear appropriate work garments and pay close attention to every movement, working with common sense.
- Observe the safety rules for the respective work place.

6. MAINTENANCE AND CLEANING

- Control periodically the integrity and functionality of accessories and of parts integral to its use; in particular, verify the state of the tips in order to identify any damaged areas and consequently their substitution.
- Regularly control all cables.
- It is necessary to detach the plug before opening the instrument and before making any operations on the tool (substitution of a fuse, repairs, etc.).
- Repair work can be executed only by specialized and authorized personnel: to the contrary, the operator may run the risk of personal injury.
- The equipment may be cleaned with a soft cloth wet with water or light solvents. The penetration of liquids within the internal parts of the instrument must be avoided. Do not use strong solvents or sharp tools.
- Flammable substances used for cleaning, disinfection, or as solvents for adhesives must be left to evaporate before intervening.
- **Cleaning of the tips:**
The cleaning of tips is very important because it allows the user to be able to work with constant temperatures and with a correct manipulation of materials in use. The cleaning of the tip between the various phases of work can be done on a paper tissue or a sponge.
The cleaning of tips must be made with products suitable to the material residue to remove.
- The handpiece can be cleaned, **once it has cooled**, with a soft cloth wet with water or light solvents, making sure to avoid penetration of the liquid to the interior of the handpiece itself.
- **NEVER APPLY TO ANY PART OF THE HANDPIECE LIQUID PRODUCTS (OIL, GAS, SOLVENTS, ETC.)**

SUBSTITUTION OF THE TIP

The substitution of the tip inserted in the handpiece is very simple, it needs only to be unscrewed by hand in an anticlockwise direction. Avoid the use of pliers or pincers to screw and unscrew tips and the extension arm, the handpiece could be damaged and the warranty would become void. To avoid touching the tip and being burnt, in the case in which the tip is still warm, it is advised to carry out the substitution of the tip when the handpiece is at a temperature below 30°C and in any case to use the special rubber tip holder to seize the tip.

7. TRANSPORTATION

Unpackage with the utmost care all parts supplied; all parts of the heated spatula must be thoroughly checked over to verify any damage suffered during transportation. Transport and storage of the instrument should be in environments with temperatures of 40/+70°C, with a relative humidity of “10-100%”, and pressure between 500 and 1060 hpa.

8. LIST OF TIPS AVAILABLE UPON REQUEST

Extra tips in double-layered chromium-plated copper, with screw-on attachment for the tip-holding shaft.

