

Large Hot Plate

Cautions

- Eye protection is mandatory.
- Use thermal gloves or tongs to remove items from their heated surfaces.
- Top surface and edges can reach high temperatures (Up to 500°F) and may cause serious burns.
- Keep away from combustible materials.
- Turn off when not in use

Description and Uses

The large hot plate is commonly used in the printmaking studio to apply grounds in copper etching and to fuse toner on polyester plates.

Printmakers also use the heat of the hot plate to soften or loosen stiff oil based etching inks during the inking and wiping process in preparation for printing on the etching press

Additionally, Linoleum for Lino cut printmaking is often placed on a hot plate to soften the material, making it easier to cut for relief printing.

Standard Operation

Note: only those individuals that have received proper instruction are allowed to use the large hot plate. Please refer to training demonstrations for specifics about materials and settings.

1. Ensure that the plate is clear of all other debris and objects apart from those to be heated.
2. Place the object to be heated on the plate and turn on the dial.
3. Set hotplate to 225 degrees. Note: The hot plate takes 20 minutes to heat up.

1. Do not allow empty containers to be heated on a hot plate. This can damage the hot plate and the vessel being heated.
2. Turn off the hot plate when finished.

Further Considerations

- Keep top surface clean. Use a non-abrasive cleaner. Oil spills, acid spills or water spills may damage top and lead to thermal failure. Unplug unit and remove spills promptly. Do not immerse unit for cleaning. If the top is cracked or heavily contaminated by a chemical spill, replace the unit.
- If water or other liquid has been spilled onto the element have the equipment serviced before use.
- Ask other workers to move away from the hot plate while in use.
- Do not leave the hotplate unattended while in operation.
- If the hot plate is not operating correctly then notify your supervisor immediately. Do not attempt to operate again until corrective action has been taken and documented. Only supervisors are trained and are permitted to perform maintenance to the hotplate.
- Do not use the hotplate to heat water or other liquids.

Hazards

Severe burns and other injuries can occur when heating devices are not used correctly or without proper Personal Protective Equipment (PPE).