

# GRS Micro Hot Air System INSTRUCTIONS

for Part #006-520 and #006-521

This system was initially designed for electronic soldering, but it is very useful for other applications including working with Thermo-Loc® and plastic welding and repair.

## Set-Up & Basic Operation

Decide where you want to store the hot air handpiece, either on the right or left side of the control box. Then mount the handpiece storage cradle accordingly. Select and mount one of the small round nozzles included with this unit (2.5mm, 4.4mm or 7.2mm) on the metal end of the handpiece. The 4.4mm nozzle is a good choice initially. Verify that the power switch is OFF. Plug the unit into the proper voltage (the unit is only designed for one voltage, either AC 110 Volt or AC 220 Volt). Rotate the SET TEMP knob to approximately slightly left of straight up. This is a temperature setting of approximately 200 - 270°C (392 to 518°F). Rotate the AIR knob to a setting of 4. Turn the power switch on. After 10 to 15 seconds, the system should stabilize and indicate a temperature between 200 and 300°C. Turn the SET TEMP knob until

the readout shows about 200°C (within a few degrees is OK). Turn the AIR knob higher and lower and observe how the air flow increases and decreases with different settings; return to an AIR setting of 4.

Store the handpiece in its storage cradle. Turn the power switch OFF. After a few seconds, the temperature readout will start falling. Once the handpiece has cooled off sufficiently (1 to 2 minutes depending on the AIR setting), the unit will turn itself off which can be verified by no temperature readout shown (dark screen).

## Thermo-Loc® Applications

The most common use with Thermo-Loc is making minor adjustments or modifications to Thermo-Loc holding fixtures. For this purpose, the recommended temperature setting is 150 to 220°C with an AIR setting from 3 to 6. The Micro Hot Air System is not a good way to heat bulk Thermo-Loc materials as it is intended for fixture repair or modification. Building new fixtures is usually best accomplished by heating bulk

Thermo-Loc in a microwave oven or using other methods that have greater heating capacity than the Micro Hot Air System.

## Other Uses

The Micro Hot Air System is also an effective way to heat other materials including pitch and shellac for workholding and to increase the cure rate of certain epoxies, paints and coatings. It is also excellent for thermal wax polishing for making smoother lost-wax castings. Another popular use as mentioned above is plastic welding and forming. Be sure to determine if heating will release harmful agents into the air or create a fire/explosion hazard before using Micro Air System to apply heat.

## GLENDO

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