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MICROTEC
USA

Model: TCAP-PL2-Combo

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TCAP-PL2-Combo Series User Manual

Contents

Overview

1.1 Equipment Overview

Thank you very much for choosing our company's TCAP-PL2-Combo series pneumatic dual-station, upper and lower heating equipment!

Please read this user manual carefully before operation to ensure proper use.

Keep this manual in a safe and accessible place for future reference.

Due to different configurations, some machines may not include all the functions listed in this manual. The actual functions of your specific model shall prevail.

1.2 Safety Precautions

NOTICE

The manufacturer is not responsible for damage, injury, production loss, or other losses caused by improper operation, unauthorized modification, incorrect installation, incompatible parts, or service by unqualified personnel.

1.3 Operating Environment

- Indoor, dry, clean, and well-ventilated location
- Operating / Storage Temperature: 41°F–104°F
- Relative Humidity: 30%–90%, non-condensing
- Stable, level, heat-resistant work surface
- Keep away from water, excessive dust, corrosive gases, flammable materials, and explosive vapors

1.4 Grounding & Technical Parameters

1.4-1 Grounding Requirements:

To prevent electric shock or fire caused by leakage, overvoltage, or insulation failure, please ensure the equipment is reliably grounded.

1.4-2 Technical Parameters:

Technical Specifications	Details
MODEL NO.	TCAP-PL2-Combo
Controller	GY-13+TC4S-R1TC
Amp\Voltage\Power\phase	13A\120V\1560W，60HZ
Time Range(S)	0～999
Temperature Range(℉)	32～446
Heating plate size（Inch）	5.9*5.9

Appearance and Functions

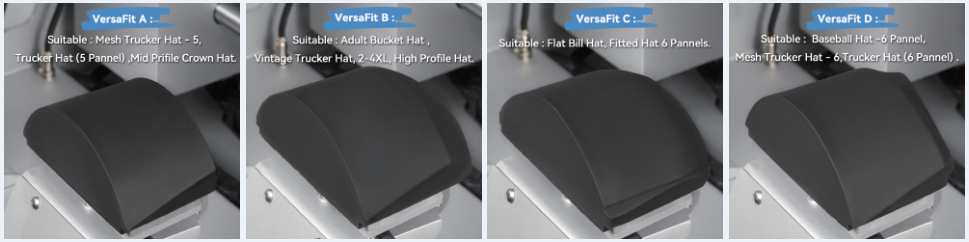
2.1 Exterior View

Hat machine accessories

Flat iron accessories

(Please refer to the images in your original document for labels 1 through 13.)

Includes four sizes of siliconewraps



2.2 Component Names and Functions

1 & 6. Left & Right Start Buttons: Press both buttons simultaneously to activate the temperature controller. The heating plate will press down to begin heat transfer.

2. GY-13 Temperature Controller: Controls machine heating and heat transfer processes.

3. TC4S-R1TC Temperature Controller: Controls the temperature rise of the left lower heating element.

4. Emergency Stop Switch: Press this switch at any time during the heat transfer or downward pressing process. The heating plate will immediately lift up and stop operation.

5.TC4S-R1TC Temperature Controller: Controls the temperature rise of the right lower heating element.

7. Throttle Valve: Adjusts the upward lifting speed of the heating plate.

8.Throttle Valve: Adjusts the downward pressing speed of the heating plate.

9. Power Switch: Turns the machine power ON and OFF.

10.Fuse Holder: Houses the fuse, which cuts off power if the machine's current rises abnormally.

11.Pressure Gauge Assembly: Displays the current operating air pressure and allows for adjustment.

12.Power Cord: Supplies the necessary electrical power for the entire machine.

13. Air Inlet Connector: Connects to the air supply required for the heating plate's downward stroke.

2.3 Operation Steps

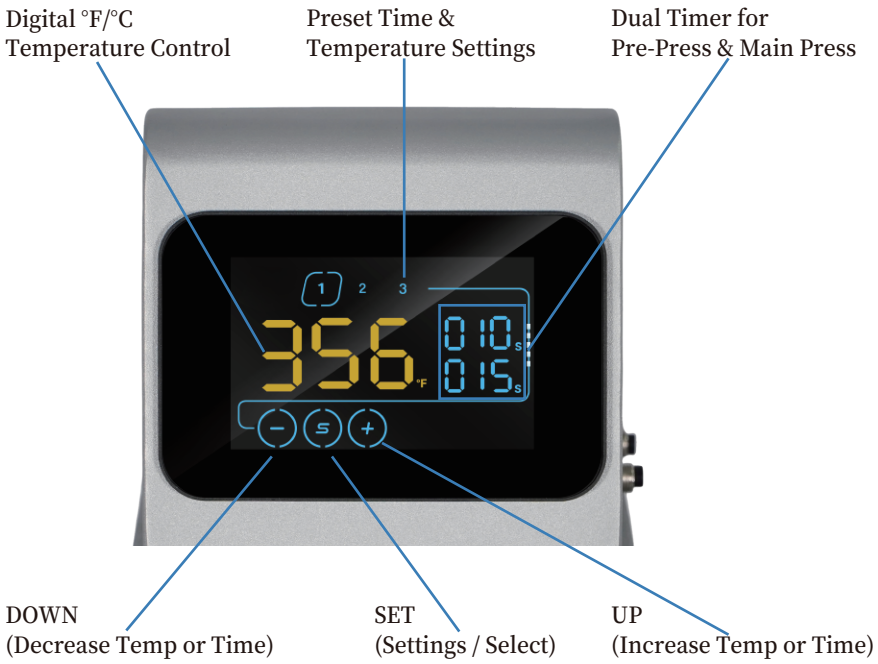
1.Connect the machine to an AC 120V power supply in accordance with the voltage requirements **【12】**. Connect a proper air supply source to **【13】**. Turn ON the power switch **【9】**. Pull up the black adjustment valve on the pressure gauge assembly **【11】**, and adjust the pressure to **4–6 kg/cm^2 (0.4–0.6 MPa)** according to the markings.

2.Place the transfer material properly onto the station that currently does not have the heating plate over it.

3.Once the target transfer temperature is reached, use both hands to shift the heating plate over to the station containing the material. Simultaneously press the dual start buttons 【1】 and 【6】 to activate the temperature controller. When the countdown finishes, the heating plate will automatically lift up, completing the transfer process.

4.Repeat steps 2 and 3 for continuous operation.

2.4 GY-13 Touch Screen Working Interface



2.5 GY-13 Temperature Controller Instructions

2.5.1: Press preset buttons **1/2/3** to quickly switch between saved application settings.

Preset [1] is selected in the image below.

Preset [2] is selected in the image below.

Preset [3] is selected in the image below.

2.5.2 Adjusting Settings

Once a preset is selected, follow these steps to customize the temperature and time:

1.Tap the **"S"** key; the temperature unit **"°F"** will flash. Tap **"-/+"** to adjust the temperature (range: 32–446 °F).

2.Tap **"S"** again; the first timer value will flash. Tap **"-/+"** to adjust (range: 0–999 seconds).

3.Tap **"S"** again; the second timer value will flash. Tap **"-/+"** to adjust (range: 0–999 seconds).

4.Tap **"S"** once more to save, exit, and return to the main interface.

6. Preset Memory : Settings are automatically saved to the selected preset memory: Preset **1, 2, or 3.**

7. Dual Timer Function : The dual timers operate in sequence. After the first timer finishes, the second timer will start automatically.
If only one timer is needed, set Timer **1** to **0** and use Timer **2** only.

For further instructions on the controller, please contact your supplier!

2.6 TC4S-R1TC Temperature Controller Operating Instructions

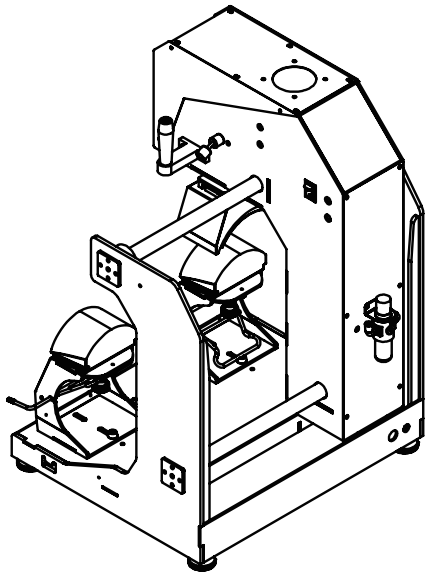
On the main interface, tap the **MODE** button. When the single digit of the lower "SV" value begins to flash, you can start setting the temperature. Tap the ◀◀ **AT** button to switch between the ones, tens, hundreds, and thousands digits. Tap the ▼ or ▲ buttons to adjust the numerical values.

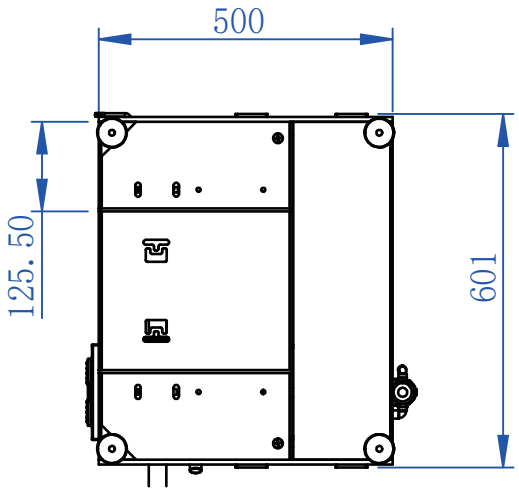
Once settings are complete, press the **MODE** button to save and exit. (If no action is taken within 2 seconds, the system will automatically save and exit). The machine will then enter heating mode, and the green **OUT** indicator light will illuminate.

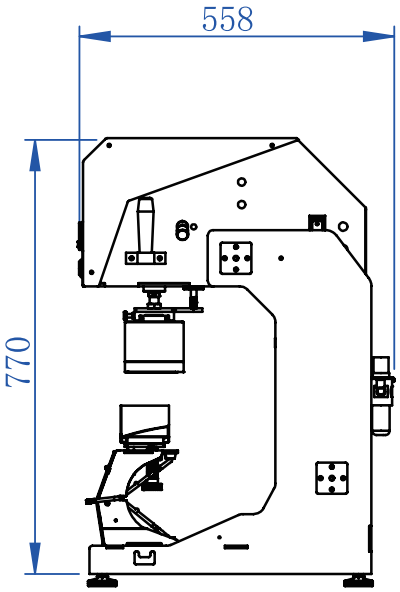
For more information and detailed instructions regarding the temperature controller, please contact your supplier. Thank you!

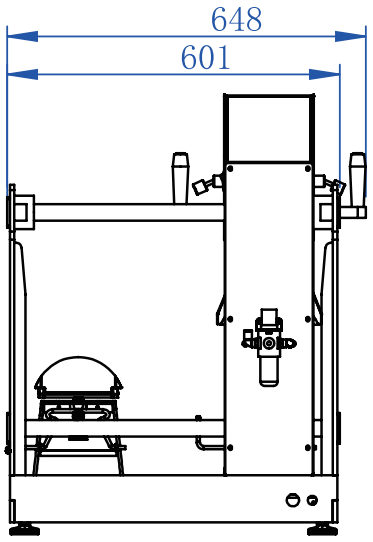
2.7 Equipment external dimensions

(Refer to the technical drawings in your original document for specific measurements.)



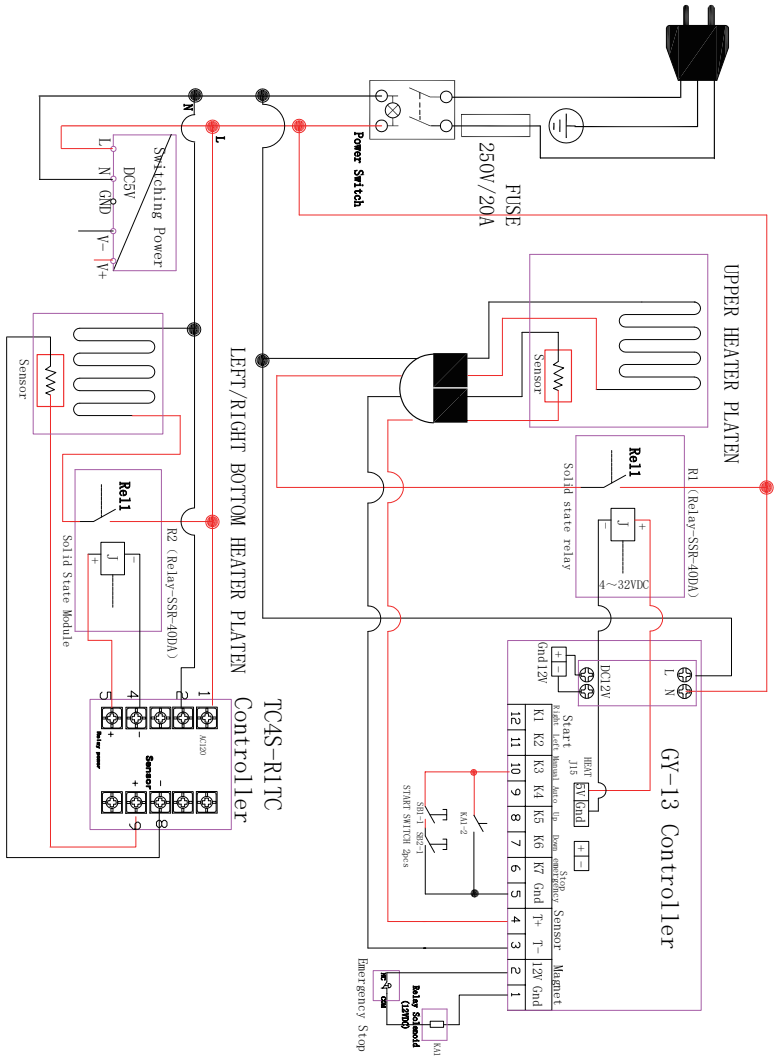






Circuit Diagram

(Refer to your original document for the diagram layout.)



Pneumatic Diagram

(Refer to your original document for the diagram layout.)