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Model: AT43-APS

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AT43-APS Series User Manual

Contents

Overview	2-3
1.1 Equipment Overview	2
1.2 Safety Precautions	2
1.3 Operating Environment	2
1.4 Grounding & Technical Parameters	3
1.4.1 Grounding Requirements	3
1.4.2 Technical Parameters	3
Appearance and Functions	4-10
2.1 Exterior View	4
2.2 Component Names and Functions	5
2.3 Operation Steps	5-6
2.4 PLC Touchscreen Controller	6
2.5 PLC Temperature Controller Instructions	7-8
2.6 Equipment external dimensions	9-10
Circuit Diagram	11
Pneumatic Diagram	12

Overview

1.1 Equipment Overview

Thank you very much for choosing our pneumatic single-station AT43-APS series auxiliary equipment!

Please read this user manual carefully before operating the machine to ensure proper and safe usage.

Keep this manual in a safe, convenient place for future reference.

Depending on the specific configuration of your model, some features listed in this manual may not be available on your machine. Please refer to the actual operating functions of your specific unit.

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.

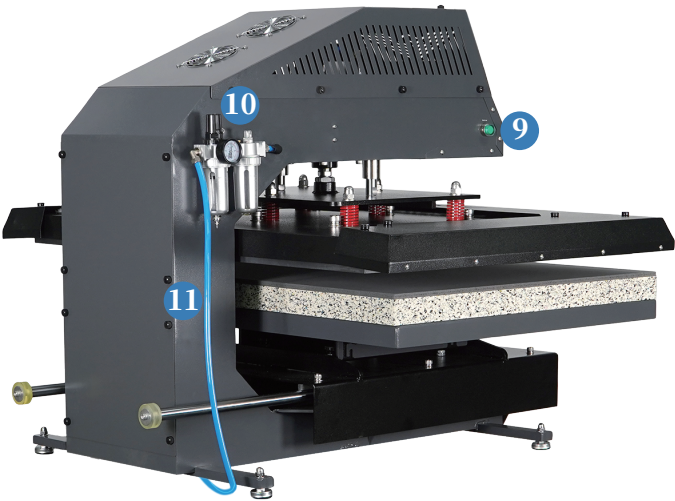
1.4-2 Technical Parameters:

Technical Specifications	Details
MODEL NO.	AT43-APS
Controller	PLC(GC-043-16M2AI-C)
Amp\Voltage\Power\phase	26A / 220V / 5.8KW, 60Hz
Time Range(S)	0~9999
Temperature Range(°F)	0~450
Heating plate size (Inch)	31.4*43.3

Appearance and Functions

2.1 Exterior View

(Please refer to the images in your original document for labels 1 through 14.)



2.2 Component Names and Functions

- 1 & 2. Laser Alignment Lights:** Provides quick alignment and positioning for heat transfers.
- 3. Laser Alignment Power Switch:** Turns the alignment lights ON and OFF.
- 4. PLC Touchscreen Control Panel:** Controls machine operations, heating, and transfers.
- 5. Emergency Stop Switch:** Pressing this switch during a transfer or while the heating plate is pressing down will cause the heating plate to lift immediately and halt operation.
- 6 & 9. Left & Right Dual-Start Buttons:** Press both buttons simultaneously to engage the PLC cycle and lower the heating plate for a transfer cycle.
- 7. Power Switch:** Turns the main power of the machine ON and OFF.
- 8. Power Cord:** Supplies the required electrical power to the machine.
- 10. Air Pressure Gauge Assembly:** Regulates the required air pressure and displays the current operating pressure.
- 11. Air Supply Inlet:** Connects the external air supply required to lower the heating plate.

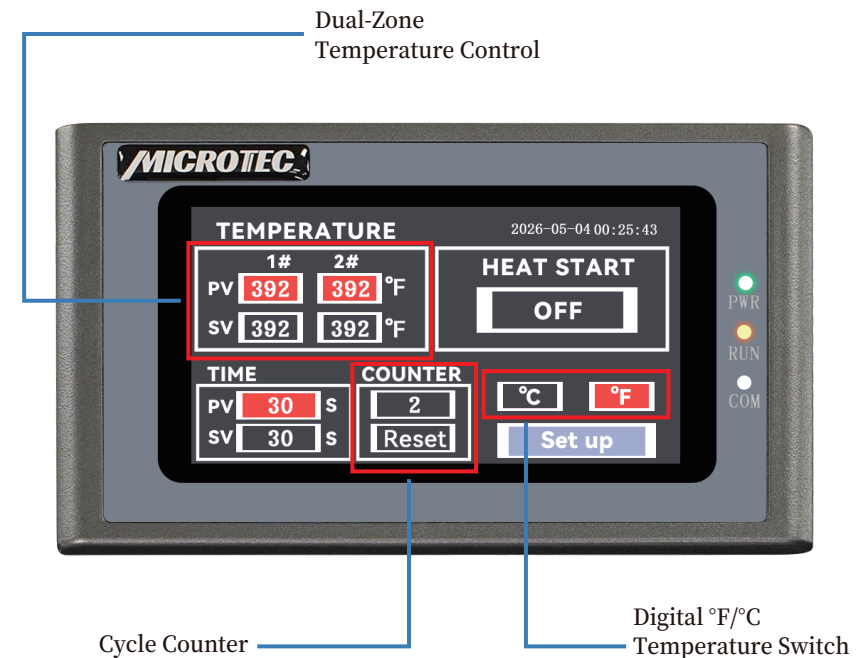
2.3 Operation

Operation Steps

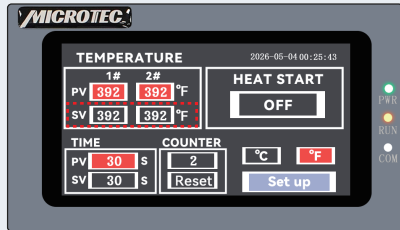
- 1.** Connect the power cord **[8]** to an AC 220V outlet matching the machine's voltage requirements. Connect the air supply inlet **[11]** to a suitable air source. Turn ON the power switch **[7]**. Pull up the black regulator valve on the air pressure gauge assembly **[10]** and adjust the pressure to 4–6 kg/cm² (0.4–0.6 MPa) as indicated.
- 2.** Turn ON the heating switch on the touchscreen (see the diagram below) to allow the machine to begin heating up.
(Refer to the interface image in the original document)
- 3.** Pull out the lower platen, place the transfer material properly, and push the platen back into position.

- 4.** Once the machine reaches the preset transfer temperature, press the dual-start buttons **[6]** and **[9]** simultaneously with both hands to activate the PLC cycle. When the countdown timer reaches zero, the heating plate will automatically lift, completing the transfer.
- 5.** Repeat steps 3 and 4 for continuous production cycles.

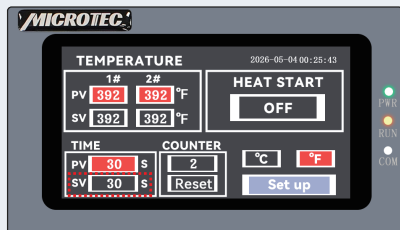
2.4 PLC Touchscreen Controller



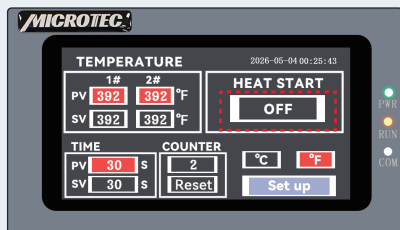
2.5 PLC Temperature Controller Instructions



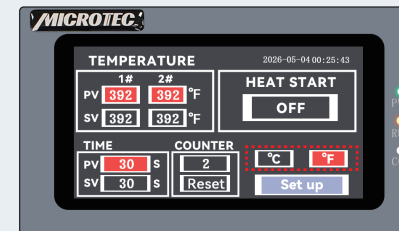
1. On the main screen, tap the SV area within the temperature section to set the target temperatures for 1# and 2#. Press "Enter/OK" to save. (Refer to the image in the original document)



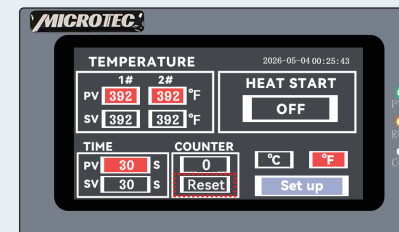
2. On the main screen, tap the SV area within the time section to set the desired transfer duration. Press "Enter/OK" to save. (Refer to the image in the original document)



3. Once the temperature and time are configured, tap **HEAT START** on the main screen to turn the heating elements ON and enter heating mode. (Refer to the image in the original document)



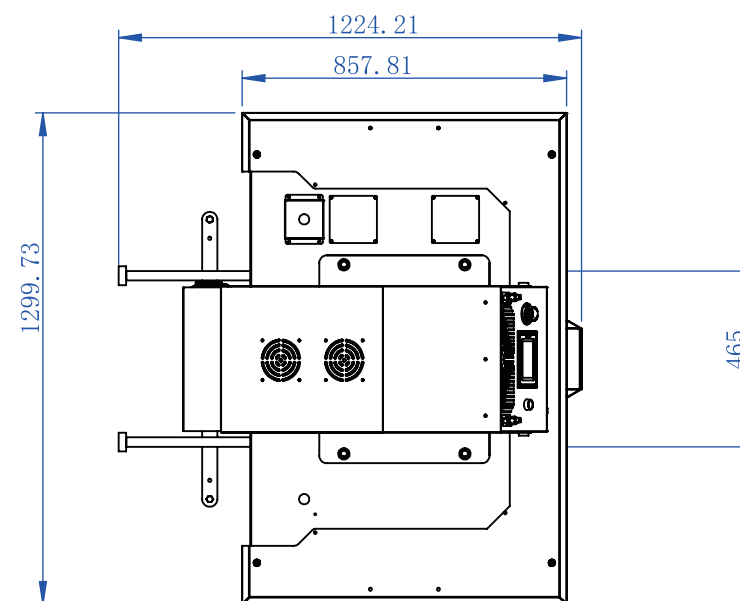
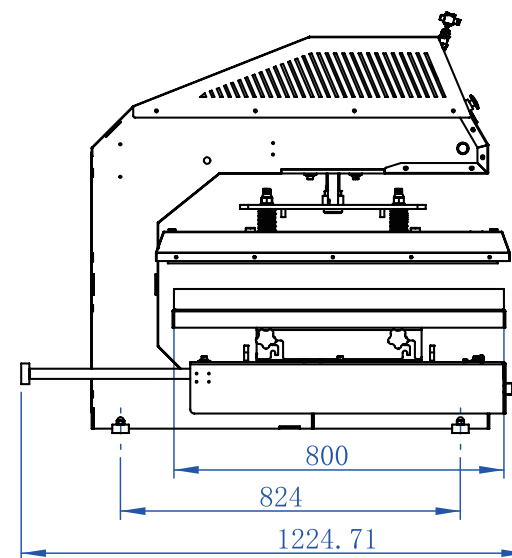
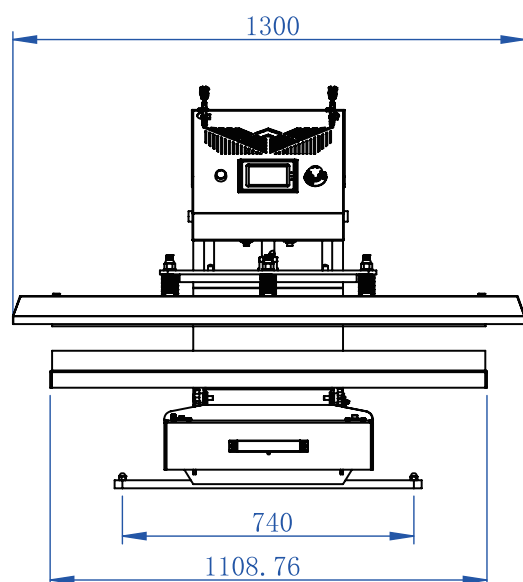
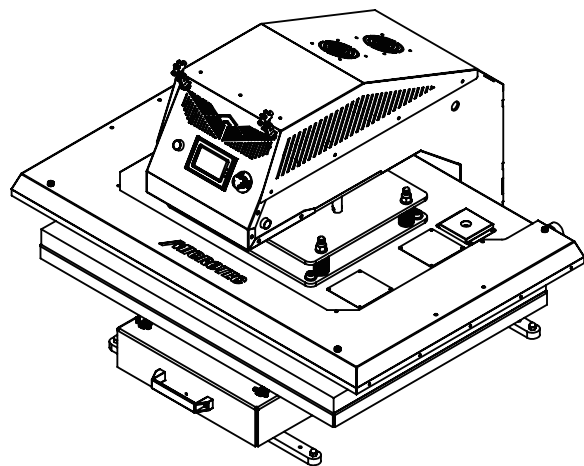
4. On the main screen, tap "°C" or "°F" to switch and select your preferred temperature unit. (Refer to the image in the original document)



5. On the main screen, press and hold "Reset" for 3 seconds to clear the cycle counter back to 0. (Refer to the image in the original document)

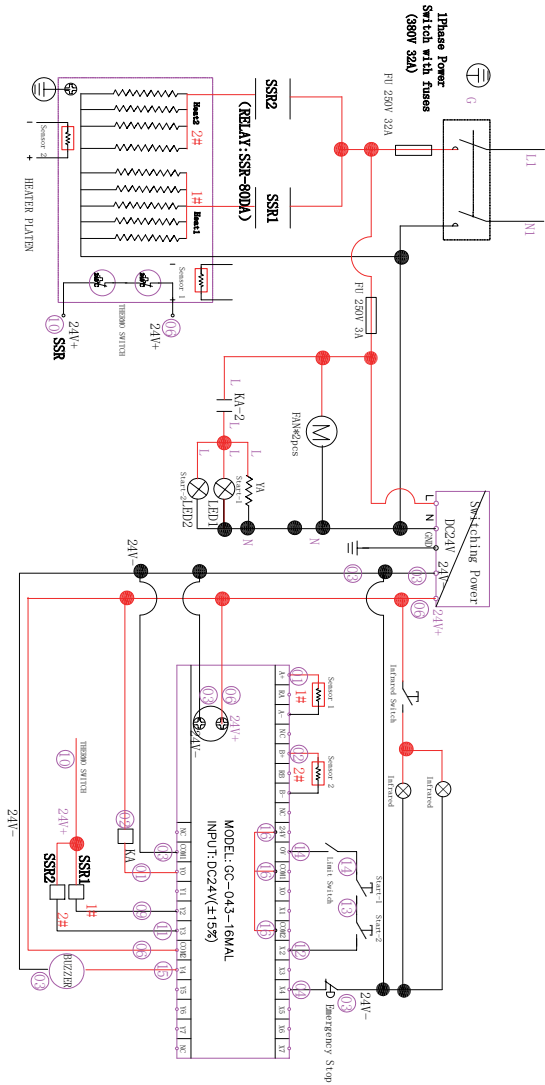
2.6 Equipment external dimensions

(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.)

