



VECTOR

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Model: V1620-APL2

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V1620-APL2 Series User Manual

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Overview

1.1 Equipment Overview

Thank you very much for choosing our dual station pneumatic V1620-APL2 series heat press machine!

Please read this user manual carefully before use to ensure proper operation. Please keep this manual in a safe place for quick reference at any time.

Due to variations in configuration, some machines may not include all the features listed in this

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

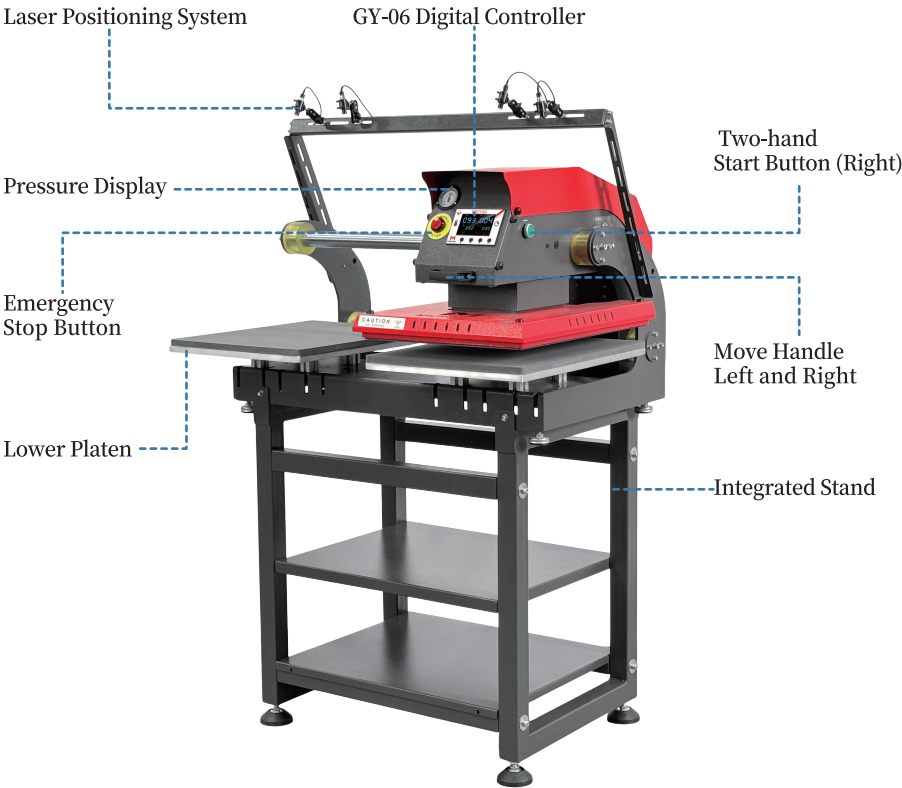
1.4-1 Grounding Requirements:

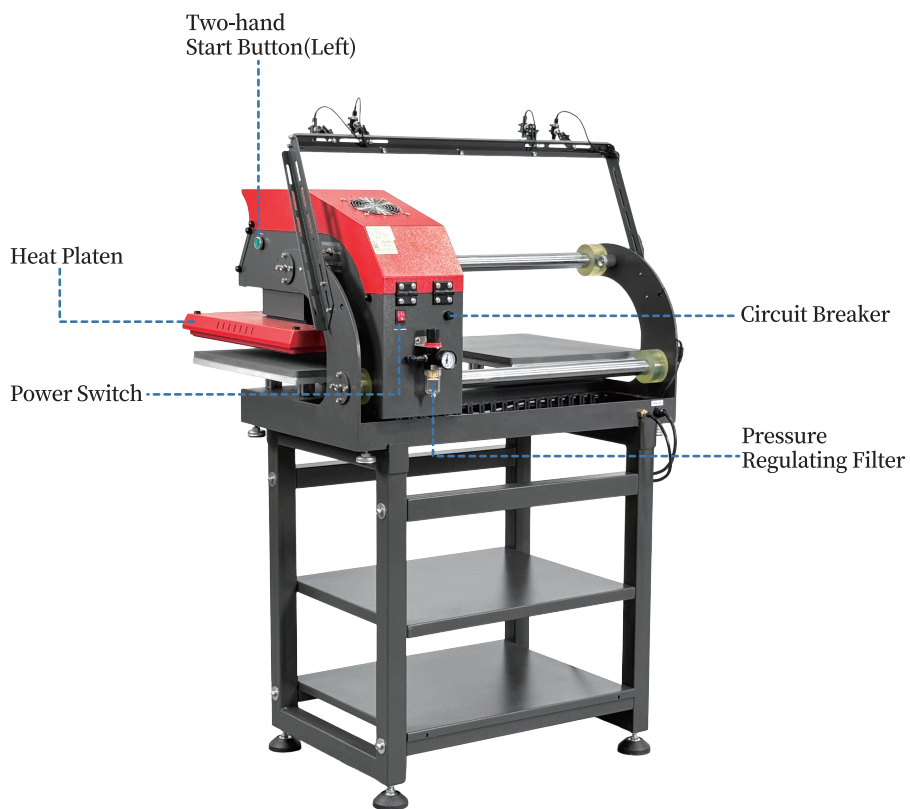
To prevent electric shock or fire caused by leakage, overvoltage, or insulation failure, please ensure the equipment is reliably grounded.

1.4-2 Technical Parameters:

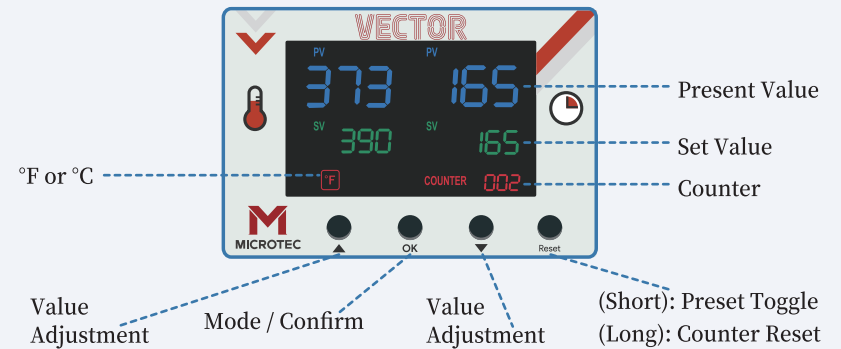
Parameter	Specification
Model No.	V1620-APL2
Controller	GY-06
Amp \ Voltage \ Power	14.2A \ 120V \ 1700W
Time Range (S)	0 ~ 999
Temperature Range (°F)	32~446
Heating Platen Size (in)	15.7 x 19.7

Dual Station Heat Press Structure





GY-06 Digital Controller Introduction



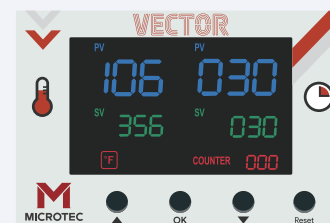
Present Value (PV): The left PV shows the current temperature of the heating element, while the right PV shows its current time.

Set Value (SV): The left SV displays the set temperature, and the right SV displays the set time.

COUNTER: The "COUNTER" on the bottom right shows the number of transfer cycles. It can range from 0 to 999. Press "Reset" for 5 seconds to make counter return 0.

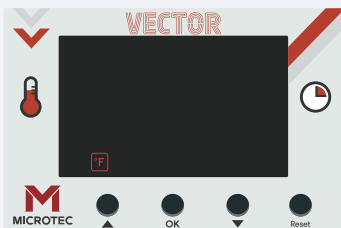
°F represents Fahrenheit, and °C represents Celsius. (The adjustable range for Fahrenheit is 0-437, and for Celsius, it is 0-255)

OK, Reset, "▲" and "▼" are the setting buttons.



Turn on the power switch, and the digital controller will turn on. The upper row display the actual temperature and time, while the lower row shows the set temperature and time.

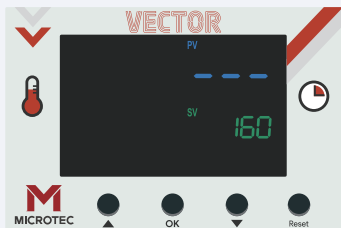
GY-06 Digital Controller Operation



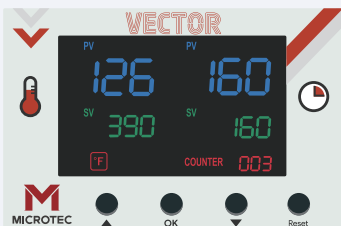
°F or °C: Press the "OK" button. Use "▲" and "▼" to switch between "°F", or "°C". Press the "OK" button to move to the next screen.



Temperature setting: Use the "▲" and "▼" buttons to set your desired temperature. Press "OK" to move to the next screen.

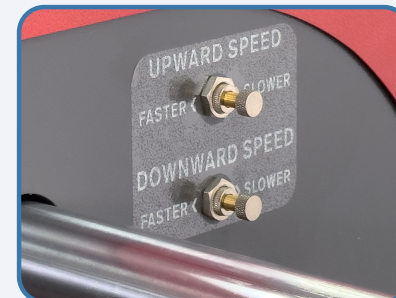


Time setting: Use the "▲" and "▼" buttons to set your desired time. Press "OK" to move to the next screen.



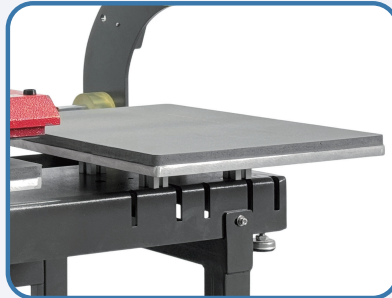
The new temperature and time settings will be shown under SV. Once the desired temperature is reached, a beep will sound, indicating that the heat press is ready.

How to Adjust the Pressure



- 1. Connect the air supply:** The pressure value will be displayed on the Regulator Filter Gauge. (Range 0-1MPa).
- 2. Adjust the air pressure:** Pull up the knob of the regulator filter to adjust the air pressure (turn clockwise to increase the pressure and counterclockwise to decrease it). It is recommended to set the transfer pressure between 0.4-0.6 MPa. Once you've reached the desired pressure, press the regulator filter knob back down.
- 3. Filter water from the air:** The regulator filter will filter out water from the incoming air, which will be collected in the glass cup beneath the filter. Press the button at the bottom outlet by hand to discharge the water.
- 4. Adjustment of heat Platen's rise and press speed:** Adjust the two knobs on the right side of the machine. The upper air flow control valve adjusts the speed up which heat platen rises, while the lower air flow control valve adjusts the speed which heat platen presses down. You can adjust these settings according to your needs (turn clockwise to decrease speed, counterclockwise to increase speed). After making adjustments, tighten the screws near the machine cover to lock the settings. **(Note: The machine is pre-set with suitable speeds, and it is not recommended to adjust these settings.)**

Laser Positioning System Operation



To adjust the laser position, loosen the two screws on either side of the universal bracket. Move the laser so that the two intersecting laser beams are centered on the bottom platen. Once the laser beams are correctly aligned, tighten the screws to secure the universal bracket in place.

To adjust the laser head, rotate the infrared laser head to ensure that the two intersecting beams are perpendicular to each other, forming a precise cross. This alignment allows you to accurately position your transfer design. You can **further fine-tune the laser beams to match the exact position of your transfer pattern**, ensuring optimal accuracy before starting the press.

Emergency Stop Function



The Emergency Stop Button is a safety feature designed to immediately halt the machine's operation in case of an emergency or malfunction. Pressing the button will instantly stop all processes and raise the heated platen, preventing potential damage to the transfer items or harm to the operator.

Heat Transfer Process



Prepare to Press

Connect to the air source and turn on the power switch, the digital controller will display. Set target temperature and time, wait for the temperature to reach the set value.



Prepare Materials

Adjust the pressure to the appropriate level. Place the item (e.g., T-shirt, Metal Print) on the lower platen, and position the transfer paper, film, or other materials on top of the item.



Start the Transfer

Once the platen reaches the set temperature, move it to the station where the transfer item is placed. Press the "Two-hand Start Button", the heat platen automatically press down, the timer begin to count down.



Transfer at the 2nd Station

When the countdown ends, the heat platen will automatically rise, the pressing cycle is complete at the first station. Then move the heat platen to the second station, where the next transfer item is positioned. Repeat the previous steps.



Complete the Transfer

When the countdown ends at the 2nd station, the heat platen will automatically rise, completing the transfer process. The transfer item can be removed, and the process is ready to begin again with the first station.

Heat Pressing Tips

Whether you're applying designs on T-shirts, cap, or other materials, there are a few tips and tricks that can help you achieve flawless transfers every time.

Check Temperature and Pressure Settings

- The right temperature and pressure are crucial for achieving a perfect transfer. Adjust both based on the material and transfer type to avoid incomplete designs or damage to the fabric.

Pre-Press Your Garment

- Pre-pressing removes moisture and wrinkles from the fabric, ensuring a smooth surface for the transfer and better adhesion of the design.

Use the Right Materials

- Using compatible transfer papers and inks for your fabric and transfer method (e.g., sublimation, vinyl) is essential for professional, long-lasting results.

Time is Key

- Press your design for the recommended time to avoid under or overpressing, which can result in incomplete transfers or damage.

Cool Peel vs. Hot Peel

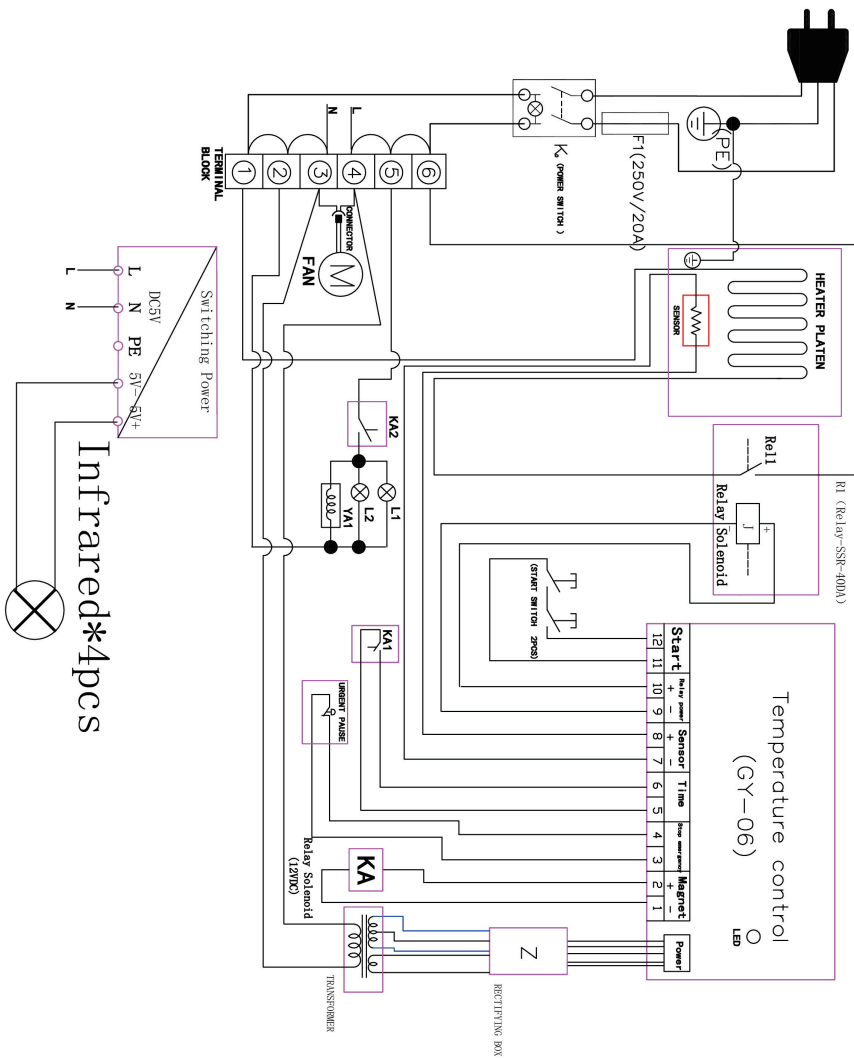
- Follow the correct peeling instructions based on the transfer paper type (hot peel or cool peel) to prevent smudging or incomplete transfers.

Use a Teflon Sheet or Parchment Paper

- A Teflon sheet or parchment paper protects both the heat press and your design from damage, ensuring a cleaner transfer and prolonging the machine's lifespan.

Circuit Diagram

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



Pneumatic Diagram

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

