

MINIWARE Mini Hot Plate Preheater MHP50



MINIWARE Mini Hot Plate Preheater MHP50 is the second mini-sized intelligent constant temperature heating plate designed by e-Design after Mini Hot Plate Preheater MHP30. Its heating area has been increased from 3cm*3cm to 5cm*5cm, while retaining pocket size, suitable for a wider scope of application.

MHP50 has a flat sandwich shape and separate design that facilitates flexible replacement of controller and hot plate. MHP50 innovatively adds a high-speed cooling fan for heat dissipation that can smartly adjust fan speed by temperature sensor and blows air to the heat filter piece of hot plate, and a unique air deflector helps deflect the hot air away with unnecessary heat, reducing the overall height of MHP50 to 3.7cm (1.46 inches), making it more stable, not easy to tip over, and more flexible in soldering operations while not affecting the overall performance. The controller is equipped with a 160*80 resolution color LCD display, which can clearly display device status. There are physical buttons on each end of the screen for quick setup. MHP50's hot plate uses two different materials for heating body—**brass plated with nano-ceramic coating**, the same material as MHP30, special processed and easy to clean; **aluminum alloy heating body**, a classic material and evenly heated. A futuristic stainless steel hollow bracket connects the heating part with the cold end circuit board that can be directly inserted into the controller.

Besides MHP30's inheriting the true color temperature lighting and excellent thermal

performance, MHP50 has other hardware and functional improvements. MHP50 supports both DC and PD input modes—under DC5525 19-24V power input, the maximum power of MHP50 can reach 150W, while under PD 20V, 100W; it takes 150 seconds heating from room temperature (28°C) to 300°C at the fastest. In terms of firmware functions, MHP50 adds a heating curve function by which user can set different heating parameters by sections according to soldering needs to achieve a heating effect similar to that of a reflow oven. In addition, MHP50 also has intelligent functions such as preset temperature, overturn protection, brightness adjustment, firmware upgrade, etc. Users can turn on or off the corresponding functions as needed.

Product Features:

- 5cm*5cm heating area, 3.7cm height, mini pocket size, suitable for mobile soldering application scenarios;
- Separable controller and hot plate, flexible to replace;
- Built-in high-speed cooling fan, which can automatically detect the temperature of the controller, intelligently adjust the fan speed, and accelerate heat dissipation;
- Innovative air deflector to effectively cut off heat transferring, protecting controller from thermal damage;
- 160*80 resolution color LCD display, clear and rich parameter display;
- Built-in OLED display and true color LED, light color changes with heating temperature;
- Two hot plates with different heating materials for your choice: aluminum alloy and brass with nano-ceramic coating, each with its own heating strengths for your needs;
- Hot plate adopts a futuristic design stainless steel bracket, artistic and practical;
- Dual-mode power inputs: DC 5525 power jack for 19-24V input upto 150W; standard PD 20V power input to reach 100W;
- Takes only 150 seconds at the fastest heating from room temperature (28°C) to 300°C (under DC 24V power input);
- Innovative heating curve function, you can customize the heating temperature and duration by sections to achieve similar reflow soldering effect;
- Multiple intelligent functions: preset temperature, overturn protection, brightness adjustment, firmware upgrade;
- Use scenarios: MHP50 Mini Hot Plate Preheater can be put into your pocket, for preheating, desoldering circuit boards, components, LED lamp beads, etc.

MHP50 Specifications:

Controller Model	MHP50
Hot Plate Model	AL50 (aluminum) / BS50 (brass)
Heating Area	50mm*50mm
Temperature Range	100-350°C
Temperature Stability	3%
Max Power	DC 5525 150W / PD 100W
Power Input	DC 5525 19-24V / PD 20V (Use only one input)
Size	Controller: 71.5mm*W55.5mm*H22.5mm Hot plate: L50mm*W50mm*H29mm
Weight	Controller: 78g AL50: 60g, BS50: 87g
Smart Modes	Multi smart modes: preset temperatures, heating curves, overturn protection, brightness adjustment, firmware upgrade