

1. Main features and Specifications

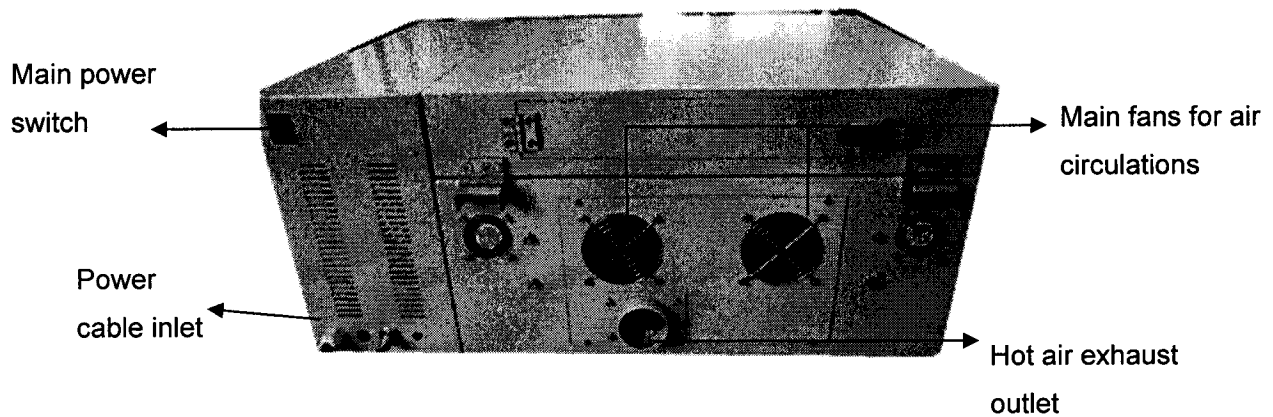
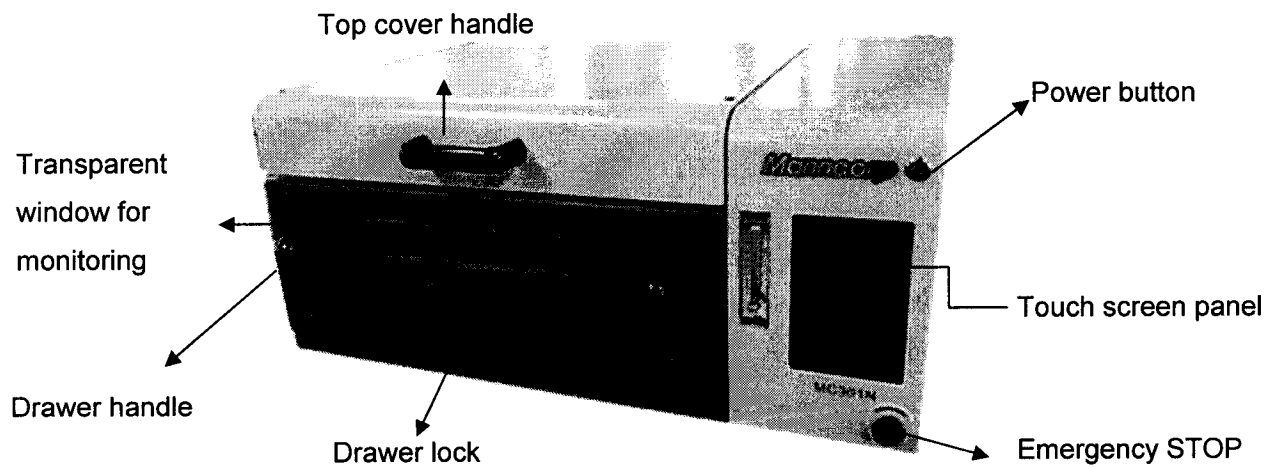
- 1.1 User control: Android software platform runs on industrial processor hardware to achieve precise and high speed temperature controls. Ultra high resolution touch screen graphic display for intuitive user interface. Build-in wireless WIFI hardware supports seamless data transfer.
- 1.2 Profile control : Single or multi-stage control using PID servo principles to monitor and adjust temperature changes at defined rates, hence to achieve the desired solder profile curves.
- 1.3 Temperature control: Android based software driving SSR contact-less switch circuit to control switching on and off of heating elements
- 1.4 Temperature precision : $\pm 2^{\circ}\text{C}$
- 1.5 Warm up period: 2.5 mins
- 1.6 Temperature range : from room temperature and up to 310°C
- 1.7 Heat source : Infrared + hot air convection
- 1.8 Effective working area : 250mm \times 200mm
- 1.9 Soldering time : typical 5 mins, ± 1 min
- 1.10 Temperature profile display : Real time display on machine display screen
- 1.11 Cooling system : Rapid cross-current method
- 1.12 Rated power : 6.2KW (peak) Average power : 3.6KW
- 1.13 Rated voltage : single-phase 220V
- 1.14 Weight : approx. 50KG
- 1.15 Dimensions : L x W x H = 780 x 560 x 370(mm)
- 1.16 N₂ input : 0.6mpa**

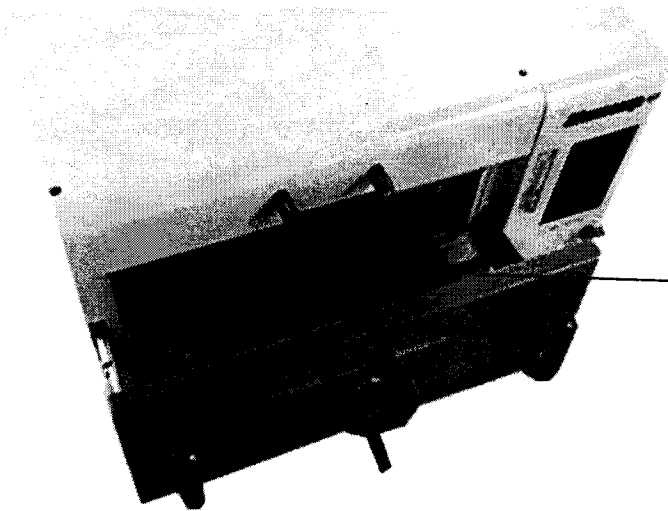
Upon arrival of the delivered package, please check for any abnormality or damage that maybe made during transportation. If needed, please contact us or your sales agent for assistance. Please read this manual before start using this reflow oven.

2 Installation

Please check the package against the delivery note. If any item is missing and/or any visual damage is found, do not rush to turn on the machine but report to us or your agent for support.

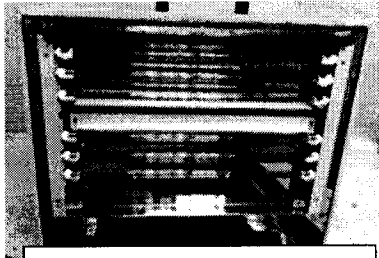
2.1 Physical outlook checking





PCB placement area
(heating chamber)

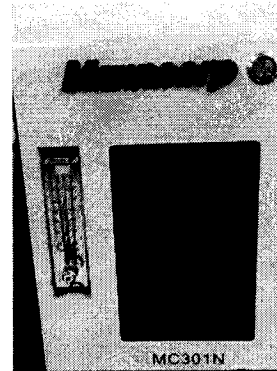
Internal structure pictures



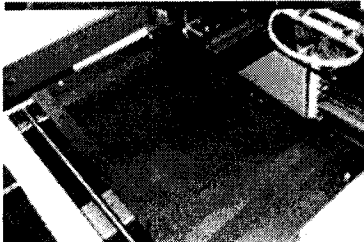
Infrared heater system



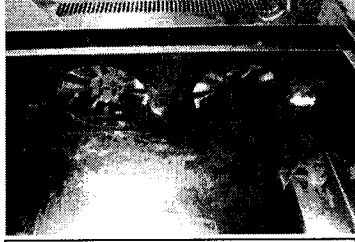
Circulation fans



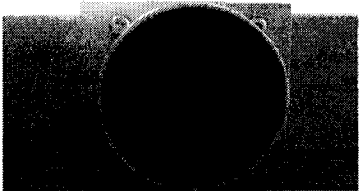
Touch screen
control panel



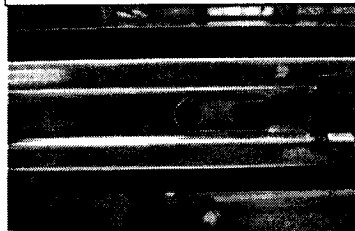
PCB support table



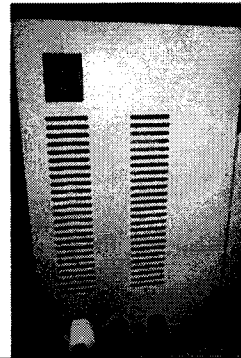
Hot air circulation



Hot air exhaust outlet



Drawer guide ways



Main switch and
fuse protection

2.2 Precautions for installation

2.2.1 Location of installation

Do not install the reflow oven in dusty, nor corrosive gas, nor high temperature, nor humid place. Keep it in a clean, well ventilated, no EM interference environment.

2.2.2 Environment conditions

For operation use, environment temperature: 0 ~ 38°C

For operation use, environment humidity: less than 85% RH

For storage, environment temperature : 10 ~ 60°C

For storage, environment humidity : less than 85% RH

2.2.3 Installations



Before installation, a single phase electricity supply equipped with industrial grade cable and socket should be prepared.

Power supply rating: AC220V single phase 3-wires, rated power capacity not less than 3.5 KW. Current rating of the power socket not less than 15A rated and 30A peak.

Reflow oven should be placed on a solid and stable working table.

2.3 Operation procedures

2.3.1 Before power on:

Make sure the oven is connected to the power source according to the specifications required

The oven is properly connected to the earth terminal

The internals of oven inside is clean and clear