

INFRARED IC HEATER

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User Manual

Model: T-962/T-962A



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<http://www.tech168.cn>

INFRARED IC HEATER

1. Description of products :

INFRARED IC HEATER T962/T-962A works automatically by micro-computer control. We adopt fast infrared radiation for heating and circular-wind to do temperature equalization, so the temperature in the drawer is very accurately and equilibrium.

It is easy to use and the whole soldering process will be done automatically.

It can satisfy dissimilarity soldering-request of SMD、BAG and can soldering the most smart small part. It also can do two-side soldering for the PCB Board.

The faintness controlling technique and visualization-drawer workbench, Make the whole soldering process completed at your observation.

The highly dependable design, make you gratified and reassurance when using it.

2. Products features

(1) Big cubage soldering area

The soldering max area of T-962 is 180X230mm;

And the soldering max area of T-962A is 300X320mm.

(2) Many choices of temperature wave

There is eight kinds of temperature parameter waves provided for you to choose. You also can operate the machine with HM-heating. And there is cooling fan with the machine. Whole soldering process will be completed automatically.

It is very easy to operate.

(3) Special heat up and temperature equalization with all design.

Output power reaches to 800 W(T-962)/1500W(T-962A), Quickly infrared radiation combined with wind-circulation, make the temperature in the drawer more exact and equality. Whole soldering process to be completed automatically according to temperature parameter waves you choose.

(4). Humanized science and technology exquisite article.

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Firm of external appearance, operation with visualization, hail-fellow operation interface, the perfect temperature wave project, from start to eventually display that the science and technology is the root.

The light weight and small cubage will save more money for you, the desk-top placed, can also save more space for you. The simple operating instructions, make you use the machine easily.

(5) Perfect function choice.

With the function "return soldering, drying, heat preservation, cooling quickly" in on machine. It can soldering the most smart small part, as CHIP、SOP、PLCC、QFP、BGA and so on; Can used to turn the product gum-solid, the circuit board is hot aging, the PCB plank maintains and various other works. It will be satisfied to each kind of business enterprise, company extensively develop and the small quantity demand of production.

(6) Technical parameter

	T-962	T-962A
Soldering max area	18 x 23.5 cm	30 x32 cm
Size	31 x 29 x17 cm	43 x 37 x26 cm
Packing size	36 x 23 x36 cm	50 x 43 x33 cm
Supply Voltage	AC110V/50~60Hz AC220V/50~60Hz	
Rated power	800W	1500W
Process Period	1~8 min	
Net weight	6.2Kg	13.5Kg
Gross weight	7.5Kg	15. 5Kg

3. Select the wave

- (1) Place the T962 on an appropriate level, insulated work area.
- (2) Make Sure the work space is well ventilated (exhaust fans may be necessary),
- (3) Allow at least 20mm between the T962 and its surroundings for heat protection.

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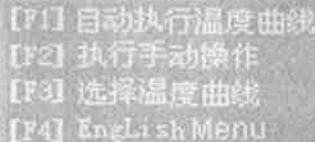
(4) Confirm the Work drawer opens and closes smoothly and without obstruction

(5) Locate supplied universal power cord and connect same from rear apron to AC power.

(6) Locate and press the power on button, the LCD will light, the T962 will log on.

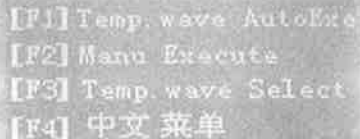


Press "s" button, the main menu will appear on LCD.



[F1] 自动执行温度曲线
[F2] 执行手动操作
[F3] 选择温度曲线
[F4] English Menu

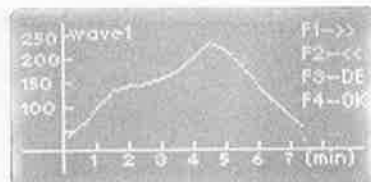
Press "F4" to Select English Menu



[F1] Temp. wave AutoExec
[F2] Manu Execute
[F3] Temp. wave Select
[F4] 中文菜单

In the main menu

Press "F3" button selection different temperature wave. Example select wave1



Press "F3" button again, can see parameter about you choose the temperature wave:

Select: soldering paste sort, soldering temperature, time etc.

example:

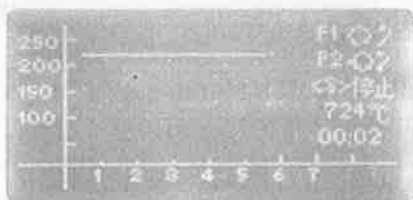
temperature, time etc. example:



When selections are complete, then Press "F4" button to return previous page. Press the temperature wave that the "F1" key carries out to make selection automatically.

When it is ending, the work will shut down automatically, and the warning buzzer is working.

In the main menu page, press " F2"button by handcraft operation

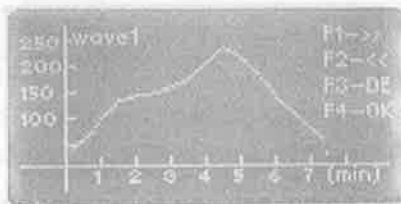


Press "F1" button to start cooling, Press F1/S key again to stop.

Press "F2" button to start heat up, Press F2/S key again to stop.

(2).The wave select.

① Press the "S" button selection operation interface after switch on, press the "F4" selections a different language category.



② Following we provide eight different waves, please choose one according to your request. Press the F1/F2 to choose different

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wave, press F3 to look into different wave parameter, press 4 to confirm the wave you chose.

Wave one, use the same with 85Sn/15Pb 70 Sn/30Pb

Wave two, use the same with 63Sn/37Pb 60 Sn/40Pb

Wave three, use the same with Sn/Ag3.5; Sn/Cu 75 Sn/Ag4.0/Cu.5

Wave four, use the same with Sn/Ag2.5/Cu.8/Sb.5; Sn/Bi3.0/Ag3.0

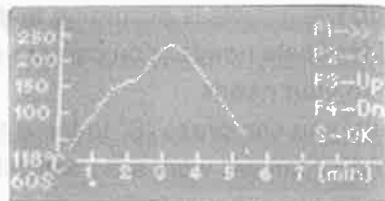
Wave five, use the same with The red gum standard is solid to turn temperature wave, heraeus PD955M.

Wave six & seven & eight, use the same with The PCB circuit board returns to fix etc.

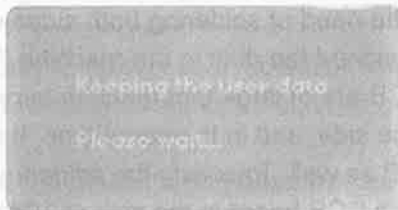
Wave seven & eight, use the same with the wave cycle set-up by yourself.



Press "s" button to the temperature page,



Press F1/F2 button, ahead/ backwards select different time. Press F3/F4 button ,up/down to select different temperature, Press "s" button to save.



When save finish ,press F4 button to select the temperature wave.
Press S button to **repetition**.

4, Operating instructions

(1) Lightly puts the product which will be processed in the drawer of the oven on the stage , Close drawer, Press F1 to switch on, The automatic performance make selection of heat wave, Show current performance time, the enactment temperature and temperature on the LCD screen, and automatically note the formed wave of the temperature.



(2) The whole process is in your supervision, you may see it by the window of the drawer, and you may see the data from the LCD screen. If the wave doesn't achieve your request, please modify the data by yourself.

(3)The pre-set up wave cycle is according to the temperature that the different solder paste needs. You can pre-set up other wave cycle according to your needs.

(4) In the process, you can press "S" to force to stop; When finished, the exhaust fan will work automatically to cool, you also can force to turn on the exhaust fan.

(5) Complete the soldering, if somewhere is faulty, you can sold it automatically again, or you can sold it manual.

5、operation suggests:

(1) To satisfy the need of soldering both sides of the PCB, there is a particular designed fan duct in the machine. When the both sides of the PCB are of large difference in temperature, it can sold the patch in one side, and in the same time, it can keep another side of the PCB as well. To satisfy the soldering of the small board, please pre-put a PCB board in the size of 10cm*10cm,when

soldering the small board and the solder-ball. It will make the soldering effect very well.

(2) When use the machine, please pre-heat it if the environment is of low temperature, too humidity. The method: after choosing the wave cycle, run the machine with nothing in the drawer at the first time.

(3) Attention: The machine can't be used to soldering the chips(the chips which with metal encapsulation are of strong glisten),and the "plastic plug in board" which can't be able to bear the temperature of 250degree centigrade.

(4)About the method to measure the temperature of the machine: Use the standard weatherglass. Fix the probe on the face of the PCB board(make sure it is the face),then put the PCB board into the drawer, close the drawer. And then you will get the actual temperature.

6. Daily maintenance:

(1) Keep the inside of the machine clear. Please do as follows: When used the machine several times, please turn on the "heat-up" and the "exhaust fan" two or three minutes, to make the flux remained in the machine volatilization. It will keep the inside of the machine cleanness, and make the function of the machine stabilization.

(2) Clean the drawer observation glass as necessary.

7. Caution!

(1) Make sure the power supply is connect with earth.

(2) Do not turn off the switch at once after using, make sure the machine is cooling, and then turn off the switch and cut the power supply.

(3) There isn't any way to do smoke evacuation, please put the machine in a ventilated condition to avoid poisoning(when the solder paste volatilization).

(4) The insulations in the machine had been treated strictly. Do not take apart the machine until there is any safe protection.