



BK863

INTELLIGENT INTEGRATED SOLDER & HOT AIR REWORK STATION



NOTE:

- Please follow the instructions to avoid accidents.
- For your own safety, please read the instruction carefully. Fully understand how to use the product, to prevent any accidents due to improper use.
- Please keep it for your reference after reading.

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Safety instructions



Before use, please note the following safety instructions.

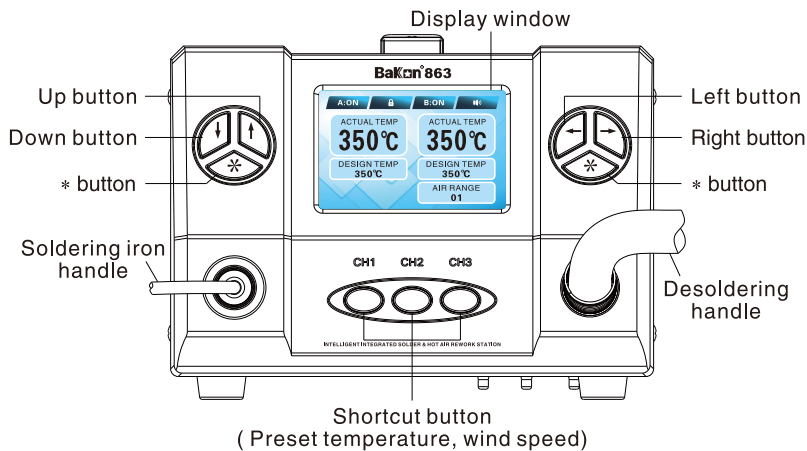
- 1、 Please avoid the abuse of rework station, and use this product in accordance with the instruction manual.
- 2、 There may be extremely high temperatures at the air outlet and its surroundings, so be careful not to get burned.
- 3、 When not working, the handle must be correctly placed on the handle frame, never placed on the work surface or other places.
After the work is completed, let the machine automatically cool down to below 100°C (in sleep state) before turning off the power switch.
- 4、 Please keep the air outlet unblocked without obstructions.
- 5、 Do not place sharp objects on the air outlet hose to avoid damage it.
- 6、 When in use, the distance between the air outlet and the object is at least 2 mm, calculated as the air outlet.
- 7、 Suitable air nozzles can be selected for different jobs; the temperature may be slightly different for different air nozzles.
- 8、 Please pull out the power plug if you do not use it for a long time after working.
- 9、 Should be handled with care, do not knock the handle or use the machine to vibrate strongly.
- 10、 Check and maintain product regularly. It is strictly prohibited to use when it is damaged, especially when the power cord or air gun handle cord is damaged.
- 11、 Do not use it when your hands are wet or the rework station is wet to avoid short circuit or electric shock.
- 12、 Do not use near flammable gas or other flammable substances. After use, do not put the machine around flammable gas or flammable materials immediately.
- 13、 In some areas, such as walls, ceilings, floors, arches or other may contain flammable materials, if used in these areas, these materials may ignite, and may not be easily found, resulting in property damage and personal injury. When working in these areas, try to make the desoldering handle move back and forth. Staying or pausing at a certain point will cause the board surface and combustible materials to burn.
- 14、 Please do not use or store in the reach of children.

Note:

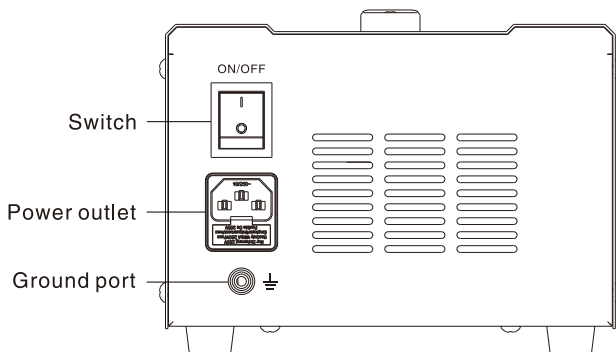
The company reserves the right of design changes and final interpretation of the product. The pictures in the manual are for reference only, and the actual product shall prevail.

Product schematic

Front:



Back:



Packing list

Host	1PCS
Air gun seat	1PCS
Nozzle	1SET

Soldering iron handle	1PCS
Soldering iron stand	1PCS
Power cable	1PCS
Manual	1PCS

Product specifications

Input Voltage	AC 230V/50Hz
Power/Temperature range	1000W / 100°C-500°C
Soldering iron power/temperature range	90W / 100°C-480°C
Air volume range/maximum air volume	01~120 / 250L / min
Size/NW/GW	L260xW190xH130±5mm / ≈5.4kg /5.7kg
Working environment	-10~45°C / 45~80%RH
Storage environment/temperature	-20~80 / -4~176 °F/ 35%~60%
Screen display	HD LCD display
Fan type	Brushless vortex fan
Temperature calibration	Digital calibration
Temperature control method	Microcomputer temperature control
Quick settings	CH1 / CH2 / CH3
Fan abnormal warning	Have
Celsius/Fahrenheit conversion	Have
Low temperature/high temperature warning	Have
Heating core/sensor/abnormal protection	Have
Chinese/English switch	Have

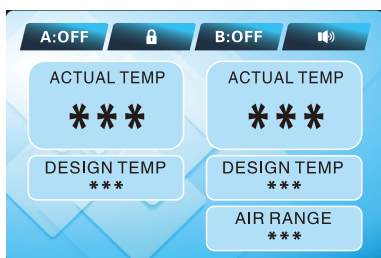
Product features

- 1、Adopt high-definition super large color display;
- 2、Three working channels of CH1,CH2, CH3, and the air volume and temperature of each channel can be set;
- 3、With password protection function and key lock function;
- 4、Real-time operation is convenient, with magnetic switch control, it immediately enters sleep when the handle is placed on the handle frame;
- 5、With automatic sleep function, and the parameters can be set in the sleep state;

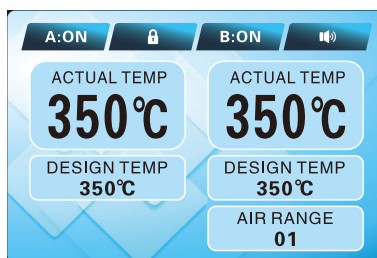
- 6、Sensor closed loop, microcomputer zero-crossing trigger temperature control, high power, rapid temperature rise, convenient and accurate temperature adjustment, not affected by the air output;
- 7、Using brushless vortex fan, the air flow is adjustable, the range is large, and it can be adapted to various purposes;
- 8、The system is equipped with automatic large air volume cooling function to extend the life of the heating element and protect the hot air handle.

Operating Instructions

1.On/Off and Shortcut key(Temperature/air volume adjustment)



Standby mode

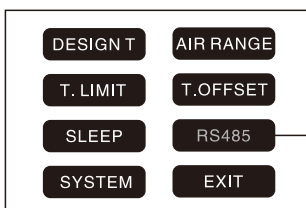


Power on state

Main interface status: power-on default standby state, the screen parameters display "****", long press the "left*" key or "right*" key for one second to switch the power on/standby state of the corresponding channel, press "↑" "↓" or "←" "→" can quickly adjust temperature. If you need to switch the air volume, short press the "right*" key.

2.Function menu

In the main interface state, quickly press the "left* key" or "right* key" twice to enter the menu function selection interface:

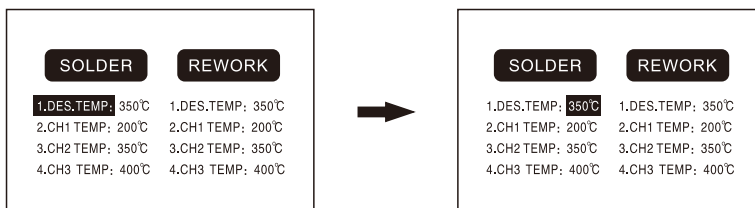


(Optional features)

Press "↑/↓/←/→key" to move the cursor to select function options, press * to enter.

2.1. Temperature setting

According to the current cursor position, select "welding station" or "air gun" with one key, when the cursor is at the "welding station" Exit the current menu interface by pressing the f key, and press the I key or * key to enter the menu selection status below:

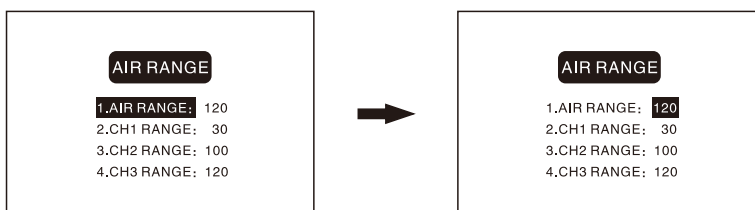


Use the ↑ ↓ keys to select the function menu that needs to be set and press * or → to enter the parameter modification state.

Press ↑ to increase the value by one, press ↓ to decrease the value by one, press ← to decrease the value by ten, and press → to increase the value by ten. Press * to save the current value and return to the menu item selection state. (Soldering station temperature range: 100~480°C/212~896°F)
(Air gun temperature range: 100~500°C/212~932°F)

2.2. Wind speed setting

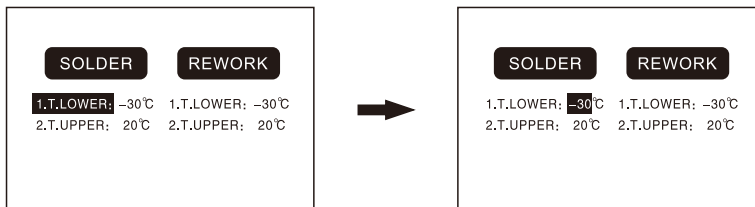
Use the ↑ ↓ key to switch the 1--4 options, press the ← key to exit the current menu interface, (or when the cursor is at the first item "1. Set wind speed" or the last item "4. CH3 wind speed", press ↑ or ↓ again to exit the current menu) Press * or → to enter to modify the setting value of the corresponding option:



Press ↑ to increase the value by one, press ↓ to decrease the value by one, press ← to decrease the value by ten, and press → to increase the value by ten. Press * to save the current value and return to the menu item selection state. (Setting range: 01~120)

2.3. Warning threshold

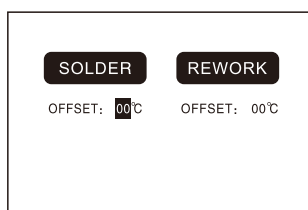
Use the ↑ ↓ key to switch the 1--2 options, press the ← key to exit the current menu interface, (or when the cursor is at the first item "1. Lower temperature limit" or the last item "2. Upper temperature limit", press ↑ or ↓ again to exit the current menu) Press * or → to enter to modify the setting value of the corresponding option:



Press ↑ to increase the value by one, press ↓ to decrease the value by one, press ← to decrease the value by ten, and press → to increase the value by ten. Press * to save the current value and return to the menu item selection state. (Setting range: -50~50°C/-90~90°F)

2.4. Temperature compensation

Press ↑ key to exit the current menu. Press * or ↓ to enter to modify the setting value of the corresponding option:



Press ↑ to increase the value by one, press ↓ to decrease the value by one, press ← to decrease the value by ten, and press → to increase the value by ten. Press * to save the current value and return to the menu item selection state.

Soldering station/Air gun e.g.

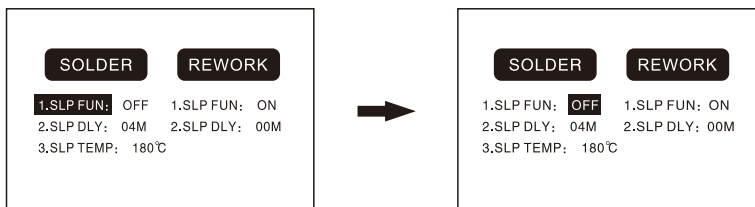
Set temperature is 350°C, but actual temperature is 345°C, then add 5°C as above step;

Set temperature is 350°C, but actual temperature is 355°C, then minus -5°C as above step;

(Setting range: -50~80°C/-90~144°F)

2.5. Sleep settings

Use the ↑ ↓ key to switch the 1--3 options, press the ← key to exit the current menu interface, (or when the cursor is at the first item "1. Sleep function" or the last item "3. Sleep temperature", press ↑ or ↓ again to exit the current menu) Press * or → to enter to modify the setting value of the corresponding option:



Press ↑ to increase the value by one, press ↓ to decrease the value by one, press ← to decrease the value by ten, and press → to increase the value by ten. Press * to save the current value and return to the menu item selection state.

Soldering station: when the dormancy is turned on, the handle is placed on the soldering iron stand without shaking, the system automatically counts, and automatically sleeps after the set time, the dormant temperature is 180 °C and the screen parameter displays "---".

Air gun: when the dormancy is on, place the air gun handle correctly on the bracket, the system will start the dormancy countdown, and automatically enter the large air volume cooling after the time is reached, the dormant temperature 100 °C , screen displays "---".

To wake up the hibernation, remove the air gun handle from the bracket, and the system will immediately enter the working state.

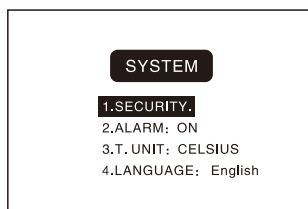
Soldering station sleep delay: 01~60M(minute);

Air gun sleep delay: 00~60M(minute);

Sleep temperature: 0~250°C、0~482°F;

2.6.System settings

Use the ↑ ↓ key to switch the 1--4 options, press the ← key to exit the current menu interface, (or when the cursor is at the first item "1. Password setting" or the last item "4. System language", press ↑ or ↓ again to exit the current menu) Press * or → to enter to modify the setting value of the corresponding option:



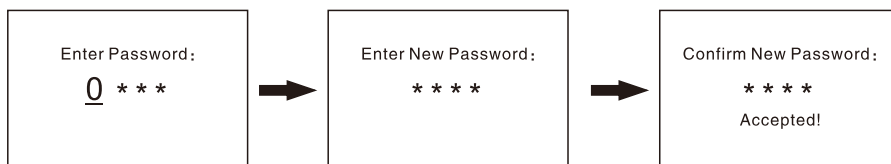
Press ↑ to increase the value by one, press ↓ to decrease the value by one, press ← to decrease the value by ten, and press → to increase the value by ten. Press * to save the current value and return to the menu item selection state.

1. Password setting range: 0000~9999;
2. Optional alarm sound: OFF/ON;
3. Optional temperature unit: Celsius/Fahrenheit;
4. Optional system language: Chinese / English.

2.6.1. Password setting

Factory default no password, no password is (0000)

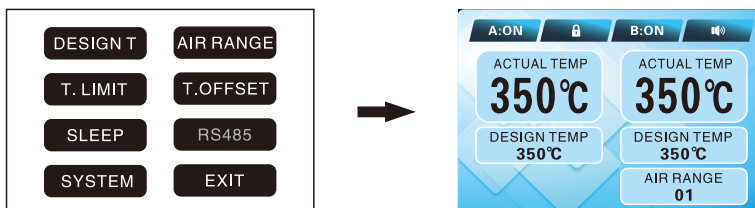
Press * to enter to modify the password:



How to clear the forgotten password?

When the host is off, press and hold the "left* key" and "right* key" at the same time, then turn on the switch and display "PASSWORD CLEARED!" and let go to clear the password.

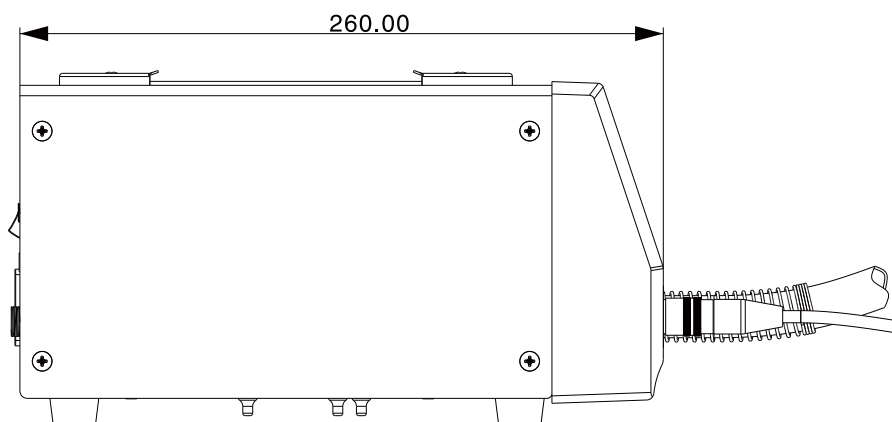
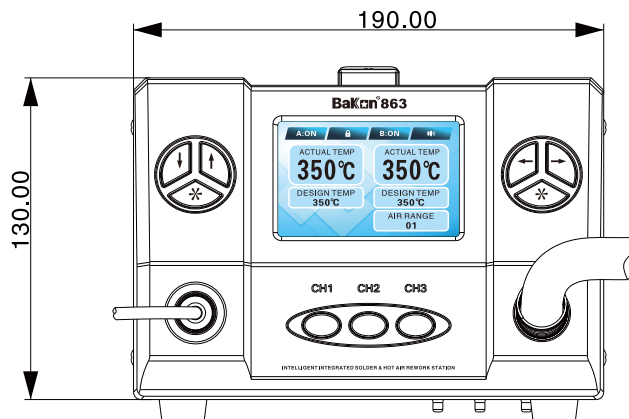
2.7. Exit



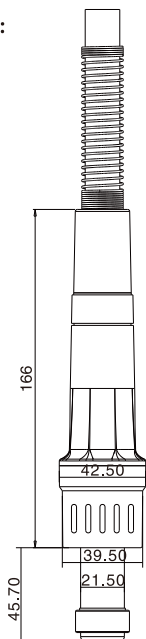
Product Size

The three host sizes are the same, taking the comprehensive model as an example

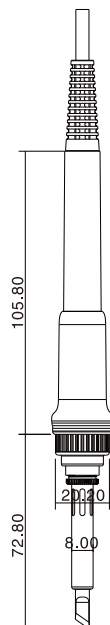
Host:



Hot air gun:



**Soldering
iron handle:**



Hot air gun device and replacement

1. Installation and disassemble the nozzle

- I . Installation: Insert the selected air nozzle into the air outlet steel pipe of the handle, and then press the air nozzle into the air outlet steel pipe by hand. After pressing in, you will hear the sound of the air nozzle jamming. It can be used only after confirming that the nozzle has been clamped tightly.
- II . Disassembly: When disassembling the nozzle, remove the air gun handle from the handle frame. There is a slot between the air nozzle and the air outlet steel pipe. The handle is placed on the nozzle removal plate (fixed to the bottom of the handle frame) through the card slot, and the handle frame is fixed with one hand, and then the handle can be taken out by gently pulling the handle back.

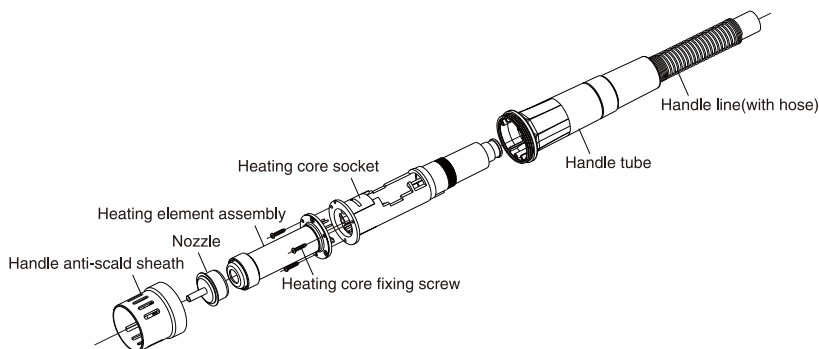
Note: The nozzle can be customized.

Wait for the nozzle to cool before replacing it to avoid burns.

2. Replace heating element

Note: The replacement heating element should be replaced after it has cooled.

- I . Loosen the handle anti-scald sheath on the handle of the air gun, and remove it from the handle.
- II . Unscrew the three screws fixing the steel pipe (with heating element assembly inside), and then pull out the steel pipe.
- III . Replace with a new heating element assembly (steel tube and heating core are integrated structure design).
- IV . When replacing and installing a new heating element assembly, it should be noted that the heating core pin is aligned with the heating core pin socket, and the sensor pin is aligned with the sensor pin socket.



Soldering iron maintenance

To ensure the normal operation of the soldering station, please pay attention to the following suggestions. (If the soldering station or the handle has some factors that cause the function to operate abnormally, please contact the nearest service office for service support).

1. General cleanup

- The handle of the soldering iron or the shell of the host can be cleaned with a cloth dipped in a small amount of liquid detergent.
- Do not immerse the host in fluids or allow liquids to flow into the enclosure.
- Do not use any solvents to clean the case.

2. Brand new soldering iron tip

- To replace the soldering iron tip, please use our 600 series soldering iron tip.
- When using a brand new soldering iron tip at any time, please follow the steps below to greatly extend the service life of the soldering iron tip.

- 1) Turn on the power switch, set the temperature to 200°C, and add solder wire containing flux to the soldering iron tip.
- 2) After the temperature is 200°C for last two minutes, set the temperature to the appropriate temperature.

⚠ Note: When using a brand new soldering iron tip at any time, it is better to take out the soldering iron tip and clean the internal foreign objects every day!

3. Maintenance of the soldering iron tip

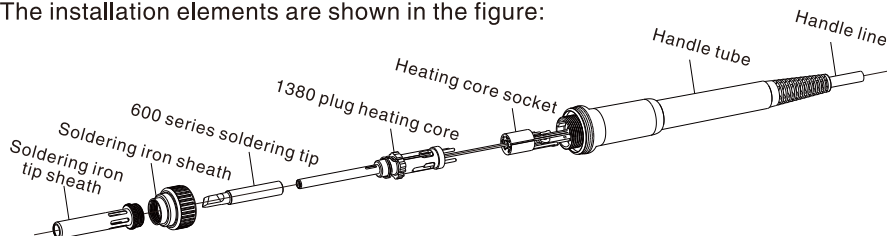
The soldering iron tips supplied are all alloy tips, if used properly, they will have a longer service life

- Be sure to add proper tin to the soldering surface of the soldering iron before shutting down, and only wipe it before soldering.
- Do not let the soldering iron tip stay at too high temperature for a long time, it is easy to crack the plating layer on the surface of the soldering iron tip.
- When soldering, do not rub the soldering point with too much pressure on the soldering iron tip. it will not change the thermal conductivity, but will damage the soldering iron tip.
- Never use rough materials or a frustrated knife to clean the soldering iron tip.
- If the surface has been oxidized and does not stick to poplar, just rub it carefully with a 600-800 mesh gold-steel emery cloth and clean it with propanol or equivalent solution. Heat to 200°C and immediately stick tin to prevent high temperature oxidation.
- Do not use flux containing chlorine or excessive acid, only use synthetic resin

⚠ Note: Take out the tip of the soldering iron at least once a week and remove foreign objects in the sleeve.

4. Replacement and treatment of soldering iron tip

The tip of the soldering iron can be loosened and removed for replacement. The power of the soldering station must be turned off, and the tip can be removed after it has cooled to room temperature to remove the oxide dust formed in the socket fixing place. Care must be taken to prevent this dust from entering eyes. Replace the soldering iron tip and lock the sleeve with normal hand strength. The installation elements are shown in the figure:



⚠ Note: Be careful not to lock it too tightly, otherwise it will damage the heating element.

5. After-sales service

If the soldering iron or soldering station fails or is not used properly due to unknown reasons, it should be returned to the original factory or agent for professional repair.

6. Temperature adjustment

- 1) The temperature of the soldering iron needs to be calibrated regularly. In addition, due to the different types of soldering iron tips, the temperature is also different, and the temperature needs to be corrected.
- 2) Adjust it in the second item of the menu, soldering iron compensation temperature.

Main interface

Button	Features
↑ key	Wind speed plus one
↓ key	Wind speed reduced by one
Left*	Press and hold for 1 second to stand by/boot up, Quick Press 1 time to switch temperature and wind speed adjustment, rapid press 2 times to enter the setup menu
←key	Temperature minus one
→key	Temperature plus one
Right*	Long press for 1 second to standby/boot up, Quick Press 1 time to switch temperature and wind speed adjustment, rapid press 2 times to enter the setup menu
CH1	Recall preset value 1
CH2	Recall preset value 2
CH3	Recall preset value 3

Setting menu interface

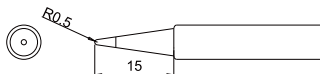
Button	Features
↑ key	Cursor moves up; the value plus one
↓ key	Cursor moves down; the value minus one
Left*	Short press 1 time to confirm
←key	Move the cursor to the left; the value minus ten
→key	Move the cursor to the right; the value plus ten
Right*	Short press 1 time to confirm

Error code

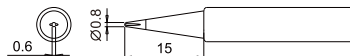
S-E	Sensor open circuit abnormal
H-E	Abnormal heating or heating core overheating
F-E	Fan abnormal

600 series soldering tip

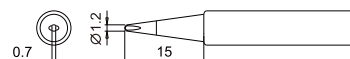
600-B



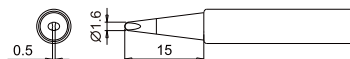
600-0.8D



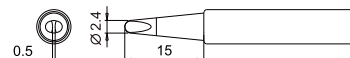
600-1.2D



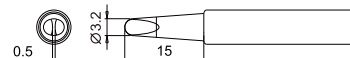
600-1.6D



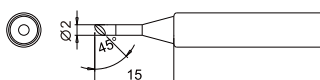
600-2.4D



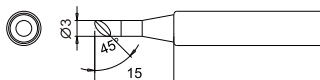
600-3.2D



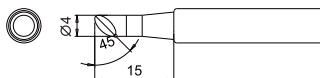
600-2C



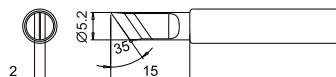
600-3C



600-4C



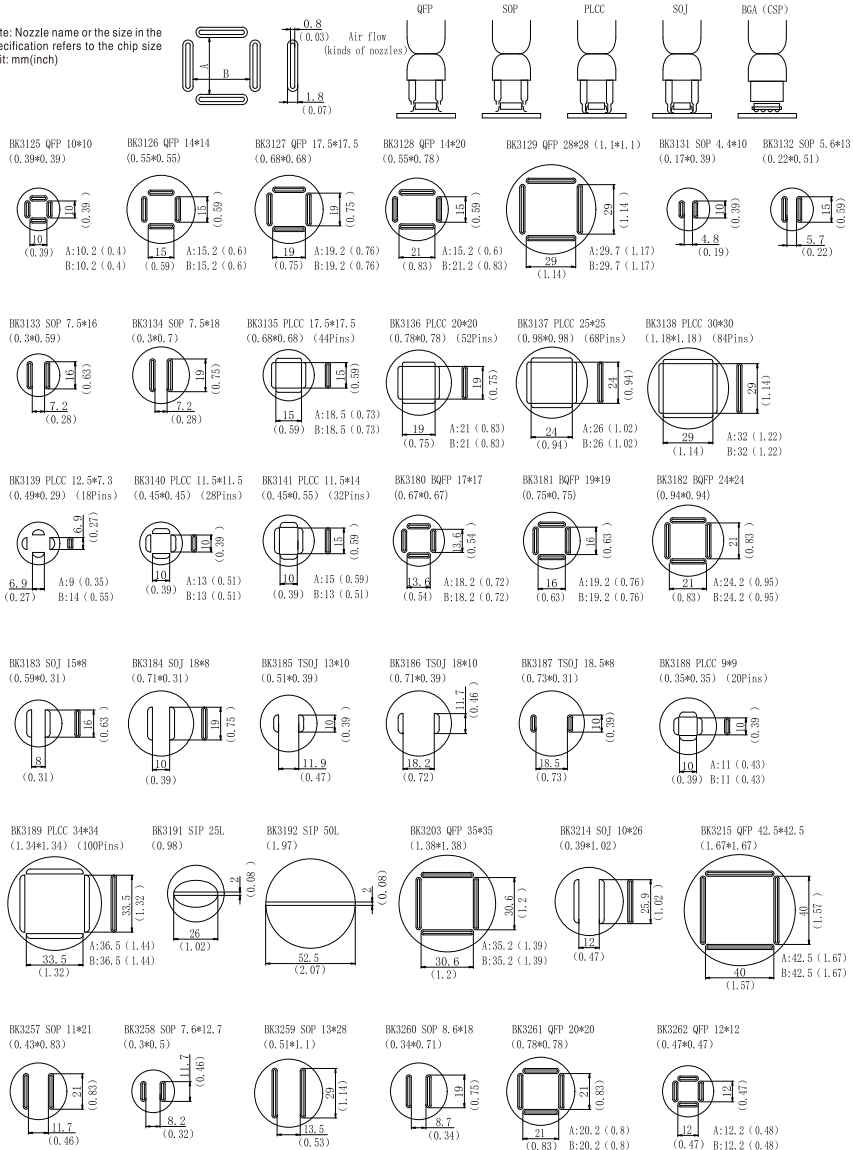
600-K

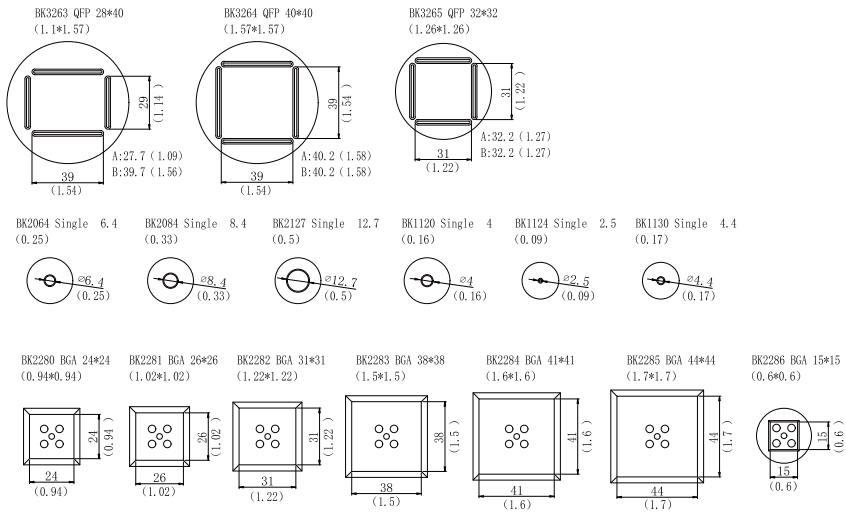


Nozzle selection

In-line nozzle specifications and dimensions

Note: Nozzle name or the size in the specification refers to the chip size
Unit: mm(inch)





Attention:

This soldering station uses plug-in heating cores, which are easy to replace. The quality of heating cores and soldering iron tips directly affect the reheating performance and reliability of the soldering station. In order to ensure good performance of the soldering station, please select the original matching heating core and Soldering iron tip, thank you!

Repair Warranty (Principle)

Model: _____ Date of Production: _____
Customer: _____ Date of Purchase: _____
Product No: _____ Issued by: _____

From the date of purchasing, we provide _____ months repair warranty

After Sale Suggestion (Subordinate)

Customer: _____
Delivery Date: _____ Tel: _____
Address: _____

Distributor: _____
Invoice NO: _____ Invoice Date: _____
Product Model: _____ Product NO: _____

Warranty Terms:

- 1.The table for feedback from customers should be returned to our company within a month after the date of purchase.In this way,customers may enjoy one-month repair warranty.
- 2.Repair Warranty and Purchase Certificate should be presented.The warranty only applies when all the required documents are available.
- 3.The warranty does not apply when the equipment has received damage through abuse, carelessness,improper installation,accident or mishandling during shipment,connecting to improper line voltage,or has been serviced by anyone other than an authorized factory representative.
- 4.After the warranty period,we are ready to provide charged repair service,perfect as always.

Dear Sir / Madam :

Thank you for purchasing our products.To improve our service and ensure the proper use of our products,please kindly write down your suggestions.

Name of Product: _____

Date of Purchase: _____

Your Suggestions: _____

Package: _____

Functions: _____

Others: _____

Date: _____

Bakon®

GUARANTEE CARD

The product conforms to the technical standards

Q C .



SHENZHEN BAKON ELECTRONIC TECHNOLOGY CO.,LTD.

Warranty card

The warranty is valid in one year since the purchase of this ,any quality problem found,please send back to us with courier fee to be collected,upon receipt of the returning unit,we will repair it and send back to customer within two working days.

Notice:Please enclose the warranty card along with the returning product, or else we have the right to reject the repairing,thanks for your corporation.



SHENZHEN BAKON ELECTRONIC TECHNOLOGY CO.,LTD.

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