

Products

Desoldering / Rework/SMD rework system /Jig

HAKKO **FR-810B** **ESD SAFE**
SMD REWORK STATION



670W high power and large volume hot air improves work efficiency.

Vacuum pick up function for easy and safe removal of components.

Possible to make a simple thermal profile by Chain Presets function

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Features

High power and large air volume
Further evolution of SMD rework station

High power and large volume hot air for quick removal of components

A tool that can provide powerful hot airflow for repairing high heat capacity circuit boards that require high blow volume and high output, and sufficient hot airflow for appropriate blow volume and high output for high-density mounting substrates.

Hottest
in hot air series

Temperature range

50 to 600 °C

5 times
maximum airflow *1

Air flow

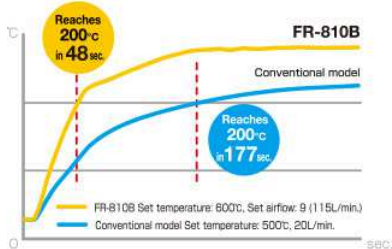
5 to 115 *2 L/min.

*1 Compared to HAKKO previous model

*2 Varies depending to nozzle shape

Efficiency improvement

The high volume airflow and high output of FR-810B make it possible to perform the same work in only one-third of the time required when using a conventional model. This reduces the thermal impact on boards and components.



* Examination of time taken for connector sections soldered onto a ceramic board to be heated to 200°C with maximum temperature and airflow settings selected.

* Single nozzles with an approximately 4mm diameter were used.

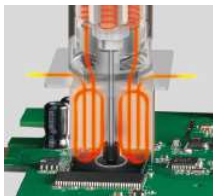
Improvements of FR-810B

On top of the features of FR-810, high power and large air volume, the new functions of vacuum pickup and pickup indicator have been given to FR-810B.

The 2 new functions make it possible to remove a component without damaging PWB.

• New type of nozzles for improvement of temperature characteristics

The new nozzle improves work efficiency with uniform heating by hot air convection inside the nozzle which is created due to vents on the nozzle top. (Only with BGA nozzle)



• Vacuum pickup function

The vacuum pickup function is to pick up a component with a suction pad and vacuum. It will pick a component only after the hot air melts solder joints.

This can avoid an error to peel off the land by removing a component with excessive force.



• Pickup indicator

By pre-setting pickup function, a component can be picked up automatically when solder is melted. At the same time, the indication comes up and the moment of picking up will be visible. Even a component and solder joints can not be seen as covered by a nozzle, easy and safe picking up is possible.



Use conventional HAKKO nozzles

Align the projection part, attach the conventional nozzle to the heater pipe.



*The heater pipe of HAKKO FR-810 (discontinued) has two projection parts. In order to use the conventional nozzle, put the conversion adaptor on the heater pipe that was included in your purchased HAKKO FR-810 as one of standard accessories.

[Click here](#) for details.

Simple nozzle removal and easy maintenance

Nozzles can be quickly changed for many different types of components.

In addition, conventional nozzles are compatible. Heaters can also be easily and securely replaced.

Quick-change N51 nozzles



Simple, tool-free removal and attachment.

Simple heater replacement



Simply remove four screws to replace heater.

Timer function

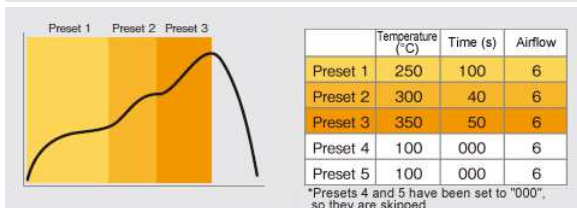
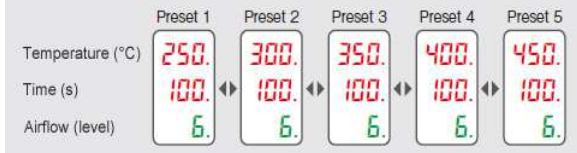
Timer function is to control the time of operation.

This can help to prevent parts from overheating and can improve the overall quality of rework.

Chain presets function for making a simple thermal profile

The chain presets function is to make a simple thermal profile by combining several preset conditions.

(Up to 5 steps) This can improve work efficiency a lot by standardizing work time, avoiding overheating, improving repeatability of operation, and making difficult rework jobs easy.



Auto sleep and auto shutoff features

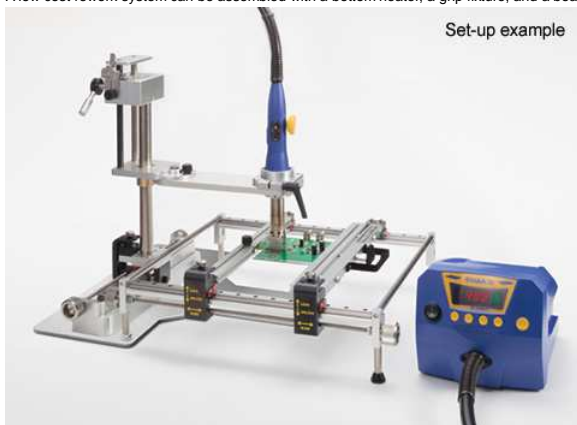
To ensure safety and conserve power, when the handpiece is placed in the handpiece holder, the auto sleep function will be activated and it will start cooling automatically.

If the handpiece has not been removed from the handpiece holder (e.g. Using it in a rework fixture) and it has been idle for 30 minutes, auto shutoff function will be activated. It will be automatically powered off.

Access to settings can be restricted by the password function.

With the use of Grip fixture, Board holder and Bottom heater, work conditions can be controlled even more strictly.

A low cost rework system can be assembled with a bottom heater, a grip fixture, and a board holder.





Grip Fixture M

Recommended if a bottom heater is not required or in case of use of a bottom heater other than the dedicated model for FR-811.



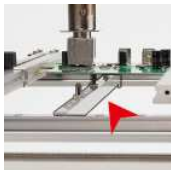
Board Holder

Makes it easy to set and remove a PWB and to make fine adjustments after setting.



Board Clip

Accepts even irregular-shaped PWB.



Board Support Unit

Supports PWB from underneath to minimize warping.