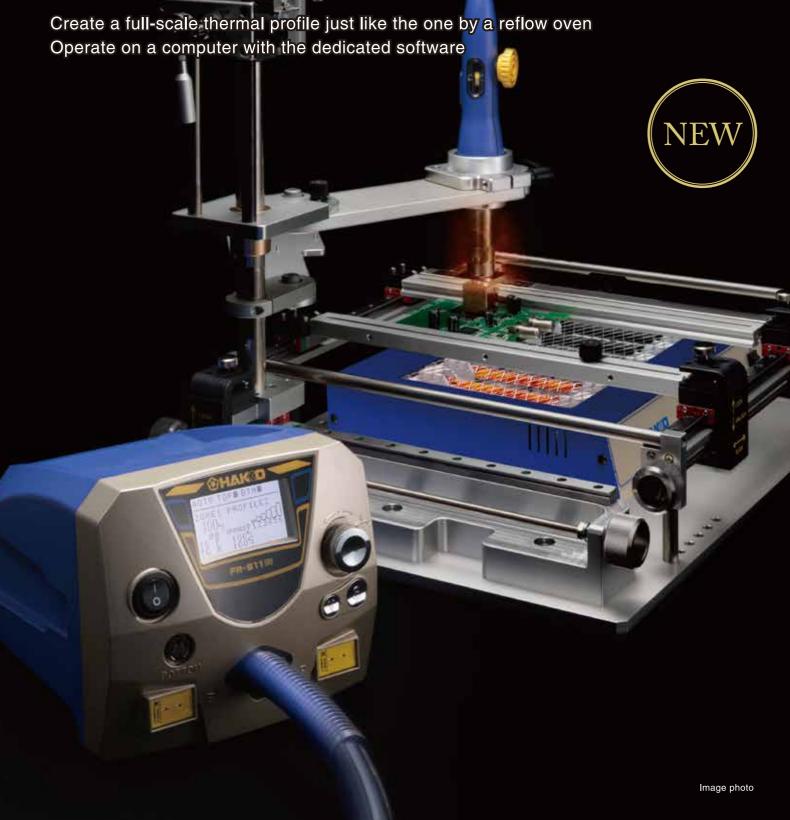


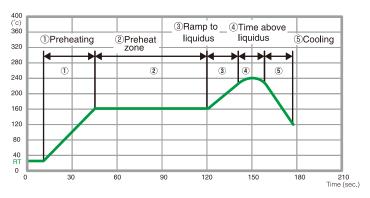
HAKCOFR-871 ESD SAFE

Introducing a high-spec hot air rework station with excellent cost performance



The functions needed for SMD rework are in a compact body

A low cost SMD rework can be assembled with FR-811, dedicated software and options.



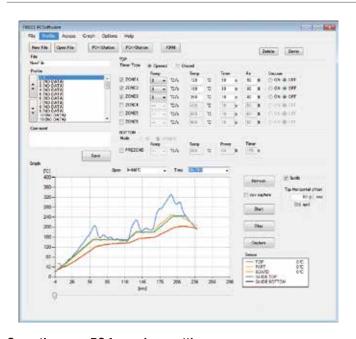
Possible to make full-scale thermal profiles with 6-zone hot air and a bottom heater.

A basic thermal profile is composed of the 5 parts shown above. FR-811 can provide 6 zones in which temperature, time, and air flow are controlled. Therefore FR-811 can make a full-scale thermal profile which is close to reflow profiles made by a reflow oven.



Record thermal data

By connecting a thermocouple included with the FR-811, the temperature of the component or circuit board can be measured and recorded. In addition, if "TC LINK" is set, the heater output can be automatically controlled so that the temperature of the thermocouple attached to the component or circuit board follows the set profile.



HANCID

Linked operation with bottom heater

FR-811 can control on/off timing and output of the bottom heater, which is available optionally.

Operation on a PC for various settings

By connecting FR-811 and a computer with a USB cable and using the dedicated software which comes as standard, a set thermal profile and actual temperature change can be shown in a graph in real time. Also, change of thermal profile and fine adjustment in a profile can be made on a computer operation. (After making changes, it is necessary to resend the data to FR-811.)

In addition, the set values and graph can be saved in csv format.

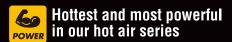
Part names





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.



Temperature range: 50 to 600 °C



Turbo fan for large volume air flow

Air 5 times 5 L/min. to

to 115 L/min

* 1 Varies depending on nozzle shape



Interface designed for intuitive operation. Possible to link to a PC.



Easy-to-read LCD

Equipped with a high-visibility LCD to make it easy to check the various product settings or operation status. Indications are displayed using graphics as well as letters and numbers so information can be checked intuitively.



Easy-to-operate multi-direction control knob

The multi-direction control knob makes it easy to make and change settings shown in the LCD.

There are several ways of knob movements, dialing, pressing, and tilting up and down and left to right for quick operation.



Link to a PC (A USB I/F terminal available)

A USB I/F terminal is available to link to a computer.

The dedicated software, which can display and record various settings or temperature data on a computer screen in real time, is included.



A USB device terminal for easy data transfer

Data can be transfered through a USB memory even without a computer.

New user friendly functions for SMD rework

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.



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.



New type of nozzles for improving temperature characteristics

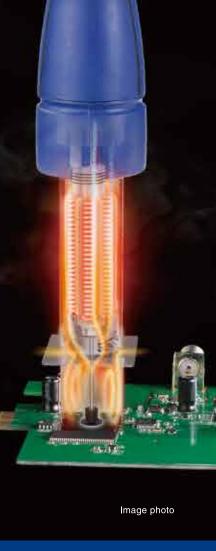
The new nozzles improve work efficiency with uniform heating by hot air convection inside the nozzle which is created due to vents on the nozzle top. (Only with BGA nozzles)



One-touch nozzle replacement

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.





Assembly of a low-cost SMD rework system

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



Options



Grip Fixture L A board holder can be easily attached to the large baseplate.



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.



for FR-811 Equipped with carbon heaters. Heating area is divided into 2 sections.



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



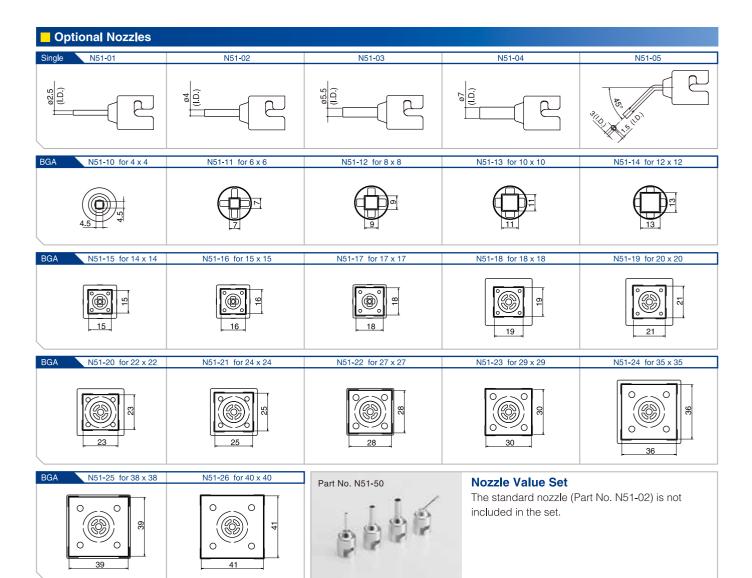
Accepts even irregular-shaped PWB.





Board Support Supports PWB from underneath to minimize its warping.





FR-811

Packing List



Station with handpiece, Grip stand assembly, Vacuum pipe control knob L (with screw), Pads (qty 2 each of Ø3 mm, Ø5 mm, Ø7.6 mm), USB cable, Software (CD-ROM), Thermocouple, Heat resistant pad, Power cord, Temperature distribution chart, Instruction manual

Specifications

Power consumption	700 W (100 V), 840 W (110 V), 820 W (120 V), 1100 W (220 V), 1200 W (230 V), 1300 W (240 V)
Temperatur range	50 to 600°C
Station	
Power consumption	30 W
Air flow	001-100% (5 to 115 L/min.)
Dimensions	160 (W) × 145 (H) × 220 (D) mm
Weight	1.5 kg
Handpiece	
Power consumption	670 W (100 V), 810 W (110 V), 790 W (120 V), 1070 W (220 V), 1170 W (230 V), 1270 W (240 V)
Total length	250 mm
Weight	180 g

700 \\ (100 \) \ 040 \\ (110 \) \ 000 \\ (100 \)

- * Total length and weight exclude cord.
- * Airflow values shown above are only as reference. Airflow range may vary depending on nozzles.

HAKKO CORPORATION OVERSEAS AFFILIATES

Z8920 AVENUE WILLIAMS VALENCIA, CA 91355, U.S.A. TEL: (661) 294-0090 FAX: (661) 294-0096 Toll Free (800)88-HAKKO

U.S.A. AMERICAN HAKKO PRODUCTS, INC.

http://www.hakkousa.com

HEAD OFFICE

4-5, SHIOKUSA 2-CHOME, NANIWA-KU, OSAKA, 556-0024 JAPAN TEL:+81-6-6561-3225 FAX:+81-6-6561-8466 http://www.hakko.com E-mail:sales@hakko.com

HONG KONG HAKKO DEVELOPMENT CO., LTD. ROOM 1504, EASTERN HARBOUR CENTRE, 28 HOI CHAK STREET, QUARRY BAY, HONG KONG. TEL: 2811-5588 FAX: 2590-0217 http://www.hakko.com.hk E-mail:info@hakko.com.hk

Please access to the following for the other sales affiliates and distributors. http://www.hakko.com



ELECTRONICS LTD

CA00488EaYa001 2016.6

sales@synergyelectronics.co.nz www.synergyelectronics.co.nz Ph 0800 347 045

Specifications and design are subject to change without notice. Copyright HAKKO Corporation. All right reserved.