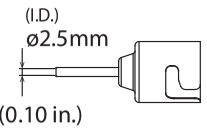
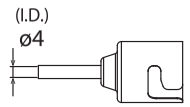
Optional Nozzles

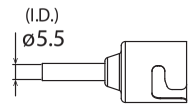
N51-01



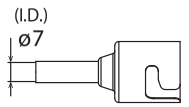
N51-02



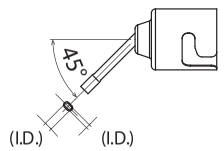
N51-03



N51-04



N51-05



FR-810

Packing List

HAKKO FR-810 Hot Air

HAKKO FR-810 station, handpiece holder, FP pick-up (with pick-up wire SS), heat resistant pad, power cord, instruction manual

Specifications

Power consumption	820W (120VAC)
Temperature range	50 - 600°C (120 - 1120°F)

Station

Power consumption	30 W
Airflow setting range**	1 to 9 (5 to 115L/min.)
Dimensions	160 (W) × 145 (H) × 220 (D) mm (6.3 x 5.7 x 8.7 in.)
Weight	1.5 kg (3.3 lb.)

Handpiece

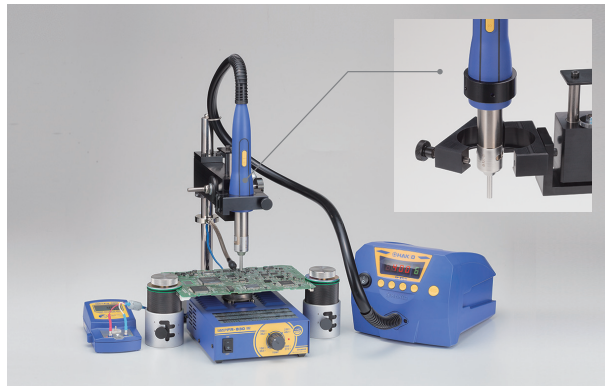
Power consumption	790W (120V)
Nozzles	N51 Series
Total length*	250 mm (9.8 in.)
Weight*	180 g (0.40 lb.)

*Total length and weight does not include cord.
**Values for airflow are approximate. Actual volume of airflow may be affected by the size and shape of the nozzle used.

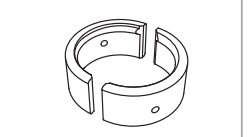
Accessories

Part No.	Part name
B5058	Conversion adapter

Fixture adapter

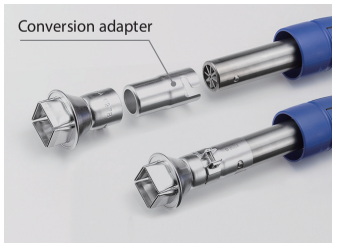


B5059



When using the FR-810 handpiece with the rework fixture (P/N: C1392B) attach the fixture adapter P/N: B5059 (option).

Conversion adapter



When using the FR-810 with a conventional nozzle, attach the conversion adapter No.B5058 (option).

Rev. 2014.10

HAKKO

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www.HakkoUSA.com

HAKKO FR-810 ESD SAFE
SMD REWORK STATION

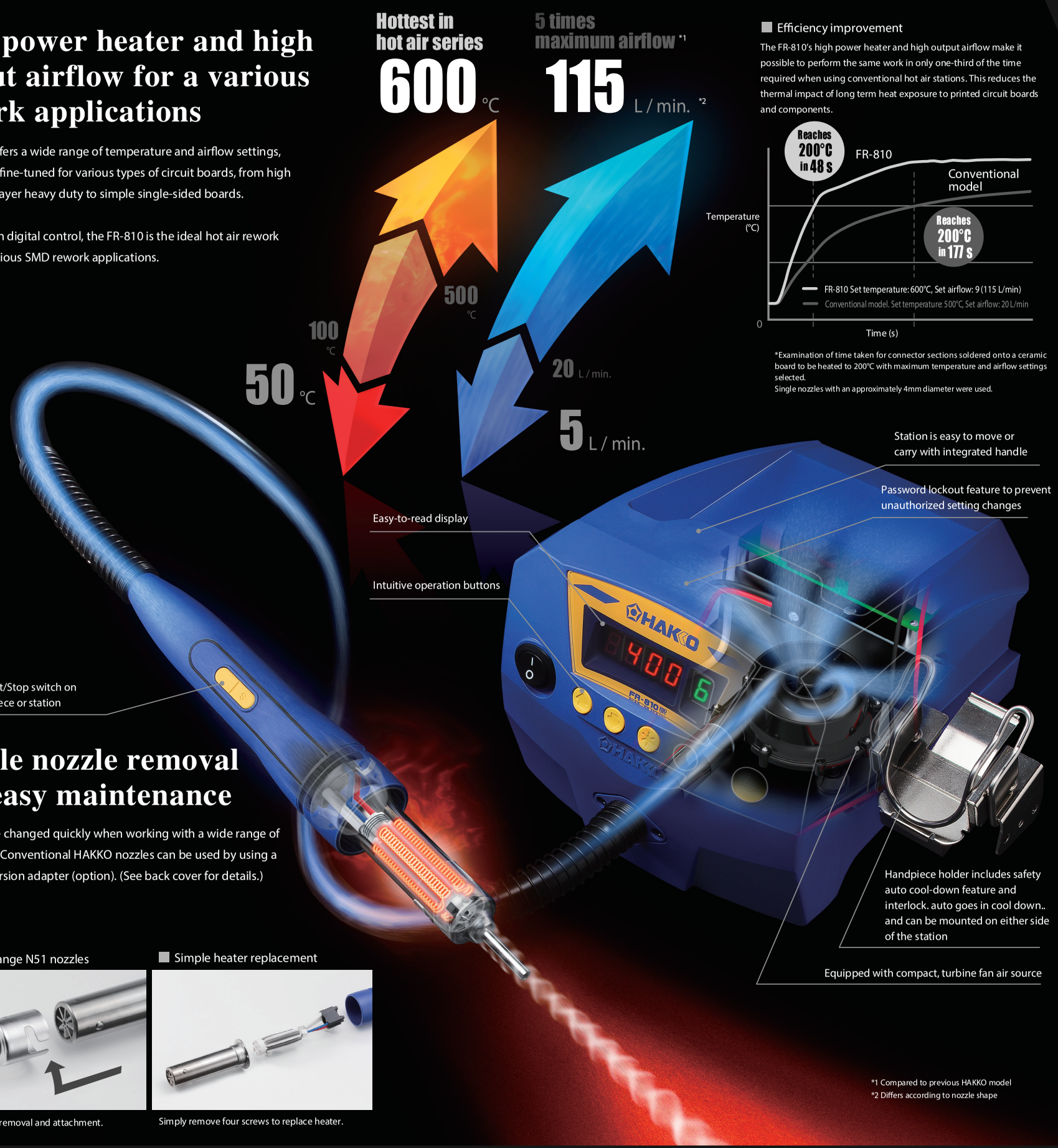
Digital SMD Hot Air Rework Station

Self-Contained Turbine Fan Air Source

High power heater and high output airflow for a various rework applications

The FR-810 offers a wide range of temperature and airflow settings, which can be fine-tuned for various types of circuit boards, from high density multilayer heavy duty to simple single-sided boards.

Together, with digital control, the FR-810 is the ideal hot air rework station for various SMD rework applications.



*1 Compared to previous HAKKO model
*2 Differs according to nozzle shape

Efficiency improvement

The FR-810's high power heater and high output airflow make it possible to perform the same work in only one-third of the time required when using conventional hot air stations. This reduces the thermal impact of long term heat exposure to printed circuit 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.

Simple nozzle removal and easy maintenance

Nozzle can be changed quickly when working with a wide range of components. Conventional HAKKO nozzles can be used by using a special conversion adapter (option). (See back cover for details.)

Quick-change N51 nozzles

Simple, tool-free removal and attachment.

Simple heater replacement

Simply remove four screws to replace heater.

HAKKO FR-810 ESD SAFE
SMD REWORK STATION

Full digital control of temperature, airflow, and time

timer Timer function

A new timer function allows for repeatably consistent work times. This can help to prevent parts from overheating and can improve the overall quality of your work.

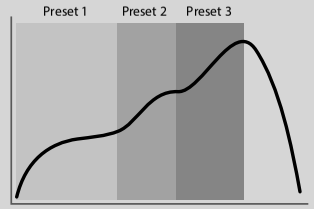
Preset Preset mode

Preset mode allows you to change the settings easily to suit a variety of boards and workpieces. (You can program temperature, time and airflow settings for up to five presets)
Simply switch to the desired setting for variety of jobs.

	Preset 1	Preset 2	Preset 3	Preset 4	Preset 5
Temperature (°C)	250	300	350	400	450
Time (s)	100	80	50	120	150
Airflow (level)	6	7	8	4	5

Chain Presets function

The Chain Presets function allows you to create a simple temperature profile by combining settings registered in preset mode. (Up to five steps can be created). It also supports sophisticated removal work, and significantly improves efficiency.



	Temperature (°C)	Time (s)	Airflow
Preset 1	250	100	6
Preset 2	300	40	6
Preset 3	350	50	6
Preset 4	100	000	6
Preset 5	100	000	6

*Presets 4 and 5 have been set to "000", so they are skipped.

sleep off Auto sleep and auto shutoff safety features

To ensure safety and conserve power, when the handpiece is placed in the handpiece holder, the auto sleep function is activated and the handpiece starts cooling automatically.
If the handpiece has not been removed from the handpiece holder or it is being used in a rework fixture, and it has been idle for 30 minutes, the auto shutoff function is activated and the unit is automatically powered off.