HAKKO FR-801·FR-802·FR-803B ESD SAFE

LEAD FREE ESD SAFE

For lead-free soldering with sufficiently high power HAKKO hot air lineup allows easier thermal control.

HAKKO FR-801 ESD SAFE — Analog

The air outlet is provided with new mechanism to reduce the temperature irregularity in hot air.

- The air outlet is provided with a new mechanism to reduce the temperature irregularity. Supplies hot air at a stable temperature.
- Comes with an airflow meter to allow more accurate and easier control of flow rate.

New mechanism to reduce temperature irregularity

HAKKO FR-802 ESD SAFE — Digital display

The digital thermal display allows easier temperature control.

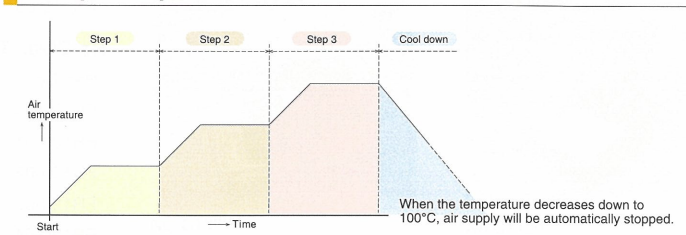
- Comes with the offset function to compensate for difference of air outlet temperatures depending on the nozzle size.
- The power saving function (30 min./60 min./∞ can be selected) will automatically stop the hot airflow after a specific time pases.
- Comes with the auto cool-down function. If the power is turned off and then continues to supply air until the temperature in the nozzle pipe decreases down to 100°C to protect the heating element.
- Card lock function to lock the setting details.

HAKKO FR-803B ESD SAFE — Digital display with 50 memories/ 3 steps temperature profile

Preheating, main heating and cooling down 50 memories/3 steps temperature profile can be set.

- For more effective rework operation, it can be interfaced to the HAKKO FR-820.
- The heating conditions can be recreated due to the sensor feedback temperature control. 50 memories/3 steps temperature profile can be set, allowing easier control for temperature, flow rate and time. Highly accurate job can be standardized.
- The power saving function (30 min/60 min/∞ can be selected) will automatically stop the hot airflow after a specific time passes.
- Comes with an offset function.

3 steps Temperature Profile



3-step 'temperature and time' are pre-programmed.
Sensor feedback temperature control is adopted.

Performance comparison table

		FR-801	FR-802	FR-803B
Basic Ability	●The air outlet is provided with new mechanism. ●Comes with an airflow meter. ●Space-saving design ●ESD safe by design	○	○	○
Digital Function	●Offset function ●Auto cool-down function ●Power-saving design ●Card-lock function		○	○
Ideal Function	●3-step temperature profile can be set. ●Comes with a vacuum pipe.			○

Specifications

Model No.	FR-801	FR-802	FR-803B
Power Consumption	100V-310W, 110V-360W, 120V-430W, 220V-570W, 230V-630W, 240V-680W		
Station			
Model No.	FR-801	FR-802	FR-803B
Power Consumption	30W (Stand-by power consumption 100-120V 4W, 220-240V 7W)	30W (Stand-by power consumption 100-120V 4W, 220-240V 4W)	
Capacity (Air blow)	5-20ℓ/min. (Max.)		
Temperature Range	100-500°C (Use A1130)	100-500°C (Sensor)	
Modes	–	–	Manual/Auto
Timer	–	–	50 memories/3 steps temperature profile
Dimensions	160(W) x 145(H) x 230(D)mm		
Weight (w/o cord)	4kg	4.3kg	5kg
Handpiece			
Power Consumption	100V-280W, 110V-330W, 120V-400W, 220V-540W, 230V-600W, 240V-650W		
Total Length (w/o hose)	185(L)mm	200(L)mm	
Weight (w/o hose)	115g	200g	

Packing List

Model Name	Contents
HAKKO FR-801	Station ····1 Handpiece ····1 Power cord ····1 Handpiece holder ····1 FP pick-up ····1 FP pick-up wire (S) ····1 FP pick-up wire (L) ····1
HAKKO FR-802	Station ····1 Handpiece ····1 Power cord ····1 Handpiece holder ····1 Control card ····1 FP pick-up ····1 FP pick-up wire (S) ····1 FP pick-up wire (L) ····1
HAKKO FR-803B	Station ····1 Handpiece ····1 Power cord ····1 Handpiece holder ····1 Control card ····1 Vacuum pipe control knob (L) ····1 Pad (ø3mm) ····2 Pad (ø5mm) ····2 Pad (ø7.6mm) ····2

* Nozzle is an optional part.

Optional Nozzles

Please refer to page 50, 51.

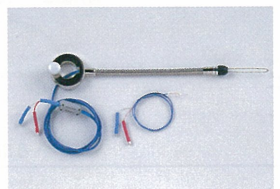
SMD-BGA Repair System

Combination of HAKKO FR-803B and FR-820 allows the SMD and BGA rework equipment to set up at a lower price.

* For further details, refer to page 52.

Temperature Probe

Part No.	Name/Description
C1541	Temperature probe for hot air



- For measuring the temperature of hot air.

* For further details, refer to page 37.