

FM series
HAKKO MODEL FM-202
SOLDERING STATION
ESD SAFE



A single station plays all roles of soldering, desoldering and SMD rework.

- Powerful thermal recovery.
- Easy thermal adjustment; Just inserting the tip into the process gate located on the left side of the front panel, automatically adjusts the accurate temperature setting.
- Auto power shut-off.
- Indicates by buzzer and/or display when various errors occur.
- ESD safe by design.

Soldering



HAKKO MODEL FM-2021
ESD SAFE

- Light weight grip provides fatigueless work even for extended jobs.
- New colored antibacterial sleeves can be replaced more easily than conventional ones.
- Three colored sleeves are provided. Using color classification for tip shape enables convenient work.

SMD Rework



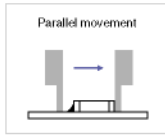
HAKKO MODEL FM-2022
HAKKO MODEL FM-2023
ESD SAFE

- Unique parallel movement of tips allows easy removal.
- Direct heating prevents damage to neighboring sensitive components comparing with hot air.

FM-2022:-
■ Can be used for chips and flat packages up to 25mm in size.



- FM-2023:-
- Standard or reverse tweezers action can be selected with a switch lever.
 - Equipped with a small ergonomic grip.



Desoldering



HAKKO MODEL FM-2024
ESD SAFE

- Small ergonomic style grip with light weight provides fatigueless work.
- New design with reduced distance between the nozzle end and filter pipe prevents clogging by sucked solder.
- Easy maintenance:-
Uses disposable paper filter pipes.
One-touch nozzle replacement.
- Detachable handle allows two-way use:-
gun type or straight type.
- Safe design:-
Equipped with a nozzle lock function.
Nozzles can be safely replaced with the nozzle remover.



*Desoldering Control Box (DCB) for MODEL FM-2024

*Before using the FM-2024 unit, connect to a compressor.

N₂ System



- Combination sample with the N₂ system
HAKKO MODEL FM-202, HAKKO FM-2026, HAKKO FX-780, HAKKO FX-791

*For further details, refer to page 14-15.

Specifications

MODEL FM-202	
Model No.	FM-202
Power Consumption	140W
Temperature Range	200-450°C
Temperature Accuracy	±10°C of set temperature
Temperature Stability	±5°C at idle temperature

Station	
Output Voltage	24V
Dimensions	119 (W) x 117 (H) x 178 (D) mm
Weight (w/o cord)	2.7kg

MODEL FM-2021	
Model No.	FM-2021
Power Consumption	AC 24V/70W
Tip to Ground Resistance	< 2
Tip to Ground Potential	< 2mV
Total Length (w/o cord)	188mm with 2.4D tip
Weight (w/o cord)	30g with 2.4D tip
Cord	1.2m

MODEL FM-2022 / MODEL FM-2023		
Model No.	FM-2022	FM-2023
Power Consumption	AC 24V/140W	
Temperature Range	200-400°C	
Tip to Ground Resistance	< 2	
Tip to Ground Potential	< 2mV	
Cord	1.2m	
Total Length (w/o cord & tip)	110mm	75mm
Weight (w/o cord)	64g with SOP 25L tip	37g with I tip

MODEL FM-2024	
Model No.	FM-2024
Power Consumption	AC 24V/70W
Temperature Range	350-450°C
Nozzle to Ground Potential	< 2mV
Nozzle to Ground Resistance	< 2
Total Length (w/o cord)	180mm
Weight (w/o cord & hose)	65g
Cord	1.2m

Desoldering Control Box	
Power Consumption	12W
Output Voltage	24V
Vacuum Generator	Ejector type
Vacuum Pressure (Max.)	93kPa (70mmHg)
Suction Flow	2.8ℓ/min.
Nozzle to Ground Potential	< 2mV
Applied Air Pressure	490kPa (5.0kgf/cm ²) when in use (Trigger or button is pressed.)
Compressed Air Consumption	1.62 c.f.m (46ℓ/min.)
Dimensions	119(W) x 45(H) x 172(D)mm

Packing List

Model Name	Contents
HAKKO MODEL FM-202	Station1
	Soldering iron (MODEL FM-2021)1
	Power cord1
	Iron holder with HAKKO 599B tip cleaner (No.FH100-01)1
	Control card1
	Tip tray1
	Heat resistant pad1 <small>*Tip is an optional part.</small>
HAKKO MODEL FM-2022	Parallel remover (MODEL FM-2022)1
	Holder clip1
	Heat resistant pad1
	Cleaning sponge1 <small>*Tips are optional parts.</small>
HAKKO MODEL FM-2023	Mini parallel remover (MODEL FM-2023)1
	Tips (T9-I2pcs of set)1
	Holder clip1
	Component bed1
	Tip ID number key1
HAKKO MODEL FM-2024	Heat resistant pad1
	Cleaning sponge1
	Desoldering tool (MODEL FM-2024)1
	Desoldering control box (DCB)1
	Iron holder assembly1
	Handle for gun configuration1
	Cleaning sponge1
Nozzle remover1	
Filter pipe assembly1	
Cleaning drill for heating element1 <small>*Nozzle is an optional part.</small>	

Replacement Tips and Nozzles

Please refer to page 8-9.

Replacement Parts

Part No.	Name/Description
B2765C	Sleeve assembly, yellow
B2768C	Sleeve assembly, orange
B2769C	Sleeve assembly, blue