

Desoldering tool for lead-free soldering

# HAKKO FM-204 ESD SAFE

\*Nozzle is an optional part.

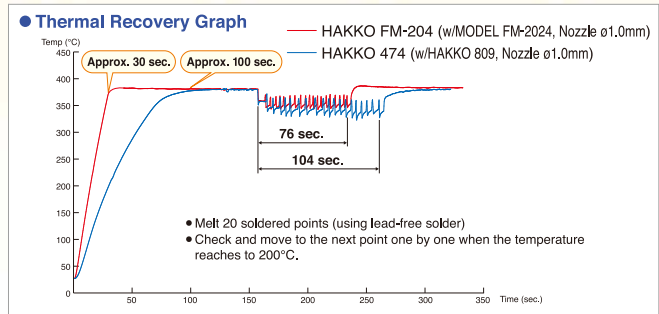


**Built-in pump**

## Easier to use!

### ■ Excellent thermal recovery

The integrated nozzle contains both heater and sensor to provide more powerful thermal recovery than conventional nozzles.



### ■ Easy maintenance

- Uses disposable paper filter pipes. Allows paper and solder to be disposed separately.
- Quick nozzle replacement. Nozzle can be replaced safely with the provided nozzle remover.

### ■ Safe design

Equipped with a nozzle lock function. Inserting a nozzle into the grip automatically locks it in place and prevents the nozzle cartridge from being pulled out suddenly.

### ■ No offset required

Temperature accuracy  $\pm 15^{\circ}\text{C}$  without offset.

### ■ Sleep function

After the iron is inserted into the iron holder, the sleep function activates after a user-settable time (0 to 29 min.) and the tip temperature will decrease to approximately 200°C.

### ■ Auto power shut-off function

After 30 minutes have elapsed after inserting the iron into the iron holder, the auto power shut-off function activates and stops to apply power to the heating element.

\*It is necessary to change unit settings before using sleep and auto power shut-off functions.

### ■ Selectable grip

Detachable handle allows two-way use: gun type or straight type.



When the gun grip is attached



When the gun grip is detached



Connect the FM-204 station and FH-200 iron holder using a connecting cable.

## Specifications

### ● HAKKO FM-204

Power Consumption	120W
Temperature Range	FM-204: 350 to 450°C, FM-2026/FM-2027: 200 to 450°C
Temperature stability	±5°C at idle temperature

### ● Station

Output voltage	AC 24 V
Vacuum Generator	Double cylinder type
Vacuum Pressure	Max. 80 kPa (600 mmHg)
Suction flow*	15 L/min.
Dimensions	160(W) x 120(H) x 225(D)mm
Weight	3.7kg

### ● Desoldering Tool

Power Consumption	70W (24V)
Nozzle to Ground Resistance	< 2Ω
Nozzle to Ground Potential	< 2mV
Heating element	Composite heater
Cord length	1.2 m
Total length**	180 mm (with ø1.0 mm nozzle)
Weight**	65 g (with ø1.0 mm nozzle)

\* Measured at the filter case suction port of the station.

\*\* Without cord and hose

## Increase your options

The FM-204 is a desoldering station as standard, but it can be operated with optional FM-2027 and FM-2026 soldering handpieces.

A single station plays multiple roles: soldering and desoldering.

### Soldering



HAKKO FM-2027

### N<sub>2</sub> System



\*For further details, refer to the N<sub>2</sub> system HAKKO web site.



## Packing List

Station, Iron holder, Ceramic paper filter (10 pcs), Cleaning drill for heating element, Filter pipe assembly (1 pc), Control card, Power cord, Connecting cable, Nozzle remover, Desoldering tool (FM-2024), Handle for gun configuration, Instruction manual

\*Nozzle is an optional part.

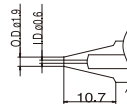
## Replacement and Optional Parts

Part No.	Name/Description
A1514	Ceramic paper filter (10 pcs)
A1512	Front holder
A1511	Filter pipe assembly (10 pcs)
B3253	Connecting cable
FM2027-03*	HAKKO FM-2027 Conversion kit [70W(24V)]
FM2026-06*	HAKKO FM-2026 Conversion kit [70W(24V)]

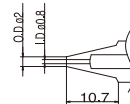
\* A sleep mode iron holder, connecting cable, heat resistant pad and 599B are included. Please refer to HAKKO web site for tip variation.

## Optional Nozzle

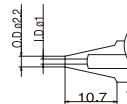
N3-06 Nozzle 0.6mm



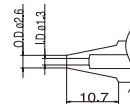
N3-08 Nozzle 0.8mm



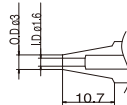
N3-10 Nozzle 1.0mm



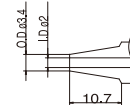
N3-13 Nozzle 1.3mm



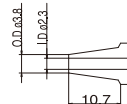
N3-16 Nozzle 1.6mm



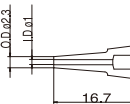
N3-20 Nozzle 2.0mm



N3-23 Nozzle 2.3mm



N3-L10 Nozzle 1.0mm Long



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