

Desoldering tool for lead-free soldering

# HAKKO FM-204 ESD SAFE



\*Nozzle is an optional part.

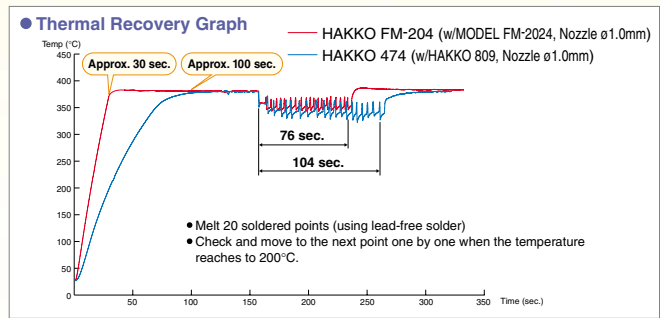


**Built-in pump**

## Easier to use!

### ■ Excellent thermal recovery

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



### ■ Easy maintenance

- Uses disposable paper filter pipes. Allows paper and solder to be disposed of 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.

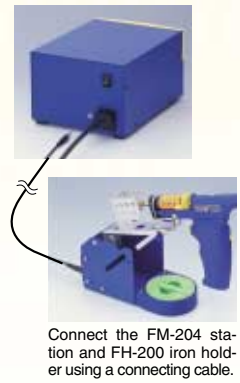
### ■ Selectable grip

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    | 200 to 450°C             |
| Temperature Accuracy | ±5°C at idle temperature |

### ● Station

|                        |                                   |
|------------------------|-----------------------------------|
| Output                 | 24V                               |
| Dimensions             | 160(W) x 120(H) x 225(D)mm        |
| Weight                 | 3.7kg                             |
| Vacuum Generator       | Vacuum pump, double cylinder type |
| Vacuum Pressure (Max.) | 80kPa (600mmHg)                   |
| Suction Flow           | 15L/min                           |

### ● MODEL FM-2024 Desoldering Tool

|                          |                        |
|--------------------------|------------------------|
| Power Consumption        | 70W (24V)              |
| Temperature Range        | 350 to 450°C           |
| Tip to Ground Resistance | < 2Ω                   |
| Tip to Ground Potential  | < 2mV                  |
| Total length (w/o Cord)  | 180mm with ø1.0 nozzle |
| Weight (w/o Cord & Hose) | 65g with ø1.0 nozzle   |
| Cord                     | 1.2m                   |

\*The temperature was measured using the HAKKO FG-101 thermometer.



## Packing List

|   |    |
|---|----|
| ① HAKKO FH-200 iron holder .....  | 1  |
| ② HAKKO 599 tip cleaner .....   | 1  |
| (①+②: No.FH200-05)  |    |
| ③ Cleaning drill .....  | 1  |
| ④ Ceramic paper filter .....  | 10 |
| ⑤ HAKKO FM-204 station .....  | 1  |
| ⑥ Control card .....  | 1  |
| ⑦ Connecting cable .....  | 1  |
| ⑧ Filter pipe assembly<br>(Originally equipped to the unit, but added one spare as shown in the photo.) ..... | 2  |
| ⑨ Model FM-2024 desoldering tool .....  | 1  |
| ⑩ Handle (for gun configuration) .....  | 1  |
| ⑪ Nozzle remover .....  | 1  |
| ⑫ Power cord (not shown is the photo) .....   | 1  |

\*Nozzle is an optional part.  
Specifications and design are subject to change without notice.  
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## 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



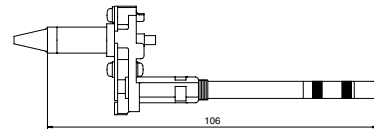
\*For further details, refer to the N<sub>2</sub> system brochure.

## Replacement and Optional Parts

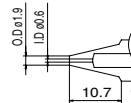
| Part No.   | Name/Description             |
|------------|------------------------------|
| A1514      | Ceramic paper filter/10pcs   |
| A1512      | Front holder                 |
| A1511      | Filter pipe assembly         |
| B3253      | Connecting cable             |
| FM2027-03* | HAKKO FM-2027 Conversion kit |
| FM2026-06* | HAKKO FM-2026 Conversion kit |

\*Iron holder (No.FH200-01) is included.

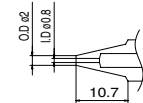
## Replacement Nozzle



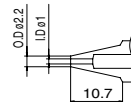
N3-06 Nozzle 0.6mm



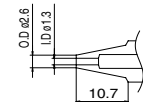
N3-08 Nozzle 0.8mm



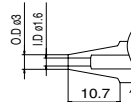
N3-10 Nozzle 1.0mm



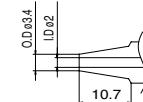
N3-13 Nozzle 1.3mm



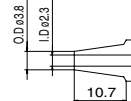
N3-16 Nozzle 1.6mm



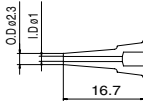
N3-20 Nozzle 2.0mm



N3-23 Nozzle 2.3mm



N3-L10 Nozzle 1.0mm Long



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