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.

- **Thermal Recovery Graph**
  - HAKKO FM-204 (HAKKO FM-204, Nozzle at 0.2mm)
  - HAKKO 474 (w/HAKKO 800, Nozzle at 0.2mm)

- **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 ±15°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
Specifications

- **HAKKO FM-204**
  - **Power Consumption:** 120W
  - **Temperature Range:** FM-2024: 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**¹**: 15 L/min.
  - **Dimensions:** 160(W) x 120(H) x 225(D) mm
  - **Weight:** 3.7kg

- **Desoldering Tool**
  - **Power Consumption:** 70W (24V)
  - **Nozzle to Solder Resistance:** < 2Ω
  - **Nozzle to Solder Potential:** < 2mV
  - **Heating element:** Composite heater
  - **Cord length:** 1.2 m
  - **Total length**²: 180 mm (with ø1.0 mm nozzle)
  - **Weight**²: 68 g (with ø1.0 mm nozzle)

  ¹ Measured at the filter case suction port of the station.
  ² 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**

**Desoldering**

Replacement and Optional Parts

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Name/Description</th>
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<tbody>
<tr>
<td>A1514</td>
<td>Ceramic paper filter (10 pcs)</td>
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<tr>
<td>A1512</td>
<td>Front holder</td>
</tr>
<tr>
<td>A1511</td>
<td>Filter pipe assembly (10 pcs)</td>
</tr>
<tr>
<td>B3253</td>
<td>Connecting cable</td>
</tr>
<tr>
<td>FM2027-03³</td>
<td>HAKKO FM-2027 Conversion kit (70W/24V)</td>
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<tr>
<td>FM2026-06⁴</td>
<td>HAKKO FM-2026 Conversion kit (70W/24V)</td>
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</tbody>
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³ 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

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.