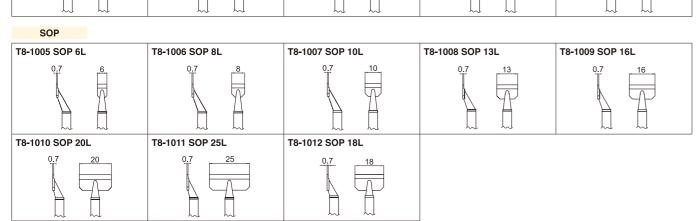
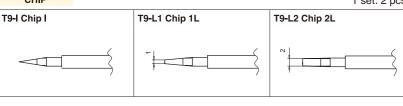
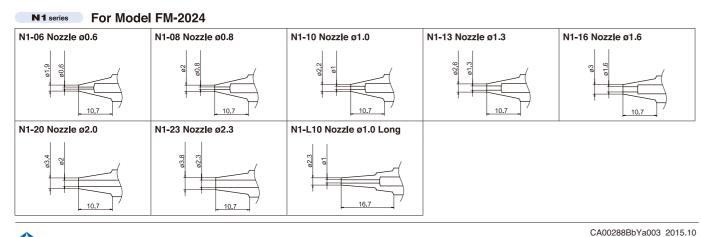
Replacement Tips and Nozzles

Unit: mm T30 series For Model FM-2032 T30-D06 Shape-0.6D T30-D1 Shape-1D T30-J Shape-J T30-KU Shape-KU T30-KN Shape-KN T8 series For Model FM-2022 *1 set: 2 pcs T8-1001 Chip 0.5I T8-1002 Chip 0.5C T8-1013 Chip 3L



For Model FM-2023 CHIP *1 set: 2 pcs T9-I Chip I T9-L1 Chip 1L T9-L2 Chip 2L





PHAK(O® **HAKKO CORPORATION OVERSEAS AFFILIATES**

U.S.A.

AMERICAN HAKKO PRODUCTS, INC.
28920 AVENUE WILLIAMS VALENCIA, CA 91355, U.S.A.
TEL: (661) 294-0009 FAX: (661) 294-0096
Toll Free (800)88-HAKKO

HEAD OFFICE

4-5, SHIOKUSA 2-CHOME, NANIWA-KU, OSAKA, 556-0024 JAPAN TEL:+81-6-6561-3225 FAX:+81-6-6561-8466

http://www.hakko.com E-mail:sales@hakko.com

HONG KONG HAKKO DEVELOPMENT CO., LTD. ROOM 1504, EASTERN HARBOUR CENTRE, 28 HOI CHAK STREET, QUARRY BAY, HONG KONG. TEL: 2811-5588 FAX: 2590-0217

Please access to the following for the other sales affiliates and distributors.

http://www.hakko.com

Specifications and design are subject to change without notice. Copyright HAKKO Corporation. All right reserved.

PHAK(O®

HAKOFM-203 ESP SOLDERING STATION

2-Port High Performance Rework Station





Highly-advanced multifunctional station. Equipped with 2 connection ports to enable a single station to simultaneously play 2 roles.









•HAKKO FM-203: Station + Soldering Iron

ELECTRONICS LTD

sales@synergyelectronics.co.nz www.synergyelectronics.co.nz Ph 0800 347 045

A single station plays multiple roles: Soldering, desoldering and SMD rework. This station with 2 connection ports allows users to use it more comfortably.

in size.

HAKOFM-203 SE

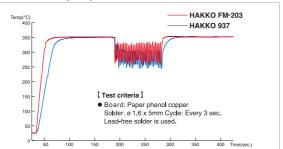
Two connection ports

Two soldering irons can be connected at the same time, which allows users to select and use the appropriate one without having to connect them alternatively.

Powerful thermal recovery

The composite tip provides powerful thermal recovery and stable temperature accuracy.

● Thermal Recovery Graph



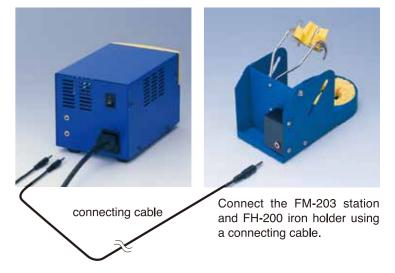
with a switch lever.

Sleep function

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

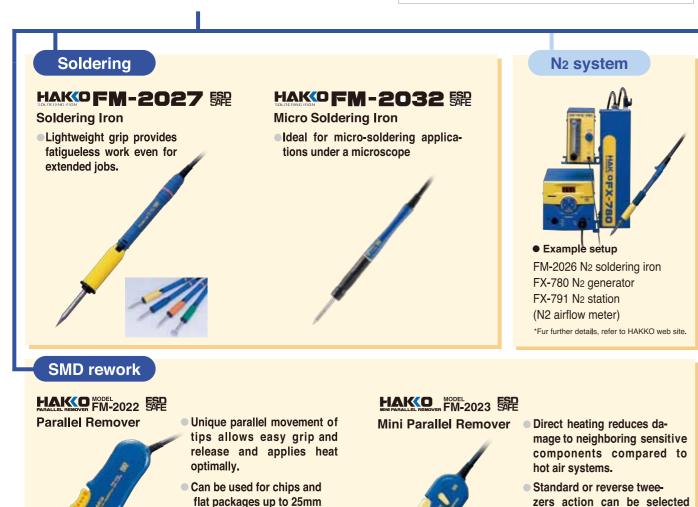
Auto power shut-off function

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



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

table.





Example setup

Allows paper and solder to be Quick nozzle replacement. Nozzle can be replaced safely with

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.

Selectable grip

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



Handpiece

Combination examples of handpieces which can be connected.

Since all handpieces cannot be connected to each connector port, refer to the following

FM-2027		0	0
FM-2022	*1	0	×
FM-2023	*1	0	×
FM-2024	*2	0	0
FM-2026	*3	0	0
FM-2032		0	0

- *1. If the FM-2022 or the FM-2023 handpiece is connected to the channel D connector the other handpiece connected to the channel S connector can be used with it at the same time. If either handniece is used the non-used handpiece will be automatically subject to sleep mode.
- *2 If two FM-2024 handpieces are connected to both channel connectors connect each of them to the desolder control box
- *3 The N₂ generator and N₂ airflow meter must be connected before using the FM-2026. Fur further details, refer to the N₂ system brochure.

List of Specifications and Example Setups



• HAKKO FM-203

Power Consumption	140W
Temperature Range	200 to 450°C
Temperature Accuracy	±5°C at idle temperature

Station

Output	24V
Dimensions	120(W) x 120(H) x 190(D)mm
Weight	2.7kg

● HAKKO FM-2027 Soldering Iron

Power Consumption	70W (24V)
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

^{*}The temperature was measured using the HAKKO FG-101 thermometer.



■ Packing List

MINI PARALLEL REMOVER FM-2023 SAFE

Mini Parallel Remover

Specifications

Standard Tip

Power Consumption | 140 W (24 V) Temperature Range | 200 to 400°C Tip to Ground Resistance <2Ω Tip to Ground Potential <2mV Total Length (w/o cord) 117 mm with I tip Weight (w/o cord) 37 g with I tip

No.FM2023-06 Conversion kit

T9-I (Shape-I)

Station, Handpiece (FM-2027), Sleeve assembly, Connecting cable, Power cord, Control card, Iron holder, Tip tray, Heat resistant pad, Instruction manual

■ Replacement and Optional Parts Part No. Name/Description Applicable FM-2027 B3216 Sleeve assembly, yellow FM-2027 B3218 Sleeve assembly, blue FM-2027 B3217 Sleeve assembly, orange B3219 Sleeve assembly, green FM-2027 599B-02 FH-200 Tip cleaner B3253 Connecting cable FM-203, FH-200 A1514 Ceramic paper filter / 10pcs FM-2024 A1512 Front holder FM-2024 FM-2024 A1511 Filter pipe assembly FM-2027 B2756 Tip tray



Tip Tray





HAKKO 599B Tip Cleaner

Soldering

*For N2 system details, refer to HAKKO web site.

HAKOFM-2027 № HAKOFM-2032 №





Specifications

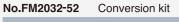
- opeemeaneme	
Power Consumption	70 W (24 V)
Tip to Ground Resistance	<2Ω
Tip to Ground Potential	<2mV
Total Length (w/o cord)	188 mm with 2.4D tip
Weight (w/o cord)	30 g with 2.4D tip
Cord	1.2 m

Specifications

Power Consumption	48 W (24 V)
Tip to Ground Resistance	<2Ω
Tip to Ground Potential	<2mV
Total Length (w/o cord)	170 mm with 1D tip
Weight (w/o cord)	14 g with 1D tip
Cord	1.3 m

No.FM2027-03 Conversion kit







SMD rework



Specifications

Power Consumption	140 W (24 V)
Temperature Range	200 to 400°C
Tip to Ground Resistance	<2Ω
Tip to Ground Potential	<2mV
Total Length (w/o cord)	148 mm with SOP 25L tip
Weight (w/o cord)	64 g with SOP 25L tip
Cord	1.2 m

No.FM2022-05 Conversion kit



Desoldering





MODEL FM-2024 Desoldering Tool

70 W (24 V)
350 to 450°C
<2mV
<2Ω
180 mm with ø1.0 nozzle
65 g with ø1.0 nozzle
1.2 m

No.FM2024-34 Conversion kit (UK) No.FM2024-35 Conversion kit (France) No.FM2024-33 Conversion kit (Other EU Countries)

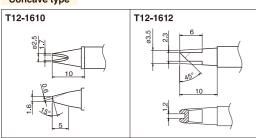


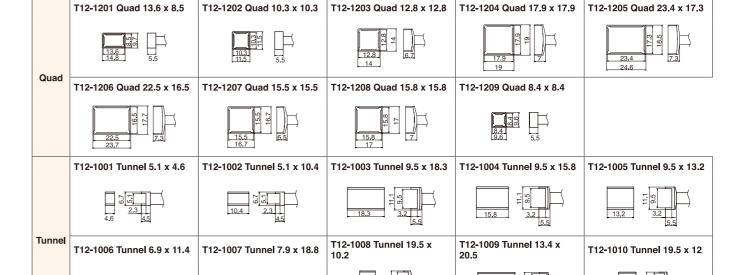
Desolder Control Box

Power Consumption	12 W	
Output	24 V	
Vacuum Generator	Ejector type	
Vacuum Pressure(max.)	93 kPa (700 mmHg)	
Suction Flow	20 L/min.	
Tip to Ground Potential	<2mV	
Applied Air Pressure	490 kPa (5.0 kgf/cm²) when in use	
	(trigger or button is pressed)	
Compressed Air Consumption	1.62 c.f.m. (46 L/min.)	
Dimension	119(W) x 45(H) x 172(D)mm	
Weight (w/o cord & hose) 1.2 kg		

Standard type T12-B2 Shape-0.5B T12-B3 Shape-0.7B T12-B4 Shape-0.4B T12-BL Shape-BL T12-B Shape-B В T12-BC2 Shape-2BC T12-BC3 Shape-3BC T12-BCM2 Shape-2BC T12-BCM3 Shape-3BC T12-BCF1* вс T12-C08 Shape-0.8C T12-C1 Shape-1C T12-C4 Shape-4C С T12-D12 Shape-1.2D T12-D16 Shape-1.6D T12-D24 Shape-2.4D T12-D4 Shape-4D T12-D08 Shape-0.8D D T12-DL12 Shape-1.2DL T12-DL32 Shape-3.2DL T12-DL52 Shape-5.2DL T12-D52 Shape-5.2D T12-DL08 Shape-0.8DL T12-I Shape-I T12-IL Shape-IL T12-ILS Shape-ILS 1 T12-JS02 Shape-0.2JS T12-JL02 Shape-0.2JL T12-J02 Shape-0.2J T12-K Shape-K T12-KF Shape-KF T12-KL Shape-KL T12-KR Shape-KR T12-KU Shape-KU

Concave type





T12-1403 Spatula 21.2

T12-1402 Spatula 15.7

Long life type

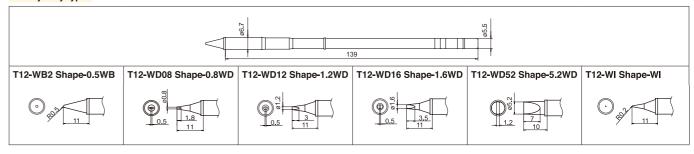
T12-1406 Spatula 40

SMD type

Long me type				
T12-B2Z Shape-0.5B (Z)	T12-BC1Z Shape-1BC (Z) T12-BCF1Z*	T12-BC2Z Shape-2BC (Z) T12-BCF2Z*	T12-BC3Z Shape-3BC (Z) T12-BCF3Z*	T12-BZ Shape-B (Z)
© 805 10	23 45 10	23 45	9 45 10	0 202
T12-C4Z Shape-4C (Z) T12-CF4Z*	T12-D12Z Shape-1.2D (Z)	T12-D16Z Shape-1.6D (Z)	T12-D24Z Shape-2.4D (Z)	T12-D4Z Shape-4D (Z)
10 10 mg	0.5	0.5 10	0.5 10	0.5 4
T12-KFZ Shape-KF (Z)	T12-KRZ Shape-KR (Z)			
2.4 455 17	2 45			

 $^{^{\}star}$ These tips are tinned on the soldering surface only.

Heavy duty type



^{*} These tips are tinned on the soldering surface only.