

#### BUILFTIN PRODUC

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**Product:** 

FM-203 Dual Port Soldering Station

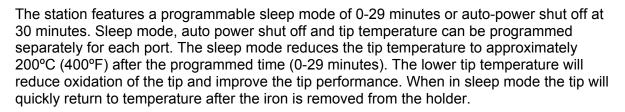
Part No: FM203-01 FM203-DP

#### Comments:

The Hakko FM-203 is a Dual Port high performance soldering station. Even when soldering lead-free solders the

high performance allows lower

operating temperatures. The soldering station can operate any of the following hand pieces, FM-2027 Soldering Iron, FM-2022 Parallel Remover (SMD tweezer), FM-2023 Mini Parallel Remover (SMD mini tweezer), FM-2024 Desoldering Module, and/or FM-2026 Nitrogen Soldering Iron. The soldering iron and desolder tool can be used in either or both ports and the tweezers are limited to one port with a soldering or desoldering iron in the other port.



When utilizing the FM-2027 Soldering Iron the station uses the T15 series composite tip. The composite tip is a soldering tip in which a heating element and sensor are integrated with ceramic. Despite its highly compact design, the tip offers superior thermal response and greatly improved thermal recovery. T15 series tips are available in a wide variety of tip shapes and can also be used with the Hakko FM-203, FP-102 and FM-202 soldering stations. Any tip can be operated at temperatures 200 - 450°C (400 - 840°F). The station includes a card lock system to lock the preset soldering temperature. With the card removed operators can not adjust the working temperature.

The FM-2022 uses T16 tips, The FM-2023 uses T9 tips, The FM-2024 uses N3 nozzles and The FM-2026 uses T17 tips.

From...

For pricing information, please contact your local American Hakko representative or our customer service department at (661) 294-0090. American Hakko Products, Inc. 28920 N. Avenue Williams. Valencia, CA 91355 Tel: (661) 294-0090 Fax: (661) 294-0096 www.hakkousa.com AHP14 Rev 2000-01

# Specifications:

FM-203 Soldering Station		
Power Consumption 140W 120V		
Temperature Range	200 - 450°C (400 - 840°F)	
Temperature Stability	±5°C (±9°F)	
Temperature Accuracy	±15°C (±27°F)	

Soldering Iron (No.FM-2027)		
Power Consumption	70W (24V)	
Tip to Ground Resistance	< 2Ω	
Tip to Ground Potential	< 2mV	
Cord Length	1.2m (47 in.)	
Total Length (w/o Cord) with 2.4D soldering tip attached	188mm (7.4 in.)	
Weight (w/o Cord) with 2.4D soldering tip attached	30g (1.0 oz.)	

Station	
Output	24V
Dimensions	120(W) x 120(H) x 190(D)mm (4.7 x 4.7 x 7.5 in.)
Weight (w/o cord)	2.7kg (5.9 lb.)

#### Contents:

Part No.	Name	FM203-01	FM203-DP
N/A	FM-203 soldering station	1	1
FM2027-02	Connector	1	2
B2387	Power cord	1	1
B2972	Control card	1	1
B3219	Sleeve assembly, Green, anti-bacterial	1	1
B3216	Sleeve assembly, Yellow, anti-bacterial	0	1
B2300	Heat-resistant pad	1	2
FH200-01	Iron Holder, Sleep, w/ 599B	1	2
B3253	Connecting cable	1	2
B2756	Tip tray	1	1
N/A	Instruction manual	1	1

The FM2023-DP includes two FM-2027 connectors and sleep holders. Tips not included.

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Part No.	Name	Specification
FM2027-01	HAKKO FM-2027 w/ Yellow Sleeve Assembly	Does not include tip or holder
B3216	Sleeve Assembly Yellow (Lock-type, Antibacterial)	
B3217	Sleeve Assembly Orange (Lock-type, Antibacterial)	
B3218	Sleeve Assembly Blue (Lock-type, Antibacterial)	
B3219	Sleeve Assembly Green (Lock-type, Antibacterial)	
A1536	Cleaning sponge	Green
FM2022-05	Conversion kit	FM-2022 Parallel Remover with sleep holder and cable. Tips not included.
FM2023-05	Conversion kit	FM-2023 Mini Parallel Remover with sleep holder and cable. Tips included.
FM2024-21	Conversion kit/120 V	FM-2024 Desoldering Module with sleep holder and cable. Nozzle not included.
FM2026-06	Conversion kit	FM-2026 Nitrogen Iron with sleep holder and cable. Tips not included.
FM2027-03	Conversion kit	FM-2027 Soldering Iron with sleep holder and cable. Tips not included.

# Tips and Nozzles:

See PB258 for T15 tip list for HAKKO FM-2027

#### Tips for HAKKO FM-2022

Part No.	Part Name	Specifications
T16-1001	Tip / CHIP 0.5I	
T16-1002	Tip / CHIP 0.5C	
T16-1003	Tip / CHIP 1L	
T16-1004	Tip / CHIP 2L	
T16-1005	Tip / SOP 6L	
T16-1006	Tip / SOP 8L	
T16-1007	Tip / SOP 10L	
T16-1008	Tip / SOP 13L	
T16-1009	Tip / SOP 16L	
T16-1010	Tip / SOP 20L	
T16-1011	Tip / SOP 25L	
T16-1012	Tip / SOP 18L	
T16-1013	Tip / CHIP 3L	

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### Tips for HAKKO FM-2023

Part No.	Part Name	Specifications
T9-I	Tip / CHIP I	
T9-L1	Tip / CHIP 1L	
T9-L2	Tip / CHIP 2L	

### Nozzles for HAKKO FM-2024

Part No.	Part Name	Specifications
N3-06	Nozzle / 0.6mm (0.02 in.)	
N3-08	Nozzle / 0.8mm (0.03 in.)	
N3-10	Nozzle / 1.0mm (0.04 in.)	
N3-13	Nozzle / 1.3mm (0.05 in.)	
N3-16	Nozzle / 1.6mm (0.06 in.)	
N3-20	Nozzle / 2.0mm (0.08 in.)	
N3-23	Nozzle / 2.3mm (0.10 in.)	
N3-L10	Long Nozzle / 1.0mm (0.04 in.)	

### Tips for HAKKO FM-2026

Part No.	Part Name	Specifications
T17-B2	SHAPE-0.5B Conical	
T17-BC1	SHAPE-1BC Bevel	
T17-BC2	SHAPE-2BC Bevel	
T17-BC3	SHAPE-3BC Bevel	
T17-BCF1	SHAPE-1BC Bevel	Tinned on the soldering surface only
T17-BCF2	SHAPE-2BC Bevel	Tinned on the soldering surface only
T17-BCF3	SHAPE-3BC Bevel	Tinned on the soldering surface only
T17-BL	SHAPE-B Long Shape Conical	
T17-D08	SHAPE-0.8D Chisel	
T17-D16	SHAPE-1.6D Chisel	
T17-D24	SHAPE-2.4D Chisel	
T17-J02	SHAPE-0.2J Bent	
T17-KF	SHAPE-KF Knife	
T17-KR	SHAPE-KR Knife	
T17-KU	SHAPE-KU Knife	

### Available:

November 6, 2007

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