



- High powered 150W soldering iron with high heat capacity
- Best suited for soldering of power-supply boards, heat sinks and shield cases
- Applicable also for multilayer boards with micro components
- Supports the [N₂ system](#).

Specifications

Model No. FX838

Power consumption 158W

Temperature range 200-500°C

Temperature stability ±5°C at idle temperature

- Station

Output voltage 27V

Dimensions 110(W)×110(H)×205(D)mm

Weight 3.2kg

- Soldering Iron

Power consumption 150W (27V)

Tip to ground resistance <2Ω

Tip to ground potential <2mV

Heating element Ceramic heater

Length of cord 1.2m

Total length 175mm (with 2.4D tip)

Weight 31g (with 2.4D tip)

- Length and weight (w/o cord)

Packing List

Model No.	Packing List
FX-838	Soldering station (HAKKO FX-838), Soldering iron (HAKKO FX-8301), Control card, Power cord, Iron holder (With cleaning sponge and 599B), Connecting cable, Heat resistant pad, Instruction Manual

NOTE: A soldering tip is not included in this product. The tips ([T20 series](#)) of desired shape should be purchased separately.

Features

High Power 150W Soldering Station enjoys the various applications from large to fine components.

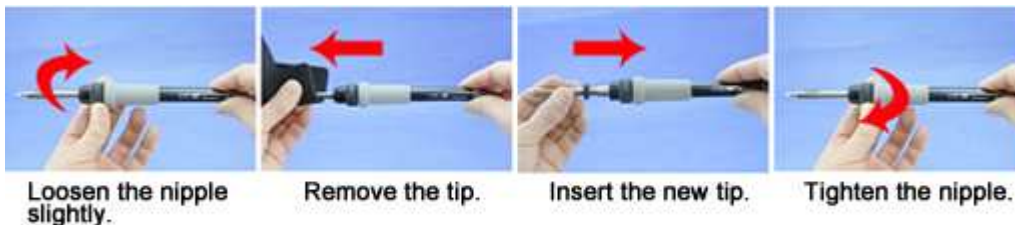
- Great thermal recovery improves the soldering environment)
 - It allows soldering at lower set temperatures.
 - It can shorten the soldering working time, which minimize concern about the influence of heat on components and tip life.
- It is suitable not only for high-power required working condition such as soldering multilayer boards or shield cases but for microsoldering.



What benefit can be taken by Low set temperature and Cut in Soldering Working Time?

- They reduce the risk of the damage of heat-sensitive chips and workpieces.
- They diminish the oxidation of soldering tips.
As for soldering with Lead-free solder which has high melting point, setting temperature tends to be set higher than soldering with eutectic solder. It stimulates the oxidation of tips and results in the short tip life.

- Operate at Maximum Temperature of 500 Degrees.
 - It enables soldering power-supply boards easily because high power 150W hand piece can provide great thermal recovery.
- High Power but Safety design of low voltage.
 - This unit has not only high power but also low output voltage (27V) , which is lower than the world safety output voltage of 30V.
- Easy to replace tips.



- Cartridge style Integrated heater makes thermal conductivity improve.
- Available 20 different shape as replacement, some of which are suitable for fine components.

HAKKO FX-838 replacement Tip List (T20 series)

- ❖ Temperature preset mode saves time and effort.
 - It allows you to input three frequently-used temperatures in advance and recall them with one push of a button.
 - It saves the troublesome setting condition, tailored to the tip-shape, component and work.



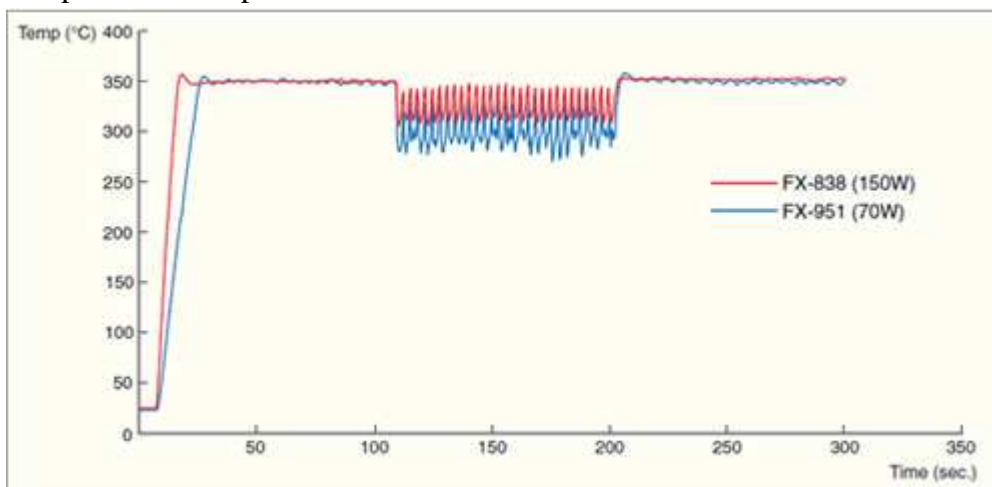
N₂ system enhances solderability by Preventing Oxidation and Preheating Effect, featuring space-saving design.

183(W)×280(H)×205(D)mm

*Reference dimensions

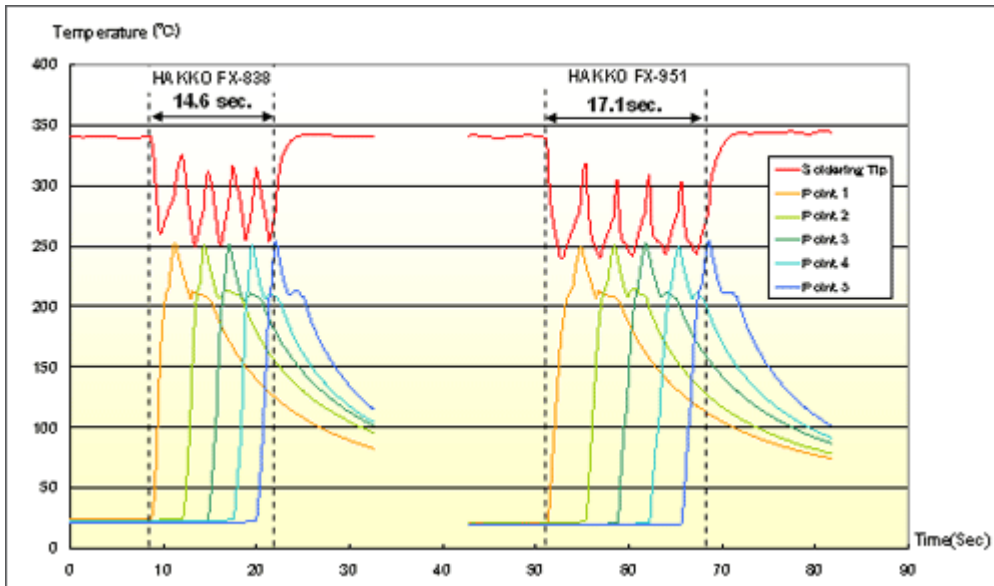
❖ **Great thermal recovery**

150W hand piece provides great thermal recovery, which allows soldering at lower set temperatures to!!minimize concern about the influence of heat on components and tip life.



❖ **High power saves the working time.**

The high power shortens the working time.



- Test Condition

Test method	Solder at 5 points and measure the time until temperature of the workpiece reaches 250 degrees.
Board used	Bakelite board
Component	Terminal
Tip shape	Shape-1.6D
Temperature setting	340°C
Solder	Lead-free solder (Sn/Ag/Cu) ϕ 0.5

❖ Combination Example

Name	Figure	Remarks
1 HAKKO FX-838 Station		With Control card, Heat resistant pad, Power cord, Connecting cable and Instruction manual.(Not necessary to purchase this unit if you have it.)
2 Iron holder		With HAKKO 599B
3		With cleaning sponge

[HAKKO
FX-8302](#)

4 N₂
Soldering
Iron



5 [T20
Series](#)
Tip



6 [Nozzle
assembly](#)



[HAKKO
FX-780](#)

7 N₂
Generator



Select the tip appropriate for work.

Select the nozzle assembly applicable to the tip.

With Racks for Station Air tube Outer diameter: 6mm It can be placed perpendicularly or horizontally.

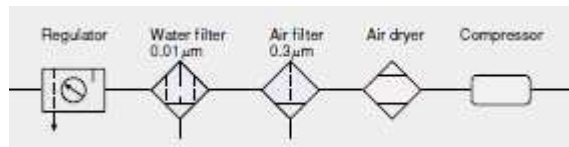


[HAKKO
FX-791](#)

8 N₂ Flow
Meter



9 The
others



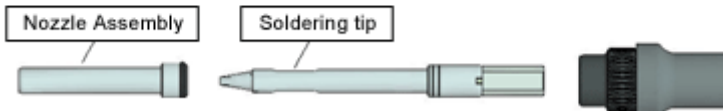
Air tube Outer diameter: 6mm

* The others are not provided by HAKKO

HAKKO FX-8301

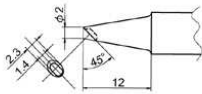


HAKKO FX-8302

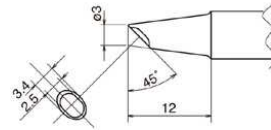


T20

Shape BCM/CM

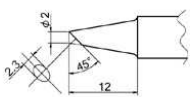


T20-BCM2 Shape-2BC Bevel with indent

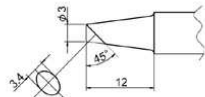


T20-BCM3 Shape-3BC Bevel with indent

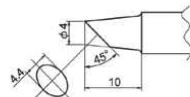
Shape BC/C



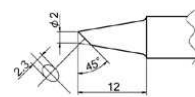
T20-BC2 Shape-2BC



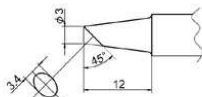
T20-BC3 Shape-3BC



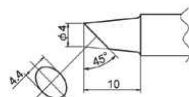
T20-BC4 Shape-4BC



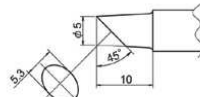
T20-BCF2 Shape-2BC
Tinned cut surface only



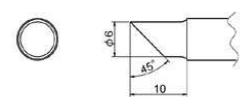
T20-BCF3 Shape-3BC
Tinned cut surface only



T20-BCF4 Shape-4BC
Tinned cut surface only



T20-C5 Shape-5C



T20-C6 Shape-6C

Shape B



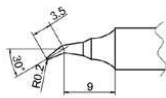
T20-B2 Shape-0.5B T20-BL Shape-BL T20-BL2 Shape-2BL T20-BL3 Shape-3BL

Shape D



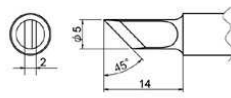
T20-D16 Shape-1.6D T20-D24 Shape-2.4D T20-D32 Shape-3.2D T20-D6 Shape-6D

Shape J

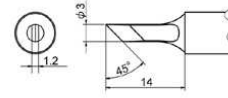


T20-J02 Shape-0.2J
(Shape-0.2RSB)

Shape K


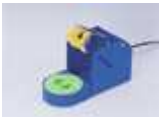


T20-K Shape-K



T20-KU Shape-KU

Replacement Parts

Part No.	Name	Specifications
 599B-01	HAKKO 599B tip cleaner	
 FH200-02	Iron holder	w/ power-save function



FX8301-01 Soldering iron FX-8301 150W (27V)



B3253 Connecting cable



B2388 Control card



B2300 Heating resistant pad



FH200-01 Iron holder w/ power-save function



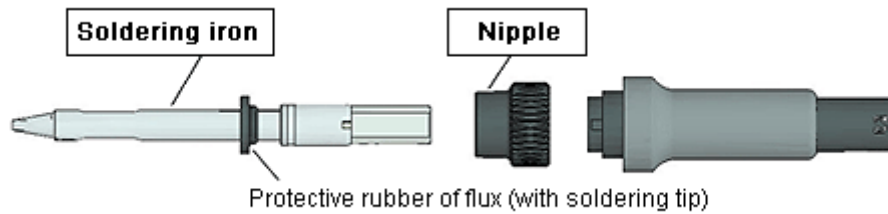
A1536 Cleaning sponge green



B3524 Nipple



599-029 Cleaning wire



Option

Part No.	Name	Specifications
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A1519 Cleaning sponge yellow