

Options

FX-8801

T18 Tip series



Power consumption	65 W (26 V)
Temperature range	50 to 480°C
Tip to ground resistance	<2 Ω
Tip to ground potential	<2 mV
Heating element	Ceramic heater
Standard tip	Shape-B (No. T18-B)
Cord length	1.2 m
Total length	217 mm
Weight	46 g

FX-8805

T19 Tip series



Power consumption	65 W (26 V)
Temperature range	50 to 480°C
Tip to ground resistance	<2 Ω
Tip to ground potential	<2 mV
Heating element	Ceramic heater
Standard tip	Shape-B (No. T19-B)
Cord length	1.2 m
Total length	222 mm
Weight	52 g

FX-8802

T18 Tip series



Power consumption	65 W (26 V)
Temperature range	50 to 480°C
Tip to ground resistance	<2 Ω
Tip to ground potential	<2 mV
Heating element	Ceramic heater
Standard tip	Shape-B (No. T18-B)
Cord length	1.2 m
Total length	190 mm
Weight	59 g

FX-8803

T18 Tip series



*Requires separate purchase of iron holder.

Iron holder
Part No. C1437

Power consumption	65 W (26 V)
Temperature range	50 to 480°C
Tip to ground resistance	<2 Ω
Tip to ground potential	<2 mV
Heating element	Ceramic heater
Standard tip	Shape-3C (No. T18-CF3)
Standard guide nozzle	φ1.0 mm
Usable solder diameter	φ0.6, 0.8, 1.0, 1.2, 1.6 mm
Cord length	1.1 m
Dimensions	170 (W) x 180 (H) x 23 (D) mm
Weight	207 g

FX-8804

Dedicated Tip series for FX-8804 (Hakko 950)



*Need an optional holder clip No.B3666 to fit into soldering iron holder



Iron holder
Part No. FH800-04BY

Power consumption	65 W (26 V)
Temperature range	200 to 400°C
Tip to ground resistance	<2 Ω
Tip to ground potential	<2 mV
Heating element	Ceramic heater
Standard tip	Shape-2L (No. A1378) 2 pcs/set
Cord length	1.2 m
Total length	186 mm
Weight	93 g

*The recommended (process) temperature is from 200°C to 400°C while setting temperature range of FX-888D is from 50°C to 480°C.

Total length and weight exclude cord or tube, but include the standard tip(s) already attached.

Packing list • Specifications

FR-701



Station, Soldering iron (FX-8801), Desoldering tool (FR-4101), Iron holder (FH-800 with cleaning sponge and wire), Iron holder (FH-410 with cleaning wire), Tool box (Cleaning pin for φ1.0 mm, Cleaning pin for heater, Cleaning drill for φ1.0 mm, Nozzle wrench, Filter [qty 2], Ceramic paper filter L [qty 4]), Power cord, Instruction manual

Power consumption	260W
Station	
Dimensions	190 (W) x 140 (H) x 220 (D) mm
Weight	6.2 kg

Station (Soldering iron)	
Output voltage	AC 26 V
Temperature range	50 to 480°C
Temperature stability	±1°C at idle temperature (When set to 200 to 480°C)

Station (Desoldering tool)	
Output voltage	AC 24 V
Vacuum generator	Vacuum pump, double cylinder type
Vacuum pressure	Max. 80 kPa (600 mmHg)
Suction flow	15 L/min.
Temperature range	330 to 450°C
Temperature stability	±5°C at idle temperature

■ Soldering Iron
Refer to the specification of FX-8801 in the options listed above.

Desoldering tool	
Power consumption	140 W (24 V)
Nozzle to ground resistance	<2 Ω
Nozzle to ground potential	<2 mV
Heating element	Composite heater
Standard nozzle	φ1.0 mm S type (No. N61-05)
Cord length	1.2 m
Total length	168 mm (with φ1.0 mm S type nozzle)
Weight	170 g (with φ1.0 mm S type nozzle)

*Total length and weight exclude cord and hose.

FR-702



Station with hot air handpiece, Nozzle N61-05 for hot air, Handpiece holder for hot air, Vacuum pipe control knob L (with screw), Pads (qty 2 each of φ3 mm, φ5 mm, φ7.6 mm), Soldering iron (FX-8801), Desoldering tool (FR-4101), Iron holder (FH-800 with cleaning sponge and wire), Iron holder (FH-410 with cleaning wire), Tool box (Cleaning pin for φ1.0 mm, Cleaning pin for heater, Cleaning drill for φ1.0 mm, Nozzle wrench, Filter [qty 2], Ceramic paper filter L [qty 4]), Heat resistant pad, Color band (qty 2), Power cord, Instruction manual

Power consumption	1030 W (100 V), 1170 W (110 V), 1430 W (220 V), 1530 W (230 V), 1630 W (240 V)
Station	
Dimensions	370 (W) x 150 (H) x 220 (D) mm
Weight	9 kg

Station (Soldering iron)	
Output voltage	AC 26 V
Temperature range	50 to 480°C
Temperature stability	±1°C at idle temperature (When set to 200 to 480°C)

Station (Desoldering tool)	
Output voltage	AC 24 V
Vacuum generator	Vacuum pump, double cylinder type
Vacuum pressure	Max. 80 kPa (600 mmHg)
Suction flow	15 L/min.
Temperature range	330 to 450°C
Temperature stability	±5°C at idle temperature

Station (SMD rework station)	
Power consumption	30 W
Airflow setting range	1 to 9 (5 - 115 L/min.)
Temperature range	50 to 600°C

■ Soldering Iron
Refer to the specification of FX-8801 in the options listed above.

Desoldering tool	
Power consumption	140 W (24 V)
Nozzle to ground resistance	<2 Ω
Nozzle to ground potential	<2 mV
Heating element	Composite heater
Standard nozzle	φ1.0 mm S type (No. N61-05)
Cord length	1.2 m
Total length	168 mm (with φ1.0 mm S type nozzle)
Weight	170 g (with φ1.0 mm S type nozzle)

Handpiece (Hot air)	
Power consumption	670 W (100 V), 810 W (110 V), 1070 W (220 V), 1170 W (230 V), 1270 W (240 V)
Standard nozzle	φ 4 mm (No. N51-02)
Total length	250 mm
Weight	180 g

*Values for airflow are approximate. Actual volume of airflow may be affected by the size and shape of the nozzle used.
*Total length and weight exclude cord and hose.

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Desoldering / Rework

SMD Rework System
Rework Station

HAKKO FR-701 ESD SAFE
REPAIR SYSTEM

HAKKO FR-702 ESD SAFE
REWORK SYSTEM

Powerful Rework Station !!

The new rework stations upgraded in all the functions of soldering, desoldering and hot air for more safe and secure rework.

NEW



FR-702

FR-701

CA00489RbYa001 2016.6

Powerful and compact rework stations that contain every function needed for rework

Every application needed for soldering-related work, soldering iron, hot tweezers, desoldering tool and hot air tool (only with FR-702), has been aggregated in a compact body.

All the applications have been upgraded from the previous models for more safety, efficient and secure work.



HAKKO FR-701 ESD SAFE
REPAIR SYSTEM
Desoldering & Soldering
Multi rework station with 140 W
desoldering tool and M type soldering iron
2 in 1 style saves space



HAKKO FR-702 ESD SAFE
REWORK SYSTEM

Desoldering, Soldering (Dual port) & Hot Air
Rework station with 3 functions of soldering, desoldering and hot air. Dual port for soldering accepts 2 types of applications of your choice from 5 types.

HAKKO FR-701 ESD SAFE
REPAIR SYSTEM

HAKKO FR-702 ESD SAFE
REWORK SYSTEM

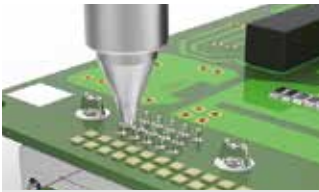
Desoldering tool

High power **140W**

140 W high power enables perfect desoldering for the components on multi-layer PWB. A wide selection of nozzle, with the addition of new types, is available for a variety of desoldering works.



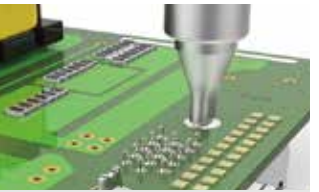
Desoldering tool HAKKO FR-4101



SS type nozzles for micro land patterns



Long type nozzles for narrow space



Oval shape nozzles for flat type terminals

By increasing the power consumption from 50 W to 140 W, components on multi-layer PWB can be removed easily which used to be impossible before. New added nozzles are effective even for micro lands, narrow spaces and flat terminals which are often found on small PWB for mobile phones.

Unique functions to support desoldering

- Valve function for secure desoldering
- Easy heater replacement
- Anti clogging function to reduce solder clogging
- Large filter and clear cover improve the maintainability

Soldering iron

High thermal conductivity **65W**

4 different kinds of applications available in addition to the FX-8801 soldering iron



Soldering iron M type HAKKO FX-8801
Takes T18 tip series, which have a wide range of shapes.



Soldering iron L type HAKKO FX-8805
Takes T19 tip series, which have higher thermal capacity compared to previous tip series.



N₂ Soldering iron HAKKO FX-8802
Prevents tip oxidation and contributes to soldering efficiency as well as preheating.



One-hand operation solder-feed soldering iron HAKKO FX-8803
Makes one-hand operation for solder feeding and soldering possible, and makes the other hand available for other action.



T18-B
T19-B



T18-B (O.D. φ6.9mm)
T19-B (O.D. φ8.5mm)

T18 and T19 tip series are designed to have improved thermal conductivity from their previous models by reviewing both external and internal structures. T19, with its upgraded thermal mass by the new design of tip structure and shapes, is suitable for soldering what requires high thermal capacity.



SMD Hot tweezers HAKKO FX-8804
Makes it easy to remove SOP's up to 25 mm. (Direct heating)

Hold a component with hot tweezers to melt solder joints and remove it from PWB. Due to direct heating, it does not disturb the surrounding heat-sensitive components compared to hot air application.



Hot air

High power **670W**

Air flow volume and temperature range have been significantly increased to max. 115mm/min. and 50 to 600°C respectively from the previous models. It improves work efficiency and safety in rework operation by providing powerful hot airflow to PWB with high thermal capacity and sufficient hot airflow to high-density PWB.



New type of nozzles for improving temperature characteristics

The new nozzles improve work efficiency with uniform heating by hot air convection inside the nozzle which is created due to vents on the nozzle top. (Only with BGA nozzles)



Vacuum pickup function

The vacuum pickup function is to pick up a component with a suction pad and vacuum. It will pick a component only after the hot air melts solder joints. This can avoid an error to peel off the land by removing a components with excessive force.



Pickup indicator

By pre-setting pickup function, a component can be picked up automatically when solder is melted. At the same time, the indication comes up and the moment of picking up will be visible. Even a component and solder joints can not be seen as covered by a nozzle, easy and safe picking up is possible.