



FR-400

ULTRA HEAVY-DUTY DESOLDERING STATION

The **HAKKO FR-400 Ultra Heavy-Duty Desoldering Station** is specifically designed for the difficult rework of extremely large mass components where a significant amount of thermal inertia must be overcome. An excellent tool for desoldering the most challenging solder joints. Now with a more efficient quick-change nozzle capability!

DESOLDERING



FEATURES & BENEFITS

- 300 W Heating Element with a top controlled temperature of 940 °F (500 °C)
- Anti-Clogging features helps ensure peak vacuum pressure to the solder joint and prevents premature release of the vacuum system before the solder has cleared the heater and is captured in the solder collector chamber
- The display includes a vacuum indicator that lets you know if there are any restrictions building that will need to be cleaned out using the tools that are in the maintenance kit (included with the station.)



SPECIFICATIONS For Part No. FR400-53

STATION	
Nozzle Series	N60 see page 55 (N60-02 standard nozzle included)
Input Voltage	120 VAC 50/60 Hz
Power Consumption	320 W
Temperature Range	660 °F - 940 °F / 350 °C - 500 °C
Temperature Stability	±5 °C / ±9 °F at idle
Vacuum Generator	Pump - double cylinder
Vacuum Pressure (max.)	80 kPa (24in. Hg / 600 mm Hg)
Output Voltage	29 V
Suction Flow	15 L/min
Outer Dimensions (W x H x D)	6.5 x 5.4 x 10.4 in. / 166 x 137 x 264 mm
ESD Safe	Yes
Included Handpiece	FR-4003 (Part No. FR4003-81) see page 55

FR-400 DESOLDERING SET

Includes everything shown in picture. P/N: FR400-53

MAINTENANCE KIT P/N: C5011

FR-400 HANDPIECE HOLDER P/N: FH400-82

FR-4003 DESOLDERING TOOL P/N: FR4003-81

FR-400 ACCESSORY

NOZZLE QUICK CHANGER P/N: C5045

Easily change your FR-400 nozzles with just a twist on the Nozzle Quick Changer. See [page 103](#)



CONTENTS For Part No. FR400-53 (Complete set w/ Station, Desoldering Tool & Iron Holder)

Part No.	Description
--	Desoldering station
FR4003-81	Gun-style handpiece
FH400-82	Holder for FR-4003 handpiece
N60-02	Standard nozzle
B2419	Power cord
C5011 (Includes the below 6 pcs)	Maintenance kit:
• B1087	• 1.0 mm cleaning pin
• B1215	• Heater cleaning pin
• B1303	• 1.0 mm cleaning drill
• B5082	• Nozzle wrench
• A5020	• Station filter (x2)
• A5045	• Handpiece filter (x4)
--	Instruction manual



For more information [Scan QR Code.](#)

U.S. Patent Registered



FR-4003

ULTRA HEAVY-DUTY DESOLDERING GUN



The **HAKKO FR-4003 Ultra Heavy-Duty Desoldering Gun** handpiece is designed to work with the FR-400 Desoldering Station. The handpiece operates between a temperature range of 660 °F - 940 °F through a composite ceramic heating core and also features a solder collection chamber for efficient solder removal.



FEATURES & BENEFITS

- Designed for the FR-400 Desoldering station
- Improved handpiece with quick change nozzle mechanism
- Large solder collection chamber is 3X larger in capacity than other Hakko desoldering stations and can be cleaned and re-used thus reducing environmental waste



SPECIFICATIONS For Part No. FR4003-81

Nozzle Series	N60 see below
Station Compatibility	FR-400 see page 54
Power Consumption	300 W
Nozzle-to-Ground Resistance	< 2 Ω
Nozzle-to-Ground Potential	< 2 mV
Heater	HAKKO Composite Ceramic™
Standard Nozzle (included)	N60-02 (0.04 in. / 1.0 mm)



FILTERS

Part No.	Description
A5045	Ceramic filters (10 pack)



CLEANING PINS & DRILLS

see page 57

N60 SERIES NOZZLES



N60 SERIES NOZZLES FOR USE WITH FR-4003 DESOLDERING GUN

UNIT: mm

N60-01	N60-02	N60-03	N60-04
N60-05	N60-06	N60-07	N60-08
N60-09			



For more information Scan QR Code.