



American Hakko Products, Inc.

# PRODUCT BULLETIN

**Bulletin No:** PB345

**Issue Date:** 4-9-2014

**Available:** 4-29-2014


**Product Description:**

HAKKO FR-300 Desoldering Tool and Kit

**Part No:**

FR300-05/P

**Specification:**

Desoldering Tool Specifications	
Model	FR-300
Part No.	FR300-05/P
Power Consumption	140W 120V
Temperature Range	350°C - 500°C (660°F - 930°F)
Tip to Ground Resistance	<2Ω
Tip to Ground Potential	<2mV
Temp. Stability & Accuracy	Meets or Exceeds IPC J-STD-001
Heating Element	Ceramic
Motor Output	14W
Vacuum Source	Single-cylinder Diaphragm Pump
Vacuum Pressure	81 kPa (610 mm Hg / 24 in. Hg)
Suction Flow	11 L/min
Safety Approval	
Weight (w/o cord and case)	0.52 kg (1.1 lb.)
Reach	1.8m (5.9 ft.)
Nozzles	N50 Series
Standard Nozzle	N50-04 (ø1.0mm)
Dimensions (w/o case) (L x W x H)	210 x 49 x 226 mm (8.3 x 1.9 x 8.9 in.)



From...

For additional information:

- End-User Customers – Call Customer Support at 1-800-88-HAKKO (42556)
- Authorized Distributors – Call Distributor Support at 661-294-0090

American Hakko Products, Inc.  
28920 Avenue Williams.  
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AHP14 Rev 2007-12



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Contents	
Part Number	Description
FR300-05	FR-300 Desoldering Tool
C5000	FR-300 Tool Case
C5003	Iron Holder (Simple)
B5015	Quick Change Nozzle Tool
B5017	Filter Pipe (installed)
B5016	Aluminum Pre-Filter (1 installed / 1 replacement)
A1033	Ceramic Filter (1 installed / 2 replacements)
B1087	Cleaning Pin for $\phi 1.0\text{mm}$ Nozzles
B1085	Cleaning Pin for Heating Element
N50-04	$\phi 1.0\text{mm}$ Desoldering Nozzle (installed)

N50 Series Nozzles		
<p><b>N50-01</b></p> <p>A: 0.8mm (0.03 in.) B: 2.0mm (0.08 in.)</p>	<p><b>N50-02</b></p> <p>A: 1.0mm (0.04 in.) B: 2.0mm (0.08 in.)</p>	<p><b>N50-03</b></p> <p>A: 0.8mm (0.03 in.) B: 2.5mm (0.10 in.)</p>
<p><b>N50-04</b></p> <p>A: 1.0mm (0.04 in.) B: 2.5mm (0.10 in.)</p>	<p><b>N50-05</b></p> <p>A: 1.3mm (0.05 in.) B: 3.0mm (0.12 in.)</p>	<p><b>N50-06</b></p> <p>A: 1.6mm (0.06 in.) B: 3.0mm (0.12 in.)</p>

### Comments:

The new HAKKO FR-300 Desoldering Tool and Kit is an improved version of the older HAKKO 808 Desoldering Tool that brings the performance of an industrial soldering tool and puts it into a compact and lightweight hand tool. The HAKKO FR-300 also incorporates the features that users have been asking for – a longer power cord, and integrated power switch, and an easier way to remove the nozzles for cleaning and/or replacement.

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The HAKKO FR-300 uses a new pump system that requires only a single cylinder that can generate more suction flow than the previous 808 Desoldering Tool but is better balanced and positioned within the tool to reduce vibration during use. The higher power heater incorporates a closed-loop sensor feedback system that provides improved temperature control and recovery. The new heating element also incorporates a new quick-change nozzle system that allows the nozzle to easily be removed for cleaning and/or replaced with a simple 'click'.

The grip for the HAKKO FR-300 has been improved by making the shape more ergonomically friendly while retaining the same canted forward design as the 808 Desoldering Tool that minimizes stress on the user's wrist when in use. The grip also has an easily accessible temperature control dial with temperature indications embossed into the grip and dial. There is also an integrated power switch to turn the tool on or off at the back of the grip, and a heater activity indicator LED in the front of the grip.

The filter pipe on the HAKKO FR-300 has also been improved, providing a grip area on the pipe itself that is cooler to the touch when it must be removed to clean out the collected material or replace the filters.

The HAKKO FR-300 also comes with an improved carrying case that securely holds the tool and protects it from damage when transporting, and the case is made with specifically designed cavities to hold and store the various maintenance cleaning pins and drills as well as the simple holder and quick change nozzle tool.

For more information please visit us at [www.HakkoUSA.com](http://www.HakkoUSA.com)

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