

**HAKKO FR-301**  
DESOLDERING TOOLNEW

- 1 **Use of high thermal efficiency**  
N61 series nozzles
- 2 **A wide range of nozzle sizes and shapes**  
for secure desoldering
- 3 **High-precision temperature control**  
by HAKKO's unique sensor feedback function
- 4 **Reduction of solder clogging**  
by improved heating core
- 5 **Safe and easy nozzle change**  
with the nozzle wrench

*The nozzle lineup includes diameters from 0.6 mm to 1.6 mm and also oval shape nozzles.*

**SS type**  
Nozzles for  
micro  
land-patterns



**Oval shape**  
Nozzles for  
flat terminals



**Long type**  
Nozzles for  
narrow space







## Packing List

Unit, Pre-filter, Ceramic paper filter (L, qty 2), Nozzle wrench, Iron holder (simple type), Cleaning pin for heating core, Cleaning pin for  $\Phi 1$  mm nozzle, Instruction manual

## Specifications

Model No.	FR-301
Power consumption	100V 98 W (50/60Hz), 110V 122 W (50/60Hz) 120V 140 W (60Hz), 220V 100 W (50/60Hz) 230V 110 W (50/60Hz), 240V 120 W (50/60Hz)
Temperature range	350 to 500°C
Nozzle to ground resistance	<2 $\Omega$
Nozzle to ground potential	<2 mV
Vacuum generator	Diaphragm pump
Vacuum pressure	81 kPa (610 mmHg)
Suction flow	11 L/min.
Standard nozzle	$\Phi 1$ mm (No. N61-08)
Dimensions	215 (W) x 226 (H) mm (with $\Phi 1$ mm (No. N61-08) nozzle)
Weight	0.52 kg (with $\Phi 1$ mm (No. N61-08) nozzle)

\* Total length and weight without cord

## Option



Iron holder  
No. C1100

### Nozzle wrench included

Safe and easy nozzle change with the nozzle wrench



### Simple iron holder included

Prevents burns and accidents with hot surface



## Replacement Nozzles

Unit : mm

SS type	N61-01	N61-02	N61-03	
S type	N61-04	N61-05	N61-06	
Standard type	N61-07	N61-08 (Standard nozzle)	N61-09	N61-10
Long type	N61-11	N61-12	N61-13	N61-14
Oval type	N61-15	N61-16		

\* N61 series nozzles can also be used for FR-410 desoldering station.

**HAKKO**  
HAKKO CORPORATION  
OVERSEAS AFFILIATES

Please access to the following for the other sales affiliates and distributors.  
<http://www.hakko.com>

Specifications and design are subject to change without notice. Copyright HAKKO Corporation. All right reserved.  
HAKKO is registered in countries and regions including the following. Japan, USA, South Korea, Singapore, China, the member of CTM.

HEAD OFFICE  
4-5, SHIOKUSA 2-CHOME, NANIWA-KU, OSAKA, 556-0024 JAPAN  
TEL: +81-6-6561-3225 FAX: +81-6-6561-8466  
<http://www.hakko.com> E-mail: [sales@hakko.com](mailto:sales@hakko.com)

CA00518ObYa001 2018.1

SUPERCHIP L.T.D. • INDUSTRIAL ELECTRONICS  
18. PALEOLOGOU STR • GR 18233 REDIS GREECE  
[info@superchip.gr](mailto:info@superchip.gr)  
TEL: +302105222600. 5201250 • FAX: +302105222060  
VAT EL 099080280