

HAKOFR-400 ESP DESOLDERING TOOL

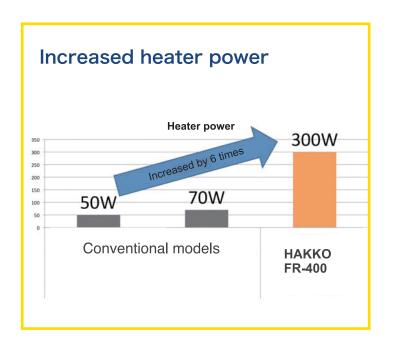
300W of Desoldering Power! A Revolution in High Mass Rework

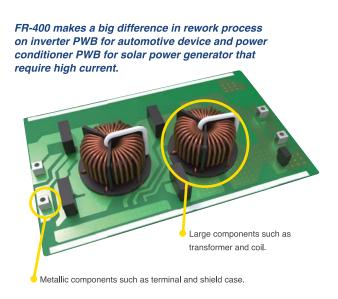
Quickly and safely reflow and remove solder from the most demanding PCBs



300W of desoldering power makes the impossible now possible!

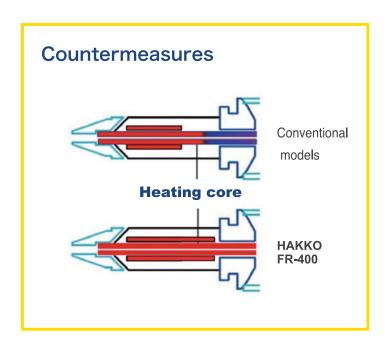
It is becoming more and more difficult to desolder high current components from PCBs that are specially engineered for heat dissipation. In some cases, two different pieces of equipment are used to attempt rework of the component: A soldering station to help melt the solder on one side, and a desoldering station to melt and remove the solder from the other side. The new HAKKO FR-400 with 300W of power and an advanced vacuum system eliminate extra equipment needs while safely and effectively allowing reflow and removal of the most demanding components.





Advanced vacuum system for near instant vacuum

Suction is delayed by 0.2 seconds after pulling the trigger, allowing for a buildup of vacuum which is then applied to the solder joint for an instant high pressure vacuum.



Reduce Clogging

Improved Heater Core

A longer heated segment of the heating core ensures solder is carried to the filter pipe while remaining molten, greatly reducing the liklihood of clogging.

Anti-Clogging Function (ACF)

This new feature prevents ensures proper application of suction to ensure the material in the heater core is carried all the way to the filter pipe.

Easy maintenance

New high capacity filter pipe

New filter pipe has 3x the capacity of other filter pipes which is needed for large solder joints. The filter pipe can be easily cleaned and re-used, reducing waste.

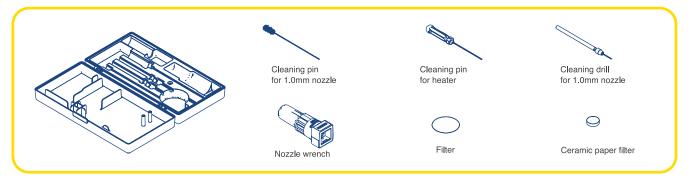
Cartridge heating element

Easy to replace heating element simply by removing 3 screws.



Included maintenance kit

A basic maintenance kit with a cleaning pin and drill for the standard nozzle, and cleaning pin for the heating core, as well as replacement filters and nozzle removal tool are all included in a convenient tool case.



Larger and easy to see station filter

When desoldering, flux is also ingested into the system which can degrade performance if it enters the pump system. To prevent this, a filter is used at the station vacuum port. The new filter is larger to enhance the adsorption of the flux before it enters the pump system, and the transparent cover makes it easy to see when this filter should be changed.

Large LCD display

Very easy to see temperature on the large LCD display





Vacuum indicator to check clogging



Suction with no clogging



Suction with clogging

Larger selection of nozzles, even for odd shapes

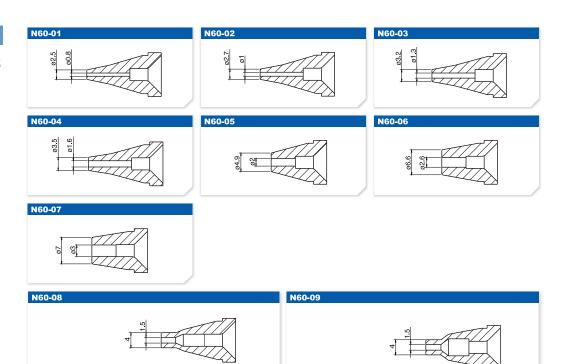
N60 Series nozzles include standard sizes and larger sizes greater than 2.0mm diameter including flat tabs





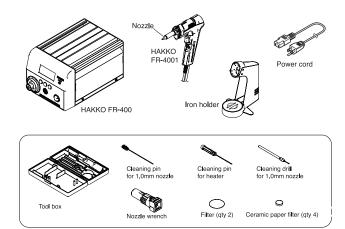
For FR-4001

Replacement Nozzles



FR-400





Specifications

Power consumption 320 W

i ower consumption	320 W
Temperature range	350 to 500°C
Temperature stability	±5°C at idle temperature
Station	
Output voltage	AC 29V
Vacuum generator	Double cylinder type
Vacuum pressure	80 kPa (600mmHg)
Suction flow	15 L/min.
Dimensions	160(W)×137(H)×235(D)mm
Weight	5.7 kg
Desoldering tool	
Power consumption	300W (29V)
Nozzle to ground resistance	< 2 Ω
Nozzle to ground potential	< 2 mV
Heating element	Composite heater
Standard nozzle	1.0 mm (Part No. N60-02)
Cord length	1.2 m
Total length (without cord)	183 mm (with 1.0mm nozzle)
Weight (without cord)	245 g (with 1.0mm nozzle)

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*Measured at the filter case suction port



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