

FR-872

4-BANK IR PREHEATER



The **HAKKO FR-872 4-BANK IR Preheater** includes a feature to control ramp rate for heating sensitive assemblies. Designed to elevate the temperature of printed circuit board assemblies so the components can be soldered and desoldered more easily, with improved results, particularly on high-mass boards, which can “heat-sink” a significant amount of energy from a soldering iron tip or hot air tool. The FR-872 incorporates a new heating method and a closed-loop thermocouple control. The preheater array has four separate switchable zones for smaller PCBs used in devices such as cell phones.



FEATURES & BENEFITS

- High efficiency carbon filament IR heating lamps
- 4 independent switchable heat zones
- 8.8 x 10.5 in (224 x 266 mm) effective heating area
- Manual or Auto operation modes
- Preheat controlled by power percentage or thermocouple for closed-loop feedback of the PCB heating
- Ramp Control that controls the ramp rate of the PCB when using either of the thermocouple modes of temperature control
- Soft EPO to protect assemblies
- Automatic operation following a 3-heating zone profile that can be programmed into the system (with up to 20 possible profiles)
- Faster than ceramic IR heating
- Integration capability with the Hakko FR-803B hot air and FM-206 rework systems with connecting cable (B3657 and B3686 (Not included)).



SPECIFICATIONS For Part No. FR872-03

Power Consumption	1440 W
Heater Array	Carbon filament lamp X 12
Thermocouple Input	K-type (1)
Power Range	0 - 100% (1% increments)
Temperature Range	120 F° - 392 °F / 50 °C - 200 °C
Ramp Rate Select	34, 36, or 37 °F/sec
Timer Range	0 - 999 seconds
Operating Modes	Manual - Power Manual - Thermocouple Automatic - Power Automatic - Thermocouple
Heating Control	Power: Percentage-based Thermocouple: PID control
Maximum Board Depth	16.9 in. / 430 mm
Dimensions (W x H x D)	14.2 x 3.8 x 21.1 in. / 360 x 97 x 535 mm
Heating Area (W x D)	11.2 x 13.8 in. / 286 x 350 mm
Effective Heating Area (W x D)	8.8 x 10.5 in. / 224 x 266 mm
Zones	4
External Connections	1 — integrate with the FM-206



FR-872
LARGE IR
PREHEATER
P/N: FR872-03



CONTENTS For Part No. FR872-03

Part No.	Description
---	FR-872 4-bank ir preheater
A5003	High efficiency carbon filament ir heater (spare)
B3516	Thermocouple
---	(2) nuts
---	(2) washers
B5042	Power cord
---	Instruction manual

