

Reflow Soldering System

Model RF-810

Specifications

V4.2 2007.6.20



JAPAN PULSE LABORATORIES, INC.

RF-810 is a compact, lead-free reflow soldering system using infrared rays and nitrogen (N₂) as the primary heating source. Though it is a small, table top model, the system provides accurate and stable temperature profiles required for lead-free reflow soldering with 8 far infrared (IR) zones. Using infrared rays and nitrogen (N₂), it is capable of heating up to 350°C with excellent solder wetting, thus sufficiently meeting the needs for various types of lead-free soldering.

★Features

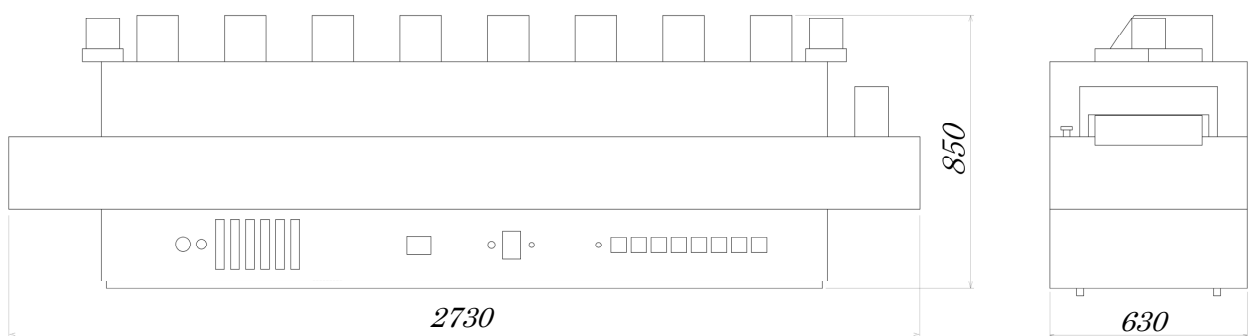
- A table top reflow soldering system in which nitrogen (N₂) can be used. It is capable of soldering up to 300mm × 300mm boards.
- Rapid heating with 8 far infrared (IR) and nitrogen (N₂) zones and a quartz heater provides desired temperature profiles.
- A temperature regulator having highly accurate PID enables you to produce stable temperature profiles up to 350°C

★Specifications

- Heating zones : 300mm(W) × 2000mm (L)
 - Zone 1 : Upper section 1600W (400W × 4)
lower section 1200W (400W × 3)
 - Zone 2 : Upper section 1600W (400W × 4)
lower section 1200W (400W × 3)
 - Zone 3 : Upper section 1200W (400W × 3)
lower section -
 - Zone 4 : Upper section 1200W (400W × 3)
lower section -
 - Zone 5 : Upper section 1200W (400W × 3)
lower section -
 - Zone 6 : Upper section 1600W (400W × 4)
lower section 1200W (400W × 3)
 - Zone 7 : Upper section 1600W (400W × 4)
lower section 1200W (400W × 3)
 - Zone 8 : Upper section 1600W (400W × 4)
lower section 1200W (400W × 3)
- Heater : Quartz tube heater IR (Wavelength: 2μm to 10μm)
- Heating method : Far infrared (IR) radiation

- Belt surface temperature balance : Difference of temperature between Belt center – both ends. $\Delta t : \text{Max} \pm 3^{\circ}\text{C}$
(This depends on our company examination method)
- Internal temperature control : -Up to 350°C
 - Internal atmospheric temperature control common to zones
- Sensor : Thermocouple k (CA)
- Hot air fan : One for each of the zones 1-8
- N_2 supply mechanism : N_2 flow meters (4)
- Cooling unit : Cross fan motors (1), forced cooling of atmosphere from the upper part of the exit
- Conveyor : 300mm(W), stainless mesh belt
Material: SUS-304
- Conveyor speed : Variable, 90mm to 1400mm/min.,
digital settings, digital indication
- Safety device : Leak/overcurrent breaker, emergency stop switch, alarm output (oven temperature, under temperatures, heater disconnection)
- Entrance/exit height : 10mm to 30mm
- Exhaust duct : 100ø
- Power supply : 1ø, 220V, 17.9Kw 50/60Hz
- External dimensions & weight : 2730mm(W)×630mm(D)×850mm(H), 360Kg.

★External dimensions



*The specifications may be changed without a prior notification.