

## FR-870B ESD SAFE

IR Preheater Digital



- Infrared preheater that provides the optimal heating effect over the whole workpiece surface
- Non-contact system enables the application of this preheater to doublesided boards.
- 2 independent switchable work grid partitions



## FR-872 ESD SAFE

Large Size IR Preheater Digital



- Large heating area 286 (W) x 350 (D) mm
- 4 independent switchable work grid partitions



## FR-830 ESD SAFE

Preheater Analog



- Compact pre-heater best suited for heat processing on localized areas
- Featuring quick heatup and less variations in temperature



### Features of FR-870B and FR-872

#### Power Mode

Control heater output from 0% to 100%.

#### T/C Mode

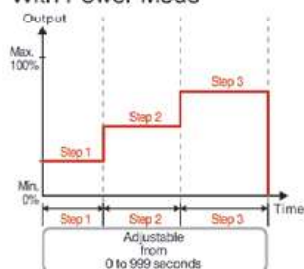
Sense the temperature of the sensor attached to the board and control to maintain the set temperature for the board.



#### Auto Mode

Auto mode provides three steps (step 1 to 3) to create an optimal heating profile for the workpiece.

#### With Power Mode

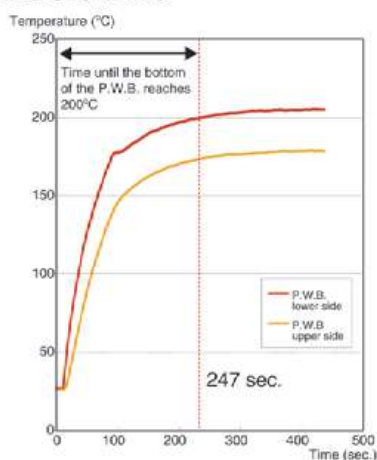


#### With T/C Mode



### Features of FR-830

#### Preheating in a short time



#### Test criteria

Measurement method	Temperature measured using sensors mounted on both the top and bottom surfaces of the P.W.B.
Distance between air outlet and P.W.B.	10 mm
Temperature setting	300°C

### Packing List

FR-870B	Unit, Thermocouple, Power cord, Heater lamp, Instruction manual
FR-872	Unit, Thermocouple, Heater, Power cord, Instruction manual

### Specifications

Model No.	FR-870B	FR-872
Power consumption	500 W (100 V) 610 W (110 V) 730 W (120 V) 1130 W (220 V) 1240 W (230 V)	1050 W (100 V) 1250 W (110 V) 1440 W (120 V) 1150 W (220 V) 1250 W (230 V)
Operation mode	Power mode, T/C mode Auto power mode, Auto T/C mode	
Setting range	Power mode: 0 to 100% T/C mode: 50 to 200°C Set time: 0 to 999 seconds	
Heating element	Carbon heater	High efficiency carbon heater
Heater area dimensions	248 (W) × 140 (D) mm	286 (W) × 350 (D) mm
Heater zone	2	4
Temperature sensor	K-type thermocouple	
Heater lamp lifetime*	2100 hours	2100 hours
Heater control	Power mode: Percentage-based system T/C mode: PID control	
External connections	Start signal input possible	
Dimensions	290 (W) × 100 (H) × 311 (D) mm	AC 100 to 120 V: 360 (W) × 97 (H) × 535 (D) mm AC 220 to 230 V: 360 (W) × 97 (H) × 524 (D) mm
Weight	3.2 kg	5.6 kg

\* Provided for reference purpose only and is not guaranteed.

### Packing List

FR-830	Unit, Power cord, Instruction manual
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### Specifications

Model No.	FR-830
Power consumption	210 W (100 V), 240 W (110 V), 470 W (120 V), 230 W (220 V), 250 W (230 V), 270 W (240 V)
Air flow	0.15 m <sup>3</sup> /min. (fan capability)
Temperature range	150 to 300°C (above the hot air outlet)
Dimensions*	140 (W) × 75 (H) × 185 (D) mm
Weight	0.75 kg

\* The height (H) is the distance from the bottom of the feet to the top of the exhaust outlet.

### Option

Part No.	Name	Specifications
B3263	Extension pipe	with lid
B2763	Hand switch	-
B1649	Foot switch	-