



### Small reflow oven for nitrogen atmosphere use

# UNI-6120

The UNI-6120 compact reflow oven is a low-oxygen (less than 100 ppm, actual results less than 50 ppm) environment achieved through nitrogen compatibility. Despite its space-saving design with a total length of 1,590 mm, it features 6 heating zones and 1 cooling zone, making it suitable for a wide range of applications including prototyping, evaluation, small-batch, high-mix assembly, and bump formation. Optimized transport speed enables profile reproducibility equivalent to that of large reflow ovens.

## Standard specifications

Number of zones	6 heating zones / 1 cooling zone	Flux recovery mechanism	Option
Heating method	Top hot air + far-infrared heating	PC outlet	1 piece (100V)
	Lower hot air + far-infrared heating	Pass line	900 ± 20mm
Maximum set temperature	Top 350°C / Bottom 350°C	Input power (*2)	AC200V 3 φ 12kVA 35A
Board effective width	50~200mm	Stable power consumption	Approximately 4kW/h
Conveying method	Pin chain / Mesh	Device dimensions (*3)	L1,590(1,890) × D1,000 × H1,330mm
Conveying speed	0.1~0.5m/min	Equipment weight	550kg
Part effective height(*1)	Top surface 10mm / Bottom surface 10mm	*1: Adjustable via the labyrinth up/down mechanism.	
Oxygen concentration meter	Standard equipment	*2: Input power is used in peak power suppression mode.	

\*3: Device dimensions ( ) are for mesh conveying.

## Option

① Automatic width adjustment mechanism	⑨ Oxygen concentration sampling across all zones
② Overheating Prevention Device	⑩ Low oxygen concentration specification (100 ppm or less)
③ Board drop sensor	⑪ Labyrinth Up/Down Mechanism
④ Simple maintenance type flux recovery mechanism	⑫ Entrance/exit conveyor extension
⑤ UPS (Uninterruptible Power Supply)	⑬ Circulation fan stop detection
⑥ High temperature compatible (maximum setting temperature 400°C)	⑭ Hood interlock
⑦ Oxygen concentration controller	⑮ Reflow checker (profile measurement unit)
⑧ N2 All Zones Supply	⑯ Various conveyors (conveyor, cooling conveyor, loader, unloader)

\*Regarding safety specifications and compliance with various standards, we can provide individual support according to your requirements.

## Contact information

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