



Compact reflow oven compatible with 12-inch wafers

UNI-6131

The UNI-6131, a compact reflow oven compatible with 12-inch wafers (transport width 310mm), boasts a compact design of less than 2m in length, yet its 6-zone heating and cooling structure enables profile reproduction equivalent to that of mass-production reflow lines. It can handle low-oxygen environments and high-temperature processes up to 400° C, and is suitable for a wide range of applications, from C4 bump formation to prototyping, development, and thermal evaluation. This high-performance reflow oven for semiconductors overturns the conventional wisdom that "reproduction is impossible in a compact size."

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 15kVA 44A
Board effective width	50~310mm	Stable power consumption	Approximately 5kW/h
Conveying method	Pin chain / Mesh	Device dimensions (*3)	L1,990 × D1,320 × H1,410mm
Conveying speed	0.1~0.5m/min	Equipment weight	800kg
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.	

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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