



Zhejiang NeoDen Tech Co.,Ltd

No.18 Tianzihu Avenue, Tianzihu Town, Anji County, Huzhou City, Zhejiang Province, China

Tel:+86-571-26266266

Fax:+86-571-26266866

IN12 Catalog



Brief Introduction

IN12 is a newly designed and manufactured reflow oven by NeoDen Tech. It has 12 temperature zones, unique heating module design, intelligent control system, built-in welding smoke filtering system, which makes it intelligent, innovative, compact and high-performance.



Features

1. Built-in welding smoke filtering system, effective filtration of harmful gases, elegant appearance and eco-friendly, more in line with the high-end use environment.
2. The control system has features of high integration, timely response, low failure rate and convenient maintenance.
3. The unique design of heating module has the characteristics of high temperature control accuracy, uniform temperature distribution in the thermal compensation area, high thermal compensation efficiency and low power consumption.
4. Hot air convection, excellent soldering performance.
5. High-performance aluminum alloy heating plate instead of heating pipe, both energy-saving and high-efficient, and transverse temperature deviation is significantly reduced compare to the similar reflow oven products in the market.
6. Heat insulation protection design, the casing temperature can be effectively controlled.
7. Smart control with high sensitivity temperature sensor, the temperature can be effectively stabilized.
8. Intelligent, the custom developed intelligent control system, easy to use and powerful.
9. Professional and unique 4-way board surface temperature monitoring system, can give timely and comprehensive data feedback in actual operation, which can effectively cope with any complex electronic products.
10. 40 working files can be stored for an easy loading during the working process.
11. PCB soldering temperature curve can be displayed based on real-time measurement.
12. Lightweight, miniaturization, professional industrial design, flexible application site, more user-friendly.
13. Energy saving, low power consumption, low power supply requirements, the ordinary civil electricity can meet the use. Compared with similar products in the market, the electricity costs that this machine can save for you within one year, enables you to purchase your second IN12.
14. The custom-developed stainless steel B mesh belt is durable and wear-resistant. Not easy to deform after long time using.



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15. Beautiful and elegant indicator design with red, yellow and green alarm function.
16. Custom-developed drive motor based on the characteristics of the B mesh belt to ensure uniform speed and long life.
17. The mesh sprocket made of high-precision profile technology and the unique support structure can effectively reduce the vibration of the PCB in the reflow zones, and easily cope with the welding of small size components such as 0201 and complex chips such as BGA/QFP/QFN.
18. The cooling zone with independent circulating air design completely isolates the influence of the external environment on the internal temperature chambers.
19. The optimized welding fume filter systems tested by the dedicated airflow simulation software can filter harmful gases as well as ensuring IN12 can keep room temperature, reducing heat loss and reducing working power consumption.
20. The unique heating plate design effectively ensures IN12 will cool down evenly once the heating is stopped, and effectively prevents the deformation and damage caused by the rapid temperature drop
21. The internal thermostat is made of stainless steel, which is environment friendly and has no peculiar smell. The inner sides are equipped with insulation cotton to effectively prevent heat loss.
22. Hidden screen design is convenient for transportation, easy to use.
23. The control system adopts imported chips, and the temperature control accuracy reaches $\pm 0.5\%$.
24. Adjustable wind speed in all heating zones and cooling zones, easily coping with various welding requests.
25. The upper temperature cover is automatically limited once opened, effectively ensuring the personal safety for the operators.
26. Exclusively designed PCB guide device to realize the direct connection between the mesh chain and the conveyor.



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Specification

Model	NeoDen IN12
Heating Zone Quantity	Upper6 / Down6
Cooling Fan	Upper4
Controller	VGUS Microcomputer
Transmission	Mesh Chain Drive
Heating Type	Nichrome Wire & Aluminum Alloy Heating
Conveyor Speed	50~600 mm/min
Temperature Range	Room temperature~300℃
Temperature Accuracy	1℃
PCB Temperature Deviation	±2℃
Max Soldering Width (PCB Width)	350mm
Length Process Chamber	1354mm
Heat-up Time	30 min
Max Soldering Height (mm)	35mm (includes PCB thickness)
Operation Direction	left→right
Electricity Supply	AC 220v/single phase
Starting Power	2.4kw~4.8kw (adjustable)
Typical Working Power	approx. 2kw(1.5mm fiberglass PCB)
Machine Size	L2300mm×W650mm×H1280mm
Packing Size	L2420mm×W730mm×H1430mm
Net Weight	300KGS
Gross Weight	383KGS

NeoDen®

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