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## FOURS DE REFUSION NOVASTAR TYPE GF-125

# GF-125 HC/HT

## Five (5) Zone Horizontal Convection™ Reflow Oven

### Your Economic Solution for:

- Prototyping
- Product Development
- Curing Applications
- Short Run, High Mix Manufacturing Applications



Forced Air Horizontal Convection Heating provides uniform temperature profiling across the entire PCB board.



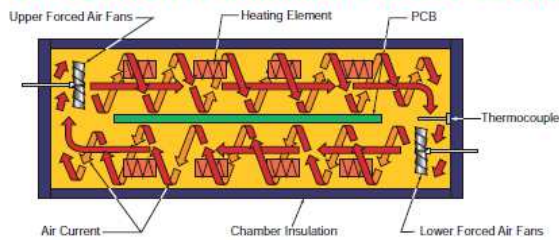
### Convection Reflow Oven Features:

- Lead and Lead free Compatible
- 100% forced air Horizontal Convection™ oven \*\*
- 5 vertical heating zones plus cooling zone
- Integrated enclosed stand with 12" wide conveyor
- Stainless steel conveyor and chambers
- Easy lift clamshell design
- Viewing windows with lighted interior
- PC Interface/Windows® software option
- Status Light Tower Option
- Computer controller with:
  - 100 menu profile storage
  - 7 day programmable timer
  - Real time graphic temperature profiler
  - ISO 9000 SPC fault monitoring and reporting
  - Battery memory backup
  - English or metric units
  - Password protection
- Nitrogen gas inerting option

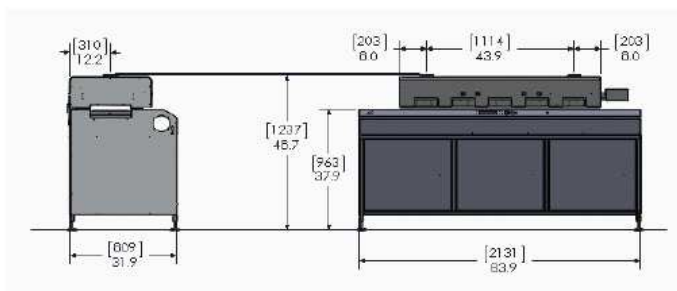
## GF-125-HC/HT with HORIZONTAL CONVECTION™

With the patented\*\* Horizontal Convection™ air is circulated horizontally in one direction above the board, and in the opposite direction below the board. This circular air current, or "cyclone" around the board, produces extremely uniform temperature profiles across the board. The model GF-125HTs are high temperature ovens which are compatible with all lead and **lead free soldering** applications.

### GF-125HC/HT chambers cross section



The GF-12/120/125 series heating profiles are superior to other ovens in their class. Each of the vertical heating zones is programmable through the controller which stores up to 100 profiles. The oven includes a real-time temperature profiler port. When a thermocouple is attached to the PC board, the actual board level temperature profile is displayed graphically as the board travels through the oven. The conveyor speed, heating elements, cyclonic generators and cooling fans are all programmable. The oven also features SPC fault monitoring & reporting, battery backup and a 7 day timer for automatic machine start-up.



### PRODUCT SPECIFICATIONS:

Specifications	GF-125 HC/HT
Max. PCB Width	304mm (12 inches)
Max. PCB Height	35mm (1.375 inches)
Heating Zones	5 top, 5 bottom
Max. Temperature	400°C (752°F)
Heated Tunnel Length	1423mm (56 inches)
Convection	Forced air horizontal convection
Conveyor	Mesh belt
Conveyor Extensions	Yes
Venting	Two (2) 102mm (4") dia. Flanges, 200 CFM each
Cooling Station(s)	One (1)
Cooling Zone Fans	Two (2)
Cyclonic Generators	Ten (10)
Nitrogen Option	Option
PC Interface	Option
Heater (Peak) Power	14.5 kW
Power Requirements	220 VAC, 50/60 Hz, 3Ø, 70 Amp
Length	2133mm (84 inches)
Width	813mm (33 inches)
Height	1245mm (49 inches)



#### PAK-10 Profile Kit Option

The temperature profiling accessory kit includes all you need to profile PC boards, through your reflow oven. It is compatible with any oven or profiling system that uses standard K-type thermocouples.

### Nitrogen Inerting Option

All GF ovens have a nitrogen gas inerting option. With the isolated chamber design (recirculation of atmosphere within reflow zone) low oxygen levels are maintained while conserving nitrogen consumption.

- Decreases wetting angle
- Increases flux efficiency
- Enhances fine pitch solder fillets
- Improves surface finish of solder joints