# NICOS GROUP Inc.

**80 Oak street, Norwood NJ 07648**

**Phone. 201 768 9501 Fax 201 768 9504**

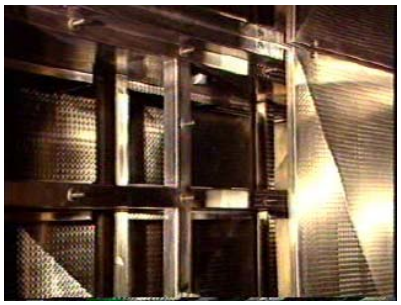
**www.NicosGroup.com e-mail: sales@NicosGroup.com**


## *Class 100 Oven*
## *Dry Heat Sterilizers/Depyrogenizer*

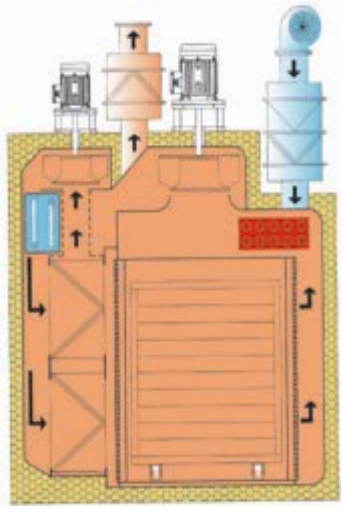
We say a true Class 100 because we can guarantee Class 100 over the entire temperature range from heat up to cool down--not just at room temperature or during the sterilization/depyrogenation phase.

All ovens meet or exceed the latest cGMP requirements:

- The entire framework is built in tubular 304 SS.
- The chamber and the doors of a standard oven are polished to a roughness average (RA < 20 micro inches, which exceeds the industry standard execution)
- The ovens are enclosed with removable panels with built in access doors 304 SS, having 180 grit (RA 36-45 micro inches) satin finished.



**Excellent heat distribution due to the jacket applied at the chamber's bottom. The temperature deviation in the chamber does not exceed ±3-4°C.**



HEPA filters on the recirculation wall have a gasketless vacuum sealing system, which eliminate particle shedding and filter gasket maintenance.

HEPA filters installed on the recirculation wall supplied with ICOS ovens are "pre-cured" and tested with specially designed equipment custom manufactured by ICOS. They are specially designed as per ICOS specification, and are the only ones worldwide which can guarantee Class 100 conditions during the entire cycle and not just at room temperature

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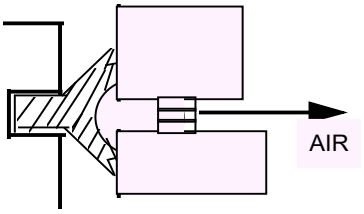
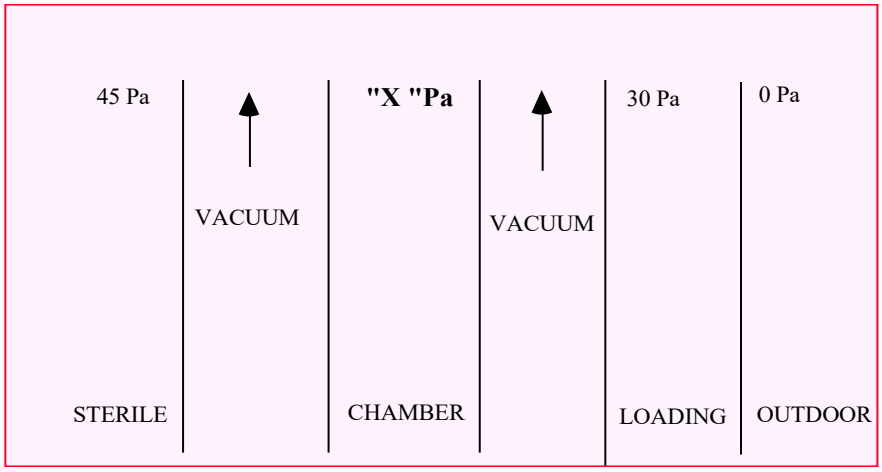
## The doors are sealed with a patented system which:




- Improves the bond between the seal profile and the sealing surface.
- In the event of a leak due to seal wear, whether inward or outward, the contamination is drawn away from the loaded chamber by the vacuum system.
- Extends the duration of the door gaskets up to three to four times due to lack of mechanical stress.
- Allows maintaining constant pressure in the chamber and accordingly constant temperature.

The recirculation air is distributed across the chamber uniformly by means of the air inlet wall which has fixed perforations. On the outlet wall the perforations increase in size from the top to the bottom to maintain constant air velocity across the chamber. Once the unit is built, it does not need further adjustment of the air flow across the chamber. In our ovens there are no deflectors which must be adjusted (bent) constantly.

**All standard I equipment is furnished with 21 CFR part 11 compliant control systems. All standard ICOS equipment is provided with Siemens or Allen Bradley PLC, industrial grade PC and real time printer (Ifix platform available)**