



NICOS GROUP Inc.

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Proudly Represented by:
AWS Bio-Pharma Technologies, LLC
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AV/S & AV/L ICOS AUTOCLAVES

ICOS manufactures scores of standard sized of Steam, Air/Steam mixture, Superheated Water, autoclaves, ranging from 150 liters (5.3 cu.ft) to 7,000 liters (141 cu.ft) .



All autoclaves built by **ICOS** meet or exceed the latest cGMP requirements. Aside from the standard models, **ICOS** is capable of manufacturing customized autoclaves which can satisfy any particular requirements, regarding the chamber size, performance, level of automation, etc.

Here is an example of **ICOS'** capabilities: although the superheated water and air/steam mixture autoclaves are highly specialized units, **ICOS** is able to manufacture an autoclave which can combine one of these two special cycles with the conventional steam sterilization cycle. Furthermore, **ICOS** can even combine all of the three cycles mentioned above (steam, superheated water, and air/steam mixture sterilization) in one single unit.

Below are just a few of our autoclave features:

- The chamber and the door(s) of a standard autoclave are polished to a roughness average (RA) ≤ 20 micro inches which exceeds the industry standard.
- Excellent steam distribution. All of our customers, during validation have achieved temperature deviation not exceeding $\pm 0.1^{\circ}\text{C}$.
- The Autoclaves are supplied with full jacket which is dimple welded to the chamber, unlike continuous channels used by other manufacturers.



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- The door frames are built in solid 316LSS. The door frames are manufactured with a dovetail shaped groove for the door sealing gasket. The door is sealed by pressurizing the gasket by sterile air or pure steam. The gasket is retracted into the groove when the pressurization is excluded without the need of pulling vacuum.
- There are five different types of door systems available, which can satisfy any and all particular requirements. The most used and the least expensive is the sliding door with its unique sealing system, which guarantees a long gasket life. Opening/closing of this door is done by a purely heavy-duty mechanical system consisting of a knuckled threaded screw and nut.

- All of the pipe work except for the instrument air is built in 316 L SS.
- The entire framework is built in tubular 304 SS.
- The autoclaves are enclosed with removable panels with built in access doors 304 SS, having 180 grit (RA 36-45 micro inches) satin finished.
- The units are customized for the worldwide marketplace by using readily available components and preferred components with a worldwide network of distributors.
- All of the components which are in direct contact or may be in direct contact with the sterile side during normal operation or maintenance, are built in SS. There is not a single part used that is made of carbon steel, cast iron, bronze, brass, etc., which can be seen in some of our competitors autoclaves.



All standard ICOS 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)

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