IRIS ANALYTICAL





STEAM STERILIZERS/AUTOCLAVES

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Iris Tabletop Autoclaves, generally of a front-loading design, are routinely used in the laboratory for sterilizing culture media, laboratory waste, glassware and other apparatus. Typically, the Tabletop Autoclaves are used in microbiology laboratories in many sectors, including the food and beverage industries, pharmaceuticals, universities and research establishments. Because of their flexibility, small size autoclaves also have a clinical application and are therefore often used in medical surgeries, dentists, and veterinary practices.

Double safety protection system prevents the cycle from starting if the door is not correctly locked. This system also prevents the door from opening if the pressure inside the chamber is not equal to atmospheric pressure outside the chamber. Pressure safety valve prevents over pressure in the chamber and steam generator. The power is automatically cut if a short circuit or electrical fault occurs. Detect and identify the exact cause of any problem, and to issue a specific error code to the operator. Water level main switch in the main tank is used to controlling the minimum and maximum water level. Its safety features provide automatic warning for maintenance.

The printer and USB option provide option to print and transfer all sterilization data to USB stick, and can be ready directly in any PC and stored electronically.

Iris Tabletop Autoclaves are manufactured with 316L steel pressure vessels and specially designed control systems to provide both the flexibility and precision that are required in today’s laboratories and sterilization facilities.

Iris Tabletop Automatic autoclaves reduce the risk of sterilizer failure (caused by operator error) by eliminating the guesswork when operating a sterilizer. The operator simply selects the cycle that matches the instrument load they are sterilizing, and the sterilizer automatically fills, heats, sterilizes, vents, and dries - completely on its own. These autoclaves are preferred in busy laboratories, allowing the operator to do other more important tasks.

Tabletop Autoclave ITA-200 Series

Tabletop Autoclave ITA-200 Series



The ITA-200 front loading ‘Benchtop’ autoclave range is available in four sizes. These units require no plumbing, and only a standard single phase power supply. A 5.7-inch colour touchscreen with integrated USB data port. Electro polished stainless steel chamber. Simple pre-post vacuum option available with adjustable time and temperature range. The ITA-200 is available in four sizes, 12l, 16l, 18l, and 23liters and is one of the most energy efficient autoclaves available. The pressure vessel design ensures the absolute minimum amount of water is used during a sterilization cycle, which not only means comparably low power consumption, but also very quick heating and cooling. A benchtop autoclave has a variety of uses, being suitable for sterilizing laboratory glassware, plastic receptacles and containers, petri dishes, un-wrapped instruments, media, and occasional discard loads.

In addition to laboratory use, it is widely used in scientific research, process manufacturing, veterinary and medical healthcare industries.

- LCD display panel
- Adopt Motorola sensor for intelligent and precise control as well as fault auto-detection technique
- Precise temperature control (±0.5℃) during sterilization process
- Built-in program to clean the pipelines automatically and avoid the blockage
- The LCD can display the sterilization data and relevant curve clearly
- Built-in water quality, water shortage and water overrun monitoring features
- Safety value, double lock, mechanical lock, air lock and multi-level protection to ensure the pressure is safe
- Optional for printer, built-in USB module to output the sterilization data via USB Flash.
- Widely applied in orthopaedics, ophthalmology and beauty etc. industries.
- Micro-computer control, imported Motorola sensor, high accusation and precision.
- During the sterilizing procedure, the range of temperature is ±0.5.
- Automatic cleaning program in the steamer, avoid the occlusion.
- Display the sterilizing procedure date and curve.
- Water quality monitoring, indicate the water tank condition, automatic notice when used water tank is full.
- Safety valve, double lock, mechanical lock, air lock, multi pressure safe protection device.
- Printer is optional, record the sterilizing procedure with USB.
- Applied with orthopaedics, ophthalmology, beauty industries and other area.
- Built-in USB interface, can store up to 2000 data cycles
- Sterilisation data can be transferred to computer/printer
- New Tabletop Water tank design
- Pressure, mechanical, electronic door lock system, completely cut off hidden danger.
- Double temperature monitoring system, analyze and compare the different temperature of the tank, to guarantee and control every heating stage accurately.
- Adopt high analytical pressure sensor, the pressure can accurate to 0.001 bar, in the mean time we add sampling system to improve the accuracy of information.

- Circular heating reaches minimum temperature difference. Pressure-prevention and corruption-resistance makes it highly reliable. Alloy heating loop protects against damage by no-water heating.
- High efficiency double pump, low noise, vacuum ability can reach -0.92 bar, double head ensure the balance during working and stable vacuum state in the chamber.
- Raise 10 times temperature controlling precision system, can accurate to0.1°C.
- Stable ULKA water pump
- Pass by all kinds of bacteria test, come with B&D testing system, vacuum testing system , Helix testing system, can examine every parameter index, to guarantee the validity of sterilization.
- Original fuzzy control system driven by steam generator adopts 0WM(pulse with modulation), able to discriminate the fine differences in temperature allowances and to adjust the modulated waves correspondingly thus making temperature rise at the same speed each time
- High quality CEME imported valve

Model	ITA-212		ITA-216		ITA -218		ITA-223	
Chamber Volume	12 L		16 L		18 L		23 L	
Insulation Class	class B							
Control Accuracy	Temperature 0.1 ?, Pressure 0.001 bar							
Sterilization Level	Class B							
Sterilization Temperature	121?,134?							
Special Sterilization	HIV/AIDS, hepatitis b (HBV), mad cow virus and spore.							
Drying Procedure	A strong negative vacuum drying							
Operation Interface	Adopt the operation of the new interface LCD screen can display temperature and pressure time running state, fault alarm information, etc							
Test system	Bowie & Dick Steam penetration test, Vacuum test, Helix test							
Control Accuracy	Temperature 0.1°C, pressure 0.1 K pa.							
Sterilization Data	External USB connection , (printer is optional)							
Multiple Safety	Interlock protection device: Safety valve, Pressure interlock, door alarm, automatic breakdown check. Over temperature and pressure protected.							
Water System	Internal open water tank, easy to clear.							
Sterilization Configuration	Activities tray rack, match 3 pallets							
Display	LCD display							
Working Temperature	134 °C							
Working Pressure	2.1 bar							
Warm Up Time	0 to 7 minutes							
Pump down Time	10 minutes							
Air Intake Time	4 minutes							
Working Time	6 minutes							
Drying Time	18 minutes							
Quick Drying Time	9 minutes							
Total Time	40 minutes							
Security	Safety valve, pressure system, mechanical and electric lock. Self-diagnosis, pressure-protection device, heating-exceeding							
Test Programmers	Helix/BD Test; Vacuum Test							
Drying Progress	3-times pulsation vacuum, temperature less than 0.2% after finish							
Interface	USB/External Printer							
Power Consumption	1600 W		1700 W		1800 W		2000 W	
External Dimensions	625x425x456 mm		625x425x456 mm		625x425 x456 mm		625x425 x456 mm	
Chamber Dimensions	200x360 mm		230x360 mm		250x360 mm		250x450 mm	
External Dimensions	616x460x420 mm		616x460x420 mm		616x460x420 mm		616x460x420 mm	
Net Weight	-		-		-		-	
Shipping Dimensions	655x545x450 mm		655x545x450 mm		655x545x450 mm		750x545x450 mm	
Gross Weight	-		-		-		-	
Electrical Requirements	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Catalogue No.	580050501	580050502	580051001	580051002	580051501	580051502	580052001	580052002

Tabletop Autoclave ITA-300 Series

Tabletop Autoclave ITA-300 Series



The ITA-300 front loading ‘Benchtop’ autoclave range is available in three sizes. These units require no plumbing, and only a standard single phase power supply. Build in LCD display with 8 programs automatically feeding water and draining water system which is easy to operate and complete automatic operation, check and monitor by computer.

- LCD display, 8 programs automatic feeding water and draining water system which is easy to operate
- Electropolished stainless steel chamber
- Simple pre-post vacuum option available
- Adjustable time and temperature
- Exterior is designed with fully molded ABS plastic
- New Tabletop Water tank design
- Pressure, mechanical, electronic door lock system, completely cut off hidden danger
- Double temperature monitoring system, analyse and compare the different temperature of the tank, to guarantee and control every heating stage accurately.
- Adopt high analytical pressure sensor, the pressure can accurate to 0.001 bar, in the mean time we add sampling system to improve the accuracy of information.
- Circular heating reaches minimum temperature difference. Pressure-prevention and corruption-resistance makes it highly reliable. Alloy heating loop protects against damage by no-water heating
- High efficiency double pump, low noise, vacuum ability can reach -0.92 bar, double head ensure the balance during working and stable vacuum state in the chamber
- Raise 10 times temperature controlling precision system, can accurate to 0.1°C
- Pass by all kinds of bacteria test, come with B&D testing system, vacuum testing system
- Original fuzzy control system driven by steam generator adopts 0WM(pulse with modulation), able to discriminate the fine differences in temperature allowances and to adjust the modulated waves correspondingly thus making temperature rise at the same speed each time

Model	ITA-314	ITA-317	ITA -323
Chamber Capacity	14 L	17 L	23 L
Sterilizer Construction	121/134		
Stainless steel instrument container	Stainless steel SUS-304		
Dry Procedure	Vacuum drying		
Minimum Desk Dimension	480×350 mm	480×400 mm	480×500 mm
Heater	1600 W	1800 W	2200 W
Net Weight	42.5 kg	47 kg	53 kg
Gross Weight	50.5 kg	55 kg	62 kg
Chamber Dimensions	250×270 mm	250×350 mm	250×490 mm
Packing Dimensions	630×600×500 mm	630×600×500 mm	830×600×500 mm
Overall Dimensions	480×480×420 mm	480×530×420 mm	480×690×420 mm
Electrical Requirements	-	- -	
Catalogue No.	5801005-04	5801010-04	5801015-04

Tabletop Autoclave ITA-400 Series

Tabletop Autoclave ITA-400 Series



The ITA-400 front loading ‘Benchtop’ autoclave is pulse vacuum type and range is available in single sizes of 24 litres chamber capacity. These units require no plumbing, and only a standard single phase power supply. Build in 7 Sterilization cycles + 2 User definable cycles + 2 Test programs.

- LCD display, 7 Sterilization cycles + 2 User definable cycles + 2 Test programs
- Full-Automatic operation, check and monitor by computer
- printer to note the sterilization process in details
- Automatic safety door lock system
- Pulse Vacuum
- The water setting is fully automatic
- Connector for Printer sets, SD Cardas an optional accessories
- PID control

Model	ITA-424
Volume of Chamber	24 L
Air Expulsion	Pulse Vacuum
Sterilization Temp	121? (1.1 kg/cm²) / 134? (2.1 kg/cm²)
Dry Function	Adjustable 3 to 30 minutes
Water Reservoir	Supply tank : 4.5L / Discharge tank : 2.5L
Sterilization Programs	7 Sterilization cycles + 2 User definable cycles + 2 Test programs
Standard Accessory	Sterilization frame, sterilization network disk (375x220x20mm x 4 drive, Note: 3Kg / plate) SUS304 sterilization clip x1 branch network disk removed
Optional Accessory	Printer sets, SD Card
Power Consumption	2000 W
Net Weight	57 kg
Gross Weight	60 kg
Size of Chamber	260x455 mm
External Dimensions	560x665x400 mm
Electrical Requirement	AC 230V±10% 50HZ / 60HZ, 9A
Catalogue No.	580150502

Benchtop Autoclave/Steam Sterilisers ITA-700 Series

Benchtop Autoclave/Steam Sterilisers ITA-700 Series provide the broadest range of steam sterilizers and has a solution available to maximize department productivity and optimize workflow. It can be used to Inactivated AIDS (HV), hepatitis B (HBV) mad cow virus and spores. The pressure door is auto locking device provide easy option for such a cost effective autoclave. Design with water supply and detection system that is used to clean disinfection with functions of water quality detection and debris filter. Mainly used in Dental clinic, medical, laboratory, Beauty Shop applications. Equipped with excellent features contain relief valve, pneumatic locking, and breakdown self-checking system with LCD display of pressure and temperature.



- Versatile and compact design structure
- Corrosion resistant
- Temperature stability
- European Standards (EN 13060)
- Build in LCD display
- Automatic door locks
- Smart and advance operating interface
- Available with pipe connection
- Pipe materials is metal constructed provide excellent durability and consistency, bear at high temperature
- Automatic door lock system
- Water supply and detection system

Model	ITA-745
Chamber	45L
Sterilization Temperature	121°C, 134°C
Tray	2-layer movable tray
Level	European Class B Standard
Safety	Safety valve, pneumatic lock, fault self-checking system
Test	Bowie & Dick steam penetration test, helix spiral test, Vacuum test, water quality testing
Drying program	Powerful vacuum drying, the remaining humidity of the instrument is <0.2%
Display	LCD
Applications	Inactivated AIDS (HV), hepatitis B (HBV) mad cow virus and spores
Interface	printer and USB
Power Consumption	3500 VA
External Dimension	610×840×580 mm
Internal Dimension	319x620 mm
Net Weight	100 kg
Electrical Requirements	AC 220V/50Hz
Catalogue Number	580300502

Steam Sterilisers/Autoclave ITA-800 Series

Steam Sterilisers/Autoclave ITA-800 Series provide the broadest range of steam sterilizers and has a solution available to maximize department productivity and optimize workflow**.** The ITA -800 Series B-Class steam sterilizer is used to sterilize the medical devices including a narrow and long lumen (hollow loads) used frequently in the health care institutions and general medical supplies effectively. Provide 6 kinds of basic cycle program for sterilizing the medical instruments wrapped or unwrapped, the synthetic resins products, the rubber products, the textile products, the glass products, the liquids contained in the glass bottle for Creutzfeldt-Jakob Disease and 2 kinds of test program for checking the ability of air removal from the chamber.



- Come with panel printer to record files for obtaining the traceability later
- Come with safety system for the safety of workplace
- European Standards (EN 13060)
- Automatic door system locks and rely on electricity
- Support USB or LAN networks
- Provide automatic safety valve
- Comes with memory backup of useful data
- Automatic sterilization result search features as per user need
- Automatic error detection function
- Audible alarm function
- Build in LCD display
- Provide 6 kinds of basic cycle program for sterilizing the medical instruments wrapped or unwrapped, the synthetic resins products, the rubber products, the textile products, the glass products, the liquids contained in the glass bottle for Creutzfeldt-Jakob Disease
- Provide 2 kinds of test program for checking the ability of air removal from the chamber
- Allows users to change the parameters of cycle program
- Built-in exterior small steam generator to vaporize feed water supplied from the reservoir instantly and the generated steam is injected into the chamber as a sterilizing media
- Secure chamber from contamination

Model	ITA-820	ITA-840	ITA-860
Chamber Dimension	255x447 mm	300xL557 mm	302x450x302 mm
Chamber Volume	22 L	35 L	40 L
Maximum Pressure	2.4 bar	2.4 bar	2.4 bar
Minimum Pressure	-1.00 bar	-1.00 bar	-1.00 bar
Material	STS 316L		
Maximum Temperature	138.0? / Test Pressure : 5.13 bar	138.0? / Test Pressure : 5.13 bar	138.0? / Test Pressure : 5.13 bar
Tray	195x375x18 mm	236x483x25 mm	288x410x18 mm
Collection Container	6L / 6L(Full water level)	7.5L / 7.5L(Full water level)	7.5L / 7.5L (Full water level)
Operating Temperature	121 to 135?		
Display Resolution	0.1?		
Sterilant	Saturated Steam		
Air Removal Method	Vacuum		
Air Removal Device	Vacuum Pump (Diaphragm type)		
Air Filter	Filtration efficiency: 99.999% for 0.3? particles		
Controls	Microprocessor		
Display	Graphic LCD(LED back lighting), Resolution; 128×64 dots		
Panel Printer (Optional)	Direct Thermal Printing type, Printing Paper Roll: W58 x Ø40 mm, L=13 m		
Power Consumption	2700 W	2900 W	3300 W
Overall Dimension	513 x 625 x 442 mm	615 x 757 x 505 mm	615 x 757 x 505 mm
Net Weight	52 kg	67 kg	78 kg
Electrical Requirements	AC 220V, 50/60Hz	AC 220V, 50/60Hz	AC 230V, 50/60Hz
Catalogue Number	580350502	580351002	580351502



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