

Laboratory Autoclaves



Serve Health Forever



Categories: Laboratory



BASIC FUNCTION: The autoclave uses saturated steam as sterilizing medium. First stage is a steam pulsation vacuum method to effectively remove all air from the chamber. After sterilizing, it slowly exhausts to gradually reach atmospheric pressure. Various cycles are available with different sterilizing times and temperatures.

APPLICATION: Our lab series autoclaves are equipped to complete mainly "Liquid Cycles" at various times and temperatures.

DOOR CONFIGURATIONS:

Type of Door	Single Door	Pass Trough System
Automatic Sliding Door:	JSD Series	JSDS Series

Autoclave Stress Corrosion Cracking induced by Chlorides. (ASCC)

Autoclave stress corrosion cracking induced by chlorides frequently causes problems in applications where standard austenitic stainless steels are being used. This problem can be solved by the use of duplex stainless steels. Medi-Clave is proud to be a leader in this field introducing the all new Duplex Stainless Steel autoclave chamber intended for use where high levels of chlorides are present as found in certain laboratories and coastal conditions. The duplex stainless steel autoclave chamber drastically improves life expectancy and eliminates stress corrosion cracking commonly found in high heat and high chloride conditions, Medi-Clave can be contacted regarding any related enquiries.

ACCESSORIES:

All autoclaves are PLC controlled, fully automatic and can be equipped with flush mounted cycle printers. All autoclaves can be equipped with Internal Steam Generators. All autoclaves sized 600lts and above are equipped with a carriage and trolley set. All autoclaves sized below 600lts are equipped with two internal sliding trays. All autoclaves are equipped with soft touch screens with a clear two line LCD display. All autoclaves are equipped with emergency stop buttons. All autoclaves are manufactured with accordance to the South African SABS 982-1990 standard specifications for high-pressure high-vacuum steam sterilizers. All autoclaves have a five year pressure vessel integrity warranty. All autoclaves can be equipped with high quality solenoid or pneumatic valves. All autoclaves are equipped with rapid drawing vacuum-pumps. All autoclaves are equipped with the most sophisticated water saving technics available. All pass through autoclaves can be fitted with a SPF seal to prevent bacteriological migration. In category III laboratories an effluent retention system would also be necessary.

Laboratory Vacuum Sterilizer (Sliding Door or Mechanical Door Series)

SPECIFICATION	JSD 160	JSD 200	JSD 400	JSD 600	JSD 1200	JSD 2000
MAIN PARAMETER						
Volume (m ³)	0.16	0.2	0.4	0.6	1.2	2.0
Inner size (LxWxH)	745x460x460	970x460x460	915x660x660	1240x660x660	1530x750x1050	1700x1000x1200
Outer size (LxWxH)	1300x850x1800 (Single door) 1110x850x1800 (Double door)	1880x850x1800 (Single door) 1325x850x1800 (Double door)	1680x1200x1950 (Single door) 1225x1200x1950 (Double door)	2000x1200x1950 (Single door) 1580x1200x1950 (Double door)	1785x1450x1900 (Single door) 1870x1450x1900 (Double door)	2060x2000x2000 (Single door) 2100x2000x2000 (Double door)
Steam (Kg)	0.4-0.6 Mpa 13Kg	0.4-0.6 Mpa 16Kg	0.4-0.6 Mpa 23Kg	0.4-0.6 Mpa 34Kg	0.4-0.6 Mpa 72Kg	0.4-0.6 Mpa 114Kg
Water (Lt)	40lt	45lt	55 lt	60lt	65lt	70 lt
Compressed air (mPa) where applicable	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8
Power: Unit/Boiler	3Kw/18Kw	3Kw/18Kw	3Kw/36Kw	3Kw/36Kw	3Kw/72Kw	4.5Kw/144Kw
Net Weight (Kg)	600	750	1100	1500	2100	3000
Design Pressure (kPa)	245	245	245	245	245	245
Design Temp (C°)	141	141	141	141	141	141