

enable the operator to select programs, start and stop the cycle, and allows a trained technician to preset the main parameters using an access code. The control system is easy to use and programmable.

Printer (Optional)

For a clear and concise documentation of cycle process the control unit is provided with a dot matrix printer which is connected to the microprocessor. The printer generates a hard copy printout of the relevant information concerning the cycle operation such as the temperature, pressure, Vacuum, sterilization and drying time, number of cycles/number of pulsing etc. In case of an uncompleted cycle, the printout indicates the cycle failure and the cause of the failure (optional). An additional graphic printer is optional.

Cycle available (Automisation)

Gravity 121°C / Gravity 134°C / HPHV 121°C / HPHV 134°C / Bowie Dick Test / Leak Test

The sterilizer is designed to operator up to (6) six standard sterilization programs between 105° C and 137° C and (2) two test programs optional. All programs are selected by using the numeric keypad, and all programs are programmable. Air removal, sterilization and drying stages can be reprogrammed easily.

After sales service

'MODIS' after sales service provides service all over India with a team of trained technicians who provided service and spares

Table specification for Rectangular sterilizer

Model		MER-7	MER-16	MER-24	MER-30	MER-36	MER-45	MER-98	MER-128
Chamber Dim MM/ (Inches)	W	450 (18)	600 (24)	600 (24)	600 (24)	900 (36)	900 (36)	1050 (42)	1200 (48)
	H	450 (18)	600 (24)	900 (36)	900 (36)	900 (36)	900 (36)	1200 (48)	1200 (48)
	D	900 (36)	1200 (48)	1200 (48)	1500 (60)	1200 (48)	1500 (60)	2100 (72)	2400 (84)
Chamber Vol	Lit	182	432	648	810	972	1215	2646	3456
External Dimension	W	650	800	800	800	1200	1200	1250	1400
	H	1800	1800	2000	2000	1800	1800	2000	2000
	D	1200	1400	1400	1700	1400	1700	2300	2600

Utilities Consumption / Requirements

Power	9 kw	18 kw	18 kw	36 kw	36 kw	36 kw	D.S.	D.S.
Boiler (Lit)	85	90	95	100	100	100	-	-
Electrical Requirement	24 A	42 A	42 A	73 A	73 A	73 A		
Phase	3	3	3	3	3	3		
(for Automisation) Compressed Air Requirements : Pressure 6-8 Bar, 3/8" thread connection.								

Special Electrical Requirements available according to individual order.

The Modis Horizontal sterilizer can be supplied according to any dimension required by the customer. Due to continuous marketing research and development, specifications affecting the appearance, utilities or other cosmetic aspect of the autoclave may be subject

Authorized Dealer

WELLDONE TECHNOLOGIES

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Other Products

• Cylindrical steam Sterilizer • Vertical Autoclave
• Table top flash Sterilizer • Ultrasonic cleanser
• Dryer • E.T.O Sterilizer • C.S.S.D Furniture

Horizontal Rectangular Sterilizer



MODI
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..... Rectangular

Introduction

The ever growing demand for more efficient and advanced hospital, industrial and scientific equipment with higher capacity and better performance, providing safe and effective sterilization, has led the development of 'MODIS' sterilizers throughout the years.

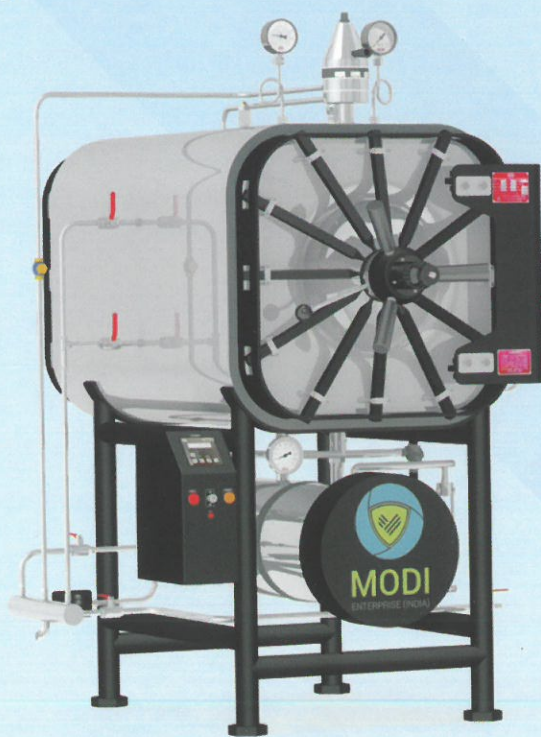
The 'MODIS' company has been designing and manufacturing a wide range of sterilization equipment for more than 30 years.

'MODIS' product serve as standard equipment in :

- Hospital complete C.S.S.D.
- Day care facilities.
- Laboratories.
- Research Industries.
- Animal care facilities.
- Medical Waste Treatment facilities.
- Pharmaceuticals & Micro-biological Industries.
- Biotechnology, Tissue Culture.
- Agriculture University.



HPHV Sterilizer



Gravity Sterilizer

Application

The Autoclave operates with saturated steam as the sterilization agent, working at pressure in the range of 22-32 p.s.i. (1.2 - 2.2 kg/cm²) and temperature in the range of 115°C to 135°C. Special temperature setting are available on request.

The sterilization method substantially shortens the sterilization cycle, achieved by evacuating the air with a powerful ejector / vacuum pump, combined with steam pulsing. A 0.2 micron sterile air filter is provided to filter the air, which equalize the vessel pressure after the drying cycle. 'MODIS' offers a large range of Sterilizer models from Standard 50 liter to 2000 liter size, as well as varied chamber dimensions according to the specific use and nature of Product requirements.

Standards

The sterilizers are manufactured as per I.S.I codes and bearing I.S.I Mark No. IS: 3829, Part-I & II endorsing the highest quality.

..... Horizontal Rectangular Autoclave / Sterilizer

Centralised Control point

- Multi-port operating valve : control for the entire cycle of the operating.
- Permits two exhaust speeds, fast & slow.
- Easy to read pressure & temperature.
- Smooth operation.

Safety Features

- Hinge type Single / Double door
- Self locking safety door cannot be opened while chamber is under pressure.
- Gauge glass tube with automatic closing safety valve.
- Heat resistant silicone door gasket.
- Pressure switched (on electric models) economise power consumption.
- Low water protection system, to protect the electric heaters.
- Temperature gauge / Digital temp. Indicators / controllers (optional)
- Vacuum breaker / dryer.
- Safety valve for the jacket / boiler.
- Hydraulically test to 2.5 times the designed working pressure.
- Powerful ejector for drying.
- Insulated with resin bond fibre glass wool covered with M.S./S.S. sheet.

Options

- Heating : Direct steam, Electric OR LPG operated steam generators.
- Front pane model with inbuilt thermal printer
- Fully automatic operation through a MICROSTER PROCESS with manual option
- Digital temperature / timer / alarm display for semi-automatic operation.
- Cycle with pre-vacuum & post vacuum through vacuum pump & condenser option.
- Dot-matrix / Thermal printer / Thermograph to record temperature and time.
- Double door type models
- Stainless Steel flush mounting on sterile side
- Carriages, trolleys, baskets etc. for easy movement of goods.

Operation

- Direct Steam : 1.2 kg / Cm² for High Pressure model or 2.1 kg / Cm² for High Speed Model.
- Electricity : 3 Phase 440V, 50Hz AC supply.

Microprocessor / P.L.C. with touch screen H.M.I. based control system

The control system is based on 'state-of the art' microcomputer technology, guaranteeing high reliability and safe operation. The computerized control unit ensure a fully automatic operation throughout the entire cycle. No future Intervention is necessary after selecting the parameters and pressing the start button. The main cycle phase and the machine's actual parameters are displayed on the LCD panel during the cycle progress. The main physical parameters of the process, i.e. temperature, pressure, time and jacket pressure are controlled and displayed. The keyboard located on the front panel enable the operator to select programs, start and stop the cycle, and allows a trained technician to preset the main parameters using an access code. The control system is easy to use and programmable.



Fully Automatic Sterilizer

pressure, time and jacket pressure are controlled and displayed. The keyboard located on the front panel enables the operator to select programs, start and stop the cycle, and allows a trained technician to preset the main parameters using an access code. The control system is easy to use & programmable.

Printer (Optional)

For a clear and concise documentation of cycle process the control unit is provided with a dot matrix printer which is connected to the microprocessor. The printer generates a hard copy printout of the relevant information concerning the cycle operation such as the temperature, pressure, Vacuum, sterilization and drying time, number of cycles/number of pulsing etc. In case of an uncompleted cycle, the printout indicates the cycle failure and the cause of the failure. An additional graphic printer is optional.

Cycle available (Automisation)

The sterilizer is designed to operate up to (6) six standard sterilization programs between 105° C and 137° C and (2) two test programs optional with 3 level password. All programs are selected by using the numeric keypad, and all programs are programmable. Air removal, sterilization and drying stages can be reprogrammed easily. Cycles Available are Gravity cycle, HPHV cycle, Bowie Dick test & Leak test.

After sales service

'MODIS' after sales service provides service all over India with a team of trained technicians who provided service and spares

Table specification for Cylindrical sterilizer

Model		MECR 24	MECR 45	MEC 15	MEC 24	MEC 36	MEC 48	MEC 45	MEC 54	MEC 60	MEC 72	MEC 90
		(High Speed)	(High Speed)									
Chamber mm/ (inches)	DIA	400(16)	500(20)	300(12)	400(16)	400(16)	400(16)	500(20)	600(24)	500(20)	600(24)	750(30)
	DEP	600(24)	900(36)	500(20)	600(24)	900(36)	1200(48)	900(36)	900(36)	1200(48)	1200(48)	1200(48)
Chamber VOL	Lit	75	177	35	75	113	151	177	254	235	339	530

Utilities Consumption / Requirements

Power	18kw	36kw	6kw	6kw	9kw	9kw	9kw	9kw	18kw	18kw	18kw
BOILER (Lit)	39	65	11	39	65	77	65	77	77	77	85
Electrical requirements	42A	73A	16A	16A	24A	24A	24A	24A	42A	42A	42A
Phase	3	3	1	3	3	3	3	3	3	3	3

(For automisation) Compressed air requirements : 3/8" thread connection

Special Electrical Requirements available according to individual order.

- The Modis Horizontal sterilizer can be supplied according to any dimension required by the customer.
- Due to continuous marketing research and development, specifications affecting the appearance, utilities or other cosmetic aspect of the autoclave may be subject to change without notice.

Authorized Dealer

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Other Products

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- Table top flash Sterilizer • Ultrasonic cleanser
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Horizontal Cylindrical Sterilizer



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Cylindrical

Introduction

The ever growing demand for more efficient and advanced hospital, industrial and scientific equipment with higher capacity and better performance, providing safe and effective sterilization, has led the development of 'MODIS' sterilizers throughout the years.

The 'MODIS' company has been designing and manufacturing a wide range of sterilization equipment for more than 30 years.

'MODIS' product serve as standard equipment in :

- Hospital C.S.S.D.
- Day care facilities.
- Laboratories.
- Research Industries.
- Animal care facilities.
- Medical Waste Treatment facilities.
- Pharmaceuticals Industries.
- Biotechnology, Tissue Culture & Applied Industries.



High Pressure Sterilizer



Application

The Autoclave operates with saturated steam as the sterilization agent, working at pressure in the range of 0-32 p.s.i. (2.2 kg/cm²) and temperature in the range of 105° C to 137° C. Special temperature setting are available on request.

The sterilization method substantially shortens the sterilization cycle, achieved by evacuating the air with a powerful ejector / vacuum pump, combined with steam pulsing. A 0.2 micron sterile air filter is provided to filtrate the air, which equalize the vessel pressure after the drying cycle. 'MODIS' offers a large range of Sterilizer models from Standard 35 litre to 2000 litre size, as well as varied chamber dimensions according to the specific use and nature of Product requirements.

Standards

The sterilizers are manufactured as per I.S.I codes and bearing I.S.I Mark No. IS: 3829, Part - I & II endorsing the highest quality.



High Speed Sterilizer

Horizontal Cylindrical Autoclave / Sterilizer

Centralised Control point

- Multi-port operating valve: control for the entire cycle of the operation.
- Permits two exhaust speeds, fast & slow.
- Easy to read pressure, temperature & timing.
- Smooth operation.

Safety Features

- Self locking safety door cannot be opened while chamber is under pressure.
- Gauge glass tube with automatic closing safety valve.
- Heat resistant SILICONE door gasket.
- Pressure switched (on electric models) economise power consumption.
- Low water protection system, to protect the electric heaters.
- Temperature gauge / Digital temp. Indicators / controllers (optional)
- Vacuum breaker / dryer.
- Safety valve for the jacket / boiler.
- Hydraulically test to 2.5 times the designed working pressure.
- Powerful ejector for drying.
- Insulated with resin bond fibre glass wool covered with M.S./S.S. sheet 304 sheet.

Options

- Heating: Direct Steam, Electric OR LPG operated steam generators.
- Fully automatic operation through Microprocessor Controller / touch screen PLC.
- Digital display Temp. for semi-automatic operation.
- Cycle with pre & post vacuum option through watering type vacuum pump.
- Thermograph to record temperature and time.
- **Double door type models with S.S. flush mounting.**
- Carriages, trolleys, baskets etc. for easy movements of goods.
- Auto water feeding pump with special type of copper sensor to reduce electricity & water consumption.
- Recording of cycle through printer.
- Front panelling model.

Operation

- Direct Steam : 1.2 Kg/cm² for High pressure model Or 2.1 Kg/cm² for High speed model.
- Electricity : 3 Phase 440V, 50Hz AC supply.

Microprocessor / P.L.C. based control system

The control system is based on 'state-of the art' microcomputer technology, guaranteeing high reliability and safe operation. The computerized control unit ensure a fully automatic operation throughout the entire cycle. No future Intervention is necessary after selecting the parameters and pressing the start button. The main cycle phase and the machine's actual parameters are displayed on the LCD panel during the cycle progress. The main physical parameters of the process, i.e. temperature,

