



**AUTOCLAVES &
STERILIZERS**



Spreading smiles through
range of quality & innovative
CSSD products

ABOUT US

We Shivani Scientific Industries are highly focused company for manufacturing of Sterilizers and Autoclaves with proven track record of over 40 years. Our Company gives you convenient single source access to know - how of services and our products in the domain of sterilization. We manufacture from Table Top to large type sterilizers with State of the Art Technology.

Shivani Scientific also Provide Turn Key Projects Services for set up of In Vitro Fertilization Labs popularly known as Test Tube Baby Centres. Here we provide single window service which includes site survey, lab design, equipment selection, hands on training installation projects marketing and feasibility studies.

Our aim is to be your full services partner and our approach is to give you precisely what you need, be it stand alone autoclave or a complete Turn Key Projects for IVF Lab / CSSD. In any case you rest assure that we see the details in the context of the bigger picture and devote particular attention to the success of the customer. Our goal is to be Expand our market and influence by earning the trust and confidence of the customers everywhere in to the world.

We have implemented ISO 9001:2000, ISO 13485:2003 certified by reputed agency.

QUALITY ASSURANCE

Incoming Raw Material Inspection refers to test & verification of all the bought out components / parts for its suitability, reliability & accurate operation for use in our products.

In-Process Inspection refers to checking & satisfying all the manufacturing procedures which are adhered to & are in accordance with quality standards.

Final Inspection refers to check & satisfy the machine performance up to its optimum. Final Checks before dispatch refers to check & verify that things are as per requirement of customer & nothing is missed out.

We are giving following test results along with each & every Autoclave:

- Material of construction Certificate
- Users Inspection Manual Along With GA
- Warranty Card
- Inner Chamber Hydro Test Certificate
- Pressure Gauge Test Certificate
- Microprocessor Controller Test Certificate
- Chamber Sensor Calibration Certificate
- Load Sensor Calibration Certificate

PORTABLE STEAM AUTOCLAVE (Semi Automatic)

MODEL : PA06 / PA12 / PA21 / PA21S

OPHTHALMIC

DENTAL CLINICS / DAY CARE CENTERS

R & D CENTERS

LABORATORIES ETC.

Features

- SS Seamless diepressed deep drawn chamber
 - μ p based PID controller with dual display for Temp. & Time
 - Fully SS Construction
 - Dual Safety Valves
- Microprocessor Digital temperature controller cum timer
 - Over heat Auto shut down at 137°C
 - Dual Display
- Unique Shape heater of outer SS tubing
 - Food grade silicon rubber gasket for better durability
 - Specially designed heater for optimum chamber usage
- Calibrated temperature cum pressure gauge
 - Color coded monitoring gauge
- SS Safety Valve
 - Vacuum Breaker to remove air packets in the chamber



SPECIFICATION

Model	PA06	PA12	PA21	PA21S
Capacity	6 Ltrs	12 Ltrs	21 Ltrs	21 Ltrs
Order Code	KT1010	KT1011	KT1012	KT1013
Chamber Dimension	200 x 200mm	250 x 250mm	300 x 300mm	300 x 300mm
Construction	SS 304	SS 304	SS 304	SS 304
Power Consumption	1 Kw	1.5 Kw	2 Kw	2 Kw
Operating pressure	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²
Operating Temperature	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C
Sterilization time	0-99 mins	0-99 mins	0-99 mins	0-99 mins
Voltage	230V	230V	230V	230V
Gross Weight	13 kg	15 kg	17 kg	16 kg
Shipping Size (WxDxH)mm	420x390x455	490x430x515	515x470x565	515x470x565

HORIZONTAL STEAM AUTOCLAVE

MODEL : RECTANGULAR / CYLINDRICAL / STD / HPHV

LARGE STERILIZERS FOR HOSPITALS

LABORATORIES, R & D LABS

CSSD DEPARTMENTS

Features

- GMP Compliant
- Semi automatic operation or microprocessor based fully automatic operation
- Pressure switch control
- High pressure high vacuum option
- Low water level protection
- Online validation option



SPECIFICATION

Model	HAC150	HAC175	HAC235	HAR180	HAR430
Capacity	150 Ltrs	175 Ltrs	235 Ltrs	180 Ltrs	430 Ltrs
Order Code	KT5510/KT5515	KT5511/KT5516	KT5512/KT5517	KT5513/KT5518	KT5514/KT5519
Chamber Dimension	400 x 1200mm	500 x 900mm	500 x 1200mm	450x450x900mm	600x600x1200mm
Construction	SS 316	SS 316	SS 316	SS 316	SS 316
Power Consumption	9 Kw	9 Kw	12 Kw	12 Kw	18 Kw
Operating pressure	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²
Operating Temperature	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C
Voltage	440V	440V	440V	440V	440V
Gross Weight	510 kg	600 kg	700 kg	900 kg	1350 kg
Shipping Size (WxDxH)	925x1900x1850	1050x1600x1850	1050x1900x1850	1150x1750x2150	1300x2050x2300

TABLE TOP FRONT LOADING AUTOCLAVE

MODEL : FL17N

OPHTHALMIC / DENTAL CLINICS

DAY CARE CENTERS

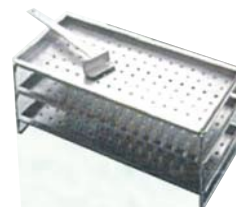
R & D CENTERS

MICRO LABS



Features

- Table Top Front loading Sterilizer / Autoclave
- Fast cycle time with Digital timer for Wet & Dry Cycle
- Auto drain of water to reservoir tank after cycle completion
- Completely automatic & with error message
- Seamless chamber
- Completely made in India
- Digital Pressure Display & also Analogue pressure display
- Feasibility to take out instruments from chamber even after electricity fails



Mode Select

- Instrument programs to sterilize metallic devices sterilization temperature : 134°C, sterilization time : 4 minutes & dry time : 15 minutes.
- Rubber programs to sterilize rubber & plastic sterilization temperature : 121°C, sterilization time : 20 minutes & dry time : 15 minutes.
- Liquid programs to sterilize liquid sterilization temperature : 121°C, sterilization time : 20 minutes & dry time : 15 minutes.

Manual Program

Manual program as per user requirements program can set pre vacuum, post vacuum sterilization temperature : 121°C~134°C, sterilization time : 1~60 minutes, dry time : 1~60 minutes.

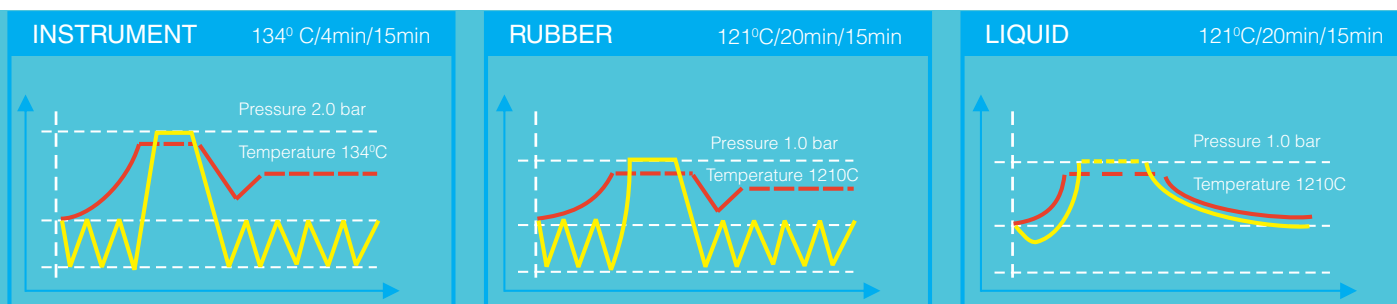


TABLE TOP FRONT LOADING AUTOCLAVE

MODEL : FL17B (CLASS B)

OPHTHALMIC / DENTAL CLINICS

DAY CARE CENTERS

R & D CENTERS

MICRO LABS



Features

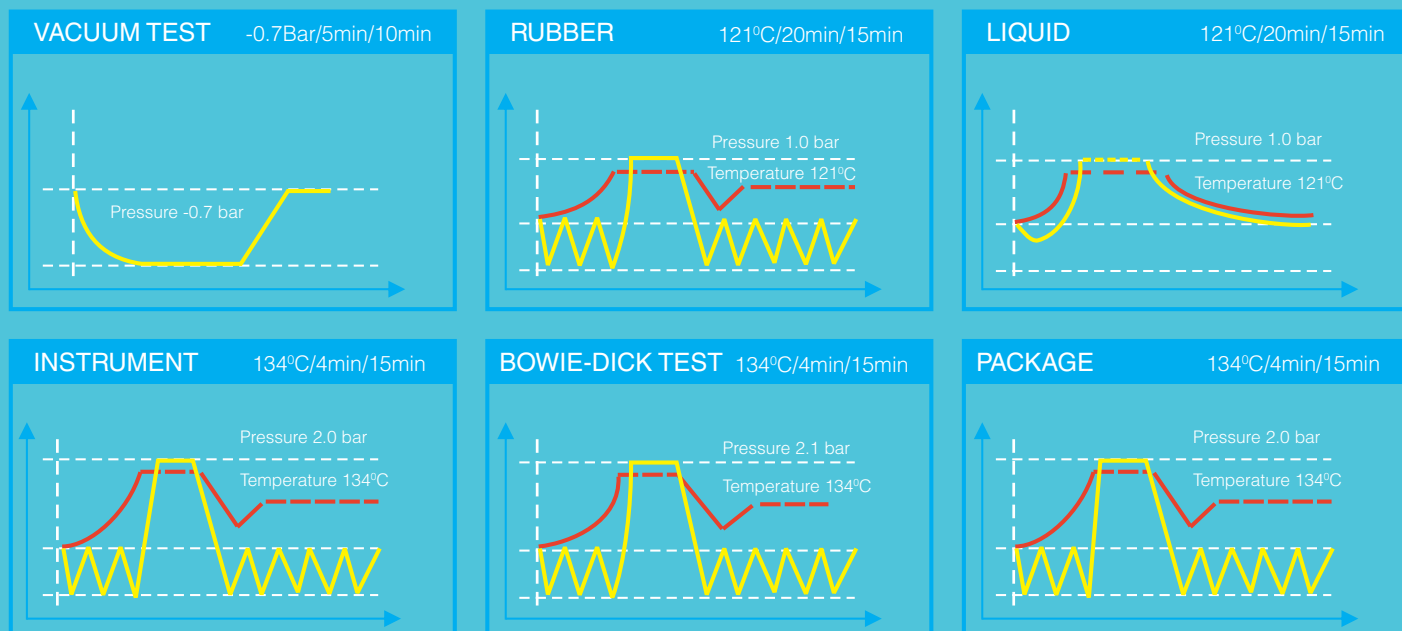
- **Pre - Vacuum (for Class B only)**
Vacuum Turbo Clave is designed to get efficient pre-vacuum condition in order to achieve better sterilization result.
- **Post - Vacuum (for Class B only)**
Vacuum Turbo Clave post vacuum is designed in such a way to get better drying.
- **Air Leakage Test (for Class B only)**
Vacuum Turbo Clave has inbuilt program to confirm air leakage rate is as per requirement of EN13060:2004
- **Bowie -Dick Test (for Class B only)**
Vacuum Turbo Clave has inbuilt program for Bowie-Dick Test packs to determine performance efficiency as per requirement of EN13060:2004.
- **Process Challenge Device Test (for Class B only)**
Vacuum Turbo Clave also passed Process Challenge Device Test for hollow loads according to requirement of EN13060:2004
- **Recorder Printer (for Class B only)**
Vacuum Turbo Clave can print out all parameters viz. sterilization pressure, sterilization temperature, sterilization time and dry time etc, with year / month / day / hour / Error Messages, Cycle time, various phases etc.

Mode Select

- Package programs to sterilize packed articles sterilization temperature : 134°C, sterilization time : 4 minutes & dry time : 15 minutes.
- Instrument programs to sterilize metallic devices sterilization temperature : 134°C, sterilization time : 4 minutes & dry time : 15 minutes.
- Rubber programs to sterilize rubber & plastic sterilization temperature : 121°C, sterilization time : 20 minutes & dry time : 15 minutes.
- Liquid programs to sterilize liquid sterilization temperature : 121°C, sterilization time : 20 minutes & dry time : 15 minutes.

Manual Program

Manual program as per user requirements program can set pre vacuum, post vacuum sterilization temperature : 121°C~134°C, sterilization time : 1~60 minutes, dry time : 1~60 minutes.



SPECIFICATION

Model	FL17-B CLASS B	FL17-N
Dimension	525mm(W) x 420mm(H) x 640mm(D)	525mm(W)x420mm(H)x640mm(D)
Chamber size	225mm Dia x 430mm Depth	225mm Dia x 430mm Depth
Type	Cylindrical	Cylindrical
Capacity	17 Litre	17 Litre
Reservoir Capacity	3 Litre	3 Litre
Loading Tray	3 Nos. 150mm x 380mm x 14mm	3 Nos. 150mm x 380mm x 14mm
Source of Power	220V 50/60Hz, 15A	220V 50/60Hz, 15A
Power Consumption	1800 W	1800 W
Temperature Range	121°C (1.1bar)-134°C (2.1bar)	121°C (1.1bar)-134°C (2.1bar)
Digital Pressure Display	Yes	-
Printer	Provided	-
Dry System	Vacuum Heat Drying	Heat Drying
Control System	Automatic Micro Processor Based	Automatic Micro Processor Based
Display Type	LED Display	LED Display
Net Weight	45.0kg	39.0kg

Ordering Code	Liters	Class N	Class B
Dental	17	KT4512	KT4511
Opthal	17	KT4514	KT4513
Orthopedic	17	KT4516	KT4515
General	17	KT4518	KT4517

GAS CUM ELECTRIC AUTOCLAVE (Operating on LPG)

MODEL : GA35 / GA75

SAVE UPTO 50%

ENERGY COST AS COMPARED TO ELECTRICITY

Features

- First time in India
- Energy efficient LPG operated Autoclave
- Biggest advantage where electricity is a major problem
- Fully automatic operation
- Steam can be generated either by LPG or electricity



SPECIFICATION

Model	GA35	GA75
Capacity	35 Ltrs	75 Ltrs
Order Code	KT4010	KT4011
Chamber Dimension	300 x 500mm	400 x 600mm
Construction	SS 304	SS 304
Power Consumption	3 Kw	3 Kw
Operating pressure	1.2 - 2.1kg/cm ²	1.2 - 2.1kg/cm ²
Operating Temperature	121°C - 134°C	121°C - 134°C
Voltage	230V 50 HZ	230V 50 HZ
Control	Safety Valve	Safety Valve
Gross Weight	135 kg	150 kg
Shipping Size (WxDxH) mm	750x610x1255	875x700x1345

FULLY AUTOMATIC AUTOCLAVE GMP COMPLIANT SERIES

MODEL : FA35 / FA52 / FA111 / FA178

MICRO BIOLOGY LABS

PHARMA / BIOTECH

R & D / DRUG DISCOVERY

Features

- Unique pedal free design
- Lower working height
- Microprocessor based precise controlling
- Fully automatic operation
- User settable Multi programme cycle
- Flexible load sensor
- Data logging of 2 sensor
- Automatic purging, Venting
- Low water level protection
- Cooling can be either fast or slow
- Self - diagnostic errors display
- IQ / OQ / PQ Documentation



Media Temperature Controlled
Timing With Flexible Sensor

Options

- CCR - Circular Chart Recorder
- DPD - Digital Pressure Display
- DI4 - 4 Channel Data Logger
- SCR - Strip Chart Recorder

FULLY AUTOMATIC AUTOCLAVE SERIES

MODEL : FA35 / FA52 / FA111 / FA178

Pedal Free System

Pedal Free system in Vertical Autoclave is introduced for the first time. This system enables you to lift the lid very easily and safety. It also reduces the loading height. This allows the user to lift the lid by only 3 to 4 mm.

Flexible load sensor

Fully Automatic Autoclaves are provided with a very unique Flexible Load Sensor which enables the user to place the load sensor anywhere in the chamber. This can be placed in the Flask, Petridish, Linen or any load. This enables the user to track that desired temperature is achieved in the load or not.

Micro Processor Controller

Unique micro processor temperature controller provides facility to program the cycle, with a feather touch panel.

Option of fast cooling or slow cooling

Our Fully Automatic Autoclave provides the user option to select fast cooling or slow cooling depending on the load configuration.

Robustly Built Chamber

Our Autoclaves are robustly built with the latest welding technique which gives you much higher working pressure and test pressure than any other Autoclave in its category.

Robustly built chamber is capable of giving you working pressure of 20 PSI and Test pressure of 60 PSI.

Silicon Gasket

Our Autoclaves are provided with high quality food grade Silicon Gasket which ensures longer durability sealing under the pressure.

SPECIFICATION

Model	FA35	FA52	FA75	FA111	FA178
Capacity	35 Ltrs	52 Ltrs	75 Ltrs	111 Ltrs	178 Ltrs
Order Code	KT2010	KT2011	KT2014	KT2012	KT2013
Chamber Dimension	300 x 500mm	350 x 550mm	400 x 600mm	450 x 700mm	550 x 750mm
Construction	SS 304	SS 304	SS 304	SS 304	SS 304
Power Consumption	2 Kw	3 Kw	4 Kw	4 Kw	6 Kw
Operating pressure	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²
Operating Temperature	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C
Sterilization Time	0-99 mins	0-99 mins	0-99 mins	0-99 mins	0-99 mins
Voltage	230V	230V	230V	230V	230V
Control	Digital	Digital	Digital	Digital	Digital
Gross Weight	105 kg	120 kg	150 kg	200 kg	225 kg
Shipping Size (WxDxH)	780x570x1035	785x630x1055	950x700x1300	1025x875x1425	1125x975x1475

DOUBLE WALL AUTOCLAVE WITH VACUUM

MODEL : DW35 / DW75 / DW111 / DW35V / DW75V / DW111V

ALL HOSPITALS

R & D CENTERS

MICRO LABS

Features

- Top end model for sterilization of all critical application with exact reproducibility
- Unique double wall design
- Heavy duty jacket
- Fully automatic operation
- μ p based PID controller with dual display for Temp. & Time
- Pre & Post Vacuum available
- Reduced loading height



SPECIFICATION

Model	DW35	DW75	DW111	DW35V	DW75V	DW111V
Capacity	35 Ltrs	75 Ltrs	111 Ltrs	35 Ltrs	75 Ltrs	111 Ltrs
Order Code	KT2510	KT2511	KT2512	KT3010	KT3011	KT3012
Chamber Dimension	300 x 500mm	400 x 600mm	450 x 700mm	300 x 500mm	400 x 600mm	450 x 700mm
Construction	SS 304	SS 304	SS 304	SS 304	SS 304	SS 304
Power Consumption	2 Kw	6 Kw	6 Kw	2 Kw	6 Kw	6 Kw
Operating Pressure	1.2 - 2.1kg/cm ²	1.2 - 2.1kg/cm ²	1.2 - 2.1kg/cm ²	1.2 - 2.1kg/cm ²	1.2 - 2.1kg/cm ²	1.2 - 2.1kg/cm ²
Operating Temperature	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C
Voltage	230V	230V	230V	230V	230V	230V
Control	Digital	Digital	Digital	Digital	Digital	Digital
Gross Weight	139 kg	161 kg	249 kg	147 kg	169 kg	257 kg
Shipping Size (WxDxH)	800x570x1110	900x710x1215	1050x870x1285	880x625x1110	980x750x1215	1150x925x1285

SEMI AUTOMATIC DOUBLE WALL AUTOCLAVE

MODEL : DW35S / DW75S / DW111S

PHARMA / FOOD / WATER

MICRO LABS / BIOTECH

R & D / DRUG DISCOVERY

ALL HOSPITAL

Features

- μ p based PID controller with dual display for Temp. & Time
- Unique pedal free design
- Reduced loading height
- No Hinge or shaking lids
- Fully SS 304 Construction
- 30PSI Model also available



SPECIFICATION

Model	DW35S	DW75S	DW111S
Capacity	35 Ltrs	75 Ltrs	111 Ltrs
Order Code	KT3510	KT3511	KT3512
Chamber Dimension	300 x 500mm	400 x 600mm	450 x 700mm
Construction	SS 304	SS 304	SS 304
Power Consumption	2 Kw	6 Kw	6 Kw
Operating Pressure	1.2 - 2.1kg/cm ²	1.2 - 2.1kg/cm ²	1.2 - 2.1kg/cm ²
Operating Temperature	121°C - 134°C	121°C - 134°C	121°C - 134°C
Voltage	230V AC	230V AC	230V AC
Control	Digital	Digital	Digital
Gross Weight	135 kg	157 kg	245 kg
Shipping Size (WxDxH)	750x570x1110	850x710x1215	1000x850x1285

LABORATORY AUTOCLAVE SEMI AUTOMATIC

MODEL : SA35 / SA52 / SA75 / SA111 / SA178

PHARMA / FOOD / WATER

MICRO LABS / BIOTECH

R & D / DRUG DISCOVERY

Features

- μ p based PID controller with dual display for Temp. & Time
- Unique pedal free design
- Reduced loading height
- No Hinge or shaking lids
- Fully SS 304 Construction
- 30PSI Model also available



SPECIFICATION

Model	SA35	SA52	SA75	SA111	SA178
Capacity	35 Ltrs	52 Ltrs	75 Ltrs	111 Ltrs	178 Ltrs
Order Code	KT1510	KT1511	KT1514	KT1512	KT1513
Chamber Dimension	300 x 500mm	350 x 550mm	400 x 600mm	450 x 700mm	550 x 750mm
Construction	SS 304	SS 304	SS 304	SS 304	SS 304
Power Consumption	2 Kw	3 Kw	4 Kw	4 Kw	6 Kw
Operating Pressure	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²	1.2/2.1kg/cm ²
Operating Temperature	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C	121°C/134°C
Sterilization Time	0-99 mins	0-99 mins	0-99 mins	0-99 mins	0-99 mins
Voltage	230V	230V	230V	230V	230V
Control	Digital	Digital	Digital	Digital	Digital
Gross Weight	77 kg	100 kg	125 kg	152 kg	168 kg
Shipping Size (WxDxH)	680x570x1035	750x630x1085	850x700x1300	925x850x1400	1025x950x1450

ONE STOP SOLUTION

Turnkey Projects for Central Sterile Supply Department (CSSD)



The central sterile services department (CSSD), also called sterile processing department (SPD), sterile processing, central supply department (CSD), or central supply, is an integrated place in hospitals and other health care facilities that performs sterilization and other actions on medical devices, equipment and consumables; for subsequent use by health workers in the operating theatre of the hospital and also for other aseptic procedures, e.g. catheterization, wound stitching and bandaging in a medical, surgical, maternity or paediatric ward.

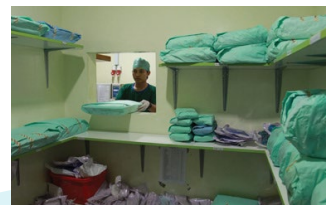
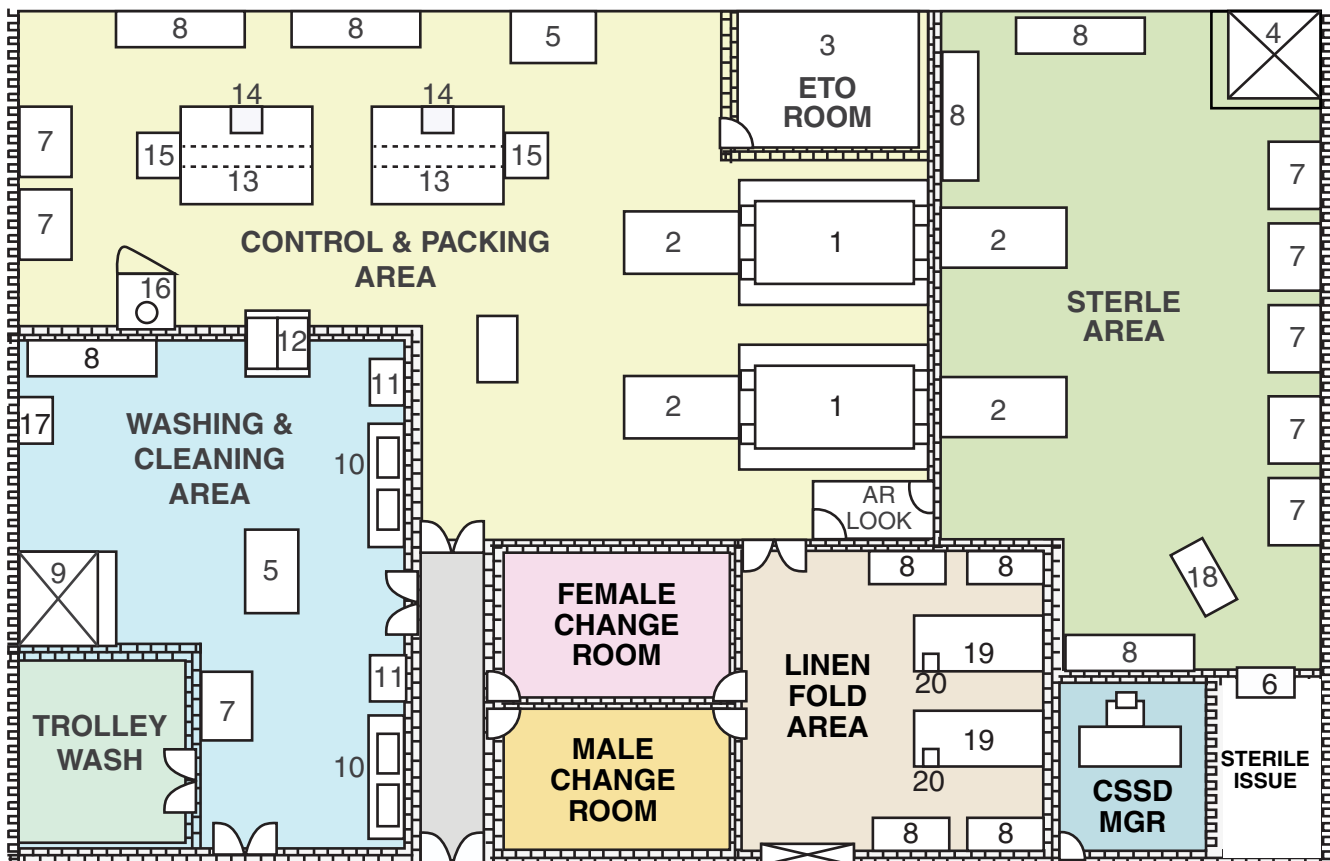
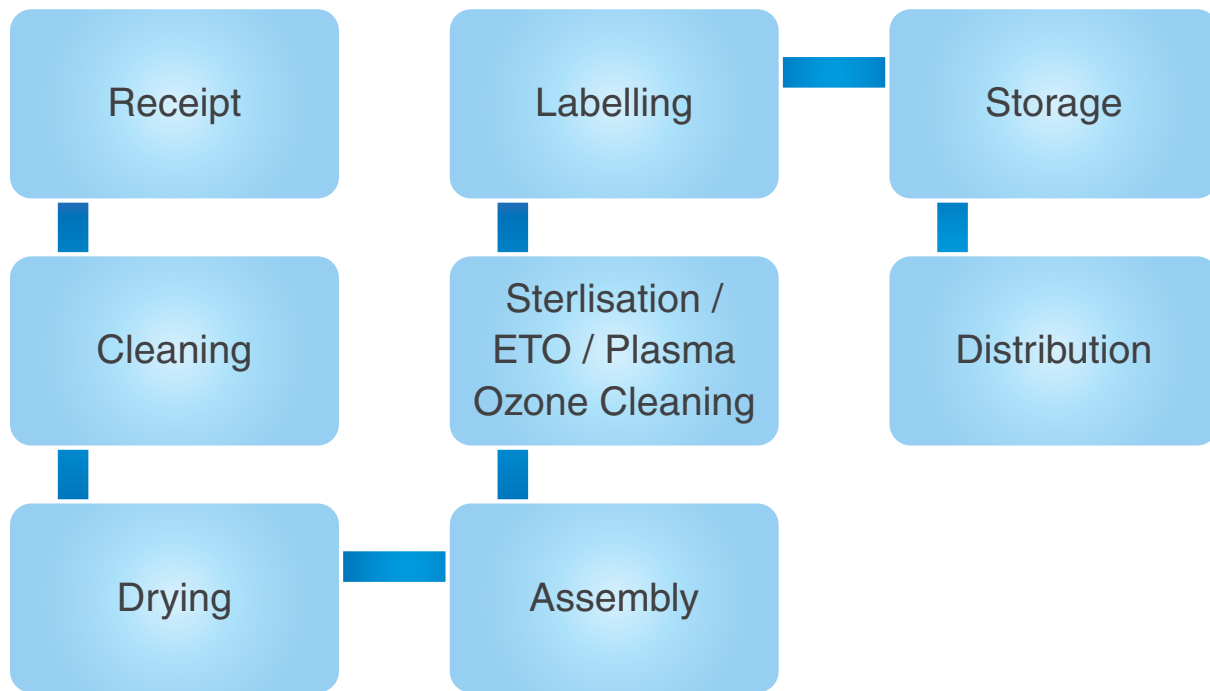
The operations usually consist of cleaning of previously used devices, like stainless steel tools, with a sterilizing liquid. After drying the device on a stand (not by hand or cloth) it gets wrapped in a specialized paper bag (called an aseptic bag), tape-sealed and then sterilized by gas or in a steam autoclave, according to the prescripts in place at the facility.

An expiry date gets written on the wrapped equipment or consumable, before being supplied to the end-user as a sterile product. If along the supply route, the sealed package got damaged or opened by a health worker, it needs to be returned to the CSSD for re-sterilization.

A sterile processing technician is someone who cleans and sterilizes used surgical instruments and other medical supplies so that they can be safely redistributed and reused on additional patients. This work is usually centralized in a special department of the medical facility.



Functions and Activities :



Shivani Scientific Industries Pvt. Ltd.

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