

**AUTOCLAVES, ACCESSORIES**

**AUTOCLAVE WING NUT**

**Code : KMMEI- 279**

**Description**

- Aluminium Body Deep Down,
- Ring and Lid made of Aluminium Casting.
- Used for Sterilization of Surgical instruments and Dressings.
- Six Wing Nut

Size in inches D X H	Capacity in Liters
12 x 12	20
12 x 15	36
14 x 15	35



**AUTOCLAVE WING NUT STAINLESS STEEL (VERTICAL)**

**Code : KMMEI- 280**

**Description**

- Stainless Steel Body.
- Ring made of Aluminium Casting,
- Lid made of Aluminium Casting with 5,5 plate.
- Available in electric / non Electric (Fuel based)
- Used for Sterilization of Surgical Instruments and Dressing
- Also Available with Low Water Cut Off Devices.
- Common Features :
- Electric Autoclave fitted with heating elements of 2 KW single phase 220V / 50Hz
- Max Pressure 15 PSI/lb/inch'
- Equipped with Safety Pressure Release, Weight, Steam Release / Control Valve
- Highly strong and durable Vacuum & Steam Release Valves.
- Weight type safety Valve & Pressure Regulating Device for better Safety and Function

Size in inches D X H	Capacity in Liters
12 x 22	40
14 x 22	55
16 x 24	79

**VERTICAL HIGH PRESSURE AUTOCLAVE WITH STEAM STORAGE**

**Code : KMMEI- 281**

**Description**

Triple Wall Double Chamber Autoclave. The Lid, Ring, Inner Chamber, Middle Chamber (304 grade material) are made of Stainless Steel. The instrument is absolutely leak proof. Middle Chamber works as steam stock jacket. Equipped with Pressure Gauge, Safety Valve, Double Safety Valve, Steam Release Valve, Water Inlet, Water Outlet, Water Level Indicator, Rubber Gasket, Mild Steel Legs for Autoclave. The autoclave can hold the pressure in between 5 psi to 20 psi. Also equipped with Low Water Cut off Device, Digital Temperature Controller with Digital Timer & Alarm at end of cycle.

Standards	Size (inch)	Capacity	Variants
KMMEI - 281 A	12"x22"	40 ltr	Electrical
KMMEI - 281 B	14"x25"	60 ltr	Electrical
KMMEI - 281 C	16"x24"	75 ltr	Electrical
KMMEI - 281 D	18"x24"	95 ltr	Electrical
KMMEI - 281 E	22"x30"	180 ltr	Electrical



### AUTOCLAVE PRESSURE COOKER TYPE

Code : KMMEI- 282

#### Description

- Made of Aluminium but Steel Finish
- Also available in Electric! Non Electric (Fuel Based)
- Also available with Semi-Automatic (Timer Based)
- All sizes are approximate.
- Special Features:
- Seamless Construction (Jointless) from Extra Thick Aluminium Sheet/S.S. Sheet for better Safety & Durability.
- Good Quality synthetic rubber Gasket for Longer & better Performance and Hygiene.
- Weight type Safety Valve & Pressure Regulation Devices for better Safety and Functioning.
- Coloured-coded Pressure Gauge (0-30lbs/in<sup>2</sup>) to indicate the safe, sterilization and danger zones.
- Heating Element made of heavy copper pipe for longer life.
- Well packed in individual boxes.

Size in inches D X H	Capacity in Liters
9 X 9	9
9X 11	11
9 X 11.5	13
9 X 12	14
9 X 1.3	15
12 X 10	18
12 X 11	20
12 X 12	23
12 X 14	26
1 2 X 16	30
12 X 18	34
12 X 22	40
12 X 74	44
14 X 15	35
14 X 17	40
14 X 19	45
14 X 71	50



Available in various models & sizes to suit different applications



## AUTOCLAVES, ACCESSORIES

### FRONT LOADING AUTOCLAVE

Thermal Vacuum and Dry Cycle with Printer  
(DNClave B Class)

Code : KMMEI- 283

#### Description

- Lower Heater power required and upto 30%-50% power saving over traditional autoclaves.
- Vacuum pump fitted inside the autoclave to allow Pre & Post sterilization vacuum cycle inside the chamber as per the International standards.
- Total of 6 Vacuum Cycles with 16 MIN STERILIZATION 16 MIN DRY CYCLE.
- With Digital Display of all the operations in sequence and timer & Temperature.
- The Front control panel has a touch type key switches and also have LEDs to indicate the operation going inside the autoclave.
- Front Door and panel is made of heat resistance plastic and the top cover is made of stainless Steel.
- Sealing Ring made of Silicon Rubber.
- Enclave is fully automatic front loading autoclave with Vacuum & Dry Cycle.
- All the operations goes automatically with single touching of start button without opening the door.
- Total Cycle takes 1 Hour.

#### Models/ Variants

Standards	Capacity	Variants
KMMEI - 283 A	12 ltr	Electrical
KMMEI - 283 B	16 ltr	Electrical
KMMEI - 283 C	21 ltr	Electrical

#### Thermal Vacuum and Dry Cycle (DNClave S Class)

##### Description

- New Dynamic Heating technology takes perfect control of parameters.
- Lower Heater power required and up to 30%-50% power saving over traditional autoclaves.
- With Thermal purging cycles in the start to ensure that air present in the chamber is removed before sterilization
- Front Door and panel is made of heat resistance plastic and the top cover is made of stainless Steel.
- Sealing Ring made of Silicon Rubber.
- One Touch Operation for ease of use.
- 3 Pre-Sterilization Thermal Vacuum Cycles.
- Sterilization with dry cycle completes with single touching of start button.



Front Loading Autoclave

**AUTOCLAVES, ACCESSORIES**

**Horizontal Autoclaves**

**Cylindrical Horizontal Autoclave Double Wall**

**Code : KMMEI- 284**

**Description**

**Size/Capacity : 75ltr –300ltr**

The sterilizer is based on the principle that microbiological action of saturated steam at elevated temperature is rapid and through. All models work on principle of downward displacement of air which is most economical method of obtaining sterilization.

**Construction:-**

Double Walled Inner Chamber 16g and Outer Cover are made of S.S. 304 grade material. Lid is made of S.S. Radial Locking is made of Mild Steel Chrome Plated/S.S. Stainless Steel. Autoclave is mounted on tubular Stainless Steel frame with ground leveling screwed flages. Boiler is made of 304 S.S.

**Equipped With:-**

The Pressure Control Device, Digital Timer, Digital Temperature, Low Water Cut off Device and Buzzer on completion of cycle is incorporated.

**Operating Temp & Pressure:-**

Sterilizing Temp : 120° to 126° C

Sterilizing Pressure : 1.2 to 1.5 Kg/cm<sup>2</sup> (15 psi- 20 psi)

**Models/ Variants**

Standards	Size (inch)	Capacity
KMMEI - 284 A	12"x20"	40 ltr
KMMEI - 284 B	16"x24"	75 ltr
KMMEI - 284 C	16"x36"	120 ltr
KMMEI - 284 D	16"x44"	140 ltr
KMMEI - 284 E	20"x36"	185 ltr
KMMEI - 284 F	20"x48"	250 ltr
KMMEI - 284 G	22"x48"	300 ltr



Double Wall Autoclave

**HEATING ELEMENT (1kw & 2 kw)**

**Code : KMMEI- 285**

**Description**

- Heating Element made of heavy copper pipe for longer life.



**RUBBER GASKET**

**Code : KMMEI- 286**

**Description**

- Heating Element made of heavy copper pipe for longer life.



## AUTOCLAVES, ACCESSORIES

### AUTOCLAVE SQUARE TYPE

#### 250/300 Liter Autoclave Square Type

Code : KMMEI- 288

#### Description

##### CONSTRUCTION:

The chamber is constructed of heavy-duty stainless steel 316 & thickness 5 to 6 mm and jacket constructed of 5 mm SS 304 & Outer SS 304 1.2 mm to withstand the pressure of 2.2 Kg/cm<sup>2</sup> Corresponding to the temperature of 134°C and also to withstand vacuum of -500 to -700 mmHg. In Chamber, one rail is provided in the chamber bottom & two carriage trolley for easy loading & unloading for the material.

##### BOILER:

The autoclave Boiler constructed with a heavy gauge SS 316 electrically operated. the thickness of a 3mm stainless steel Sheet suitably located under the sterilizer. High-grade flanged type heating elements are fitted from the front side for Easy replacement/repair. Fitted with water gauge glass for water level, safety valve, water inlet, and drain valves. It is Also provided with a Low Water Level cut-off device. This device protects the heater in the generator from burning out Dry. The steam pressure in the boiler is indicated on an individual pressure gauge.

##### DOORS:

The Sterilizer is supplied with single door or double doors made of SS 316 The doors are having automatic Hinge type Arrangement. The doors will have unique arrangement to open them manually in case of power failure. The door Gasket Will be of Silicon food grade. Door thickness is 16 to 20mm SS316.

##### SAFETY FEATURES:

special provision prevents the operator from opening the door in following events:-

- When the chamber is under pressure door is not open.
- For double door type autoclave only one door can be open at same time.
- Vacuum Breaker.
- Heavy duty safety valves for over pressure.
- Water level glass tube for water level monitoring.

##### FITTINGS & PIPING.

All pipe line is complete SS 304 and thickness & size as per design of machine.

##### VACUUM SYSTEM:

This system is used for effective air removal from the Autoclave chamber. It consists of an efficient water-ring-type Vacuum pump as per machine design.

##### AUTOMATIC PROCESS CONTROL UNIT:

The control unit is based on advance HMI With PLC controller technology. This unit control Different sterilization cycles With the help of in-built different program combinations. The control unit is provided With a manual operation facility and gives the status of live operation details.

#### ACCESSORIES:

##### MATERIAL HANDLING:

Autoclave can be supplied with stainless steel removable shelves/trays or with a loading carriage & trolleys.

##### CARRIAGE & TROLLEY:

The loading carriage is made of stainless steel 304. And it has adjustable shelves which can be positioned according to Height of the Machine. It is designed to slide easily from chamber to trolley. The trolley is made of SS-304 and its base have four heavy duty castors.

##### VACUUM LEAK TEST FACILITY:

For detection of defective Ampoules: preheated Blue Water is pumped into the autoclave chamber which will Penetrate into defective ampoule for easy detection.



##### OPERATING TEMPERATURE AND PRESSURE:

- Sterilizing Temp.: 121°C. to 134°C.
- Sterilizing Pressure: 1.2 to 2.2 kg/Cm<sup>2</sup>, (15 psi to 30 psi)

##### OPERATING CYCLE:

- 121°C Sterilization Cycle
- 134°C Sterilization Cycle
- VLT Test Cycle
- Bowie-Dick Test Cycle

##### OTHER FEATURES

- Triple Safety: The sterilizer is provided with triple safety.
  - Pressure control switch which automatically cut off the pressure at required set point.
  - Three spring loaded safety valves one each at chamber and jacket & boiler Over pressure.
  - A dead weight safety valve at chamber level.
- A plug screen prevents the discharge line from choking. The plug is easily removable for routing cleaning.
- A powerful air vent circulates air through the chamber. The circulating air passes through a corrosion resistant metal wool filter.
- A Dial thermometer is provided to show the chamber & jacket pressure.
- Automatic Vacuum Breaker is provided to break vacuum in case of vacuum formation due to steam condensation.

##### OPTIONAL FEATURES

- Chamber/Jacket of S.S. 316/304
- Door of S.S. 304/316
- Additional Tray/Shelves Adjustable
- Carriage & Trolley
- Direct steam supply from centralized boiler
- Temperature Chart recorder,
- High pressure High vacuum model,
- Additional Single door/ (Double door) model.
- Fully automatic HMI & PLC Controller with printer & Manual Digital micro processor controlled model,