

LABORATORY



# VERTICAL TOP LOADING AUTOCLAVES

MODEL : MO-TMQ.C-50/80 Series

## Moonmed Model MO-TMQ.C series of Vertical Autoclaves

### Model Sizes:

Two standard model sizes 50L and 80L (We can custom make any missing sizes on demand)



**MODELS:**  
MO-TMQ.C-50/80E-Automatic



**Automatic Touch-key  
Control Panel**



**Models:**  
MO-TMQ.C-50/80K Semi-Automatic

MoonMed vertical top loading autoclaves are trusted by the most technology advanced leading laboratories, pharmaceutical, medical, food and chemical industries. Our autoclave delivers the performance, quality and reliability required by researchers, clinician's etc. all over the world.

## Engineered to Last

MoonMed quality features enable the users to operate the autoclave with complete peace of mind.

### Quality Features:

- The chamber is constructed of long lasting 06Cr19Ni10 grade stainless steel with superior corrosion resistance.
- The generator is made from stainless steel
- The autoclave is designed for easy servicing allowing easy maintenance access to all the components

### Quality System

- ISO 9001:2000, ISO 13485:2003.
- 97 / 23 / EG Pressurized Vessel Guideline.
- ASME Boiler & Pressure Vessel Code, Section VIII, Division 1

MoonMed high quality laboratory autoclaves comply with the strictest international directives and standards.

## Various Cycle Applications

Sterilizing Applications: Liquids, Culture Media, Instruments, Glassware, Plastics, Pipette Tips, Tubes, Biological Waste, Contaminated Media, Fabric and other laboratory items

The user can choose to add the programs needed according to the sterilization application required.



## FEATURES MODEL: MO-TMQ.C-50/80E - Automatic and MO-TMQ.C-50/80k Semi-Automatic

MODELS	50E	80E	50K	80K
Microcomputer control technology with touch-key	✓	✓	✗	✗
Display of dynamic sterilizing process graph, LED display of chamber temperature, time and fault code	✓	✓	✗	✗
Equipped with sterilizing programs for unwrapped, wrapped, Fabric, rubber and Liquid	✓	✓	✓	✓
Dynamic pulsed exhausting function, totally exhausts the cold air from chamber to guarantee steam saturation	✓	✓	Manual ✓	Manual ✓
Chamber heating and heat-dry function effectively improve the drying result after sterilization	✓	✓	✓	✓
Built-in water tank, steam and water inner circulation	✓	✓	✓	✓
Printer (optional)	✓	✓	✗	✗
Manual water injection, exhausting and drainage system	✗	✗	✓	✓
Horizontal type sliding door equipped with reliable self-rising sealing ring making a convenient smooth operation	✓	✓	✓	✓
Design pressure : 0.28MPa	✓	✓	✓	✓
Design temperature : 150°C	✓	✓	✓	✓
Maximum working pressure : 0.23MPa	✓	✓	✓	✓
Solution temperature : 60~100°C	✓	✓	✓	✓
Temperature range : 105~136°C	✓	✓	✓	✓
Insulation temperature : 40~60°C	✓	✓	✓	✓
Chamber material:06Cr19Ni10 stainless steel	✓	✓	✓	✓
Accuracy of temperature display:0.1°C	✓	✓	✓	✓

## Safety comes first

### Door Safety

The autoclave lids have independent mechanical and digital safety features.

- A safety device prevents the operator from opening the door when chamber is fully pressurized
- Steam cannot enter the chamber when the door is open
- A cycle cannot start if the door is not properly locked
- The door cannot unlock until liquid temperature reaches the predetermined end temperature.
- The door cannot unlock until chamber pressure reaches the room pressure
- Temperature Activated Door Lock - The door cannot open until the temperature is below a specified safe level.



Production Line of Vertical Type Autoclaves



### General Safety

- Over-heat auto protection device
- overpressure relief valve
- short-circuit protection
- Overpressure protection
- The operator has two independent means to monitor temperature and pressure.
- Safety Valves: The chamber is equipped with safety valves – if the pressure exceeds the allowed limit the safety valves will discharge
- Built-in Steam Generator Safety: A water level monitoring system maintains a constant water level and ensures safe operation of the heaters

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## TECHNICAL DATA SPECIFICATIONS

Model	Volume	Chamber Dimension (Φ×L)	Overall Dimension (L×W×H)	Net Weight	Voltage	Power Frequency	Power
MO-TMQ.C-50E	50L	316×667mm	616×476×990mm	55kg	220v	50/60Hz	4.2Kw
MO-TMQ.C-80E	80L	386×695mm	688×546×1030mm	75kg	380v	50/60Hz	4.5Kw
MO-TMQ.C-50K	50L	316×667mm	500×476×990mm	55kg	220v	50/60Hz	2.4Kw
MO-TMQ.C-80K	80L	386×695mm	570×546×1030mm	65kg	380v	50/60Hz	3.9Kw

## Accessories



Biological Waste Sterilizing Drum



Double Stainless Steel Basket



Sterilizing Drum



Single Stainless steel basket



Solid waste drum

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