



48⁺ Years
Of experience

CO2 AUTOCLAVES



In Association with SVCH-Technologii, Moscow (Russia)

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

ABOUT US

KERONE is now renowned for serving the specialized needs of customers with the best quality and economical process of application engineering solutions and industrial heating products manufactured in a high-quality environment by a trained and qualified workforce (special purpose machinery)



KERONE is a pioneer in application and implementation engineering with its vast experience and team of professionals.



KERONE is devoted to serve the industry to optimize its operations both economically and environmentally with its specialized process engineering solutions.



KERONE is having immense expertise in manufacturing and implementing various types of engineering solutions.



KERONE is possessing employee strength of more than 280+ experts continuously putting efforts for happy industrial engineering solutions



48+ Years Manufacturing Excellence



Great Sale Support



Highly Customized Product



Adherence to Standards



Sound Infrastructure



Team of experts Delivering Quality



Timely Delivery



Cost Effective Solutions



WHY CHOOSE US

"Choose Kerone for innovative solutions tailored to your unique product needs, ensuring efficiency, reliability, and unmatched quality."

With decades of expertise, cutting-edge technology, and a customer-centric approach, Kerone Engineering offers tailor-made Applications Engineering solutions that prioritize quality, flexibility, and cost-effectiveness. Benefit from our commitment to excellence, post-sales support, and innovative solutions for your unique Applications Engineering needs. Choose Kerone Engineering for reliability, performance, and unmatched value.

MISSION



To enhance the value of customer operation through our customer need centric engineering solution.



We are committed to providing our customers with unique and best-in-class products in the industrial thermal processing segments. Through strategic tie-ups for technical know-how with renowned leaders in industry-specific segments, we ensure that our offerings meet the highest standards of quality and innovation.

VISION



Turn into a world leader in providing specialized, top-notch quality and ecological industrial heating, cooling, and drying solutions across the globe.



To attain global recognition as the best of quality and environment-friendly engineering solution company.



Enhance the value of customer operation through our customer need centric engineering solution.



TRUSTED PARTNERS





CO₂ Autoclaves

What is Autoclave?

An autoclave stands as a pivotal machine in both industrial and scientific realms, facilitating processes demanding heightened temperature and pressure conditions compared to ambient levels. Its versatile applications span crucial domains such as surgical procedures, where it ensures impeccable sterilization before medical interventions. Beyond healthcare, autoclaves play indispensable roles in the chemical industry, aiding in curing coatings, vulcanizing rubber, and facilitating hydrothermal synthesis. Moreover, their significance extends to industrial settings, particularly in composite manufacturing, where they are instrumental in ensuring product quality and integrity. The precision and reliability of autoclaves make them indispensable assets in various sectors, where stringent standards of sterilization, material processing, and synthesis are paramount.

Defination

Autoclave is a pressurized device designed to heat aqueous solutions above their boiling point at normal atmospheric pressure to achieve sterilization.

Auto Self

Clavis Self locking device



Working of Autoclave Machine

- Boil At 100°C
- Pressure rises
- Water heated in a sealed vessel
- Boiling point of water is raised
- Liquid Water cannot be heated above 100°C in an open vessel.

Usage of Autoclave

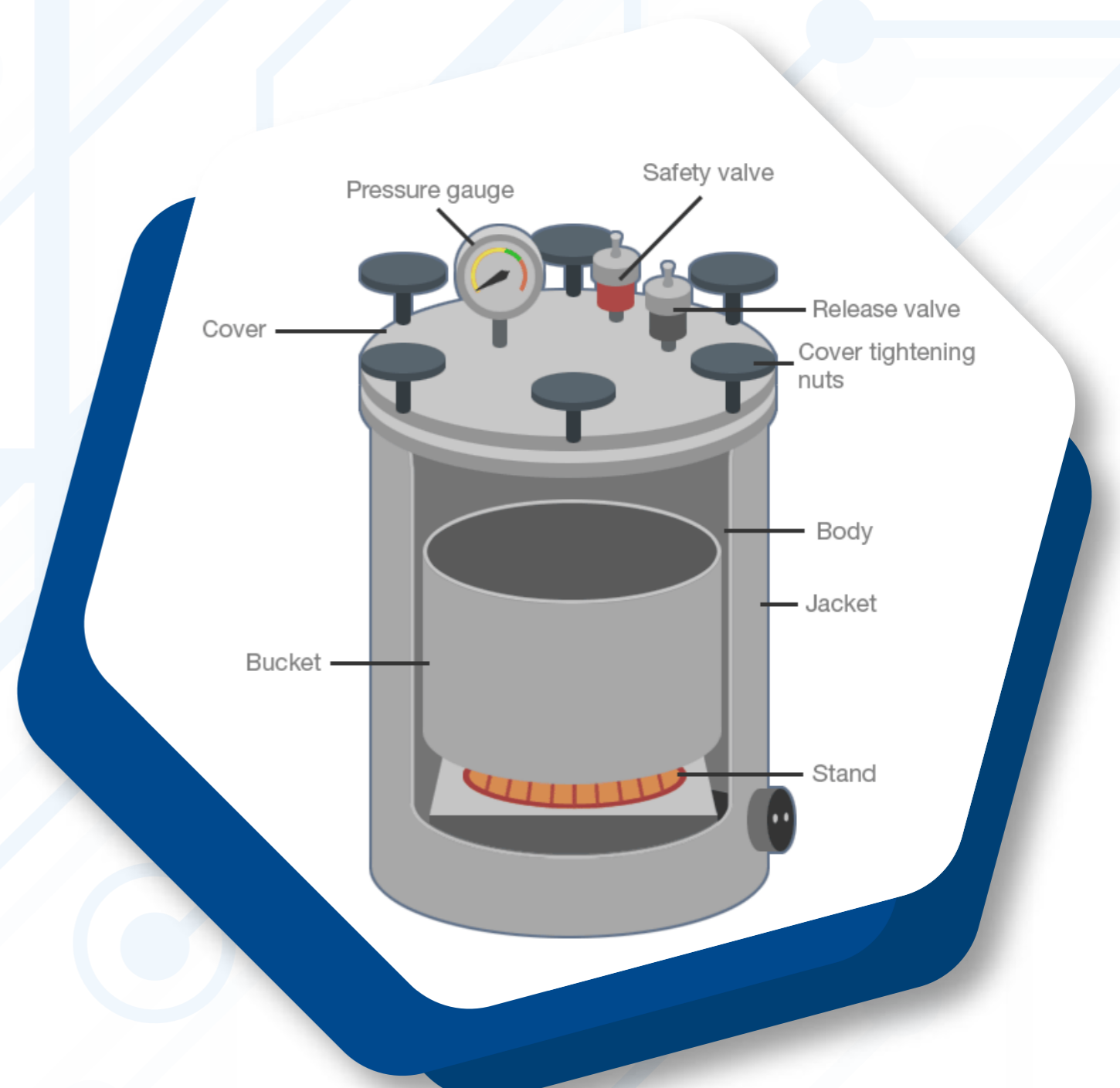
- Medicine
- Dentistry
- Metallurgy
- Microbiology
- Veterinary science
- Sterilization of lab equipment

Principle

- Lid ensure an air tight closure in the autoclave.
- A cylindrical vessel made of gun metal.
- Sterilize contaminated material.
- Drain valve for easy draining and cleaning.
- Low water level, sensor open/short alarms and cut off.
- A backlit alphanumeric two line 32 character LCD display.
- Controller with time and temperature programmable by user.
- Prepare elements used for taking samples. (needles, tubes, containers).
- Moulded Rubber Gasket and Stainless Steel carrier along with heater cover stand.
- It is sufficient to kill all the vegetative forms and spores of the organism.
- This pressure and temperature is kept constant for 20 minutes during autoclaving.
- Boiling point of water is directly proportional to the pressure when the volume is constant.
- To prepare materials for bacteriological cell cultures (test tubes, pipettes, Petri dishes, etc.) without contamination.
- When pressure is increased in a closed vessel the temperature increases proportionately. i.e. for about 15 pounds of pressure per square inch (Psi) the temperature rises to 121°C.



Pressure \propto Temperature



CO₂ Pressure in autoclaves

Pressure disinfection is harmless to humans and the environment. CARBO carbonic acid stops insect pests without leaving residues.

Contamination of food raw materials by insect pests and their larvae and eggs causes great damage. CARVEX pressure disinfection with CARBO carbonic acid of raw materials for food (e.g. cereals, spices, almonds, nuts, dried vegetables and fruits, certain types of vegetables, seeds and oilseeds), pet food, tobacco, herbs, tea and medicinal drugs works 100% without poison.

CARVEX pressure disinfection cleans without leaving residues, is gentle on the product, and is toxicologically harmless and environmentally friendly. The high efficiency and rational handling improve work safety. CARVEX pressure disinfection is officially tested.

Different types of autoclaves

Heat autoclaves

The most common source for autoclaving is heating. Here the autoclaves should maintain a temperature of at least 246 degrees for half an hour. Both dry heat or steam heat are used. For steam heat autoclaves, heated water vapors are used. Dry heat autoclaves are used for moisture sensitive surgical products or instruments.

Ultraviolet autoclaves

They produce UV light causing organisms.

Cold sterilization autoclaves

They use a cold sterilization liquid to They use a col sterilize the contents.

Laboratory autoclaves

They are used for general lab work, component and stability testing, core hardening, drying glassware, and sterilizing.

Stovetop autoclaves

In such autoclaves, the tools should always be separated to allow the steam to penetrate the load evenly. It is the simplest autoclave.

Advantages CO₂ Of Pressure autoclaves

- Compact construction
- Customised design
- Quick-opening closure system for the shortest possible processes
- Proven and easy-to-maintain design for durability and reliability
- The sophisticated technology enables a fast and reliable installation
- Efficient process control for reduced operating costs and emissions
- We are glad to assist with the installation and commissioning with our staff on site.

Limitation

Safety

- A very high-pressure environment
- Autoclave cracks or leaks, scald the autoclave operator.
- An industrial autoclave can operate at an even higher temperature

Environment

- Environment of autoclave carefully prepared.
- Condensate releases is extremely hot, have a supply of cold water so the condensate does not melt the drainpipes.

Cost

- Cannot easily be disassembled into smaller parts.
- Building a large autoclave is expensive, because it needs insulation, water supply and sturdy metal construction
- Steam autoclaves do not supply enough heat for some industrial processes, so need another fuel, her fuel, such as gas or oil.

Equipment

- Reliable sterilizer
- Melt plastic equipment with its steam

OUR CLIENTS









THANK YOU

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