

Vertical Autoclave



This vertical automated sterilization device employs high-temperature saturated steam for sterilization. It is suitable for testing laboratories, general laboratories, operating rooms, supply rooms, higher education institutions, animal husbandry facilities, disease control centres, and other medical and biomedical research units. The unit ensures swift sterilization of instruments, dressings, rubber items, liquids, glassware, bacteria and cell culture mediums, as well as waste materials.

Innovative Design



One click start / stop



Fully automatic sterilization cycle



Quick lock with one-lever operation



Comply all safety and design quality standard



21 CFR Compliance (In specific model)

Key Features

Easy operation and long service life of your device

- **Simple operation through a bright display** with program and progress indicators.
- **The lid can be opened and closed with one finger.** Radially locking bolts are moved without applying any force. The weight of the lid is completely balanced by a torsion spring for effortless opening and closing.
- The passive chamber seal operates with virtually no wear.
- For all devices up to 226 litres only a single-phase power supply (220/240 V; 50 Hz) is required.

Low life-cycle-costs as well as high energy efficiency

- **Best quality steel AISI304** components is used to manufacture high-tech chambers. This does not only provide a consistently high quality and long service life of the autoclaves, it also ensures energy efficiency with short heating and cooling phases. You will save time and money on electricity and repairs.
- **No electronics in the lid** - impervious to steam and heat
- Electrical heating with maximum efficiency, directly in the feed water

Maximum of user protection

- Electrical, mechanical and constructional factors guarantee the highest level of quality and user protection: **mechanical pressure gauge** for alternating validation; **Safety valve** (Made in Germany); **Integrated residual current circuit breaker**; **Low water level alarm**; **Mechanical Auto Lid Lock Mechanism**; **Over temperature Electrical Protection Sensor** for heater; **Fail Safe Settable Value**; Chamber Construction as per ASME guideline

Simple way of cleaning your laboratory even below the autoclave

- No installation to a feed water supply required
- Casters for mobile use
- Easy to clean plastic surface with rounded edges in contact areas (no burns or injuries)

Digital process documentation & quality management (for special model only)

- **Fully automatic documentation** of the cleaning and sterilization processes
- **Forgery-proof** and the format of the documents is suitable for long-term preservation
- **Traceability** through user-related signing of the documents
- **Minimal workload** for your staff when it comes to documenting the instrument reprocessing - you will save time and resources in your daily work as well as during the preparation for audits

Technical Specification Eco Series

Model No		CM-VAV-E-50	CM-VAV-E-75	CM-VAV-E-100
Chamber Volume	litres	50	75	100
Chamber Dimension	mm	350x550	400x600	450x640
External Dimension	mm	650x700x930	700x750x980	750x800x1020
Electrical Power	kW	3	3	3
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 125		
Maximum Operating Pressure	PSI	15 to 19		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification				
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		Mild Steel		
Outer Body Finish		Anti-Microbial Epoxy Coating		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Not available in this model		

Technical Specification Eco Series

Model No		CM-VAV-E-125	CM-VAV-E-150	CM-VAV-E-175
Chamber Volume	litres	125	150	175
Chamber Dimension	mm	500x640	500x770	550x740
External Dimension	mm	800x850x1020	850x850x1020	850x900x1020
Electrical Power	kW	4.5	4.5	4.5
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 125		
Maximum Operating Pressure	PSI	15 to 19		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification				
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		Mild Steel		
Outer Body Finish		Anti-Microbial Epoxy Coating		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Not available in this model		

Technical Specification Eco Series

Model No		CM-VAV-E-200	CM-VAV-E-225	CM-VAV-E-250
Chamber Volume	litres	200	225	250
Chamber Dimension	mm	600x710	600x800	650x760
External Dimension	mm	900x950x990	900x950x1080	950x1000x1040
Electrical Power	kW	6	6	6
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 125		
Maximum Operating Pressure	PSI	15 to 19		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		Mild Steel		
Outer Body Finish		Anti-Microbial Epoxy Coating		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Not available in this model		

Technical Specification Eco Series GMP

Model No		CM-VAV-E-50S	CM-VAV-E-75S	CM-VAV-E-100S
Chamber Volume	litres	50	75	100
Chamber Dimension	mm	350x550	400x600	450x640
External Dimension	mm	650x700x930	700x750x980	750x800x1020
Electrical Power	kW	3	3	3
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 125		
Maximum Operating Pressure	PSI	15 to 19		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		AISI304 (high-grade stainless steel)		
Outer Body Finish		Anti-Microbial Epoxy Coating		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Not available in this model		

Technical Specification Eco Series GMP

Model No		CM-VAV-E-125S	CM-VAV-E-150S	CM-VAV-E-175S
Chamber Volume	litres	125	150	175
Chamber Dimension	mm	500x640	500x770	550x740
External Dimension	mm	800x850x1020	850x850x1020	850x900x1020
Electrical Power	kW	4.5	4.5	4.5
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 125		
Maximum Operating Pressure	PSI	15 to 19		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		AISI304 (high-grade stainless steel)		
Outer Body Finish		Anti-Microbial Epoxy Coating		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Not available in this model		

Technical Specification Eco Series GMP

Model No		CM-VAV-E-200S	CM-VAV-E-225S	CM-VAV-E-250S
Chamber Volume	litres	200	225	250
Chamber Dimension	mm	600x710	600x800	650x760
External Dimension	mm	900x950x990	900x950x1080	950x1000x1040
Electrical Power	kW	6	6	6
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 125		
Maximum Operating Pressure	PSI	15 to 19		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		AISI304 (high-grade stainless steel)		
Outer Body Finish		Anti-Microbial Epoxy Coating		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Not available in this model		

Technical Specification High Pressure Eco Series

Model No		CM-VAV-EH-50	CM-VAV-EH-75	CM-VAV-EH-100
Chamber Volume	litres	50	75	100
Chamber Dimension	mm	350x550	400x600	450x640
External Dimension	mm	650x700x930	700x750x980	750x800x1020
Electrical Power	kW	3	3	3
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 138		
Maximum Operating Pressure	PSI	35		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		Mild Steel		
Outer Body Finish		Anti-Microbial Epoxy Coating		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Not available in this model		

Technical Specification High Pressure Eco Series GMP

Model No		CM-VAV-EH-50S	CM-VAV-EH-75S	CM-VAV-EH-100S
Chamber Volume	litres	50	75	100
Chamber Dimension	mm	350x550	400x600	450x640
External Dimension	mm	650x700x930	700x750x980	750x800x1020
Electrical Power	kW	3	3	3
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 138		
Maximum Operating Pressure	PSI	35		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		AISI304 (high-grade stainless steel)		
Outer Body Finish		Anti-Microbial Epoxy Coating		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Not available in this model		

Technical Specification GMP Model 21 CFR Compliance

Model No		CM-VAV-CFR-50	CM-VAV-CFR-75	CM-VAV-CFR-100
Chamber Volume	litres	50	75	100
Chamber Dimension	mm	350x550	400x600	450x640
External Dimension	mm	650x700x930	700x750x980	750x800x1020
Electrical Power	kW	3	3	3
Temperature Mapping		4 Point Mapping		
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 125		
Maximum Operating Pressure	PSI	15 to 19		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		AISI304 (high-grade stainless steel)		
Pressure Transmitter		Yes		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Data Printing With Validation		
Report Generation		Yes		

Technical Specification GMP Model 21 CFR Compliance

Model No		CM-VAV-CFR-125	CM-VAV-CFR-150	CM-VAV-CFR-175
Chamber Volume	litres	125	150	175
Chamber Dimension	mm	500x640	500x770	550x740
External Dimension	mm	800x850x1020	850x850x1020	850x900x1020
Electrical Power	kW	4.5	4.5	4.5
Temperature Mapping		4 Point Mapping		
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 125		
Maximum Operating Pressure	PSI	15 to 19		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		AISI304 (high-grade stainless steel)		
Pressure Transmitter		Yes		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Data Printing With Validation		
Report Generation		Yes		

Technical Specification GMP Model 21 CFR Compliance

Model No		CM-VAV-CFR-200	CM-VAV-CFR-225	CM-VAV-CFR-250
Chamber Volume	litres	200	225	250
Chamber Dimension	mm	600x710	600x800	650x760
External Dimension	mm	900x950x990	900x950x1080	950x1000x1040
Electrical Power	kW	6	6	6
Temperature Mapping		4 Point Mapping		
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 125		
Maximum Operating Pressure	PSI	15 to 19		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		AISI304 (high-grade stainless steel)		
Pressure Transmitter		Yes		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Data Printing With Validation		
Report Generation		Yes		

Technical Specification High Pressure GMP Model 21 CFR Compliance

Model No		CM-VAV-CFRH-50	CM-VAV-CFRH-75	CM-VAV-CFRH-100
Chamber Volume	litres	50	75	100
Chamber Dimension	mm	350x550	400x600	450x640
External Dimension	mm	650x700x930	700x750x980	750x800x1020
Electrical Power	kW	3	3	3
Temperature Mapping		4 Point Mapping		
Power Supply	V	220V 50 Hz		
Operating Temperature	°C	121 to 138		
Maximum Operating Pressure	PSI	35		
Sterilization Time	min.	Settable		
Locking System		Quick lock with one-lever operation		
Certification		PED, ISO 13485		
Vessel Material		AISI304 (high-grade stainless steel)		
Outer Body Material		AISI304 (high-grade stainless steel)		
Pressure Transmitter		Yes		
Castor Wheel		Yes (Front two with break and rest free)		
Drain Valve		Yes		
Vacuum Breaker		Yes		
Safety System		Safety valve, Low-water interrupt, Overpressure protection switch, overheating protection switch, circuit breaker, Auto Lid Lock, fault indicator (visual and audible)		
Basket		Wire Mesh AISI304 Basket		
Documentation		Data Printing With Validation		
Report Generation		Yes		