CVM SERIES

LOW-TEMPERATURE VAPORIZED HYDROGEN PEROXIDE PLASMA STERILIZERS

Seven configurations from 60 L to dual-chamber 200 L usable capacity

LATIN AMERICA PORTFOLIO

Availability, configurations, and authorized indications vary by market.

Company Profile

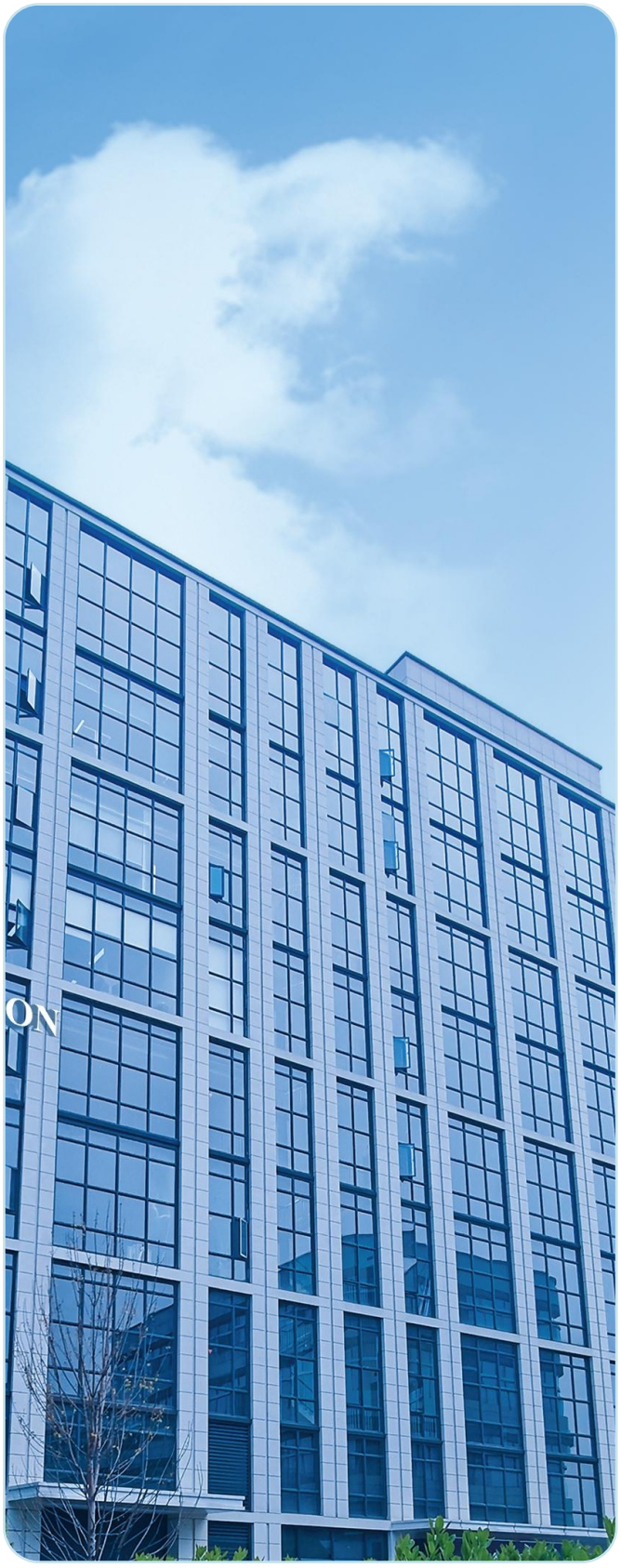
Focused on contamination-prevention technologies and low-temperature sterilization

CAREVISION

CareVision develops contamination-prevention products for healthcare facilities, including the CVM Series of low-temperature vaporized hydrogen peroxide plasma sterilizers, biological monitoring systems, consumables, and related reprocessing accessories.

DEVELOPMENT MILESTONES

2015	International medical-equipment business established.
2020	CareVision medical-technology operations formed in Chengdu.
2021	CVM plasma sterilizer research and development expanded.
2022	Chinese patents reported for model-development work.
2023-2025	International product and quality-system registrations expanded; certificate scope and market authorization must be confirmed for each destination.



VH2O2 Plasma Sterilization

A low-temperature process for compatible heat- and moisture-sensitive medical devices

SERVICE AND SUPPORT

CareVision systems are supported through installation planning, operator training, preventive maintenance, and technical service. Service scope, response time, spare-parts availability, and local responsibilities are defined by the applicable sales and distribution agreement.

PROCESS OVERVIEW

The sterilization cycle operates under vacuum and distributes vaporized hydrogen peroxide throughout the chamber. Hydrogen peroxide provides the principal antimicrobial action. The plasma stage supports process completion and breakdown of residual sterilant. Validated cycle parameters, load preparation, packaging, and compatible-device limitations must be followed exactly.

was patented in 1987 and

WHY LOW TEMPERATURE?

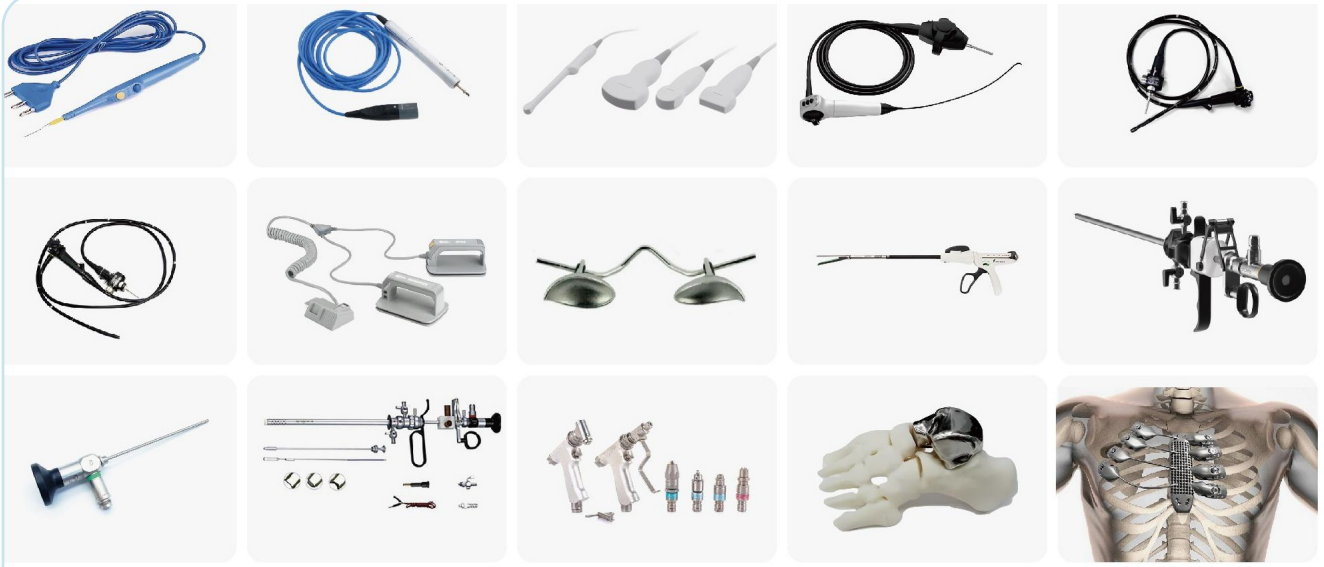
- Designed for compatible devices that cannot tolerate steam sterilization
- Low chamber operating temperature compared with steam processes
- Automated cycle control and process-record capability
- No aeration stage typical of ethylene oxide processing
- Residue management is controlled by the validated cycle and equipment design

oncentration
00–1200 mg/L
8–15 mg/L
6–10 mg/L
0.2%

Compatibility and System Design

Instrument compatibility depends on material, geometry, lumen, packaging, load, and validated cycle

COMPATIBLE APPLICATIONS



The CVM Series is intended for medical devices specifically validated for vaporized hydrogen peroxide sterilization. Examples may include selected metal instruments, compatible polymers, rigid devices, and certain lumened devices. Do not infer compatibility from material name alone. Confirm the device manufacturer instructions, the CareVision IFU, the selected cycle, packaging, and load configuration before processing.

01 Programmable controls

PLC-based cycle control and touchscreen operation.

02 Controlled sterilant delivery

Cassette-based dosing for the selected cycle.

03 Vacuum process

Controlled pressure stages support vapor distribution.

04 Monitoring

Time, pressure, and temperature are displayed and recorded.

05 Load systems

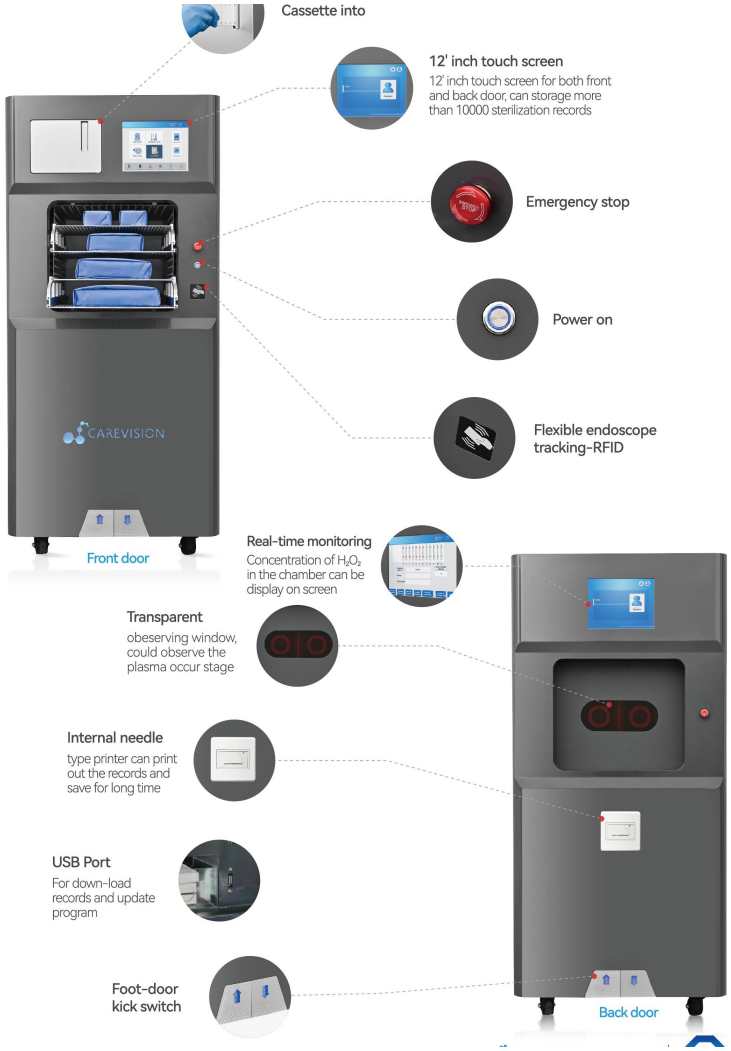
Aluminum shelves and instrument baskets support organized loading.

06 Traceability

Printing, USB, and model-dependent connectivity options.

Controls, Safety, and Traceability

Model-dependent features support routine operation and record management



OPERATOR INTERFACE

Touchscreen

10-inch on CVM-60S; 12-inch on larger models, subject to configuration.

Cycle selection

Preprogrammed cycles with guided operator workflow.

Real-time status

Process stage, pressure, temperature, and time display.

Emergency stop

Accessible stop control for abnormal conditions.

Door interlocks

Model-dependent automatic door and safety interlock functions.

Record output

Internal printer, USB export, and model-dependent network interfaces.

Tracking options

RFID/endoscope tracking and H2O2 concentration detection may be optional.

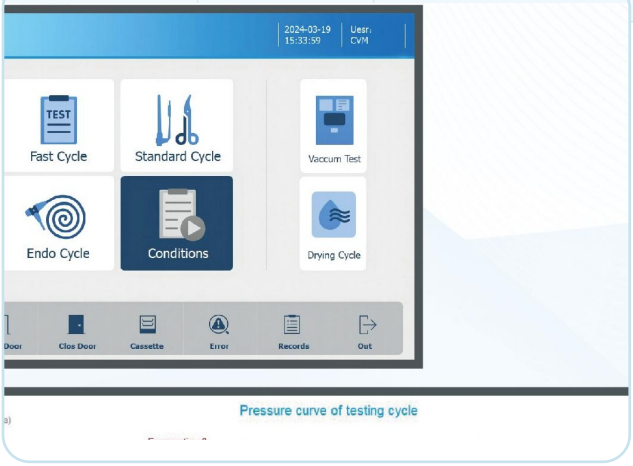
Observation

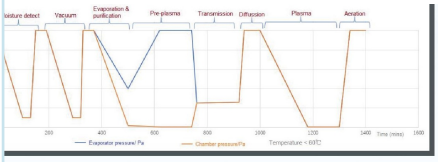
Window allows visual observation of the chamber process on applicable models.

Cycle Programs and Process Monitoring

Cycle names and nominal times shown for the applicable CVM configuration

Program	Nominal time	Typical manufacturer description	Sterilant
Fast	30-35 min	Compatible solid instruments; model-specific use	1 ampule / model-specific dose
Standard	38-48 min	Compatible mixed loads within the validated cycle	2 ampules / model-specific dose
Flexi Endo	45-52 min	Compatible flexible endoscopes and designated lumens	2 ampules / model-specific dose
Vacuum Drying	20 min	Drying-only program; not a sterilization cycle	None





erilization effectiveness of half sterilization cycle

Material	Type	Diameter	Length

VALIDATION AND LOAD LIMITS

Cycle selection must be based on the sterilizer IFU, medical-device manufacturer instructions, packaging requirements, and the validated load configuration. Nominal cycle times can vary by model, software version, load condition, utilities, and environmental conditions. Any lumen-performance claim must identify the applicable model, cycle, lumen material, internal diameter, length, open/closed-end condition, number of lumens, packaging, and validation method.

The Vacuum Drying program is clearly separated because it does not provide a sterilization cycle.

CVM Series Portfolio

Seven configurations for clinics, operating rooms, and central sterile departments

Model	Door / chamber	Total volume	Usable volume	Positioning
CVM-60S	Manual single / single	80 L	60 L	Compact tabletop or mobile-base installation
CVM-100S	Automatic single / single	133 L	106 L	Floor model for medium-volume workflows
CVM-120S	Automatic single / single	150 L	120 L	Single-door CSSD configuration
CVM-120D	Automatic double / pass-through	150 L	120 L	Pass-through CSSD configuration
CVM-150S	Automatic single / single	186 L	154 L	Higher-capacity single-door configuration
CVM-150D	Automatic double / pass-through	186 L	154 L	Higher-capacity pass-through configuration
CVM-200S-DUAL100	Automatic / dual chambers	266 L	2 x 100 L	Independent or simultaneous chamber operation

SELECTION GUIDANCE

Model selection should consider validated load mix, required throughput, single- or double-door workflow, available floor space, utilities, service access, ventilation and environmental requirements, transport path, and local regulatory status. Obtain a signed, model-specific quotation and installation drawing before site preparation.

CVM-100S usable chamber volume is shown as 106 L, consistent with the detailed manufacturer specification table.

Accessories and Consumables

Model-specific components support loading, monitoring, documentation, and routine operation

01 H2O2 cassette

Cycle-specific sterilant delivery; concentration and cassette compatibility must match the IFU.

02 Instrument baskets and shelves

Loading systems sized for the applicable chamber and load rating.

03 Tyvek packaging

Use only validated pouch or roll material and approved sealing parameters.

04 Chemical indicators

Process indicators selected for vaporized hydrogen peroxide exposure.

05 Biological indicators and reader

Monitoring system used according to facility policy, IFU, and applicable standards.

06 Tracking labels and records

Supports load documentation and traceability workflows.

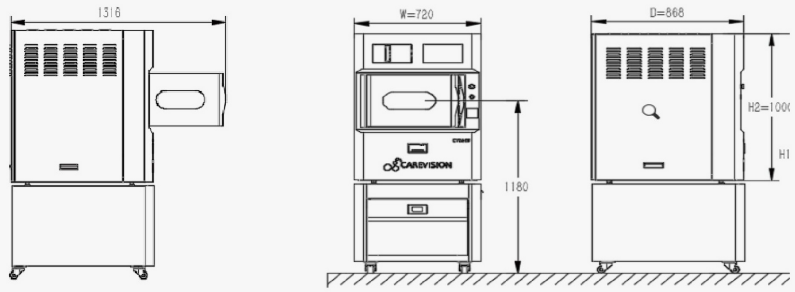
Consumables shown are illustrative; use only approved, compatible items for the exact model and cycle.

Installation Planning

Confirm the final model drawing and site requirements before construction or shipment

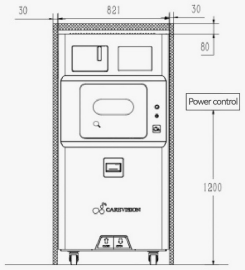
Installation dimensions (mm)

Low-temp VH_2O_2 Plasma Sterilizer
CVM-60S



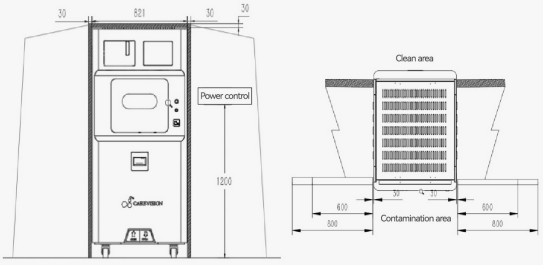
Open door view | Front view | Left view

Low-temp VH_2O_2 Plasma Sterilizer
CVM-100S/120S/150S



Front view

Low-temp VH_2O_2 Plasma Sterilizer
CVM-120D/150D



Front view | Overlook

Model	Machine dimensions W x D x H	Planning space W x D x H
CVM-60S	720 x 860 x 1,100 mm*	1,500 x 1,500 x 2,000 mm
CVM-100S	820 x 1,070 x 1,790 mm	2,000 x 1,800 x 2,050 mm
CVM-120S	800 x 1,100 x 1,790 mm	2,000 x 2,400 x 2,050 mm
CVM-120D	820 x 1,130 x 1,790 mm	2,000 x 2,400 x 2,050 mm
CVM-150S	820 x 1,070 x 1,790 mm	2,000 x 1,800 x 2,050 mm
CVM-150D	820 x 1,130 x 1,790 mm	2,000 x 2,400 x 2,050 mm

*The source catalog also lists a conflicting CVM-60S depth/height. Confirm the current signed installation drawing, electrical configuration, ventilation, floor loading, transport path, service clearances, and destination-market requirements before site work.

Technical Specifications - System

Configuration summary based on manufacturer catalog and current product information

Parameter	60S	100S	120S / 120D	150S / 150D	200S-DUAL100
Chamber	Single	Single	Single / pass-through	Single / pass-through	Dual
Usable volume	60 L	106 L	120 L	154 L	2 x 100 L
Chamber material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Programs	Fast 30; Standard 38; Endo 45; Dry 20 min	Fast 35; Standard 45; Endo 48; Dry 20 min	Fast 35; Standard 45; Endo 48; Dry 20 min	Fast 35; Standard 48; Endo 52; Dry 20 min	Fast 35; Standard 45; Endo 48; Dry 20 min
Touchscreen	10-inch	12-inch	12-inch	12-inch	12-inch
Input power	<= 3,200 W	<= 4,200 W	<= 4,200 W	<= 4,800 W	<= 5,200 W
Power supply	3-phase, 380 V, 50 Hz	3-phase, 380 V, 50 Hz	3-phase, 380 V, 50 Hz	3-phase, 380 V, 50 Hz	3-phase, 380 V, 50 Hz
Chamber temp.	45-60 C	45-60 C	45-60 C	45-60 C	45-60 C
Max. vacuum	< 80 Pa	< 80 Pa	< 80 Pa	< 80 Pa	< 80 Pa
Noise	<= 60 dB	<= 60 dB	<= 60 dB	<= 60 dB	<= 60 dB

CONFIGURATION NOTE

Electrical supply, door orientation, touchscreen, concentration monitoring, connectivity, tracking, shelf count, sterilant dose, and other options may vary. Destination-market electrical configurations must be stated in the final quotation. The manufacturer IFU, signed specification, and installation drawing control over this summary.

C = degrees Celsius. Final technical data must be confirmed for the quoted serial-number configuration.

Technical Specifications - Operation

Environmental, loading, record, and service summary

Parameter	60S	100S	120S / 120D	150S / 150D	200S-DUAL100
Ambient temp.	5-40 C	5-40 C	5-40 C	5-40 C	5-40 C
Relative humidity	30-95%; no condensation/frosting	30-95%; no condensation/frosting	30-95%; no condensation/frosting	30-95%; no condensation/frosting	30-95%; no condensation/frosting
Atmospheric pressure	700-1,060 hPa	700-1,060 hPa	700-1,060 hPa	700-1,060 hPa	700-1,060 hPa
Cassette cycles	12 Fast / 6 Standard / 6 Endo	Same	Same	Same	Same
Shelf/load	2 shelves; 10 kg total	2 shelves; 30 kg total	2 shelves; 30 kg total	2 shelves; 30 kg total	4 shelves; 20 kg total
Net weight	245 kg	440 kg*	460 kg	500 kg	580 kg*
Printer	Internal	Internal	Internal	Internal	Internal
Record functions	Print / USB	Print / USB	Print / USB	Print / USB	Print / USB
Connectivity	Model-dependent HIS/CSSD/CME/CSD, USB, RFID tracking	Same	Same	Same	Same
Warranty	2-year factory parts warranty; labor excluded; subject to agreement	Same	Same	Same	Same

*Manufacturer sources contain weight inconsistencies for certain configurations. Obtain the signed packing list and final technical specification before freight planning. Maintenance intervals and warranty administration are governed by the applicable agreement and service plan.

DOCUMENT HIERARCHY

Current IFU and validation documents -> signed model specification -> installation drawing -> commercial quotation -> this brochure.

CVM Series low temperature Vaporized Hydrogen Peroxide (VH_2O_2) Plasma Sterilizer

CVM SERIES

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