



HRLM-60A/80A



HRLM-110A



No External Steam Emission



Multiple Interlocking Protections



One-Key Sterilization

# Vertical Autoclave

## Multiple Application Scenarios

Applicable to inspection departments, laboratories, operating rooms, universities, animal husbandry, disease control and other medical and biomedical research units at all levels. Applicable to the sterilization of items such as instruments, dressings, rubbers, liquids, glassware, culture media, waste, and bloody samples.

## Innovative Design

- Multiple options
- Pneumatic pressure door lock
- Ten-model exhaust control technology

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## Product Advantages



### Dual Cooling System

High density finned condenser and high air volume cooling fan are connected in series to provide two-stage cooling for the outdoor steam exhaust of sterilization, ensuring the condensation effect of the exhaust steam.



### Linkage Door Lock System

Pressing self-locking structure, safety electromagnetic lock, door pressure mechanical interlocking, locking in place before connecting to the power supply.



### Anti-Dry Burning Protection

The use of floating balls and manual reset temperature controllers ensures sterilization safety and can extend the service life of the equipment.



### Ten-Model Exhaust Control Technology

Adopting PID control technology to achieve controllable cooling time and non boiling liquid, selecting a suitable exhaust mode scheme can save time and improve efficiency.



### Pneumatic Pressure Door Lock

The detection of pressure in the internal chamber will automatically lock to ensure absolute safety, and this function is also available even under conditions such as power off and out of control.



### Multiple Options

Optional IoT module, fast cooling module, 316 stainless steel sterilization chamber, stainless steel bucket, matrix printer, high-efficiency sterilization filter, and item temperature sensor.

## Experience Upgrade

### Drainage Without Exhaust



Dual cooling system and ten-model exhaust control technology ensures zero steam discharge during the entire process of program equipment operation, this is to ensure environmental cleanliness, and avoid aerosol generation and biological laboratory hazards.

### One-Click Start of Sterilization

Standardizing dressings, instruments, rubber, liquid one click start program.

### Ergonomic Design



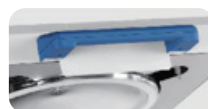
Ergonomic and anti-scald door handle.



Mechanical safety valve.



4-inch LCD display screen and touch buttons.



Vaporous protection plate of door cover.



Waterway and electrical circuit of correspond to independent access door.

## Specifications



Model			HRLM-60A	HRLM-80A	HRLM-110A
Technical Data	Cabinet Type		Upright	Upright	Upright
	Temp Range (°C)		5-40	5-40	5-40
	Heating Type		Electric Heating Tube	Electric Heating Tube	Electric Heating Tube*3
	Cool Air Removal Type		Gravity Displacement, Positive Pressure Pulsation	Gravity Displacement, Positive Pressure Pulsation	Gravity Displacement, Positive Pressure Pulsation
	Drainage Method		Standard: Hand Movement; Optional: Auto	Standard: Hand Movement; Optional: Auto	Standard: Hand Movement; Optional: Auto
	Dry Function		Optional	Optional	Optional
	Water Tank		Condensate Water Tank	Condensate Water Tank	Condensate Water Tank
	Sterilization Process		Auto	Auto	Auto
	Water Infusion		Standard: Hand Movement; Optional: Auto	Standard: Hand Movement; Optional: Auto	Standard: Hand Movement; Optional:Auto
	Chamber Materials		SUS304	SUS304	SUS304
	Protection		Anti-dry burning, over-temperature power failure, automatic over-pressure relief, over-current protection, sensor disconnection detection	Anti-dry burning, over-temperature power failure, automatic over-pressure relief, over-current protection, sensor disconnection detection	Anti-dry burning, over-temperature power failure, automatic over-pressure relief, over-current protection, sensor disconnection detection
	Scheduled Start		Y	Y	Y
	Sensor Type		PT100	PT100	PT100
	Open the Door		Action Bars+Upward Fipping Door	Action Bars+Upward Fipping Floor	Action Bars+Upward Fipping Door
Performance	Sterilization Temperature Range (°C)		105-136	105-136	105-136
Control	Controller		Micro-Computer	Micro-Computer	Micro-Computer
	Display		TFT	TFT	TFT
Electrical Data	Power Supply (V/Hz)		220-240-50/60	220-240-50/60	3-380-50/60
	Power (W)		4000	4000	9000
	Electrical Current(A)		15	15	12
Dimensions	Capacity (L/Cu.Ft)		60/2.1	80/2.8	110/3.9
	Net/Gross Weight (Approx)	kg	100/125	120/145	130/160
		lbs	220.5/275.6	264.5/320	286.6/352.7
	Interior Dimension (mm)	mm	Φ386*520	Φ386*695	Φ450*727
		in	Φ15*20.5	Φ15*27	Φ17.7*28.6
	Exterior Dimensions (W*D*H)	mm	581*706*903	581*706*1020	640*640*1030
		in	23*28*35.5	23*28*41	25.2*25.2*40.6
	Packing Dimensions (W*D*H)	mm	665*860*1200	665*860*1230	835*790*1235
		in	26.2*34*47.24	26.2*34*48.43	32.9*31.1*48.6
Container Load (20'/40'/40'H)			18/39/78	18/39/78	18/28/56
Functions	Design Pressure (Mpa)		0.28	0.28	0.28
	Design Temperature (°C)		150	150	150
	Rated Working Pressure (Mpa)		0.22	0.22	0.22
	Pressure Display Range (Mpa)		-0.1-0.3	-0.1-0.3	-0.1-0.3
	Sterilization Temperature Range (°C)		105-136	105-136	105-136
	Temperature Control Precision (°C)		±0.1	±0.1	±0.1
	Dynamic Pulse Exhaust Times		0-99 (Settable)	0-99 (Settable)	0-99 (Settable)
	Dynamic Pulse Exhaust Temperature (°C)		105-132	105-132	105-132
	Dissolution temperature (°C)		40-100	40-100	40-100
	Heat Preservation Temperature (°C)		40-100	40-100	40-100
	Sterilization Time (min)		0-9999	0-9999	0-9999
	Printer		Optional	Optional	Optional
Accessories	Instruction		1	1	1
	Basket		2(Φ364.5*190)	2(Φ364.5*270)	2(Φ430*265)
	Beaker		1	1	1
	Drain Pipe		1	1	1
	Power Cord		N, Air Switch	N, Air Switch	N
Certificate	PED		Y	Y	NO
	CE		Y	Y	Y