

## SA-382VMB Series

Economic

Standard

Advanced

VMB series combines two fields of sterilization and biological culture. It is widely used such as solid and liquid sterilization, agar, dissolution, and temperature retention functions.

Easy to use, easy to maintain, improves the quality of laboratory work, and reduces the workload and management costs of researchers.

The "Economic", "Standard" and "Advanced" types are available and are designed for a wide range of laboratory applications for sterilization of solid or liquid.



Reliable Sterilization Partner



Exceeds sterilization expectations  
Versatile functions and intuitive operation

## Makes labs sterilization tasks easier

### Features

- ◆ Digital temperature control
- ◆ PT 100 liquid temperature sensors for precise sterilization
- ◆ Agar preparation & dissolution
- ◆ Two customized program can complete all sterilization task
- ◆ Unique heating can easily solve the problem of Agar clogging
- ◆ Digital sterilization data and real-time printer make the sterilization process easy to track  
(Only for Standard & Advanced type)

Sturdy works every day to help labs run more smoothly

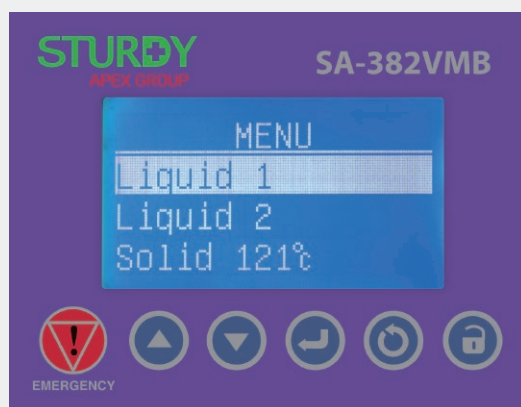
The intuitive VMB series autoclaves are engineered with durable materials and versatility to help user spend less time maintaining and operating your equipment and more time on research and quality.

# Diversity of programs

## Take All Sterilization Needs

In addition to Liquid, Solid, Agar, and Dissolution program, VMB series has 2 customized programs to set parameters according to the user's needs, including preset program startup, dissolution temperature and time, sterilization temperature and time, the control of exhaust and cooling system, the temperature and time of heat preservation, and the temperature of unlocking the door.

One program can extend nearly dozens of cycles, and all programs are controlled by a microprocessor. Just setting the parameters and "Start".



### Pre-set Programs

- Liquid Program x 2
- Solid 121 °C Program
- Solid 135 °C Program
- Agar Program
- Dissolution Program
- User Customization Program x 2

### Available Programs

- Dry Program

ONLY FOR

Advanced

# High-efficiency Steam Condenser

## No Steam will be Exhausted to Your Lab

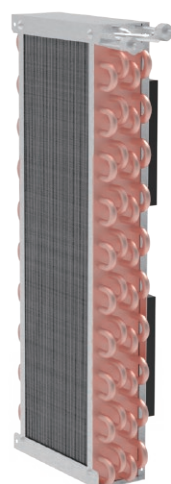
The high-efficiency steam condenser and 6-liter water bottle keep the laboratory free of steam.

With a water level indicator and full water alarm system, you can focus on sterilization verification.

CONDENSED WATER BOTTLE ONLY FOR

Standard

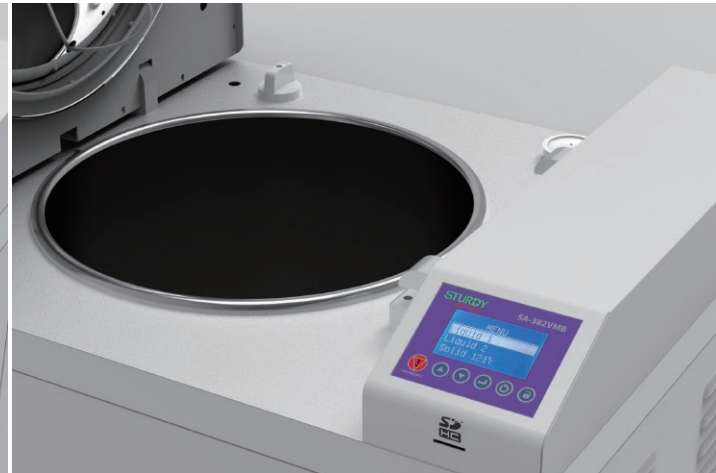
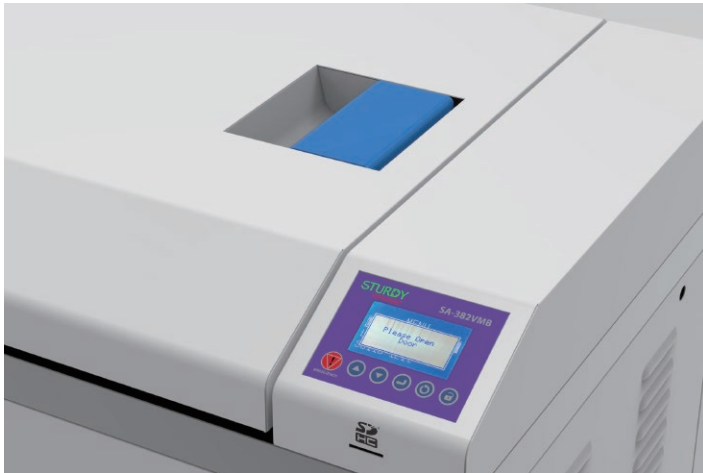
Advanced



# Dual Door Interlock System

## Ensure Safety During Sterilization Cycle

The VMB has both electronic and mechanical door locks. When the open button is pressed at the end of the sterilization cycle, the system detects the chamber pressure and temperature and unlocks the door. A high level of safety protection is provided to prevent accidents from occurring.



# Traceability

## Keep Record All Sterilization Process

Traceability is an important part of sterilization, VMB Standard and Advanced type Series feature a precise detection system and recording system. All sterilization cycles are saved on an SD card for transfer to a computer, and equipped with a printer to print and save the sterilization data.

ONLY FOR

Standard

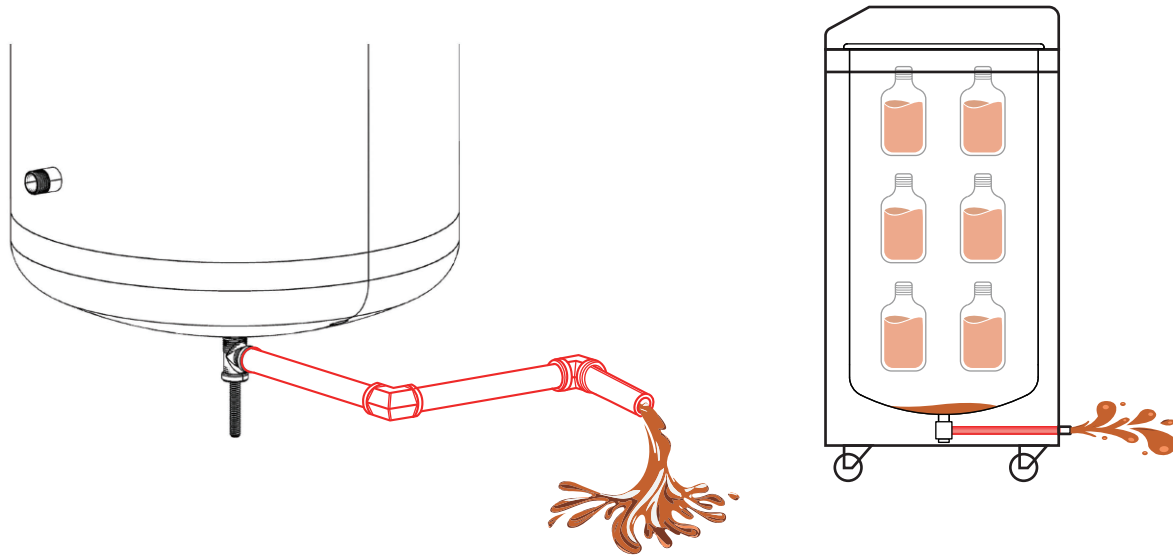
Advanced



# Unique Pipe Heater Free from Annoying Agar Clogging

We understand how troublesome it is for users to clear the Agar that cools in the pipes.

The Pipe Heater heats tubes that may be clogged with agar, softening the agar and allowing it to drain smoothly, providing a simple, tool-free solution to troublesome problems. VMB autoclaves give you more research time.



# Huge Loading Capacity in a Compact Dimensions

The Sturdy VMB Series of top-loading vertical autoclaves is distinguished by its small footprint and high chamber capacity.



## Erlenmeyer Flasks Loading Capacity \*

Bucket Type	250 ml	500 ml	1,000 ml	2,000 ml	5,000 ml
Bucket (L)	12 x 2	8 x 2	5 x 2	2 x 2	1
Bucket (M)	12 x 3	8 x 3	5	2	-
Bucket (S)	12 x 4	8	5	2	-



## Schott-Duran Bottles Loading Capacity \*

Bucket Type	250 ml	500 ml	1,000 ml	2,000 ml	5,000 ml
Bucket (L)	19 x 2	12 x 2	8 x 2	4 x 2	1
Bucket (M)	19 x 3	12 x 3	8	4	-
Bucket (S)	19 x 4	12	8	4	-

\* At maximum load

The loading capacities may vary slightly, depending on the placement of the bottles or flasks.

## Standard Accessories



### Heater Cover

A 304 stainless steel round support surface with handle



### Wire-Mesh Bucket (L)

Made of 304 stainless steel wire  
Dimension:  
Ø 363 x 290 mm / Ø 14.3 x 11.4 in



### Start Kit

- User Manual x 1 pc.,
- Tongs x 1 pc.,
- Yarn Tube x 2 pcs.,
- Cham-mate x 2 pcs.,
- Base Filter x 1 pc.,
- HEPA Air Filter x 1 pc.,
- Printer Paper x 5 pcs, (Standard & Advanced type only)
- Condenser Water Bottle x 1pc. (Advanced type only)

## Consumables :



### Cham-mate Cleaner

Autoclave chamber & piping cleaner



### HEPA Air Filter

Filtering effect of air particles under 0.3µm is over 99.99%



### Printer Paper

Used to print sterilization data on thermal printer  
(Standard & Advanced type only)

## Optional Accessories



### Wire-Mesh Bucket (M)

Made of 304 stainless steel wire  
Dimension:  
Ø 363 x 190 mm / Ø 14.3 x 7.5 in



### Wire-Mesh Bucket (S)

Made of 304 stainless steel wire  
Dimension:  
Ø 363 x 155 mm / Ø 14.3 x 6.1 in



### Water Treatment System

Quicker production & supply pure water for autoclave

## Technical Data

Model No.	SA-382VMB Economic	SA-382VMB Standard	SA-382VMB Advanced
Product Photo			
Chamber Volume	82 Liters / 21.7 Gallons		
Chambe Size	Ø 380 x 756 mm / Ø 15.0 x 29.8 in		
Chamber Material	Stainless Steel #304 ( 316L is Optional )		
Design Temperature	140 °C		
Design Pressure	2.6 bar		
Overall Dimension (W x H x D)	670 x 1010 x 580 mm / 26.3 x 39.8 x 22.8 in		
Net Weight	125 kg / 275.6 lb	128 kg / 282.2 lb	133 kg / 293.2 lb
Power Supply	230 VAC, 50/60 Hz, Y-type Terminal		
Power Consumption	Main Heater Bend Heater Pipe Heater	3,600 W N/A 43 W	3,600 W N/A 43 W
Current (Max.)	21A		
Earth Leakage Breaker	Nominal current at 30A Nominal current sensitivity at 30mA		
Temperature Setting Range	Sterilization Dissolution Warming	105 - 135 °C 60 - 100 °C 40 - 60 °C	
Time Setting Range	Sterilization Dissolution Warming Reservation	1 min - 6 h 50 min 1 min - 2 h 59 min 1 min - 99 h 59min 0 h - 99 h	
Temperature Indication	LCD Display		
Pressure Indication	LCD Display & Pressure Gauge		
Pre-Vacuum (Air Removal)	N/A	N/A	Yes (100 W)
Post-Vacuum (Dry)	N/A	N/A	Yes (100 W)
Data Recorder	N/A	SD Card (32 GB Max.)	SD Card (32 GB Max.)
Data Printer	N/A	Thermal Printer	Thermal Printer
Automatic Fill Water	N/A	Yes	Yes
Automatic Drain Water	N/A	N/A	Yes
Water Consumption	1,200 ml ± 10 %		
Liquid Sensor	PT 100 Temperature Sensor		
Condenser System	Fin Tube Condenser		
Condensed Water Bottle	N/A	6 Liters / 1.6 Gallons (Polyethylene)	
Program	• Liquid 1 • Liquid 2	• Solid 121°C • Solid 135°C	• Agar • Dissolution • User 1 • User 2 • Dry (Advanced Only)
Safety Device	• Pressure Door Lock • Pressure Overload Protection • Overheat Protection • Earth Leakage Breaker		
Standards and Directives	PED (Pressure Equipment Directive) EN 61010-1 (Safety Requirements for measurement control and laboratory use) EN 61326-1 (EMC; Electrical equipment for measurement, control and laboratory use) EN ISO 13485 (Medical Devices - Quality Management Systems) RoHS (Restriction of Hazardous Substances Directive)		



Professional design and manufacturer of autoclaves /sterilizers with

Product distribution to clinics, hospitals and laboratories in more than

Provide sales and after-sales service worldwide with more than

**30 years'**  
**experience**

**80+**  
**countries**

**400+**  
**distributors**

## Durable, Authentic & Efficient Sterilization

Establishment in 1992, STURDY as one of the leaders of autoclave in Taiwan. It is committed to providing reliable and durable autoclave worldwide for nearly 30years. In fact, STURDY has its presence in more than 80 countries and has 400 distributors around the world.

Its STURDY's business philosophy of integrity, innovation, safety, quality and practicality demonstrates through its products.

Relying on decades of Sterilization expertise, comprehensive education and training, good after-sales service are also available.

From design, development to manufacturing, our autoclaves are 100% MIT (Made in Taiwan) and all products pass stringent safety and quality standards and directives such as ISO 13485 , CE ,Taiwan GMP, PED, FDA 510K, ASME.

As such, STURDY prides itself of being your "**Reliable Sterilization Partner - STURDY**".



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