

Probably The Best In Taiwan (Since 1981)

Laboratory-Scientific Equipment
Suction Machine
Autoclave Sterilizer

Excellent Quality and High C/P that you can rely on

- DIFFERENTIAL COUNTER
- SUCTION UNITS (SURGERY/HOMECARE)
- DRY BATH INCUBATOR
- UNIVERSAL CENTRIFUGE (MULTIPLE FUNCTIONS)
- CENTRIFUGE FOR GENERAL PURPOSE AND **PRP/PRF** USE
- HEMATOCRIT CENTRIFUGE
- WATER BATH (SHAKING WATER BATH)
- HOT AIR OVEN STERILIZER
- LAB INCUBATOR (SHAKER INCUBATOR)
- PLASMA THAWING MACHINE
- ROLLER MIXER (ROLLER REMOVABLE)
- SHAKER
- AUTOCLAVE (TABLE TOP, STANDING) ETC.



- Be our partner, contact us today.,
- You will find you are working with the right partner
- **OEM / ODM / Joint Venture** is welcomed



GEMMY INDUSTRIAL CORP.

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QUALITY LEADER



Established: 1981

Quality standard: QMS (GMP), ISO9001, ISO13485, CE, USFDA, Japan (since 2001)

Markets: About 100 countries around the world

Distribution Channel: Agent, Sole Agent, Distributor, Joint-Venture etc.

Group Member: Yi Lien Medical Co., Ltd. + Sturdy Industrial Co., Ltd.

President: Ben CHEN

- Former Chairman of Taiwan Medical & Biotech Association (2005 – 2011)
- Former Chairman of Latin America Business Council
- Convenor of Importers & Exporters Association of Taipei
- Supervisor of Central & Eastern Europe Business Council
- Guest Lecturer of National Yang-Ming University, Biomedical Eng. School

Manager: Andy Chen

Quality Policy:

- Satisfy Customers' Requirement
- Continuous Improvement
- After-sales services forever

成為我們的朋友，成為我們的夥伴吧！

Be Our Friend, Be Our Partner

Sé Nuestro Amigo, sé Nuestro Socio.

Sois Notre Ami, Sois Notre Partenaire

私たちの友達になってください、私たちのパートナーになってください

D-U-N-S CERTIFICATE



Table Top Centrifuge

PLC-01~ 05

GMDN code 36465

Best Selling Centrifuge in market, 65 countries

(Attractive Price, Excellent Quality, Best Service and High C/P Ratio)

(EU)2017/745 MDR

(EU)2017/746 IVDR

This Centrifuge has been tested IEC/EN60601-1 and IEC/EN 61010-1 complied with Council Regulation (EU)2017/745 (MDR) medical device and council EMC directive 2014/30/EU & Regulation (EU)2017/746 (IVDR) in-Vitro Diagnostic medical devices.

- Cheap Price & Excellent Quality & High CP
- Choice of 90W brush or 40W brushless drive.
- Choice of Brushless drive, maintenance free, long lifespan
- For general purpose in laboratory center.
- Fair price that everyone can afford.
- Quality Guaranteed
- ISO9001, ISO13485, CE Marking, QMS, USFDA



Intended use:

A device that is a general-purpose laboratory centrifuge used to separate the components of suspensions by the application of centrifugal force (RCF). The device is intended to centrifuge fluid samples, either alone or after addition of reagents or other additives before measuring analytes. Ideal for general use in laboratory room, School, Education, veterinary, biochemistry, industry, Agriculture, etc.

Specification

Code	PLC series
Dimension	26 x 26 x 26.5cm approx.
Rotor	Fixed angle
Motor	90W Brush motor or 40W brushless
Timer (Mechanical)	60 minutes
Speed	1000 ~ 4000 or 4500rpm ($\pm 5\%$)
Safety shutout system	Option (shutout + Locking lid)
Standard accessory	Tube adaptors
Power source	110V, 50Hz or 220V/60Hz
Net weight	8.0 kg or 17.64 lbs.

Tube Adaptor: (Dimension):

- 17mm (I.D.) x 88mm (H): For 8.5ml ~ 15ml tubes
- 14mm (I.D.) x 66mm (H): For 3ml ~ 7ml tubes
- Insert 14mm adaptor into 17mm adaptor for more use

Choice of:

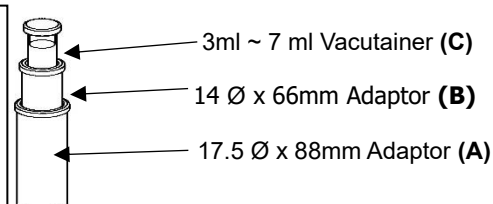
- Safety Lid lock
- Brush motor 90W
- Brushless motor 40W



Ordering Information

Model	Capacity	Rotor	Max rpm	Max RCF
PLC-02	6 x 15ml	A-0615	4500	2422
PLC-03	8 x 15ml	A-0815	4500	2422
PLC-05	12 x 15ml	A-1215	4000	2057

Useful Tube Holder



(Insert tube sleeve B into A for multiple use from 3ml – 15ml)

Technical Data

- Speed regulated from 1000rpm to your desired setting.
- Choice of variable speed regulation or fixed speed 3000 or 34000rpm as requested.
- Anti-vibration rubber buffer balances rotor when spinning, and also protect equipment during transportation.
- Timer activated centrifuge, the **LED pilot lamp** indicates the power is switched on.
- The heavy casting iron base and 3 rubber suction feet prevent the unit from creeping and moving.

(Manufacturer & Exporter) since 1981

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Universal Centrifuge

PLC-036H

GMDN Code 36465

Probably The **BEST** In Taiwan

※ (Attractive price, Excellent Quality, High C/P Ratio) ※

Standards and Regulations:

- IEC/EN 60601-1 – Medical Electrical Equipment – General Requirements for Basic Safety and Essential Performance
- IEC/EN 61010-1-2 – Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
- Regulation (EU) 2017/745 (MDR) – Medical Device Regulation
- Directive 2014/30/EU – Electromagnetic Compatibility (EMC) Directive
- Regulation (EU) 2017/746 (IVDR) – In Vitro Diagnostic Medical Devices Regulation (IVDR)

Features & Technical Data

- RPM / RCF conversion automatically
- Power stabilization: 88V ~ 264V preventing power surge accidentally
- Power source available for 100V ~ 240V, 50/60Hz
- For general Purpose and many others in hospitals and laboratory
- Rotor recognized function for an accurate RCF
- In case of power failure, easy to open LID manually.
- 5 ERRORS detection
- Program to memorize the setting parameters of last operation.
i.e. Time, RPM/RCF etc.



PLC-036H
(Brushless Drive)

Intended Use :

General purpose. Used mainly in the clinical laboratory to separate the suspensions through low- or medium-speed centrifugal force. If relevant, all levels of health care with laboratory. Ideal use in Hospital, clinical laboratory, Pharmaceutical, Agriculture, Education etc.

Feature & Technical Data:

Overall dimension	320 x 400 x 310mm approx.(±5%)
Net weight	18.8 kg (not include rotor) or 41.36 lbs.
Drive motor	Brushless, DC24V, 153W
Chamber	Stainless steel easy for cleaning
Speed indicator	LED digital
Speed control	Microprocessor control system
Timer digital	2- digit, 99 minutes
Power source	100V ~ 240V, 50/60HZ

Speed (±130 rpm)	1000 ~ 15,000rpm
Imbalance detection	Yes, alarm & brake
Brake	Automatic braking system
Safety interlocking lid	Yes
Lid open (Power failure)	Yes, by special design
Overheat alarm	Yes
Emergency STOP	Yes, lid lock release
Safety shutout device	Yes, when lid is open

Rotor ordering information (Interchangeable)

Rotor	Tubes x No.	Suggested Max RPM / RCF
A-1820	1.5ml (or 2.0ml) x 18	14,000 rpm / 16,083 xg
A-2420	1.5ml (or 2.0ml) x 24 with Lid	15,000 rpm / 20,630 xg
A-0815	15 (or 10)ml x 8 tubes	5,000 rpm / 2,929 xg
A-1215	15 (or 10)ml x 12 tube	5,000 rpm / 3,172 xg
A-2405	5 ml x 24 tubes	5,000 rpm / 2,865 xg
A-0450	50 ml x 4 tubes	5,000 rpm / 3,284 xg
F-2415 (for HCT)	0.75ml x 24 tubes Capillary 1.1~1.2mm x 75mm	15,000 rpm / 22,640 xg or 12,000 rpm / 14,490 xg 13,000 rpm / 17,005 xg

Mixed Rotor (AF-2412) (4 in 1)

Mixed tubes	Max RPM	Max RCF
Capillary 0.75ml x 12	12000 ±3%	14490xg ±3%
8.5ml ~ 15ml x 2	5000 ±5%	3236xg ±5%
Microtube 1.5 (or 2.0ml) x 4	9500 ±3%	8223xg ±3%
5.0ml x 2	5000 ±3%	2515xg ±3%



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Table Top Centrifuge

PLC-016

GMDN Code 36465

- Brushless drive motor, maintenance free, quiet use.
- Power stabilizer **100V ~ 240V** preventing voltage surge accidentally
- Functions **RPM / RCF** conversion & display
- Program to memorize the setting parameters of last operation. i.e. Time, RPM/RCF etc.
- Automatic Rotor recognition
- Ideal for PRP or Medical Beauty & Biochemical analysis
- 5 Errors Detection for **SAFETY** purpose
- Emergency STOP

Intended Use:

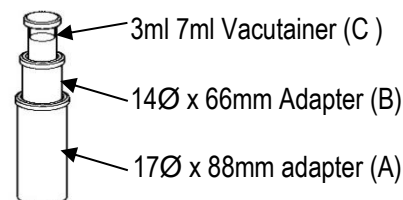
General purpose. Used mainly in the clinical laboratory to separate the components of suspensions through low- or medium-speed centrifugal force. If relevant, all levels of health care with laboratory. Ideal use in clinical laboratory, histology, haematology, immunology, microbiology, pathology, serology, Pharmaceutical Industry and toxicology.



Specifications & Features:

Model	PLC-016
Overall dimension (mm)	510 x 550 x 355mm approx.
Display	Time, RPM,
Speed range	100 ~ 4000 rpm adjustable
Drive motor	Brushless, DC24V, 250W (Rated) / 360W (Max)
Rotor	Various, interchangeable
Timer	2-digital, 99 min. LED digital
Control system	Microprocessor controlled system
ERRORs detection	Yes, 5 errors detection
Imbalance detection	Yes, alarm and shutout
Braking system	Automatic braking system
Interlocking lid	Yes
Lid open override device	Yes
Overheat alarm	Yes
Power supply	100V ~ 240V, 50/60Hz,
Standards	ISO9001/13485, CE, GMP, USFDA, QMS

Useful Adapter:



(Insert tube sleeve B into A for multiple use from 3 – 15ml)

Rotor Available:

	Swing-out Rotor No. S-1615S 16 x 10 ~ 15ml 2897g / 4000rpm		Swing-out Rotor No. S-0815S 8 x 10 ~ 15ml 2611g / 4000rpm		Swing-out Rotor No. S-0450S 4 x 50ml 2497g / 4000rpm
	Swing-out Rotor No. S-0850S 8 x 50ml 2883g / 4000 rpm		Swing-out Rotor No. S-0650S 6 x 50ml 2754g / 4000rp,		Fixed angle rotor No. A-2415 24 x 10~15ml 2996g / 4000rpm

Note: OEM for the new Tube to meet your intended use is welcome.



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Centrifuge

PLC-025

GMDN code 36465

- Power stabilization **100V ~ 240V** preventing power Surge accidentally
- The universal power source from **100V~240V, 50/60Hz**
- Brushless drive motor, maintenance free
- RPM /RCF Display and conversion
- Imbalance alarm & shutout
- Interlocking lid system (Lid can't be opened during spinning)
- Lid-open override device in case of power failure
- Automatic braking system within 1 minute
- Errors self-diagnostic detection (5 errors)
- Ideal for general purpose and many others in hospital & clinic
- Designed Max 4000rpm
- Program to memorize the setting parameters of last operation i.e. Time, RPM/RCF etc.



PLC-025

Specifications:

Overall dimension	360 x 450 x 345mm
Net weight	24 kg (not include buckets)
Speed range	100~4000rpm (±100rpm)
Max RCF	2639 x g, LED digital display
Rotor type	Swing-out or fixed angle
Motor	Brushless, DC24V, 215W
Timer	2-digital, 99 min, LED digital
Imbalance detection	Yes, alarm and shutout
Errors detection	Yes, automatically
Brake	Automatic braking system
Interlocking lid	Yes
Lid open override	Yes,
Noise level	56 ~ 62 dB
Overheat alarm	Yes
Power source	100V ~ 240V, 50/60Hz

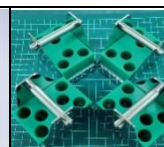
Buckets (Tube carriers)



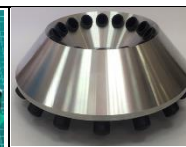
T-1516
(15ml x 16)



T-5004
(50ml x 4)



M-0524
M-2260



A-1615
(15ml x 16)

Bucket #	Capacity / tubes Nr.	Tube holder
M-1560	1.5ml x 60 tubes	12 (Ø) x 30mm (L) (±2mm)
M-2260	2.2ml x 60 tubes	12 (Ø) x 30mm (L) (±2mm)
M-0524 *	3 ~ 7ml x 24 tubes	14 (Ø) x 50mm (L) (±2mm)
M-0548	3 ~ 4ml x 48 tubes	12.5(Ø) x 50mm(L) ±2mm
T-1516	15ml x 16 tubes	17(Ø) x 90mm (L) (±2mm)
T-5004	50ml x 4 tubes	30(Ø) x 120mm (L) (±2mm)
A1615	15ml x 16 tubes	17(Ø) x 90mm (L) (±2mm)

* Apply to tubes of dimension 13 x 75 (3ml ~ 7ml)

Technical Data:

- Sophisticated module electronic circuit for easy maintenance.
- Stainless steel interior chamber and exterior body with powder coating easy for cleaning and scratch free.
- Indicators: Power, Timer, RPM/ RCF, LID OPEN, LID LOCK, Alarm, SPIN (SV), STOP, START
- Module Microprocessor-based circuit board ensures excellent performance and easy for maintenance.
- Errors detection: Imbalance, Disengaged connector, overload, Driver overheating, Motor overheating,
- Convert RPM and RCF readings automatically from one to the other just press the keypad slightly.



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Universal Centrifuge

PLC-066

GMDN Code: 36465

- Brushless drive motor, maintenance free, quiet use.
- Power stabilization **88V ~ 264V** preventing voltage surge accidently
- Power available from **100 ~ 240V**, 50/60Hz
- Safety Lid locking system that can't be opened during spinning
- RPM / RCF convertible & displayed automatically
- QUALITY guaranteed

Rotor Recognition:

This centrifuge functions the Rotor Recognition. User choose the Rotor number and press the keypad to find the rotor number, then It will activate the program for an accurate RCF.



Intended Use:

Clinical or other purpose. Used mainly in the clinical laboratory to separate the components of suspensions through low- or medium-speed centrifugal force. If relevant, all levels of health care with laboratory. Ideal use in clinical laboratory, histology, haematology, immunology, microbiology, pathology, serology and toxicology.

Technical Data:

- Automatic imbalance detection system prevents damage by gently bringing rotor to a complete stop
- Manual over-ride lets you open lid easily in case of power failure.
- Module microprocessor-based circuit board ensures excellent performance and easy for maintenance
- Lid can't be opened only when power is switched on.
- Safety interlocking system. LID can't be opened while rotor is spinning unless the set time has elapsed.

Specifications

Model	PLC-066
Overall dimension	410 x 460 x 325mm approx.
NW / GW (kg)	21.0 / 26.5 kg approx.
Brushless drive motor	DC24V, 116W (Rated) / 215W (Max)
Speed range	1000 ~ 4300rpm (4-digit), 10rpm increment
Rotor	Various, interchangeable
Timer	2-digital, 99 min. LED digital
Control system	Microprocessor controlled system
ERRORs detection	Yes, 5 errors detection
Imbalance detection	Yes, alarm and shutout
Braking system	Automatic braking system
Interlocking lid	Yes
Lid open override device	Yes
Overheat alarm	Yes
Standards	ISO9001/13485, CE, QMS, USFDA

Rotors Available

Using maximum speed: 4300rpm (± 100 rpm)

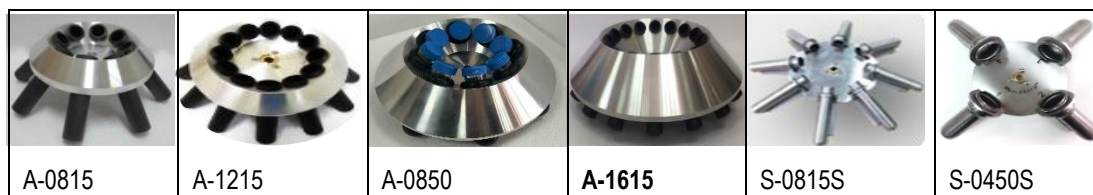
Cat. #	Capacity	Max RCF at 4300rpm
S-0450S	4 x 50,ml (swing-out)	2885 g
S-0815S	8 x 15ml (Swing-out)	3018 g
A-1215	12 x 15,ml (Angle)	2346 g
A-0815	8 x 10-15ml (Angle)	2180 g
A-0850	8 x 50ml (Angle)	2783 g
A-1615	16 x 15ml (Angle)	3042 g

S: Stainless steel tube adaptor

P: Plastic (Eng. nylon) tube adaptor

Remarks: All measurements are approximated and is subject to change

Rotors Available



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Universal Centrifuge

PLC-012E, PLC-024

GMDN Code: 3646

- Various Rotor in one Centrifuge
- *Best-Selling Centrifuge
- Affordable price
- Excellent Quality



PLC-024



PLC-012E



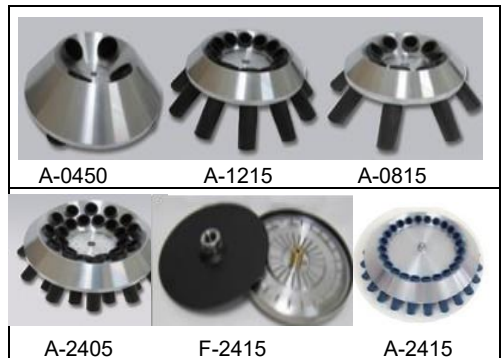
PLC-012

Intended use

A device that is a general-purpose laboratory centrifuge used mainly to separate the components of suspensions through low-or-medium-speed centrifugal force. It is typically a low speed (up to 6000rpm) or medium speed (up to 12000rpm) machine. Ideal use in laboratory center, Education, Agriculture, Biochemistry, toxicology, Microbiology... etc.

Specifications :

Code	PLC-012	PLC-012E	PLC-024
Dimension	310 x 360 x 310mm	310 x 360 x 310mm	440 x 470 x 420mm
Weight (N./G.)	15.0 / 16.5kg ± 0.5 kg	15.0 / 16.5kg ± 0.5 kg	27.0 / 30.5kg ± 0.5 kg
Timer	Mechanical 60 min.	Digital 0-99 minutes	Digital 0~99 minutes
Speed display	Gauge	LED digital display	Gauge
Speed *	12000-13000rpm $\pm 10\%$	12000-13000rpm $\pm 10\%$	3600rpm $\pm 10\%$
Lid lock	Yes	Yes	Yes
Brake	Toggle switch	Toggle switch	Toggle switch
Safety shutout	Yes	Yes	Yes
Chamber	Stainless steel	Stainless steel	Stainless steel
Motor	Brush 100W	Brush 100W	Brush 250W
Power source	110 or 230V, 50/60Hz	110 or 230V, 50/60Hz	110 or 230V, 50/60Hz
Standard	ISO, CE, QMS, FDA	ISO, CE, QMS, FDA	ISO, CE, QMS, FDA



- When angle rotor is used, maximum speed to 5000rpm is recommended just for safety purpose.
- When rotor F-2415 is used for HCT testing, the fixed max speed is 12000-13000rpm ($\pm 10\%$)

Important:

Over time, the carbon brushes will gradually wear out, reducing the friction between the motor and the brushes. As a result, the motor speed may exceed the rated speed. If the speed exceeds the rated value by **more than 10%**, please consult the qualified-laboratory-personnel to determine whether the operating procedure should be adjusted.

If normal operation cannot be restored, it is recommended to replace the motor with a new one.

Technical Data:

- Variable speed control for all purposes sustains to separate substance, remove moisture or simulate gravitational effects.
- Air intake holds in the cap help keep centrifuge cool during the extended use.
- Safety locking latch and inter switch shut off motor automatically when lid is opened during spinning.
- Rotor changes are fast and simple with the quick-release rotor nut with an attached hexagon wrench.
- Modular electronic circuit easy for handling and maintenance.
- Press toggle switch and Brake to the complete stop within 15 – 20 seconds.

Rotor Available (PLC-012, PLC-012E)

Rotor	Capacity (ml)	Max rpm / RCF	Suggested tubes
A-0815	8 x 10 ~ 15ml	5000 rpm / 2949xg	16 x 100 or 17 x 120mm (10 ~ 15ml.)
A-1215	12 x 10 ~ 15ml.	5000 / 3172xg	16 x 100 or 17 x 120mm (10 ~ 15ml.)
A-2405	24 x 5ml	5000 x 2865xg	12mm x 75mm (round bottom)
F-2415	24 x 0.75ml	12000 / 14490xg	Ø12mm x 75mm capillary (PLC-012, PLC-012E only)
A-0450	4 x 50ml	5000 / 3284xg	30mm x 115mm
A-2415	24 x 10 ~ 15ml	3600 / 2426xg	Used for PLC-024 only

- All measurement is allowed $\pm 3\%$ (Speed $\pm 10\%$)
- For safety, maximum speed to 5000rpm is recommended for fixed angle rotor
- For HCT testing (rotor F-2415), recommend a minimum of 5 minutes at 11500 ~ 13000rpm



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Micro Hematocrit Centrifuge

KHT series for HCT

GMDN code 32429

This Centrifuge has been tested IEC/EN60601-1, complied with **MDR Regulation (EU) 2017/745** - Medical Device. Ideal for medical use in Hospital and Clinics.
(Apply to PLC-012B, KHT-430B and KHT-410E)



KHT-400



**KHT-410E(B), (C)
(Automatic Brake)**

(KHT-410E(C): Brushless)



KHT-410E



KHT-430B (Auto Brake)



Reading scale



Rotor: F-2415

Introduction to model KHT-410E(C)

Brushless DC motor, 153W	Automatic braking system
Fixed speed 12000 ~13000rpm (± 130 rpm)	ERROR Self-detection, 4-ERROR
Voltage stabilization (88V ~ 264V)	Power source from 100V ~ 240V, 50/60Hz

Intended use:

This is "Class 1" medical device, providing a speed of 12000rpm to separate the red blood cells, and define the volume percentage PCV of Red Blood Cells against the whole body reflecting the status of Red Blood Cells in patients with normal and abnormal, including anemia (Red blood cells abnormally total low) and polycythemia (Red blood cells abnormally increased). Ideal for use in hospital, clinic and lab center.

Recommendation: Centrifuge for a minimum of 5 minutes at 11500 – 13000rpm

Model	KHT-410E KHT-410E(B)	KHT-430B	KHT-400
Dimension (W*D*H)	250 X 300 X 250mm	310 x 360 x 310mm	260 x 280 x 240mm
N. weight (kg) approx.	11.0 kg	16 kg	7.5 kg
Motor	Brush AC motor, 100W	Brush AC motor, 100W	Brush AC motor, 100W
Brake	Manual brake	Automatic brake	Manual switch
Max speed ($\pm 10\%$)	Fixed 12000rpm ~ 13000rpm	Fixed 12000 ~ 13000rpm	Fixed 12000 ~ 13000rpm
Max RCF ($\pm 10\%$)	14490~17005xg	14490~17005xg	14490~17005xg
Timer	Digital 99 min	Digital 99 min	Mechanical 60 min
Safety locking lid	Yes	Yes	Yes
Standard accessory	Reading scale, Rotor F-2415	Reading scale, Rotor F-2415	Reading scale, Rotor F-2415
Power source	110 or 220V, 50 or 60Hz	110V or 220V, 50 or 60Hz	110V or 220V, 50 or 60Hz
Standards	ISO, CE, QMS, USFDA	ISO, CE, QMS, USFDA	ISO, CE, QMS, USFDA

All measurements are approximated which are subject to change without advanced notice

Capillary tube: 1.1 – 1.2mm (I.D.), Wall 0.2mm + 0.02mm, 1.4 ~1.7mm (O.D.); Length 75mm

Safety locking system: Shut off power when lid is opened during motor spinning.

Disclaimer (Speed vary $\pm 10\%$)

Note: This centrifuge is equipped with AC motor, its practical speed may vary slightly from the rated speed due to many factors: Motor characteristics, control components precision, load level, voltage and frequency fluctuations & stability, carbon brush wear and friction, etc. The rated difference is approximately 10%. If it exceeds 10%, we recommend that you consult your local qualified lab personnel to update operating parameters or the set time, or replace the motor.

Technical Data :

- Fast acceleration to max 12000 ~ 13000rpm (F-2415).
- Transparent viewer on top provides an easy investigation of rotor running.
- Module microprocessor-based circuit board ensures excellent performance and easy for maintenance.
- PLC-012E and PLC-036H: Use Rotor F-2415 for hematocrit HCT testing.



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Micro Hematocrit Centrifuge

KHT-410E(c)

(45 Years Manufacturing Experience)

GMDN code 32429

Another choice of Hematocrit Centrifuge:

Features:

- **Brushless** motor, 153W. Quiet, Low dB and maintenance free.
- Power source available from **100V ~ 240V**
- Power Stabilization: **88V ~ 264V** prevents from power surge accidentally.
- Not need to install high-cost power stabilizer
- Emergency STOP. Press Button to release Lid
- Automatic braking system
- ERRORS detection and display
- Comes with Hand Lid Lock, and the button to release Lid when EMERGENCY
- Excellent Quality, Affordable Price, best after-sales service



KHT-410E(c)
(Brushless Drive)

- This centrifuge has been tested IEC/EN60601-1 and IEC/EN 61010-1 complied with **MDR** Council Regulation (EU)2017/745 medical device and council EMC directive 2014/30/EU & Regulation (EU)2017/746 IVD medical devices.

Specifications:

Model	KHT-410E(b)	KHT-410E(c)
Dimension (W*D*H)	250x 300 x 250 mm	250 x 300 x 250 mm
N. weight (kg)	12.0 kg	13.5 kg
Motor	Brush AC motor, 100W	Brushless DC motor, 153W
Max speed / RCF(±10%)	Fixed 12000rpm / 14490xg	Fixed 12000rpm ±100rpm/ 14490xg
Timer	Digital 99 min, adjustable	Digital 1 ~ 99 min, adjustable
Safety locking lid	Ye, Hand Lid Lock	Yes, Hand Lid Lock
ERROR detection	NA	Yes, 4 Errors self-diagnostic, alarm
Voltage surge protection	Fuse only	Yes, voltage stabilization (88V~264V)
Power source	110V 60Hz or 220V 50Hz	Auto, 100V~240V, 50/60Hz



Reader (Aluminum)



Rotor: F-2415

Capillary tube: 1.1 – 1.2mm (I.D.) + Wall 0.2mm + 0.02mm = 1.3 ~ 1.5mm (O.D.), Length 75mm

Safety locking system: Shut off power when lid is opened during motor spinning.

Intended use:

This is "Class 1" medical device, providing a speed of 12000rpm to separate the red blood cells, and define the volume percentage PCV of red blood cells against the whole body reflecting the status of red blood cells in patients with normal and abnormal, including anemia (Red blood cells abnormally total low) and polycythemia (Red blood cells abnormally increased). The normal value of HCT for male is 40-54% and 38-47% for female. It is also tested for Jaundice and also microbe immunity and for photometric determination of bilirubin content in blood samples form newborns (**Recommendation: Centrifuge for a minimum of 5 minutes at 11,500 rpm ~ 12000 rpm**)

Important: (Speed ±10%) for Brush motor

Over time, the carbon brushes will gradually wear out, reducing the friction between the motor and the brushes. As a result, the motor speed may exceed the rated speed. If the speed exceeds the rated value by **more than 10%**, please consult the qualified-laboratory-personnel to determine whether the operating procedure and time should be adjusted.

If normal operation cannot be restored, it is recommended to replace the motor with a new one.



(Manufacturer & Exporter) since 1981

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Dun & Bradstreet DUNS No. 656777729
TUV Rheinland Verification 000004807 5003

Differential Counter (Blood Cell Counter)

Hand-Tally, Convenient

DBC-8E

GMDN Code 35103

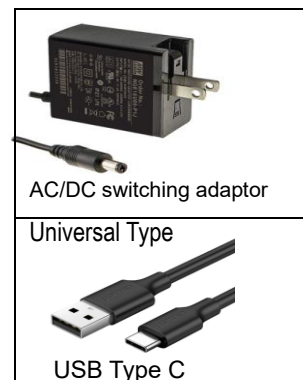
Features:

- Power source available from **100V ~ 240V**, 50/60Hz
- Power stabilization from **100V ~ 240V**
- In case of power failure, the unique design keeps the counter Working by power bank which must be prepared by user.
- 8 programmable keys for 8 cells, additional 4 keys for other functions e.g. CLEAR, LOCK, DECREASE and %. Making total of 12 keypads
- In case of the main power failure, use **Power Bank** to continue counting.



Technical Data & Intended use:

- The Differential Counter measures the percentages of each type of leukocyte present. 8 units Lab-count with Totalizer, for simplifying differential blood cell counts
- The 8 keys represent the normal Schilling Group of Leucocytes, i.e. Baso. Eoish., Seg., Lymph., Mono., Myelo., Juven, Stab. Above each key is the name of particular cell Each stroke registers both in the unit corresponding to its pressed key
- When a total of every 100 cells are counted, a bell rings or a sound buzz. For a more accurate count, continue until the Totalizer reaches 200 and then divide the figures
- Heavy gauge ABS exterior case with special surface treatment, corrosion free.
- The cells pictures and name are clearly displayed easy for user to recognize the cells



× Medical Grade is available for extra cost

Functions:

- **% Percentage:** Press the keypad to convert all cells to percentage. Easy for reading.
- **CLEAR:** Press the key to clear all figures to ZERO (0).
- **+ / - :** Press the key to decrease 1 number of the corresponding cell and Totalizer too.
- **LOCK:** Press the key to block all functions. One more press to recover to the normal function.

Specifications:

Model	DBC-8E
Power source	Yes, AC/DC switching adaptor available from 100V ~ 240V, 50/60Hz
Power stabilization	Yes, from 100V ~ 240V,
Power failure or blackout (WARNING)	Power bank to keep working (Prepared by USERS) Users are required to prepare their own "Power Bank" with CE or equivalent international safety certification to ensure safe usage and prevent any potential hazards.
Standard accessory	AC/DC adaptor
Overall dimension	195 x280 x 50/90 mm (L*D*H)
Leucocytes	8 units: Baso., Eoish., Seg., Lymph., Mono. Myelo., Juven, Stab.
Totalizer	Yes
Control	Microprocessor
Display	0 ~ 999
Alarm at 100	Yes, Sound buzz
Percentage %	Yes, % display (press keypad)
N. Weight (±0.2kg)	1.8 kg approx. (Subject to final packaging)

No fear of power failure or blackout,

Use **Power bank** to keep the counter working



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Dun & Bradstreet DUNS No. 656777729
TUV Rheinland Verification 0000048075003

Thermostatic Water Bath

YCW-Series



All Stainless Steel



YCW-010E (W/ Timer)

GMDN code 42438



YCW-010



YCW-05



YCW-05(Digital)



YCW-04M, YCW-01

Specifications

Model	YCW-01 (22 L.)	YCW-010	YCW-05
	YCW-04M (11 L.)	YCW-010E (w/ Timer)	YCW05 (digital)
Temperature control	Analog	Microprocessor, PID	Analog / Microprocessor
Overall dimension	535 x 335 x 280mm 335 x 275 x 280mm	535x335x335mm (22L.) 335x375x335mm (11L.)	275 x 170 x 325 mm
Weight approx. (kg)	9.5/6.5 kg (22 /11L.)	11.5 / 8.5kg (22L/11L.)	5.4kg
Temperature readout	Thermometer	LED digital	Thermometer / LED digital
Temperature resolution	1°C	0.1°C	0.1°C (digital)
Temperature range	Ambient +5°~100°C	Ambient +5°~100°C	Ambient +5°~100°C
Temp uniformity	±0.1°C	±0.1°C (34L:±0.5°C)	±0.1°C
Temp accuracy	±0.2°C	±0.2°C (34L:±0.5°C)	±0.2°C
Water circulation	Yes, stirrer	Yes, stirrer	Yes, stirrer
Heating element	1000W	1000W	500W
Timer (YCW-010E)	NA	Digital 99 hr.59 min.	NA (YCW-05)
			LED Digital 99 hr. 59 min.
Overheating & low-water level shutout	Yes	Yes	Yes
Power source	110/ 220V, 50/60Hz	110/ 220V, 50/60Hz	110/ 220V, 50/60Hz
Standards	ISO, CE, GMP, FDA	ISO,CE,GMP,FDA	ISO,CE,GMP,FDA

- All measurements are approximated and specifications is subject to change without advanced notice.
- Bath Dimension: 11L: 300 x 240 x 150mm; 22L: 500 x 295 x 155mm; 5L: 240 x 140 x 150 mm
- 34 L: bath 40 x 58 x 15cm (W * L * H)
- Optional **Drain** valve and perforated tray for extra cost to meet your requirement.
- Concentric rings Flat LID: Based on the hole diameter of 107mm

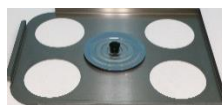
11L: 2 openings	22L: 4 – 5 openings	34L: 7 -8 openings
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Features :

- **Intended use:** Water bath is to provide constant temperature environment by heating water for biotechnology, chemistry, medical environmental, industry, clinical research, education and general laboratory applications of temperature range from ambient +5°C - 99°C
- Molded bath with round corners and seamless stainless steel sides ensure efficient circulation and easy cleaning
- Equipped with immersion heating element sheathed with stainless steel, corrosion free.
- Improve temperature uniformity by rotating water stirrer to direct flow to various areas of the bath.
- **YCW-010, YCW-010E** comes with safety devices of microprocessor-based digital controller. Audible & visible alarm is activated and shut out power to 2°C above the set point. Timer starts when the temperature has been stabilized.
- **YCW-010E** functions alarm and the display with "END" after the completion of the operation cycle.
- **YCW-01, YCW-04M** are the most practical and economic models, but with excellent performance. Pilot lamp indicates the heater is energized and stabilized. Comes with mercury thermometer for direct readout

Optional accessories (Flat cover with rings)

Rings of inner diameter: 107, 80, 55, 31.5, 21mm
(5 openings for 22 liters and 2 openings for 11 liters)



Tube Rack (13 or 18mm)



(Manufacturer & Exporter, since 1981)
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 TUV Rheinland Verification 000004807 5003

Shaking Water Bath

YCW-012S

Excellent Quality

GMDN code 42438



(Choice of All Stainless steel)



YCW-011S (11 L.)



YCW-012S(22 L.)

Intended use :

This equipment provides a safety heating and stabilized temperature within the range from slightly above to 99.9°C. Ideal for chemical, biological, clinical and laboratory applications. It is also applied to use in Blood bank for **blood products** and other medical, biological and scientific products.

Specifications :

Model	YCW-012S	YCW-011S
Tank capacity	22 L approx.	11 L approx.
Working capacity	17.5 L approx.	7.0 L approx.
Overall dimension	740 x 335 x 360mm	530 x 300 x 310mm
Chamber dimension	500 x 300 x 150mm	300 x 240 x 150mm
Wattage consumption	1KW(Heater)+25W (motor)	600W(Heater)+6W(Motor)
Temperature readout	LED digital	
Timer	Digital, 99 hours 59 minutes + HOLD, adjustable	
Shaking speed	20 ~ 200rpm adjustable	
Temperature control	Microprocessor controlled system, P.I.D.	
Temperature sensor	PT-100	
Temperature range	Ambient to 99.9°C, adjustable	
Temperature stability	±0.05°C at 37°C	
Temperature accuracy	±0.1°C	
Temperature uniformity	±0.1°C	
Temperature resolution	0.1°C	
Over temp cutoff	Yes, 2°C to the set point. Alarm and shutout	
Low water protection	Yes, alarm and shutoff	
Shaking stroke	20mm reciprocal per cycle	
Drain valve	Yes, easy for draining water and cleaning bath	
Water circulation	Yes, circulating stirrer ensuring uniform temperature	
Standard accessory	1. YCW-012S: Tube rack 13 /18mm x 40 tubes each 1pc 2. YCW-011S Tube rack 18mm x 27tubes x 2pc 3. 2 Spring bungee to fix tube rack	
Optional accessory	Platform & clamps for flasks, Spring Platform for Tube	
Quality standard	ISO9001/13485, CE, GMP, USFDA,	

A) Optional platform & clamps for Flasks



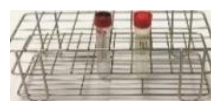
Cat. No.	Flasks	Number
FP-025	25 ml	20 clamps
FP-025	25 ml	20 clamps
FP-050	50 ml	12 clamps
FP-125	125 ml	12 clamps
FP-250	250 ml	6 clamps
FP-500	500 ml	4 clamps
FP-1000	1000 ml	2 clamps

B) Optional Spring platform for tube



Applied to:
5ml, 8ml, 10ml
15ml, 50ml

C) Standard accessory (Tube Rack)



13mm x 20 Or 40 tubes
18mm x 20 or 40 tubes

Technical Data :

- This equipment combines the features of heated bath and mechanical shaking function to agitate samples. Intended use for biology, biochemistry, industry and pharmacology applications.
- Choice of digital or analog setting to meet your requirement. Built-in circulating stirrer ensures uniform bath temperature.
- Heating lamp indicates the heating element is energized.
- When the set temperature is stabilized, the heating lamp becomes blinked or snuffed out.
- Tube rack and flask platform can be raised and lowered to suit the lengths of different vessel and test tubes. They are detachable and easy for installment.
- Seamless stainless steel inner chamber with round concerns gives added strengths and easy for clean.
- Steel outer housing with powder coating, corrosion and scratch free.
- An induction motor produces a 20mm circular motion with 0 dB, maintenance free.

(Manufacturer & Exporter) since 1981

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Shaking Water Bath

YCW-06S

H.S. Code 9027.80.90.90

GMDN Code: 42438

(Plasma Thawing Machine)



(Choice of 6 bags or 8 bags to meet your need)



6 controlled units



8 controlled Units

Intended use :

This equipment provides a safety heating and stabilized temperature within the range from slightly above to 49.9°C. Ideal for chemical, biological, clinical and laboratory applications. It is also applied to desfrost the frozen blood products including plasma and other medical, biological and scientific products. Clinical purpose: Thawing liquefaction of the frozen plasma at controlled temperature of $+37^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ and controlled time duration thus maintaining the properties of clotting factors in the plasma

Specifications:

Model	YCW-06S
Overall dimension	690 x 450 x 460mm approx.
Basket dimension	140 x 90 x 250mm
Maximum capacity	6 or 8 bags, 250ml ~ 500ml each
Gross weight	31 kg
Shaking stroke	20mm reciprocal per cycle
Shaking speed	Fixed at 80 ~ 100 rpm
Defrost temperature	34°C ~ 37°C
Defrost time	15 ~ 20 minutes from the 36.5°C
Ambient temperature range	15°C ~ 32°C (Do not exceed 37°C)
Working range	Ambient ~ 37°C
Temperature accuracy	$\pm 0.1^{\circ}\text{C}$ at 36.5°C
Temperature stability	$\pm 0.1^{\circ}\text{C}$ at 36.5°C
Temperature resolution	0.1°C
Timer	Digital 99 minutes adjustable
Temperature control	PID
Temperature sensor	PT-100
Water circulation	Yes, water stirrer
Water drain	Yes,
Overheat alarm	Yes, alarm + cutout
Sensor error alarm	Yes alarm (Er 2)
Double safety device	Relay to shut out when overheating
Low water level alarm	Yes alarm (Er 1)
Heating element	1000W. Stainless steel sheathed,
Power source	110V/60 Hz, or 220V/50Hz;
Standard accessory	Lid, Basket x6, overwrap bag x100

Features:

A. Temperature:

- Memory presets temperature at 36.5°C and 15 minutes easy for use.
- Automatic Heating if temperature less than 36.5°C
- When switch on power. Or alarm to decrease temperature if above 37.5°C.
- Overheating alarm to 37.5°C ensuring safety for plasma and blood. Efficient heating function accelerating to 37°C within short time from ambient

B. Construction

- Polished stainless steel chamber and baskets.
- Double-walled construction insulated with glass Fiber to maintain the temperature.
- Exterior case made by heavy gauge steel with Powder coated, scratch & corrosion free.
- Drain valve help refresh water and cleaning.

C. Cleaning:

- Drain valve help change water. Suggest clean bath everyday.
- Do not use bleaching powder or bealching agents for cleaning.

D. Overwrap Bag Protection:

- Comes with snap-seal overwrap bag to isolate the plasma from the internal water supply, preventing from the possible contamination.
- The overwrap Bag material won't create plasticizer at 36.5°C ~ 37.0°C. No worry about water contamination.

Specifications are subject to change without notice in advance.

Summary:

- **Preheating :** Power (Built-in 36°C and 15 min.) → Heat → Stabilized at 36.5°C
- **Defrosting :** Load plasma into Safety-bag → Place into basket → Set time → Shaking → Start → Alarm (Time out) → Defrosted → Shaking OFF → Take off bag

Orbital Shaker

VDRL Shaker/Agitator

GMDN Code: 43845



VRN-480B (LED RPM + TIMER)



VRN-200



VRN-360



VRN-210

Specifications : (Subject to change for improvement without advanced notice)

Model	VRN-200	VRN-210	VRN-360	VRN-480 (or B)
Overall dimension	290 x 290 x 170mm	215 x 200 x 130mm	300 x 320 x 200mm	400 x 200 x 216mm
Platform dimension	260 X 260mm	215 x 175mm	260 x 260mm	420 x 280mm
Speed range (±3%)	75 x 250 rpm	75 x 250 rpm	75 x 250 rpm	40 – 400 rpm
Orbit size (dia.)	21mm	21mm	21mm	25.4mm
Load at 100 rpm	1 kg	1 kg	1 kg	15 kg
Accuracy at 100rpm	±5 rpm	±5 rpm	±5 rpm	±5 rpm
Net weight (±5%)	5.0 kg	2.5 kg	3.5 kg	14.8 kg
Timer	Yes, 60 minutes	Yes, 60 minutes	Yes, 60 minutes	VRN-480, 180 min + HOLD VRN-480B: LED digital
Operation	Switch / Timer	Switch / Timer	Switch / Timer	Switch / Timer
Fixed speed	130rpm or 100 rpm	130rpm or 100rpm	130rpm or 100 rpm	130rpm or 100rpm
Standard accessory	Bungee cords	Bungee cords	Bungee cords	Bungee cords
Power supply	110 ~120VAC. 60Hz	110 ~120VAC. 60Hz	110 ~120VAC. 60Hz	110 ~120VAC. 60Hz
Standard	ISO, CE, FDA, QMS	ISO, CE, FDA, QMS	ISO, CE, FDA, QMS	ISO, CE, FDA, QMS

VRN-480 Flask clamps

Code	Volume of Flask	Ø of flask	Total No. of held
GE-50	50 ml	65 mm	15 pc
GE-125	125 ml	71 mm	15 pc
GE-250	250 ml	85 mm	11 pc
GE-500	500 ml	107 mm	6 pc
GE-1000	1000 ml	147 mm	2 pc

Optional accessory for Clamp or Cradle (VRN-480)



Features :

- **Intended use:** A piece of laboratory equipment used to mix, blend or agitate substances in a tube of flask by shaking them. GEMMY shaker is designed for long-term uniform mixing. Ideal for mixing test solutions in micro-titration assays, and also for use in hematology, urology, or EIA/ELISA immunology. Applications for Alpha, Kline, Mazzini, Syphilis, pregnancy and others-
- Textured non-slip rubber foam mixing pad holds various sizes of culture plates, flasks and test tube racks by means of friction.
- **The mechanical timer will ' RING ' at the end of set-time.**
- Triple eccentric drive mechanism and counterbalance provide a vibration free 3/8" orbit at high speed, even under heavy of imbalanced loads.
- Permanently lubricated, sealed ball bearings. The entire drive, housed in a precision machine, sits on four cushioned feet that prevent creeping.
- Set switch for continuous operation or set time for intermittent operation for timed shaking.



(Manufacturer & Exporter) since 1981

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TUV Rheinland Verification 000004807 5003

Vortex Mixer

VM-300, VM-300P

GMDN code: 43845

Excellent Quality

Best After-Sales Services

Intended Use:

A Vortex Mixer (Vortex Shaker) is a usually small device used in laboratories to shake or mix small vials of liquid substance. Its most standout characteristic is that it works by the user putting a tube, vial or flask or microplate etc. on the shaking platform and turning it on, thus, the vial is shaken along with the platform. A vortex shaker is very variable in terms of speed adjustment, for the shaking speed can be continuously changed while shaking by turning a switch.

Most vortex mixers are designed with 2 or 4-plate formats, have variable speed settings ranging from 100 to 3,200 rpm, and can be set to run continuously, or to run only when press the rubber piece.

How Vortex Works:

It consists of an electric motor with the drive shaft oriented vertically and attached to a cupped rubber piece mounted slightly off-center. As the motor runs the rubber piece oscillates rapidly in a circular motion. When a test tube or other appropriate container is pressed into the rubber cup (or touched to its edge) the motion is transmitted to the liquid inside and a vortex is created.

Model	VM-300	VM-300P
Dimension	130 x 175 x 180mm	139 x 153 x 147mm
Eccentric Ø	5.6mm	4.4mm
Timer	No	Yes, 60 or 180 min.
Head cup	15 ~ 50ml, multi tubes	Various
Operating Modes	Touch / Switch	Touch / Switch
Speed (single tube)	2800 ~ 3400rpm ±5%	2800 ~ 3400rpm ±5%
Standard accessory V.M-3001	Single tube head cup Diameter: 26mm Ø	Single tube head cup Diameter: 26mm Ø
Optional accessory	3" head only	Various head cups
Power source	115V or 230V, 50 or 60	115Vor 230, 50 or 60Hz
Net weight	4.5kg	3.6kg



VM-300



**Option
(3" multi-tube)**

Features:

- Various speed control to the maximum of 3200rpm, provided gentle or vigorous vortexing.
- 2 interchangeable mixing head, i.e. snap on the 26mm diameter rubber cup head for conventional single tube mixing, or a 3" diameter platform pad for multiple tubes and one flask mixing.
- 2-mode operation features "TOUCH" for intermittent operation, or "SWITCH" activated operation at the flip of a switch for continuous mixing.
- Stirring intensity can be controlled in "TOUCH" mode by applying the pressure to the mixing pad.
- Aluminum alloy housing for VM-300, while heavy-duty plastic housing for VM-300P or VM-300P-2
- User-friendly design capable of sustaining to prevent mixer from slipping and creeping due to the vibration.



VM-300P

Optional accessories for VM-300P-2

Catalogue #	VM-3001	VM-3002	VM-3003	VM-3004
Dimension	Ø26.0mm	Ø210mm	Ø210mm	Ø 83mm
Material	Polyurethane	Formed PE	Formed PE	NBR rubber
Capacity	Single tube	<u>Eppendorf</u> 1.5/3.0ml x 30 0.5ml x 30 tube	<u>Micro-plate</u> 96 wells	<u>Flasks</u> Max 83mmØ



VM-300P (With Timer)



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Roller Mixer

VM-370(B)

3-Dimentional Rocking Rolling.

GMDN Code 43845

- Functions of Fixed speed and various speed adjustable
- 2 modes of operation: Timer and Switch
- Removable Rollers are also available for choice.



5 Rollers

7 Rollers

LED digital Timer
VM-370(B)-D

Features:

- GEMMY Roller Mixers have been designed with functions, reliability and safety in mind, providing a gentle and quiet rocking and rolling mixing at a fixed speed of 40rpm or adjustable speed from 10 – 40rpm for blood samples, Reagents, viscous substances and others that rocking and rolling action is required.
- The rocking and rolling action is motioned simultaneously by the built-in POM gears quietly and smoothly.
- 19mm diameter eccentric to produce 3-dimension rocking at both sides.
- Operates for continuous or set time for intermittent operation up to 180minutes with HOLD function
- LED digital timer is also available for more accurate operation. 99 minutes or set HOLD for continuous operation.

Modes of Operation:

Set Speed:

- Set switch "FIXED" for the fixed speed at **40rpm**. Or set switch to "VR" position to adjust speed from 10 ~ 40rpm

Set Time

- Set Time to the desired setting for intermittent operation
- Set Timer to HOLD for continuous operation

Specifications:

Model	VM-370 (B) (Choice of 5 Rollers or 7 Rollers)	
Overall dimension	230 x 455 x 115mm (5 rollers)	310 x 485 x 115mm (7 rollers);
Net weight	5 kg (11.1 Lb.) (5 rollers) / 6.2kg (13.6 Lb.) (7 rollers) approx.	
Roller number	5 rollers or option for 7 Rollers	
Roller size	32mm (Ø) x 320mm (L) approx.	
Motor	Brushless motor 24V, 5.17W	
Timer	Mechanical 180 minutes + HOLD Choice of LED digital timer (99 min + HOLD)	
Operation	2 modes for Continuous or Timer activated for intermittent	
Rocking range	19mm diameter (±0.5mm)	
Max load	5 kg (11 Lb.) (5 rollers). Approx.	
Power source	110V or 220V, 50/60Hz	

(Specifications are subject to change without advanced notice)

Loading Capacity

Volume	4 – 8 ml	10 – 15ml	50ml	100ml	250ml	500ml	1000ml
Tube size	Ø 15*80mm	22/5*120	34.5*116.5	48*95	61*127	77*155	96*195
5 rollers	12 ea.	8	8	6	4	4	2
7 rollers	18 ea.	12	12	9	6	4	2



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CE FDA



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Hot Air Oven Sterilizer

YCO-010 / YCO-N01

GMDN code 35364

Very Salable in World Market

Intended Use:

The apparatus is designed for general application in variety of sterilizing medical devices, baking, drying, conditioning, preheating, curing for dry content analysis, chemical resistance studies, glassware drying, dry sterilizer etc., using elevated temperature in the absence of moisture as the sterilizing agent for the inactivation of micro-organisms.

Technical data

- Double-wall with heavy- gauge glass fiber insulation sustains to prevent the heat loss and maximize energy efficiency.
- Exterior steel treated by powder coating ensures scratch/corrosion free
- The height of stainless-steel wire-rod shelf is adjustable in order to meet the various samples.
- **YCO-N01** is designed when the cost is the major consideration to the users. Natural convection is used when the accurate temperature control and uniformity are not critical important to users and your samples can't be disturbed by air current.

YCO-010



YCO-N01



(Choice: Stainless steel)

Specifications:

Model		YCO-N01						YCO-010					
Timer		Mechanical, 180min. + HOLD						Digital, 99 hours 59 minutes, + HOLD					
Display		Thermometer						LED digital					
Temperature control		Analog						Microprocessor					
Capacity	Liter	34 L	75	90	150	200	250	36 L	75	110	150	200	250
		53 L		110				57 L	90				
Wattage		750W	1000	1500	1500	2000	2000	750W	1500	1500	1500	2000	2000
Temperature uniformity		±2°C at 180°C						±1°C at 180°C					
Temperature stability		±1°C at 180°C						±0.1°C at 180°C					
Resolution		1°C						1°C					
Over-heat alarm		Yes, At 220°C						Yes, 10°C above the set point					
Air convection		Natural convection						Forced convection by fan					
Interior Chamber		Stainless steel SUS#304						Stainless steel SUS#304					
Temperature range		Ambient + 5°C to 250°C						Ambient + 5°C to 250°C					
Control system		Analog						Microprocessor controlled system					
Temperature control		EGO thermostat						PID					
Sensor		Hydraulic expanded (Germany)						"K" type					
Standard Accessory		2 stainless steel shelves,						2 stainless steel shelves, interval is adjustable					
Quality standard		ISO13485, CE, USFDA, QMS, Japan						ISO13485, CE, USFDA, QMS, Japan					

YCO-010	36 L.	57 L	75L	110L	150L	200L	250L
Inner Chamber (cm)	33*33*33	38*39*39	42*42*43	48*48*48	53*53*53	53*71*53	63*63*63

(All measurements are approximated and subject to change)

YCO-010

- Function preheating with timer working only when the actual temperature at 2°C below set point.
- LED digital set and display for Power, Heating, PV, SV, Alarm, Timer and Operation Safety devices
- Over temperature alarm and shutout device to 10°C above the set point.
- Sophisticated design to shut off power protecting sterilizer from excessive heating at 220°C if primary control fails.
- Audible & visible alarm indicated by indicator.
- Timer stop counting when PV is 5°C below SV after stabilization if door is opened

Optional battery-backup program:

In case of power failure or blackout, the built-in battery-backup program functions to store the preset time and temperature. Once power is restored, the heating element starts to energize and stabilize at preset temperature and timer starts to count down for the remaining time. Users do not need to reset parameters, equipment can activate to work automatically.



(Manufacturer & Exporter) since 1981

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CE FDA



Dun & Bradstreet DUNS No. 656777729
TUV Rheinland Verification 000004807 5003

Laboratory Incubator

Lab Incubator

[Battery backup memory]

GMDN code 35482

Intended use:

A device heated by electrical currents passing through a heating block containing simple resistors for the purpose of growing micro-organisms and cells that required oxygen for growth. Aerobic incubators are typically used for serology and crystallization studies, tissue culture works, paraffin embedding and in vitro fertilization.

Technical Data:

- Heavy-duty glass fiber insulation sustains to prevent the heat loss and maximize energized efficiency.
- Double wall of exterior steel treated by powder coating ensuring scratch free and corrosion free.
- The height of stainless-steel mesh shelf is adjustable
- A tempered glass window on front door to substitute the glass door is easy for monitoring specimens, which does not require to open the outer door so as to prevent from the disturbing the samples

IN-010



IN-601



Stainless steel (Option)

Battery Backup Memory in case of power failure: (IN-010)

In case of power failure, the built-in battery-backup program (CMOS #CR2023), can store the preset temperature and time. After power supply is restored, the equipment can work automatically. The heater starts to energize and stabilize at the preset point, then Timer starts to count down the remaining time.

Users do not need to reset temperature and time.

WARNING: User needs to remember the past time and remaining time after power is restored. if the remaining time is insufficient to incubate specimen, user need to reset the time and temperature.

Specifications:

Model		IN-601 (Analog)							IN-010 (Microprocessor)							
Capacity	Liters	34	53	75	90	110	150	200	36	53	75	90	110	150	200	250
	Wattage	350	350	350	500	500	750	750	350	350	350	500	500	750	750	750
Chamber		Stainless steel SUS#304							Stainless steel SUS#304							
Temperature range		Ambient + 5°C to 75°C							Ambient + 5°C to 75°C							
Control system control		Analog							Microprocessor							
Temperature display		Mercurial thermometer							LED digital display							
Sensor		Hydraulic expanded							PT-100							
Standard Accessory		2 stainless steel mesh shelves							2 stainless steel mesh shelves							
Timer		Mechanical, 180min + HOLD							LED digital, 99 hours 59 minutes + HOLD							
Temperature setting/Display		Analog / Thermometer							LED digital display							
Temperature uniformity		±2°C at 37°C							±1°C at 37°C							
Temperature stability		±1°C at 37°C							±0.1°C at 37°C							
Resolution		1°C							1°C							
Over-heat alarm & shutout		Yes, At 80°C							Yes, 4°C above the set point							
Air convection		Natural convection							Forced convection by fan							
Power source		110V/60Hz, or 220V/50Hz							110V/60Hz, or 220V/50Hz							
Quality standard		ISO, CE, GMP, FDA, Japan							ISO, CE, GMP, FDA, Japan							

● All measurements are approximate. Specifications are subject to change without notice in advance

IN-010	36 L.	57 L	75L	110L	150L	200L	250L
Inner Chamber (cm)	33*33*33	38*39*39	42*42*43	48*48*48	53*53*53	53*71*53	63*63*63

IN-010 (Safety Devices):

- Function preheating with timer working only when the actual temperature at 2°C below set point.
- Over temperature alarm and shutout device to 4°C above the set point.
- Sophisticated design to shut off power protecting sterilizer from excessive heating at 75°C if primary control fails.
- Audible & visible alarm indicated by indicator.
- Timer stops counting when PV is 5°C below SV after stabilization if door is opened, the memory will store the past time and start to count when the PV value returns to 2°C below SV.

IN-601 is designed when the cost is the major consideration to the users. Natural convection is used when the accurate temperature control and uniformity are not critical important to users and your samples can't be disturbed by air current.

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Dry Bath Incubator

Block Heaters

GMDN code 36754



DB-006E-3 (3 x Blocks)



DB-006E-150 (3 blocks)

DB-006E-150: "**HIGH**" setting for 60°C to 130°C

DB-006E: "**LOW**" setting for ambient to 60°C (Suggest use Lid for better uniformity)

Specification

Model	DB-006E	DB-006E-150
Overall dimension (±10mm)	370 x 245 x 145mm	295 x 290 x 110mm
Net weight (include 3 blocks)	9.0 kg / 4.1 kg ±0.5kg	10.0 kg ±0.5kg
Temp setting/Reading	LED Digital (3-digit)	LED Digital (3-digit)
Temp range	Ambient + 5°C to 99.9°C	Ambient + 5°C to 130°C
Temp resolution	0.1°C	0.1°C
Temp accuracy	±0.1°C at 37°C	±0.1°C at 100°C
Uniformity	±0.2°C at 37°C	±0.2°C at 100°C
Temp sensor	PT-100	K-Type
Safety over-heat alarm & cut off	Yes	Yes
Heating element	450W	450 W
Timer (with HOLD)	Digital 99 hr. 59 min + HOLD	Digital 99hr. 59 min + HOLD
Optional accessory	Transparent Acrylic Lid	No
Quality standards	ISO13485, CE, QMS, USFDA	ISO13485, CE, QMS, USFDA

- Heating time: Less than 10 minutes to reach the set point of 37°C (depends on the operating environment)
- Drafts and ambient temperature changes will adversely affect temperature constancy and uniformity.
- Suggest use **Lid** for **DB-006E** for higher temperature constancy and uniformity
- All samples should be placed in identical tubes, filled to equal levels no higher than top of block. All sample tubes must be placed in identical blocks.

Intended Use:

GEMMY Dry Bath Incubators provides a controlled dry heat to incubate DNA specimen amplification, boiling, cross matching and screens in blood bank, incubating melted agar; Enzyme preservation, enzyme-substrate reactions, Enzyme assays, and electrophoresis gel degeneration, digestions, residue tests for milk and also great for serology, hematology, pathology and biochemistry etc.

The purpose of high temperature up to 130°C means that digital dry baths can be used for a variety of scientific applications including blood banking, pre warming technique, warming reagents, PCR, heating tubes and environmental laboratories.

Features:

- Activate auto-off function to automatically shut out heater at the end of timed cycle.
- Each block has a well to accommodate a removable thermometer, which monitors temperature of blocks.
- When complete the heat cycling, the timer will alarm and display "**END**".
- **DB-006E-150** features double wall construction with insulator by fiberglass for durability and good heat retention. Maximum temperature is designed up to 130°C capable of functioning more applications from 60°C ~ 130°C
- **Safety devices:** Over temperature alarm; Heating failure alarm.

Blocks available: (Aluminum)

Code	Tube Ø	Hole / Ø (Block)
DB-0830	7.5mm(1.0ml)	30 / 8mm
DB-1020	10.3mm (2.0ml)	20 / 10.5mm
DB-1220	12.35mm(4 – 5ml)	20 / 13.5mm
DB-1612	16.2mm(15ml)	12 / 16.5mm
DB-1812	16.2mm (15ml)	12 / 18.5mm
DB-2005	7.5mm (1.0ml)	20 / 0.5mm(inclined)
DB-2012	16.2mm (15ml)	12 / 20.7mm
DB-0529	28.8mm(50ml)	5 / 29.6mm
DB-2015	1.5ml Eppendorf	20 / 1.5mm
DB-2005	0.5ml Eppendorf	20 / 0.5mm
Block size	100 x 75 x 50 (mm)	



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Shaker Incubator

IN-666

Model: IN-666

GMDN Code 35482



Incubator

Capacity / Dimension / Heater / Platform for shaker	Capacity	Chamber	Heating element	Platform for shaker
	75 L.	600 x 540 x 720mm	350 W	380x450mm (15.0"x17.7")
	110 L	660 x 560 x 800mm	500 W	400x510mm (15.7"x20.0")
Working temperature	Ambient + 5°C to 75°C adjustable			
Temperature uniformity	±1°C at 37°C			
Temperature stability	±0.1°C at 37°C			
Temperature control	PID			
Sensor	PT-100			
Resolution	0.1°C			
Lamp	Yes, 23 W			
Timer	LED digital set and display, 99 hours 59 minutes + HOLD (indefinite)			
Indicators	LED lamps for Power, Heat, PV, SV, Alarm, Time, Operation, Speed			
Safety devices	- Over heat alarm & shutout to 2°C above set point. - Memory to store the temp and the past time if door is opened during operation.			
Standard accessory	2 stainless steel shelves + 1 stainless steel platform & rubber sheet for shaker			
Optional accessory	Stainless steel clamp for flasks 125ml, 250ml, 500ml			
Quality standard	ISO9001, ISO13485, CE marking, GMP, FDA			

- Designed for microbiological studies for tissue culture and viruses incubation.
- Heavy duty and double-walled enclosure for durability and good heat retention. The outer housing is finished by powder coat with baked enamel. Stainless steel SUS#304 interior chamber ensures corrosion and scratch free.
- The fiberglass insulation with silicon (or EPDM) door gasket prevents heat loss and maximizes energized efficiency.
- A viewing window made by tempered glass on door and also interior lamp allows for monitoring sample without opening door to disturb chamber environment. Tempered glass inside door is optional to meet your requirement.
- System will suspend incubating and shaking action when door is opened during operation. The memory will store the remaining time.
- Timer suspends counting should chamber temperature is 5°C below set point until the temperature returns to set point.
- When the entire cycle is completed, the words **"END"** will display on the screen and alarm sounds.

Shaker

- Triple eccentric drive mechanism with 6 lubricated and sealed ball bearings produces a 1" diameter circular motion and is counter-balanced to ensure smooth, vibration-free operation at any speed even under heavy or imbalanced loads.
- A 25W motor is isolated by a metal plate to prevent possible damage caused by spilled liquid or broken glass.
- The shaking action will stop should door is opened during operation.
- Platform is available for various types of vessel, bottles, flasks and 96-well microplate.

Platform (Stainless steel)		75 L	495 x 420 x 350mm
		110 L	550 x 440 x 460mm
Orbit diameter		Ø 25.4mm (1")	
Speed, digital display		40 – 400 rpm adjustable	
Clamps (option)	Flasks	75 L	110 L
	25ml	23 pc	23 pc
	50ml	22 pc	22 pc
	125ml	20 pc	20 pc
	250ml	16 pc	20 pc
	500ml	9 pc	9 pc
	1000ml	2 pc	3 pc
	2000ml	2 pc	3 pc



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Dun & Bradstreet DUNS No. 656777729
TUV Rheinland Verification 000004807 5003

Mobile Suction Unit

SU-305, SU-305P

(GMDN Code 36777)

(Super Power Suction Machine)

Intended use:

A device for producing a negative pressure comprising, e.g. a vacuum pump, electric motor, gauges, bacterial/moisture filters, an overflow trap, collection bottle(s) or canister(s). It is used in the treatment of the patient, e.g. for the aspiration of fluids and/or particulate matter. It is electrically powered and is typically used for heavier duties, e.g. during surgical intervention.

Sea Level Altitude (Important)

1. Atmospheric pressure decreases by -0.8 cmHg for every 100 meters of rise in sea level. But it will not affect the speed of the airflow. For example: the loss of vacuum level by 16.8% at an altitude of 1524 meters
2. Surgery is primarily based on airflow rate (LPM), rather than vacuum pressure..

Verification of Compliance:

- This equipment is Classified as "Class IIa" medical device.
- EN60601-1, IEC60601-1, EN55011, EN61000-3-2, EN61000-3-3
- EN ISO10079-1:2009/ISO10079-1:1999

Specifications:

Model	SU-305
	SU-305P
Overall dimension	510 x 380 x 880mm (±10mm) SU-305 585 x 380 x 930mm (±10mm) SU-305P
Vacuum pump	Oil-less piston vacuum pump, 240W, Twin cylinders
Max airflow rate ±5%	52 ~ 58 L/min (±5%)
Max vacuum ±5%	720 ~ 740mmHg (±5%)
New weight (±0.5kg)	27.0 / 30.0kg (subject to final packaging)
Collection jars	3000ml x 2pc polycarbonate (Autoclavable)
Overflow protection	Yes
Vacuum gauge	0-760mmHg (0-30inHg)
Standard accessory	● 2500 ~ 3000ml PC Jar x 2pc, = 6000ml total ● Suction tubing x 1pc + Footswitch x 1 pc ● Hydrophobic filter x 1 pc
Power source	110V/60Hz, or 220V/50Hz (Specify when ordering)
Quality standard	ISO9001, ISO13485, ISO10079-1, QMS 45 years of manufacturing experience

NOTE: Airflow rate and vacuum capacities may be affected by environmental factors, such as the stability of the power supply or electromagnetic interference around the instrument.... etc..

Features:

- Footswitch is used when the intermittent suction is needed
- Comes with 2 polycarbonate (PC) jars graduated in ml up to 3000ml
- Mounted with 4 rubber anti-static castors with 2 lockable facilities.
- Dial regulate control knob to the Max vacuum aspiration rate from LOW to HIGH.
- Change over one jar to another automatically or **manually** to meet your need.
- Silicone suction tubing and PC jars are autoclavable and reused.
- Bacterial filter is mounted between bottles and connecting tube.
- Optional for disposal cannular tube to suck the body fluid, sputum and saliva,
- **SU-305:** Come with a **LOCKER** on back convenient for storage.
- **SU-305P:** Exterior housing is made of heavy-duty ABS, scratch/rust free
- Automatic overflow stopper preventing the fluid flow back to the vacuum pump.

Specifications are subject to change anytime without advanced notice.



SU-305P

(Automatic bottle changeover)



SU-305

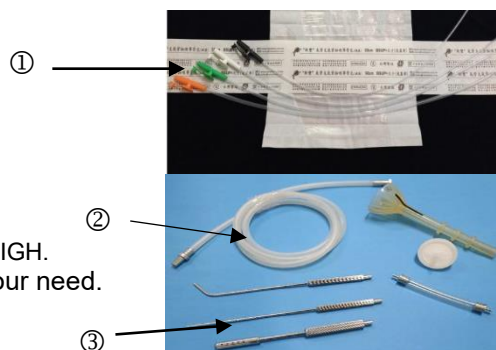
Noise: (Random sampling of 2 units)

Room noise		LOW	HIGH
40.3 dB	Loaded	52.2 dB	56.6 dB
	unloaded	55.1 dB	56.6 dB
43.5 dB	Loaded	55.9 dB	57.4 dB
	unloaded	57.0 dB	58.8 dB

- **Loaded:** After suctioning
- **Unloaded:** Before suctioning

Optional Accessories:

1. Disposable Silicone Cannulas for Tracheobronchial
2. Suction tubing,
3. Metal cannulas set for Gynecology/Obstetrics



(Manufacturer & Exporter, since 1981)

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Dun & Bradstreet DUNS No. 656777729
TUV Rheinland Verification 000004807 5003

Portable Suction Unit

Super Power

SU-990: Rechargeable Lithium-ion battery AC/DC Operated

(GMDN Code 36777)

Built-in **voltage stabilizer within 88V~264V** preventing from volt surge accidentally.

The whole area voltage from **100V~240V**, 50/60Hz except SU-510

Oil-less vacuum pump, quiet and maintenance free



SU-990
(Battery operated, AC/DC)



SU-991 (AC/DC)



SU-660



SU-510



(with handle)



Option for:
● 2 x 1.0 L. bottles
● Footswitch

Specification

Model	SU-990	SU-991 (AC/DC)	SU-660	SU-510
Dimension approx. (mm)	200 x 355 x 240	200 x 355 x 240	450 x 205 x 275	420 x 280 x 275
N. G. weight (KG)	3.0 / 4.3	2.7 / 4.0	3.0 x / 4.2	6.0 / 7.0
Vacuum pump	Oil-less pump, 30W diaphragm	Oil-less pump, 30W diaphragm	Oil-less pump, 30W diaphragm	Oil-less pump, 100W Piston, reciprocated
Airflow rate (L/min.) approx.	24 L ($\pm 10\%$)	24 L ($\pm 10\%$)	24 L ($\pm 10\%$)	47 ~ 50 L ($\pm 10\%$)
Vacuum capacity (± 10 mmHg)	620 ~ 650 mmHg	620 ~ 650 mmHg	620 ~ 650mmHg	660 ~ 680
Overflow protection	Yes	Yes	Yes	Yes
Operation	AC / DC, 12V	AC / DC, 12V	AC, 12V	AC
Power source	100 ~ 240VAC	100 ~ 240VAC	100 ~ 240VAC	110V or 220V, 50/60Hz
Battery (not include)	Lithium-ion	NA	NA	NA
Footswitch	NA	NA	NA	Option for extra cost
Quality Standard	CE, QMS, ISO	CE, QMS, ISO	CE, QMS, ISO	CE, QMS, ISO

Standard accessory: Silicone suction tubing x 1pc + 1000ml polycarbonate bottle (autoclavable and reused) + Hydrophobic Filter

Optional accessory: 1) Footswitch, 2) 2 bottles for SU-510, 3) LED digital vacuum gauge

Sea Level Altitude (Important)

1. Atmospheric pressure decreases by -0.8 cmHg for every 100 meters of rise in sea level. But it will not affect the speed of the airflow. For example: the loss of vacuum level by 16.8% at an altitude of 1524 meters
2. Surgery is primarily based on airflow rate (LPM), rather than vacuum pressure..

Technical Data :

- Equipped with oil-less piston vacuum pump ensures lubrication free and maintenance free
- A 1000ml autoclavable polycarbonate collection jar graduated in "ml" with fluid overflow preventive fitting.
- Built-in vacuum gauge ranges 0 – 760mmHg (0 – 30inHg) easy for direct reading.
- All models are CE-testing verification compliant with EMC requirement of EN60601-1/IEC60601-1-2/CISPR 11,
- Class B / IEC61000-3-2/IEC61000-3-3 and ENISO10079-1:2009

SU-990 : (Rechargeable Lithium-ion Battery for **EMERGENCY** purpose)

- Built-in charging cable available for use in ambulance or anyplace where 12VDC is available for emergency.
- Lithium-Ion 12V rechargeable battery to charge by AC or DC power in **2 hours** Approx. to the full load.
- **1.5 hours** can be used from the full charge of battery. Ideal for use in areas where the failure of mains power, unstable current or the blackout occurs every often. Light weight less than 3 kg convenient to carry anywhere.
- In fear of the possible hazard during the transportation, Lithium-ion battery will not come with the machine either by sea or air freight. Environment conditions for operation and storage is strictly constrained. Temperature exceeds 40°C is not allowed.



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Horizontal High Pressure Steam Autoclave

TC series Autoclave

50 Years Manufacturing Experience

GMDN 35363

Specifications (TC series)

Model Name	TC-750A		TC-615A		TC-612A		TC-600A		TC-500A		TC-459A		TC-409A		TC-406A		TC-339A	
	TC-750DA		TC-615DA		6C-612DA		TC-600DA		TC-500DA		TC-459DA		TC-409DA		TC-406DA		TC-339DA	
Chamber (CM)	75*120		60*150		60*120		60*100		50*100		45*90		40*90		40*66		33*90	
Capacity (Liters)	530L		424L		339L		283L		196L		143L		113L		83L		77L	
Power Consumption	12+12KW		12+12kw		9+9 kw		12KW		10KW		7KW		6KW		6KW		5KW	
220V (P)	1P	3P	1P	3P	1P	3P	1P	3P	1P	3P	1P	3P	1P	3P	1P	3P	1P	3P
Ampere (A)	109	63	109	63	82	47	55	32	45	26	32	18	27	16	27	16	23	13
380V(P) / Ampere (A)	3P	36A	3P	36A	3P	27A	3P	18A	3P	15A	3P	11A	3P	9A	3P	9A	3P	8A

Working Temperature	121~135°C at 1.2~2.2 kg/ cm ² (1.18~2.16 bar or 17.07~31.29 psi)																	
Power Source	220V or 380V with 1 phase or 3 phase (please specify when ordering) TC-500A, TC-600A, TC-612A, TC-615A, TC-750A: Applied to 3-phase only																	
Standard accessory	Stainless steel tray x 1 pc																	
Optional function	Automatic water filling, automatic drying, vacuum drying, safety door lock,																	

Function: Automatic drying, Automatic water filling, Vacuum drying, Safety door lock.

- **TC-A series:** Choice of any of the above functions according to your requirement.
- **TC-DA series:** Cabinet type. Complete functions of the above.
(Water filling → Heating → Pre-Vacuum → Sterilization → Vacuum drying → Completion)

Technical Data:

- Double-walled stainless steel #304 chambers insulated with glass fiber.
- Provided with double pressure gauges easy for monitoring the working pressure for interior and exterior chambers.
- Adjustable temperature from 121 ~ 134°C at 1.2kg/cm² and 2.2kg/cm²
- Microprocessor control system with digital display for SV and PV easy for reading
- **Heating time:** 121°C within 30 minutes, and 132°C within 35 minutes

Safety Devices:

- Overheat and low water level alarm and shut out.
- Safety door lock activated by pressure
- Pressure controller: Once the pressure exceeds 2.4kgf/cm²,
It will shut out power automatically
- Safety Valve: When pressure reaches 2.4kgf/cm², the safety valve will release the pressure automatically

Recommended temperature and time for sterilization:

- Wrapped : 132°C, 30 minutes
- Unwrapped : 132°C, 30 minutes
- Liquid : 121°C, 15 minutes

Optional accessories:

- Water filter
- Digital recorder (Not printer)
- Delivery trolley and cabinet (Stainless steel)

Formula: 220V: KW ÷ 220 ÷ 1.732 = ____AMP
380V: KW ÷ 380V ÷ 1.732 = ____Amp



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Autoclave – Vertical & Table Top

SA series

GMDN Code 35363

SA series Autoclave has been designed with functions, reliability and safety in mind.
Famous for Safety and Quality, ISO, CE, GMP Certified
Probably the **BEST** in Taiwan

Intended use:

An apparatus for sterilizing medical devices, e.g. surgical instruments or fluids in sealed containers.

It is a pressure chamber used to carry out industrial processes requiring elevated temperature and pressure different from ambient air pressure. Autoclaves are used in medical applications to perform sterilization.

Many autoclaves are used to sterilize equipment and supplies by subjecting them to pressurized saturated steam at 121 °C (249 °F) for around 15–20 minutes depending on the size of the load and the contents.

Sterilization autoclaves are widely used in microbiology, medicine, veterinary medicine, mycology, dentistry etc.

Typical loads include laboratory glassware, other equipment and waste, surgical instruments, and medical waste.

Specification

Model	SA-232	SA-232X	SA-252F	SA-300H	SA-300VL	SA-300VF
Dimension (mm)	335x510x430	500x540x406	540x630x450	600x740x470	600x1090x450	600x450x1090
Chamber	230x410	230x410	260x450	300x570	300x700	300x710
Capacity	16 L.	16 L.	24 L	40 L.	50 L.	50 L.
Heating element	1400W	1400W	1800W	2300W	2300W/10A	2300W
Temperature (°C)	126°C	118~134	118~134	118~134	105 ~ 135	118~134
Temp / Pressure display	Gauge	Gauge	Gauge	Gauge	Digital PID	Gauge
Safety door lock	NA	Option	Yes	Option	Yes	NA
Safety valve	Yes	Yes	Yes	Yes	Yes	Yes
Low water level alarm	Yes	Yes	Yes	Yes	Yes	Yes
Overheat alarm	Yes	Yes	Yes	Yes	Yes	Yes
Sterilization time	18 / 33 min.	4/15/30min.	0 – 60 min	0 – 60 min.	0 – 60 min.	0 – 60 min.
Overheat protection	Yes	Yes	Yes	Yes	Yes	Yes
Over-pressure protect	Yes	Yes	Yes	Yes	Yes	Yes
Drying function	N/A	N/A	0 ~ 60min	0 ~ 60min	N/A	0 ~ 60min
Lifespan	7 years	7 years	7 years	years	7 years	7 years
Power source	115V or 240V	115/230V	115/230V	230V	114/230V	230V

NOTE: To better our products, specifications are changed without notice in advance



SA-232 (16L.)



SA-232X(16L.)



SA-300H(40L.)



SA-300VF (50L.)



SA-252F (24L.)



SA-300VL
(50L.)