

Yamato Global Network



Head Quarters
(TOKYO)



Minami Alps Factory
(YAMANASHI)



R&D Center (YAMANASHI)

Yamato Scientific America Inc.

925 Walsh Avenue Santa Clara, CA 95050, U.S.A
Tel: +1-408-235-7725 Fax: +1-408-235-7730

Yamato Scientific Shanghai Corporation

Room 1001-1002, Block B, Xinyan Building, No.65 Guiqing Road,
Xuhui District, Shanghai, China
TEL:+86-21-5439 6929 FAX:+86-21-5452 0268

Yamato Scientific Chongqing Co., Ltd.

No.5-37 Yunhan Avenue, Shuitu High-Tech Development Zone,
Beibei District, Chongqing, China
Tel: +86-23-8900-9598 Fax: +86-23-6746-5300

Yamato Scientific Co., Ltd. ASEAN Regional Office

29, Soi On-Nuch 62, Sukhumvit 77, Suanluang, Bangkok 10250 Thailand
Tel: +66-2-704-6161 Fax: +66-2-704-6181

Yamato Scientific Co., Ltd. Cologne Representative Office

Suelzgueltel 59b, 50937 Cologne, Germany
E-mail: akiko.sato@yamato-net.co.jp

<http://www.yamato-scientific.com/>

Overseas Subsidiaries



Yamato Scientific America Inc.
Sales in North America



Yamato Scientific Shanghai Corporation
Sales in China



Yamato Scientific Chongqing Co., Ltd.
Factory in China

SINCE 1889



Yamato



YAMATO SCIENTIFIC CO.,LTD.

International Sales Division:

Haseman Bldg. 5F 2-11-6, Tomioka, Koto-ku, Tokyo 135-0047, Japan
Tel. 81-3-5639-7076 FAX. 81-3-5639-6031

Web Site : <http://www.yamato-scientific.com>

E-mail : english-website@yamato-net.co.jp

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Yamato Scientific Co.,Ltd.

Message from the President

Yamato Scientific was originally founded in 1889 as 'Sosuke Morikawa & Company' which focused on the production and sale of medical glassware, in Nihonbashi, Tokyo. Since then, the company has grown vastly to include industrial devices and is a distributor of the most advanced scientific and laboratory instruments available today.

As a manufacturer of scientific instruments, research facilities, analytical instruments, industrial inspection devices and medical equipment, Yamato Scientific actively develops as a business dealing in advanced instruments that require production technology along with research and development.

From metal plate processing and coating to assembly, our production takes place in two factories, one located in Japan (Minami Alps City) and one in China (Chongqing City). In addition, we have two centers dedicated to Research and Development in Minami Alps City and Aiko-gun in the Kanagawa Prefecture of Japan. There, we strive to improve our current products while developing new products. We acknowledge the need to support international standards and expand worldwide procurement to be successful in a global economy. For this reason, we have 17 main sales and service offices in Japan as well as subsidiaries in five different areas around the globe, including the US and China. With approximately 200 domestic and international distributors, we are well equipped to handle a diverse mix of customers.

Furthermore, Yamato Scientific, through Yamato Group Companies, has expanded to provide food container, new electronic materials, medical equipment and consumables.

We support the innovative research and development and production technologies of corporations, universities and research institutes that represent Japan's slogan, 'Science Technology Forged Nation' and 'Productive Country'. Our basic business policy is to contribute to the progress and the development of science and technology by combining our know-how and experience from our long history exceeding 125 years.

Please continue to give us your opinions and guidance so that we can provide the best for you.



Yamato Scientific Co., Ltd
President and
Chief Executive Officer
Satoshi Morikawa

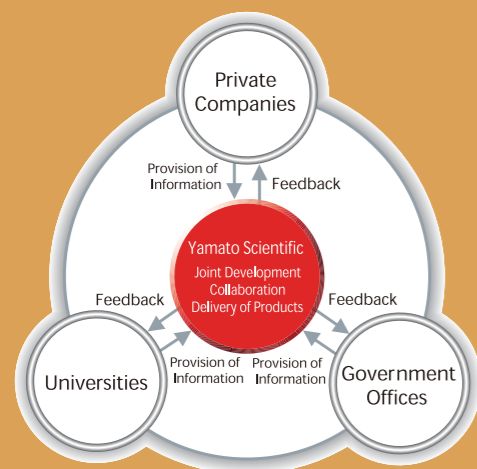


Image for Technology Innovation Cycle of Yamato Scientific



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Focus

Scientific Equipment

Energy Saving Industrial Oven DNE650/650V/670/670V/850/850V

- An energy saving oven with power consumption cut by 50% compared to the conventional model (DN).
- Shortened wait time and recovery time makes work effective.
- Highly hermetic chamber structure prevents dust or foreign matters from entering inside.



Model	DNE650	DNE650V	DNE670	DNE670V	DNE850	DNE850V
System	Forced convection					
Operating temp. range	Room temp. +10 °C to 260°C					
Temp. adjustment accuracy	±/-0.2°C (at 260°C)					
Temp. distribution accuracy	±/-2.0°C (at 260°C)					
Time to attain max. temp.	≒ 65 min.			≒ 55 min.		
Internal capacity	150L			300L		

*V indicates a silicone-free model

Rapid Heat Industrial Oven DKG610/610V/650/650V/810/810V/850/850V

- Reduced heating time to 1/2.5, cooling time to 1/4 (compared with conventional model).
- Horizontal air flow appropriate for loaded operation.
- Fluoro rubber door packing for silicone-free models. (DKG610V/650V/810V/850V)



Model	DKG610	DKG610V	DKG650	DKG650V	DKG810	DKG810V	DKG850	DKG850V
System	Forced convection							
Operating temp. range	Room temperature + 30 to 260°C							
Temp. adjustment accuracy	±0.5°C							
Temp. distribution accuracy	±2 (at 200°C), ±2.5 (at 260°C)							
Time to attain max. temp.	Within 45 min. from 25°C --> 260°C				Within 50 min. from 25°C --> 260°C			
Temp. decrease time	About 30 min. from 260°C --> 50°C				About 40 min. from 260°C --> 50°C			
Internal capacity	150L				300L			

*V indicates a silicone-free model

Industrial & Laboratory Constant Temperature Oven DKN302/402/602/612/812/912

- Microprocessor control featuring fixed setting, quick auto stop, auto start and auto stop.
- Programmable setting (30-step, 3-pattern program controller with repeat functions).
- Over-heat prevention and calibration offsetting are possible through the auxiliary functions.



Model	DKN302	DKN402	DKN612	DKN812	DKN912
Circulation method	Forced convection				
Operating temp. range	Room temp. +10 to 260°C	Room temp.+10 to 250°C		Room temp.+10 to 210°C	
Temp. control accuracy	±1.0°C(at 210°C)				
Temp. distribution accuracy	±2.5°C(at 210°C)				
Max. temp. reaching time	≒ 90 min.		≒ 120 min.	≒ 60 min.	
Internal capacity	27L	90L	150L	300L	535L

Industrial & Laboratory Clean Oven DES830 & DTS830

- Constant temperature treatment in a class 100 environment.
- Equipped with various functions, including program operations.
- Safety measures are enriched, including self-diagnosis function and an independent superheating prevention device.



Model	DES830	DTS830
Circulation method	Forced convection	
Operating temp. range	Room temp. +30 to 260°C	Room temp. +30 to 360°C
Temp. adjustment accuracy	±0.5°C	
Temp. distribution accuracy	±2.0°C (at 260°C)	±2.0°C (at 260°C)
Max. temp. reaching time	≒ 70 min.	≒ 80 min.
Clean level	Class 100 (when the temperature is stable)	
Internal capacity	327L	

Industrial & Laboratory Fine Oven DF412/612 & DH412/612

- High accuracy temperature control.
- Exhaust damper allows quick exhaust and cooling of internal chamber.
- Simple settings for various temperature characteristics test that require complicated programming.



Model	DF412	DF612	DH412	DH612
System	Forced convection and ventilation			
Operating temp. range	Room temp.+15 to 260°C		Room temp.+15 to 360°C	
Temp. adjustment accuracy	±0.1°C (at 260°C)		±0.2°C (at 360°C)	
Temp. distribution accuracy	±1.5°C (at 260°C)		±2.5°C (at 360°C)	
Time to attain max. temp.	≒ 50 min. (to 260°C)		≒ 60 min. (to 360°C)	
Internal capacity	91L	216L	91L	216L

Economical Gravity Convection Oven DX302/402/602

- Newly developed easy operation controller.
- Auxiliary functions of calibration offset and key-lock.
- Safety features include self-diagnostic function and overheat protection.



Model	DX302	DX402	DX602
Circulation method	Natural convection		
Operating temp. range	Room temp.+5 to 300°C		Room temp. +5 to 280°C
Temp. control accuracy	±1.0°C (at 300°C)		
Temp. distribution accuracy	±10°C (at 300°C)		±10°C (at 280°C)
Max. temp. reaching time	≒ 45 min.	≒ 60 min.	≒ 80 min.
Internal capacity	28L	74L	153L

Focus

Scientific Equipment

Industrial & Laboratory Vacuum Drying Oven DP200/300/410/610

- High-accuracy controller system
- Shorter drying time & faster heat-up process
- User-friendly control panel and display (equipped with power consumption / CO₂ emission monitor)

Model	DP200	DP300	DP410	DP610
System	Vacuum drying by wall surface heating			
Operating temp. range	+40 to 240°C		+40 to 200°C	
Operating pressure range	101 to 0.1 kPa (760 to 1 Torr)			
Temp. fluctuation	±1.0°C (at 240°C)		±1.5°C (at 200°C)	
Max. temp. reaching time	≒ 60 min.	≒ 120 min.	≒ 80 min.	≒ 120 min.
Internal capacity	10L	27L	91L	216L



Muffle Furnace FO100/200/300/310/410/510/610/710/810

- Wide selection of space saving, compact units with various inner capacity
- Due to the high adiabatic characteristic, temperature rises in a very short time.
- Equipped with a self-diagnostic function as a safety measure.

Model	FO100	FO200	FO300	FO310	FO410
Operating temp. range	100 to 1,150°C				
Temp. control accuracy	±2°C(at 1,150°C)				
Max. temp. reaching time	≒ 60min.		≒ 70min.		
Internal capacity	1.5L	3.75L	7.5L	7.5L	9.0L

Model	FO510	FO610	FO710	FO810
Operating temp. range	100 to 1,150°C			
Temp. control accuracy	±2°C(at 1,150°C)			
Max. temp. reaching time	≒ 80min.			
Internal capacity	11.3L	17.5L	23.6L	30.0L



Plasma Cleaner PDC610

- RIE/DP modes selectable
- Maximum power of 600W with compact package
- Supports FCC standard

Model	PDC610
Plasma mode	RIE/DP
Electrode structure	3-stage independent parallel flat plates
High frequency output	Max. 600W
Outgoing frequency	13.56 MHz
Control and display system	Sequencer and touch panel
Chamber material	A5052
Reactive gas	2 systems (argon and oxygen)
Purge gas	Nitrogen or dry air



Plasma Cleaner V1000/V1000X/V1000XS

- RIE/DP modes selectable
- Excellent for removal of organic films, surface cleaning, surface reforming, and surface etching.
- High accuracy matching unit

Model	V1000	V1000X	V1000XS
Plasma Mode	RIE and DP		
Electrode structure	Parallel flat stage plate		
Stage size	280mmW×280mmD	300mmW×300mmD (Double stage)	400mmW×375mmD
Chamber size	400mmW×400mmD×380mmH		600mmW×554mmD ×440mmH
Vacuum gauge	Capacitance manometer		
Reaction gas system	Two systems		
Controller	Programmable controller		



Energy Saving Incubator INE800

- Equipped with inverter control which achieves an energy-saving rate of approximately 40% compared to current models
- The temperature distribution accuracy has been improved for better incubation.
- Newly developed controller is upgraded for easier viewing and operability.

Model	INE800
Operating temp. range	0 ~ 60°C
Setting temp. range	-5~65°C
Temp. adjustment range	±0.2°C JTM (at 37°C During Continuous Operation) ±0.3°C JIS (at 37°C During Continuous Operation) ±0.5°C JTM (at 37°C During Cycle Operation) ±1.0°C JIS (at 37°C During Cycle Operation)
Temp. distribution accuracy	±0.5°C JTM (at 37°C During Continuous Operation) 2.0°C JIS (at 37°C During Continuous Operation)
Time to attain max. temp.	20 ~ 60°C 35min.
Time to attain lowest temp.	20 ~ 0°C 50min.
Internal capacity	286L



Programmable Low Temperature Incubator IN604/604W/804

- Best selling machines for low temperature tests and environmental tests
- Suitable for wide variety of applications from various constant temperature tests to environmental tests
- Forced circulation with a fan enables high accuracy temperature control and even temperature distribution within the product

Model	IN604	IN604W	IN804
System	Forced blower convection		
Operating temp. range	-10 to +50°C		
Temp. adjustment range	±0.3°C (during continuous operation of freezer) ±1.0°C (during operation of freezing cycle)		
Temp. distribution accuracy	±1.0°C (continuous operation of freezer at 37°C)		
Time to attain .max. temp.	20 to 50°C ≒ 20 min		20 to 50°C ≒ 30 min.
Time to attain lowest temp.	20 to -10°C ≒ 45 min	20 to -10°C ≒ 55 min.	20 to -10°C ≒ 65 min.
Internal capacity	143L		286L



Focus

Scientific Equipment

Double Chamber Programmable Low Temp. Incubator IQ822

- Independent program on each chamber
- Control panel on the door makes operation easier
- Comprehensive safety functions

Model	IQ822
System	Forced convection
Operating temp. range	-10 to +50°C (for both upper and lower chamber)
Temp. adjustment range	±0.3°C (during continuous operation of freezer, for both upper and lower chamber)
Temp. distribution accuracy	±1.0°C (continuous operation of freezer at 37°C, for both upper and lower chamber)
Time to attain max. temp.	20 to 50°C ≒ 25 min
Time to attain lowest temp.	20 to -10°C ≒ 45 min
Internal capacity	143L x 2 chamber



IQ822

Autostill WG203/WG250B/WG250W/WG1000

- Independent Program on each chamber
- Control panel on the door makes operation easier
- Comprehensive safety functions

Model	WG203	WG250B/W	WG1000
Treatment process	Ion exchange → Distillation	Ion exchange → Distillation → Filtration	
Product water	Ion exchange water and distilled water		
Production of distilled water	≒ 1.8L/hr.	≒ 5L/hr.	
Collection rate of distilled water	0.5 to 1L/min		
Collection rate of ion exchange	0.5 to 1L/min		



WG203



WG1000

Compact Water Purifier WL200/220/220T

- Water quality: JIS K 0557, A3, suitable for microanalysis
- Compact & desk-top type with competitive price
- Display and alarm for replacement time of consumables

Model	WL200	WL220	WL220T
Collection Type	Ion Exchange		
Collection Pure Water	Ion Exchange Water, A3 Level		
Collection Amount	≒ 1.0L/min. (Continuous Collection)		



WL200

WL220

Constant Temperature Water Bath BK/BA

- High precision temperature can be controlled by using a high-precision thermostat and circulation pump.
- Settings for the temperature and timer can be easily input using the up and down keys, and the settings appear on a digital display.



Model	BK/BA300	BK/BA400	BK/BA500	BK/BA610	BK/BA710
Stirring method	Stirring by pump				
Operating temp. range	Room temp. +5°C to +80°C				
Temp. control accuracy	±0.02°C to 0.07°C				
Temp. distribution accuracy	±0.3°C				
Temp. rising time	≒ 120 min.	≒ 110 min.	≒ 165 min.	≒ 160min.	≒ 200/160 min
Tank Capacity	27L	42L	70L	109L	144L

Laboratory Autoclave SN210/310/510, SQ510/810

- High performance and easy operation
- To minimize cooling time, a cooling fan is provided for all models
- Easy to discharge sterilizing water



SN210

SN310

SN510

SQ510

Model	SN210	SN310	SN510	SQ510/SQ810
System	Automatic high-pressure steam sterilization system for laboratory use			
Range of working temp.	45-135°C: 45-80°C for preheating, 45-60°C for keep warm, 65-100°C for melting, 105-135°C for sterilization			
Max. working pressure	0.255MPa			
Ambient temp. for operation	5 - 35°C			
Effective capacity	20L	32L	47L	47.5L(SQ510)/80L(SQ810)

Neocool Circulator CF301/301G/800/800G

- Non-chlorofluorocarbon Coolant, R404A for refrigeration
- Minimized cooling liquid dilution and/or loss by fixing heat-resistant lid.
- Water proof touch panel with big LED indicator and sheet key for the easier setting

Model	CF301	CF301G	CF800	CF800G
Circulation Type	Closed System Circulation By Pump			
Operating temp. range	-20°C to Room Temp.			
Cooling Capacity	≒ 450W (385kcal/h) at Liquid Temp. 10°C ≒ 360W (380kcal/h) at Liquid Temp. 0°C ≒ 270W (230kcal/h) at Liquid Temp. -10°C		≒ 1,050W (830kcal/h) at Liquid Temp. 10°C ≒ 910W (780kcal/h) at Liquid Temp. 0°C ≒ 670W (570kcal/h) at Liquid Temp. -10°C	
Capacity	≒ 4L (Liquid Amount 3L)		≒ 16L (Liquid Amount 14L)	



CF301

CF800

Focus

Scientific Equipment

Rotary Evaporator RE301

- All models include a motorized lift
- Newly designed glass components (Guard against liquid stagnation)
- Compact design



Model	RE301
Rotation speed	20 - 250 r/min (rpm)
Lift stroke	130mm
Speed (rpm) setting	Control knob (digital indication)
Safety measures (main unit)	Manual-setting lower limit, upper limit, motor overload

Shakers SA300/320/400

- A variety of durable holders can be easily attached and removed
- Easy-to-use dial settings for shaking frequency with digital displays
- Possible to switch between timer operation and continuous operation



Model	SA300	SA320	SA400
Shaking method	Horizontal / Vertical Reciprocate shakings	Horizontal / Vertical Rotary shakings	Double sided vertical reciprocate shaking
Shaking speed ; Horizontal	≒ 20 to 300 times/min.	≒ 20 to 210 times/min.	None
Shaking speed; Vertical	≒ 20 to 300 times/min.	≒ 20 to 210 times/min.	≒ 20 to 300 times/min.
Speed control	Stepless speed control by thyristor		Stepless speed control by thyristor/Digital display

Spray Dryer ADL311-A/ADL311S-A

- For water soluble samples and organic solvents.
- Employment of a one-touch detachable mechanism in the drying chamber and the cyclone further improves ease of operation.



Model	ADL311-A	ADL311S-A
Supported samples	Water soluble samples	Water soluble and organic solvent
Evaporated water amount	Max. 1300 mL/h	
Temp. adjusting unit setting range	40 to 220°C (inlet temperature), 0 to 60°C (outlet temperature)	
Temp. adjusting accuracy	Inlet temperature ± 1°C	
Drying air amount adjusting range	0 to 0.7 m3/min	
Spray air pressure adjusting range	0 to 0.3 MPa	
Liquid sending pump flow rate range	0 to 26 mL/min	
Spray air line washing function	Spraying at the nozzle tip, manual pulse jet system	

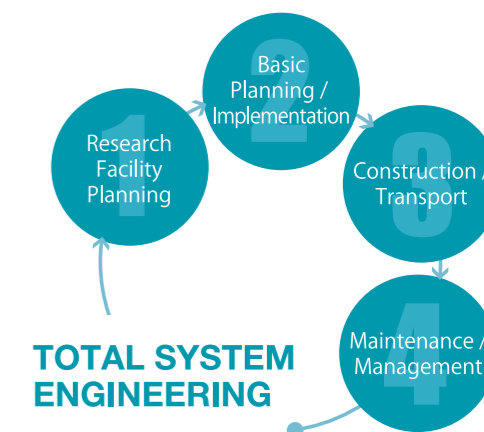
Total System Engineering

Total System Engineering for the support of projects including construction of new research facilities and relocation

Total System Engineering is a comprehensive support service offered domestically and overseas for the construction of new research facilities, relocation, site selection, verification of legal regulations, environmental pollution control measures and selection of equipment.

Corresponding to customers' demands, we handle all areas from the proposal of basic concepts, planning of facilities and basic design to implementing plans, construction and transport and maintenance service.

Yamato Scientific has vast experience with research facilities and equipment, making this support system possible.



Relocation System

We currently support many research institutes in transferring sensitive equipment and research facilities, ranging from OA equipment to research samples.

Yamato Scientific's relocation system was created from the vast experience attained from specialising in scientific instruments. Our unifying relocation system allows for the smooth implementation of plans, which relieves customers of work burden.

Benefits of Our elocation System

Integration of Point of Contact

We act as a point of contact for handling all aspects of relocation operations so that customers do not need to liaise with multiple vendors.

Consulting with Researchers

We respond accurately to all needs of specialised staff and research instruments.

Relocation Schedule

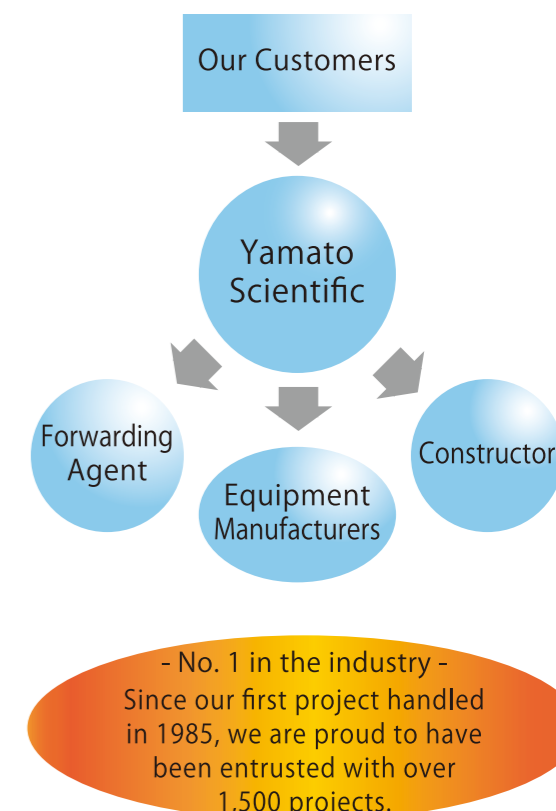
We formulate a schedule in accordance with the needs of building units, floor units and research departments. We also create a schedule for and process the newly delivered goods.

Relocation of Research Equipment

Sensitive equipment, research facilities, data and samples are maintained while being transferred quickly and safely to the destination.

Maintenance of Equipment

Even in cases where analytical equipment, measuring equipment and other laboratory equipment are made by different manufacturers, it is possible for us to carry out maintenance service.



Digest

Constant Temperature and Convection Oven

*RT: Room Temperature

*RT: Room Temperature

Constant Temperature Oven

Save 50% Power, Forced Convection



DNE		
Model	Temp. Range	Internal Capacity
DNE670	RT +10 ~ +260°C	150 ℓ
DNE850		300 ℓ

*Silicone-free type available

Flow Control, Programmable



DNF		
Model	Temp. Range	Internal Capacity
DNF301	RT+15~+260°C	27 ℓ
DNF411	(Wind velocity steps 1 to 10)	90 ℓ
DNF611	(Wind velocity steps 0)	150 ℓ
DNF811	RT+15~+260°C	300 ℓ
DNF911	(Wind velocity steps 1 to 10)	540 ℓ

*Stand is Optional Item

**with Air Flow Meter

Energy Saving, Programmable, Forced Convection



DNE		
Model	Temp. Range	Internal Capacity
DNE411	RT +20~+210°C	90 ℓ
DNE611		150 ℓ
DNE811	RT +15~+210°C	300 ℓ
DNE911		540 ℓ

*Stand is Optional Item

Fine Oven

For High Accuracy Temperature Testing



DF		
Model	Temp. Range	Internal Capacity
DF412	RT +15 ~ +260°C	91 ℓ
DF612		216 ℓ

DH		
Model	Temp. Range	Internal Capacity
DH412	RT +15 ~ +360°C	91 ℓ
DH612		216 ℓ

*Stand is Optional Item



DFS		
Model	Temp. Range	Internal Capacity
DFS710	RT +15 ~ +260°C	418 ℓ
DFS810		558 ℓ

DHS		
Model	Temp. Range	Internal Capacity
DHS710	RT +15 ~ +360°C	418 ℓ
DHS810		558 ℓ

Glassware Drying Oven



DG		
Model	Temp. Range	Internal Capacity
DG400	RT +5~+70°C	92 ℓ
DG800		445 ℓ
DG850		

*Stand is Optional Item

Constant Temperature Oven

Rapid Temperature Heat/Drop



DKG		
Model	Temp. Range	Internal Capacity
DKG610	RT +30~+260°C	150 ℓ
DKG810		300 ℓ

*Stand is Optional Item

Standard Model, Forced Convection Programmable Type



DKN		
Model	Temp. Range	Internal Capacity
DKN302	RT +10~+260°C	27 ℓ
DKN402	RT +10~+250°C	90 ℓ
DKN612		150 ℓ
DKN812	RT +10~+210°C	300 ℓ
DKN912		535 ℓ

*Stand is Optional Item



DKM		
Model	Temp. Range	Internal Capacity
DKM300	RT +10~+260°C	27 ℓ
DKM400		90 ℓ
DKM600		150 ℓ

*Stand is Optional Item

Natural Convection Oven

Programmable type



DVS		
Model	Temp. Range	Internal Capacity
DVS402	RT +5 ~ +260°C	99 ℓ
DVS602		162 ℓ

*Stand is Optional Item

Fixed Temperature Operation



DX		
Model	Temp. Range	Internal Capacity
DX302	RT +5 ~ +300°C	28 ℓ
DX402	RT +5 ~ +280°C	74 ℓ
DX602		153 ℓ

*Stand is Optional Item

Fixed Temperature Operation



DY		
Model	Temp. Range	Internal Capacity
DY300	RT +5 ~ +280°C	28 ℓ
DY400		74 ℓ
DY600		153 ℓ

Vacuum Drying Oven

Fixed Temperature Operation



ADP			
Model	Temp. Range	Vacuum Range	Internal Capacity
ADP200	40~+240°C	101~ -0.1kPa	10 ℓ
ADP300		27 ℓ	

Automatic Sequence Operation



DP610P			
Model	Temp. Range	Vacuum Range	Internal Capacity
DP610P	40~+200°C	101~ -0.1kPa	216 ℓ

Constant Temperature Oven

High Temperature Type



DN		
Model	Temp. Range	Internal Capacity
DN411H	RT +15 ~	95 ℓ
DN611H	+360°C	223 ℓ

Inert Oven



DN		
Model	Temp. Range	Internal Capacity
DN611I	RT +15 ~	95 ℓ
DN611II	+360°C	223 ℓ

Clean Oven

Standard Type



DE/DT		
Model	Temp. Range	Internal Capacity
DE411	RT +30 ~	91 ℓ
DE611	+260°C	216 ℓ
DT411	RT +30 ~	91 ℓ
DT611	+360°C	216 ℓ

Horizontal Circulation Type



DES/DTS		
Model	Temp. Range	Internal Capacity
DES830	RT +30 ~ +260°C	327 ℓ
DTS830	RT +30 ~ +360°C	

Vacuum Drying Oven

Large Capacity, Programmable Type



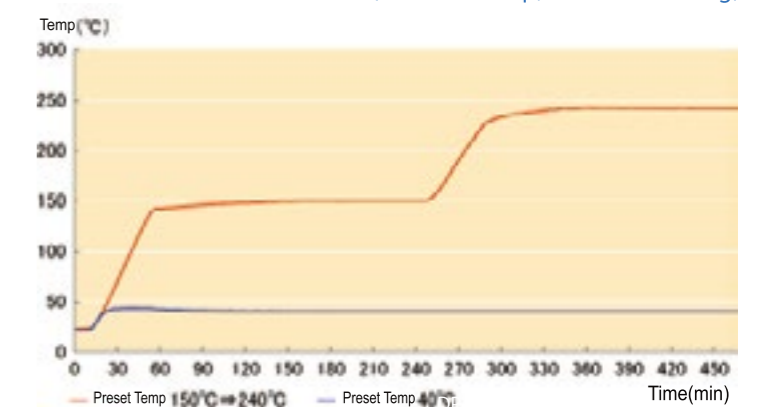
DP			
Model	Temp. Range	Vacuum Range	Internal Capacity
DP410	40~+200°C	101~ 0.1kPa	91 ℓ
DP610		216 ℓ	

High Functionality, Programmable Type



DP			
Model	Temp. Range	Vacuum Range	Internal Capacity
DP200	40~+240°C	101~ 0.1kPa	10 ℓ
DP300		27 ℓ	

DP300 Thermal Elevation (Normal Temp, Pressure Falling)



High Temperature Furnace

Muffle Furnace

9 Different Capacities, Programmable



FO100 FO310



FO610 FO810

Superior Model



FP102 FP312

FO		
Model	Internal Capacity	Operating Temp.Range
FO100	1.5ℓ	+100~+1,150°C
FO200	3.75ℓ	
FO310	7.5ℓ	
FO410	9.0ℓ	

FO		
Model	Internal Capacity	Operating Temp.Range
FO510	11.3ℓ	+100~+1,150°C
FO610	17.5ℓ	
FO710	23.6ℓ	
FO810	30.0ℓ	

FP		
Model	Internal Capacity	Operating Temp.Range
FP102	1.5ℓ	+100~+1,150°C
FP312	7.5ℓ	
FP412	11.3ℓ	

Customized Product

Vacuum Drying Oven

Large Capacity Type



DP810 DP1030

DP		
Model	Operating Temp. Range	Vacuum Range
DP810	+40~+200°C	101~0.1kPa
DP1030		

Shelf Heating Type



DP610HP

Model	Operating Temp. Range	Vacuum Range
DP610HP	+40~+200°C	101~0.1kPa



DP610HP Internal Structure

Vacuum Drying System

For Rechargeable Battery



DPB430 DPB530

DPB		
Model	Operating Temp.Range	Vacuum Range
DPB430	Room Temp.+10~+150°C	101~0.1kPa
DPB530		

Fine Ovens

Large Capacity Type



DH1032

DF/DH		
Model	Operating Temp.Range	Internal Capacity
DF832	Room Temp.+15~+200°C	512ℓ
DF1032		1,000ℓ
DH832	Room Temp.+15~+300°C	512ℓ
DH1032		1,000ℓ

Safety Vent Type



DH612S

DF/DH		
Model	Operating Temp.Range	Internal Capacity
DF412S	Room Temp.+10~+260°C	91ℓ
DF612S		216ℓ
DH412S	Room Temp.+10~+360°C	91ℓ
DH612S		216ℓ

Fine Oven

High Temperature Type (500 Deg.°C)



DH

Model	Operating Temp.Range	Internal Capacity
DH650	Room Temp.+10~+500°C	216ℓ

Far Infrared Oven (IR Oven)



DIR

Model	Operating Temp.Range
DIR631	Room Temp. +10~+360°C

Large Capacity Chiller



C-142

Model	Operating Temp.Range
C-142	4~22°C

Plasma Equipment

Plasma Reactor

Single Chamber, DP Mode, Barrel Type



PR301

Oscillation Frequency	Reaction Chamber
13.56MHz	1Chamber - φ118×160mm

Wide Diameter, DP Mode, Barrel Type



PR500

Oscillation Frequency	Reaction Chamber
13.56MHz	Chamber - φ215×305mm

Plasma Cleaner

For Various Testing and Cleaning



PDC210

Stage	Chamber Dimensions
250×170mm	400Wx250Dx150Hmm

Plasma Cleaner

Small Type, Multi-Layers



PDC610

Stage	Chamber Dimensions
250×220mm	350Wx270Dx300Hmm

In-Line Plasma Cleaner



ISP500LU

Plasma Mode	Chamber Dimensions
RIE	344Wx230Dx45Hmm

Plasma Cleaner (Big Capacity)



V1000

Oscillation Frequency	Effective Stage Dimensions
13.56MHz	280Wx280Dmm

Pre-Treatment Process for Asbestos Analysis



Atmospheric Plasma Cleaner

Plasma processing in open air environments



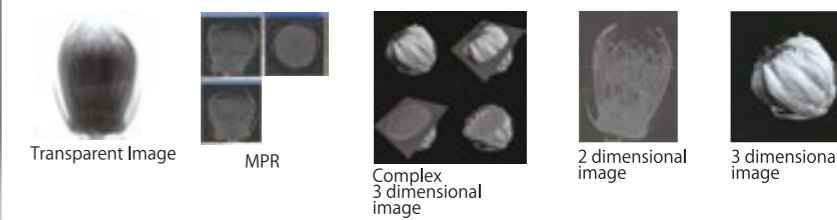
3D X-Ray CT Scanner

TDM Series

Performs tomographic imaging, measurement and analysis all in one system



- Product Line-Up
- High Accuracy
- High-Speed Processing
- High Resolution & Wide Dynamic Range
- 3 Dimensional Image Display Function
- Contracted Analysis Service



Incubator

*RT: Room Temperature

Eco Incubator

Inverter Control & Energy-saving Type



INE800	
Temp. Range	Internal Capacity
0~+60°C	286 ℓ

Programmable Incubator

Low Temperature Incubators



IN604	
Temp. Range	Internal Capacity
-10~+50°C	143 ℓ



IN604W	
Temp. Range	Internal Capacity
-10~+50°C	143 ℓ



Shaker can be installed (IN604W)



IN604 Interior

Programmable Incubator

Double Chamber Type



IN804	
Temp. Range	Internal Capacity
-10~+50°C	286 ℓ



IQ822	
Temp. Range	Internal Capacity
-10~+50°C	143 ℓ × 2

Low Temperature Incubator

Air Jacket Type, Remote-Operatable



IL603	
Temp. Range	Internal Capacity
0~+50°C	159 ℓ



ILE800	
Temp. Range	Internal Capacity
0~+60°C	300 ℓ

Incubators

Wide Range of Incubators



IS401/601		
Model	Temp. Range	Internal Capacity
IS401	RT+5~+80°C	97 ℓ
IS601	RT+5~+80°C	159 ℓ



IS801	
Temp. Range	Internal Capacity
RT+5~+80°C	318 ℓ



IS901	
Temp. Range	Internal Capacity
RT+5~+80°C	567 ℓ



IC402/602		
Model	Temp. Range	Internal Capacity
IC402	RT+5~+80°C	97 ℓ
IC602	RT+5~+80°C	159 ℓ



IC802	
Temp. Range	Internal Capacity
RT+5~+80°C	318 ℓ

Incubators

Slim Type



ICS200/300		
Model	Temp. Range	Internal Capacity
ICS200	RT+5~+70°C	20 ℓ
ICS300	RT+5~+70°C	55 ℓ

Double Chamber Type



INC820		
Temp. Range	Internal Capacity	
4~+50°C / RT+5~+80°C	143 ℓ / 150 ℓ	

Desktop Type/Compact Type



IC101/101W		
Model	Temp. Range	Internal Capacity
IC101	RT+5~+60°C	37 ℓ
IC101W	RT+5~+60°C	37 ℓ

Labo Cube Series, Compact Type



ICL300		
Temp. Range	Internal Capacity	
RT+5~+70°C	34.7 ℓ	

Freeze Dryer

Corrosion Resistant Type



DC801	
Trap Cooling Temp	
-85°C	

Water Purifier

Autostill / Autopure

High Performance Type with Low TOC Value



WG250/1000/203			
Model	Collection Method	Distilled Water Produced	Quality Level
WG250	Ion-Exchange → Distillation	≈ 1.8 ℓ/h	A4
WG1000	→ Filtration	≈ 5 ℓ/h	
WG203	Ion-Exchange → Distillation	≈ 1.8 ℓ/h	



WG250/1000/203			
Model	Collection Method	Distilled Water Produced	Quality Level
WG250	Ion-Exchange → Distillation	≈ 1.8 ℓ/h	A4
WG1000	→ Filtration	≈ 5 ℓ/h	
WG203	Ion-Exchange → Distillation	≈ 1.8 ℓ/h	



WG250W			
Model	Collection Method	Distilled Water Produced	Quality Level
WG250W	Ion-Exchange → Distillation	≈ 1.8 ℓ/h	A4
WG1000	→ Filtration	≈ 5 ℓ/h	
WG203	Ion-Exchange → Distillation	≈ 1.8 ℓ/h	



Easy maintenance

Low Running Cost / Large Capacity



WA500/570/710/730			
Model	Collection Method	Distilled Water Produced	Quality Level
WA500	Distillation → Ion-Exchange	≈ 5 ℓ/h	A4 (Ionized Water)
WA570	→ Filtration	≈ 5 ℓ/h	A1 (Distilled Water)
WA710	Distillation → Ion-Exchange	≈ 10 ℓ/h	
WA730	→ Filtration	≈ 10 ℓ/h	

Large Capacity / Higher Water Quality



WG511/711			
Model	Collection Method	Distilled Water Produced	Quality Level
WG511	Ion-Exchange → Distillation	≈ 5 ℓ/h	A4
WG711	→ Filtration	≈ 10 ℓ/h	

Distilled Water Only and Economical



WS200/220		
Model	Collection Method	Distilled Water Produced
WS200	Distillation	≈ 1.8 ℓ/h
WS220		

Compact and Economical



WL200/220/220T		
Model	Collection Method	Flow rate of ion exchanged water
WL200	Ion-Exchange	1 ℓ/min
WL220		
WL220T		

Simple Type



WL100		
Model	Collection Method	Flow rate of ion exchanged water
WL100	Ion-Exchange	2~5 ℓ/min

Labo Cube

Desktop / Built-in Type



WL320A/320B		
Model	Collection Method	Flow rate of ion exchanged water
WL320A	Ion-Exchange	1 ℓ/min
WL320B		

Built-in Type



WE200		
Model	Collection Method	Flow rate of ion exchanged water
WE200	RO membrane → Ion-Exchange → Filtration	0.5~1.0 ℓ/min

Water Quality JIS K0557

Description	A1	A2	A3	A4
Conductivity (mS/m)	0.5 or less	0.1 or less	0.1 or less	0.1 or less
(TOC)(mg C/L)	1 or less	0.5 or less	0.2 or less	0.05 or less
Zinc (μg Zn/L)	0.5 or less	0.5 or less	0.1 or less	0.1 or less
Silica (μg SiO2/L)	-	50 or less	5.0 or less	2.5 or less
Chloride ion (μg Cl-/L)	10 or less	2 or less	1 or less	1 or less
Sulfide ion (μg SO42-/L)	10 or less	2 or less	1 or less	1 or less

Constant Temperature Bath

Precise Temp Control "Thermo-Elite"

High Accuracy and Wide Temperature Range



BH		
Model	Temp. Range	Min. Display Unit
BH401	Room Temp. +15~+100°C	0.1°C
BH501	Room Temp. +15~+200°C	

Standard Type

Easier Operation with Glass Observation Window



BK			BA		
Model	Temp. Range	Internal Capacity	Model	Temp. Range	Internal Capacity
BK300	Room Temp. +5~+80°C	27 ℓ	BA300	Room Temp. +5~+80°C	27 ℓ
BK400		42 ℓ	BA400		42 ℓ
BK500		70 ℓ	BA500		70 ℓ
BK610		109 ℓ	BA610		109 ℓ
BK710		144 ℓ	BA710		144 ℓ

Precise Low Temp "Thermo-Elite"

Equipped with Low/High Temp Accuracy Control



BH			
Model	Temp. Range	Cooling Capacity	Temp. Adjustment Accuracy
BH302	-20~+80°C	360W (310kcal/h) at 20°C	±0.02°C (JTM)

Shaking Water Bath + Thermomate

High Precision Shaking Water Bath combined with Thermomate



BW (Shaking Bath)		BF (Thermomate)	
Model	Bath Capacity	Model	Type
BW101	≈ 12 ℓ	BF200	Basic
BW201	≈ 20 ℓ	BF400	Multi-Functional
BW400	≈ 30 ℓ	BF500	Multi-Functional
		BF600	Oil / Water

Shaking Type : Two-way Shaking
Shaking Width : 10-40mm (changeable)

Large Capacity Type



BL		
Model	Temp. Range	Cooling Capacity
BL401	-15~+70°C	≈ 540W (464kcal/h) at 15°C
BL810	at room temp +20°C	≈ 880W (756kcal/h) at 15°C

Shaking Incubator

Pump Stirring Type



BT	
Model	Bath Capacity
BT100	≈ 19 ℓ
BT200	≈ 23 ℓ
BT300	≈ 34 ℓ

Shaking Type : Two-way Shaking
Shaking Width : 10-40mm (changeable)

Space Saving Type



BT220		
Model	Temp. Range	Shaking Width
BT220	Room Temp. +5~+80°C	20mm

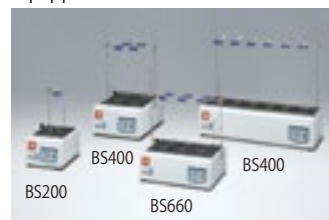
Overheat-Prevention Device



TS	
Model	Temp. Setting Range
TS101	0~500°C
TS310	

Water Bath

Equipped with Over-Heat Prevention and Electric Leakage Breaker



BS		
Model	Temp. Range	Bath Capacity
BS200	Room Temp.	≈ 4.7 ℓ
BS400	+5°C to Boiling Water Temp	≈ 9 ℓ
BS600		≈ 11 ℓ
BS660		≈ 14 ℓ



BM	
Model	Bath Capacity
BM510	≈ 4 ℓ

"Neo-Cool Bath" (with External Circulator)

8L/13L, Operating Temp. Range -10~+80°C



BBL	
Model	Cooling Capacity
BBL101	≈ 370W (320kcal/h) at Liquid Temp. 15°C
BBL301	≈ 410W (350kcal/h) at Liquid Temp. 15°C

6L/13L/26L, Operating Temp. Range -30~+80°C



BB	
Model	Cooling Capacity
BB301	≈ 420W (361kcal/h) at Liquid Temp. 15°C
BB401	≈ 475W (408kcal/h) at Liquid Temp. 15°C
BB601	≈ 750W (645kcal/h) at Liquid Temp. 15°C

Peltier Low Constant Temperature

CFC Free, Operating Temp. Range 0~+80°C



BQ (Fixed Temperature Type)		BV (Programmable Type)	
Model	Bath Capacity	Model	Bath Capacity
BQ100	6 ℓ	BV100	6 ℓ
BQ200	10 ℓ	BV200	10 ℓ
BQ300	15 ℓ	BV300	15 ℓ

Constant Temperature Oil Bath

Large Capacity Type (37 L)



BOA		
Model	Temp. Range	Bath Capacity
BOA200	RT +10~+200°C	37 ℓ
BOA310	RT +10~+270°C	37 ℓ

Thermomate + Oil Bath

Combination of Thermomate and Oil Bath



BZ + BF		
Model	Temp. Range	Bath Capacity
BZ100+BF600	RT +10~180°C	12 ℓ
BZ100D+BF600		13 ℓ
BZ200+BF600		20 ℓ
BZ300+BF600		27 ℓ

Oil Bath



BO		
Model	Temp. Range	Bath Capacity
BO410	RT +10~+180°C	4 ℓ
BO601		7 ℓ

Sterilizer

Laboratory Drying Sterilizer

Equipped with Over-heat Prevention Simple Program and Economical



SK		
Model	Temp. Range	Internal Capacity
SK401	RT +5~+260°C	99 ℓ
SK601		162 ℓ
SK801	RT +10~+210°C	300 ℓ
SK811		

*Stand is optional



SI		
Model	Temp. Range	Internal Capacity
SI401	RT +5~+260°C	77 ℓ
SI601	RT +5~+260°C	159 ℓ

*Stand is optional

Laboratory Autoclave

Built-in Cooling Fan



SN		
Model	Temp. Range	Internal Capacity
SN210	+105~+135°C (Sterilization)	20 ℓ
SN310		32 ℓ
SN510		47 ℓ
SN510		

SQ (Low-Height Type)

Model	Temp. Range	Internal Capacity
SQ510	+105~+135°C (Sterilization)	47.5 ℓ

Economical



ST		
Model	Temp. Range	Internal Capacity
ST201	+105~+123°C (Sterilization)	20 ℓ
ST301	+105~+128°C (Sterilization)	32 ℓ
ST511	+105~+128°C (Sterilization)	47 ℓ

Water Circulator

Neo-Cool Line

Refrigerator On-Off Control



CF			
Model	Operating Temp. Range	Capacity	Cooling Capacity
CF301	-20°C~Room.Temp	≈ 4ℓ	≈ 450W (387kcal/h) at Liquid Temp. 10°C
CF301G			≈ 450W (387kcal/h) at Liquid Temp. 10°C
CF800			≈ 1,050W (830kcal/h) at Liquid Temp. 10°C
CF800G			≈ 1,050W (830kcal/h) at Liquid Temp. 10°C

Temp Adjustment Accuracy ±0.1°C



CFA・CFW			
Model	Operating Temp. Range	Capacity	Cooling Capacity
CFA302	-10~+60°C	≈ 4ℓ	≈ 370W (318kcal/h) at Liquid Temp. 10°C
CFA611	-10~+80°C		≈ 850W (731kcal/h) at Liquid Temp. 10°C
CFW611	-10~+80°C		≈ 1,300W (1,118kcal/h) at Liquid Temp. 10°C

High Lift / High Flow Amount



CHS・CHW			
Model	Purpose	Operating Temp. Range	Cooling Capacity
CHS700	Pure Water	10°C~Room Temp.	≈ 1,050W (900kcal/h) at Liquid Temp. 20°C
CHW700	Tap		

Space Saving Type Circulator

Operating Temp. Range : -20~+20°C



CFE820/920			
Model	Operating Temp. Range	Capacity	Cooling Capacity
CFE820	-20~+20°C	≈ 4ℓ	≈ 730W (559kcal/h) at Liquid Temp. -10°C
CFE920			≈ 270W (215kcal/h) at Liquid Temp. -20°C

Operating Temp. Range : -20°C~Room Temp



CF820			
Model	Operating Temp. Range	Capacity	Cooling Capacity
CF820	-20°C~Room Temp	≈ 4ℓ	≈ 940W (810kcal/h) at Liquid Temp. 10°C
			≈ 820W (706kcal/h) at Liquid Temp. 0°C
			≈ 710W (612kcal/h) at Liquid Temp. -10°C



CF321P			
Model	Operating Temp. Range	Capacity	Cooling Capacity
CF321P	-20°C~Room Temp	≈ 4ℓ	≈ 400W (344kcal/h) at Liquid Temp. 10°C
			≈ 350W (300kcal/h) at Liquid Temp. 0°C
			≈ 285W (245kcal/h) at Liquid Temp. -10°C

Cool Line

Temp Adjustment Accuracy ±0.1 °C



CLH			
Model	Operating Temp. Range	Capacity	Cooling Capacity
CLH302	-10~+80°C	≈ 4ℓ	≈ 450W (387kcal/h) at Liquid Temp. 15°C
CLH401	-15~+80°C		≈ 600W (517kcal/h) at Liquid Temp. 15°C
CLH610			≈ 785W (676kcal/h) at Liquid Temp. 15°C

Included with On-Off Refrigerator Control



CLS			
Model	Operating Temp. Range	Capacity	Cooling Capacity
CLS302	-10°C~Room Temp.	≈ 4ℓ	≈ 450W (387kcal/h) at Liquid Temp. 15°C

Cold Trap

Vessel Cooling Trap



CA			
Model	Lowest Temp.	Capacity	Moisture Trap
CA301	-45°C	≈ 4ℓ	0.9kg
CA801	-85°C		1.0kg

Neocool Dip

Condenser Dipping Type



BE			
Model	Operating Temp. Range	Capacity	Cooling Capacity
BE201	-20~+35°C	≈ 4ℓ	190W (163kcal/h) at 0°C
BE201F			350W (301kcal/h) at 0°C
BE301			350W (301kcal/h) at 0°C

Coolnics Circulator

Non-CFC Cooling Type / External Open Circulation

■ Combined Type



CTW			
Model	Operating Temp. Range	Cooling Capacity	Pump Capacity
CTW402	-10~+70°C	147W (126kcal/h)	8ℓ /min
CTW802		291W (250kcal/h)	11ℓ /min

■ Separated Type



CTW			
Model	Operating Temp. Range	Cooling Capacity	Pump Capacity
CTW402S	-10~+70°C	147W (126kcal/h)	8ℓ /min
CTW802S		291W (250kcal/h)	11ℓ /min

CTA			
Model	Operating Temp. Range	Cooling Capacity	Pump Capacity
CTA402	0~+70°C	97W (83kcal/h)	8ℓ /min
CTA802		189W (163kcal/h)	11ℓ /min

CTA			
Model	Operating Temp. Range	Cooling Capacity	Pump Capacity
CTA402S	0~+70°C	97W (83kcal/h)	8ℓ /min
CTA802S		189W (163kcal/h)	16ℓ /min

Rotary Evaporator

RE301

Motorized Lift Type



RE301A-W	
Standard Horizontal Glass Set	Water Bath



RE301B-W	
High Evaporation Point (Vertical) Glass Set	Water Bath



RE301C-W	
Low Evaporation Point (Vertical) Glass Set	Water Bath

RE601・RE801

Motorized Lift & High Functions Type



RE601/801A-W	
Standard Horizontal Glass Set	Water Bath



RE601/801B-W	
High Evaporation Point (Vertical) Glass Set	Water Bath



RE601/801C-W	
Low Evaporation Point (Vertical) Glass Set	Water Bath

RE200



RE200A-WJ		RE200B-WJ	
Standard Horizontal Glass Set	Water Bath (Jack Thrust Method)	High Evaporation Point (Vertical) Glass Set	Water Bath (Jack Thrust Method)



RE200C-WJ	
Low Evaporation Point (Vertical) Glass Set	Water Bath (Jack Thrust Method)



Digital settings and display in Japanese or English



Water bath (oil bath)

Vacuum Pump & Aspirator

Vacuum Pump

Light・Small・Motor Direct Driving Type



Model	PG・PS・PQ・PD	
	Vacuum Pressure (Pa)	Exhaust Speed (50/60Hz) L/min
PG201	1.0 × 10 ⁻¹	20/24
PS23	9.3	20/24
PQ30	6.7 × 10 ⁻²	30/36
PD53		50/60
PQ100		100/120
PD139		135/162
PD204	6.7 × 10 ⁻²	200/240

Long Life Period・Chemical Resistant Type



Model	PX	
	Vacuum Pressure (Pa)	Exhaust Speed (50/60Hz) L/min
PX52	6.7 × 10 ⁻²	50/60
PX137	6.7 × 10 ⁻²	135/162
PX202	6.7 × 10 ⁻²	200/240

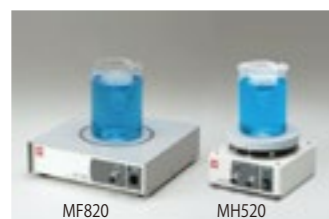
Handy Aspirator



WP15	
Model	Vacuum Pressure (Pa)
WP15	20°C 2.3kPa

Stirrer & Shaker

Magnetic Stirrer



MF820 MH520

MF820 · MH520

Model	Revolution(rpm)	Stage Dimensions
MF820	80~1,500	270mm W x 260mm L
MH520	150~1,300	φ 168

*MH520: Hot Plate Type

Shaker



MK201D

Model	Shaking Width
MK201D	30mm

*Shaking rack is optional

Laboratory Stirrer



LT

Model	Rotation speed range (rpm)
LT400A	10 to 300
LT400B	15 to 600
LT400C	25 to 1,200
LT400D	60 to 3,000
LT500A	15 to 600
LT500B	25 to 1,200

*Stand and Blade is optional



Centrifugal tube holder
(for ø16 to 35mm ×
110 to 130mm
length tube × 18 pcs.)



Test tube holder
(for ø16.5 to 18mm ×
160 to 190mm
length tube × 18 pcs.)



Erlenmeyer flask holder
(a set for 100 to 1,000ml)



Separatory funnel holder
(for 100 to 1,000ml)

Spray Dryer

Big Capacity Type



DL410

S Type is for Organic Solvents



ADL311-A / 311S-A

Organic Solvent Collector Type



GAS410

Spray / Granulation Type



GB210

Washer

Laboratory Washer

Ultrasonic Pipet Washer



AW31

Rack Dim mm (D×H)
138 × 540

Automatic, Desktop Type



AWD510

Dim mm (W×D×H)
500 × 480 × 490

Semi-Automatic, Desktop Type



AW47

Dim mm (W×D×H)
420 × 450 × 570

Full-Automatic, Desktop Type



AW62

Dim mm (W×D×H)
560 × 600 × 570

Full-Automatic, Big Capacity



AW83

Dim mm (W×D×H)
600 × 630 × 1,080

Laboratory Fume Hood

Standard Model

LDS

Various Safety Functions and Excellent Operability

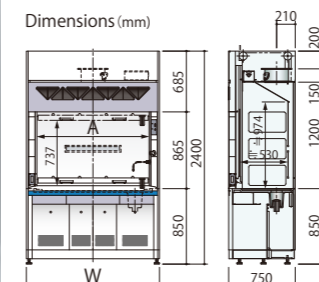


LDS-150S

Model	W	A
LDS-120S	1,200	960
LDS-150S	1,500	1,260
LDS-180S	1,800	1,560

S (Material of work table): Ceramitite
Note: An exhaust fan cannot be installed

Dimensions (mm)



With Anemometer

LDX

Suitable for Concentrated Exhaust from some Fume Hoods

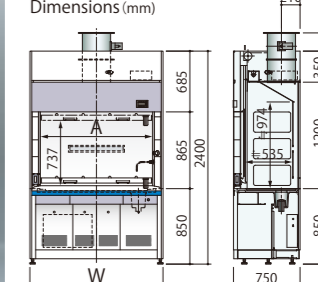


LDX-150S

Model	W	A
LDX-120S	1,200	960
LDX-150S	1,500	1,260
LDX-180S	1,800	1,560

S (Material of work table): Ceramitite
Note: An exhaust fan cannot be installed

Dimensions (mm)



Low Worktop Type

LDT

Large Working Height

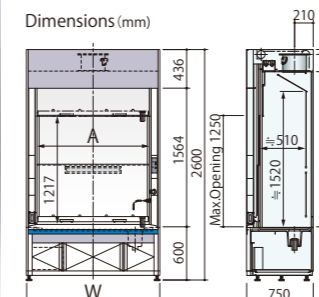


LDT-150S

Model	W	A
LDT-120S	1,200	960
LDT-150S	1,500	1,260
LDT-180S	1,800	1,560

S (Material of work table): Ceramitite
Note: An exhaust fan cannot be installed

Dimensions (mm)



Built in Scrubber Type

LDC1

Containment System

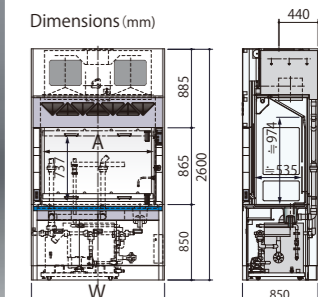


LDC-181S

Model	W	A
LDC-121S	1,200	960
LDC-151S	1,500	1,260
LDC-181S	1,800	1,560

S (Material of work table): Ceramitite
Note: An exhaust fan cannot be installed

Dimensions (mm)



Low Flow Volume Type

LDN

Suitable for Powder Containment

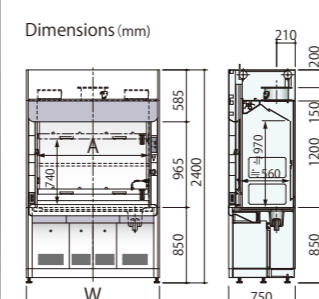


LDN-180S

Model	W	A
LDN-120S	1,200	960
LDN-150S	1,500	1,260
LDN-180S	1,800	1,560

S (Material of work table): Ceramitite
Note: An exhaust fan cannot be installed

Dimensions (mm)



Fume Hood

MS · MV

Compact



MS-90

Model	Inner Material	Material of Work Table
MS-90	Stainless Steel	Stainless Steel
MV-90	Hard Vinyl Chloride	Hard Vinyl Chloride
MS-90T	Stainless Steel	—
MV-90T	Hard Vinyl Chloride	—

T Model: desktop type

● All models have the same width (900mm)

