SINCE 1889

Yamato

GENERAL CATALOG

Scientific Instruments / Laboratory Equipment

www.yamato-scientific.com

Yamato

SINCE 1889

Yamato

Future of Science

Innovations in Science & Technology
that create happiness for all humankind

Message from President

Yamato Scientific Co., Ltd. was founded in 1889 as “Sousuke Morikawa & Company”, which mainly focused on sales and production of medical glass in Nihonbashi, Tokyo, where the high commercial business district was originated in Japan during the Edo period.
Ever since, the company has grown from a provider solely of scientific glass to a distributor of newest and also advanced scientific instruments and laboratory equipment.
The factories perform totally from R&D to manufacturing are located in Japan and China which form Yamato’s production line including metal plate processing, coating, assembling and packing to provide authentic quality to all over the world.
With the cooperation of Yamato Group, we have successfully widened our new field of business to distribute food containers, electronic materials, medical equipment and its consumables.
As the rapid increase of globalization and the complexity of today’s competitive business environment, we have come to set up an infrastructure to adopt global standards and expand worldwide procurement. In addition, we have established 20 sales and service offices in Japan (as of March 2018) as well as subsidiaries over the world. With the support of approximately 300 distributors worldwide, we are well equipped to assist a diverse and global mix of customers.

Our Company’s Motto is to contribute to the development of scientific technologies by making the best use of our know-how and experience accumulated throughout the history of nearly 130 years.

Yamato Scientific always appreciates and welcomes your comments, opinions, and requests to help us provide the best for you.



Yamato Scientific Co., Ltd.
President and CEO
Satoshi Morikawa

Company's Motto

The company's established principles are firmly rooted in the philosophy and heritage of the founder since 1889.



Since 1889, we have embraced the philosophy and heritage of the founder Sosuke Morikawa to represent the spirit of "Challenge and Innovation" to build a relationship of "Faith and Trust" with our partners, which has helped us to create a company with "Sincerity and Consideration" to practice product development and business operation.

Management Principles

Yamato Scientific supports innovations in R&D and Production Technologies that contribute to the happiness of humankind.

Environmental Principles

Yamato Scientific stands by the company's environmental principles to be actively engaged in environmental conservation activities.

1. Compliance with environmental regulations
2. Improvement of business processes to reduce the burdens of environment
3. Promotion of business activities to reduce environmental burdens.
4. Development of environmentally conscious products and systems
5. Enhancement of the environmental management system
6. Publication of our environmental policy

ISO

We have always been trying to improve operational quality by acquiring ISO certification.

ISO14001



ISO9001

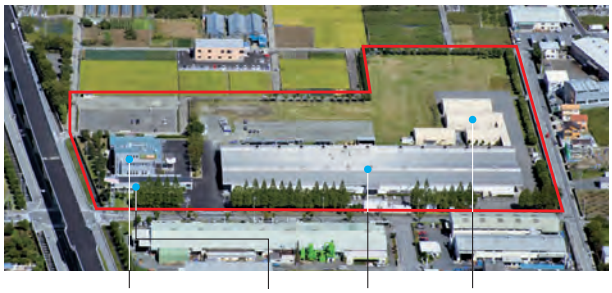


ISO13485



“An efficient R&D setup with fully integrated structures”

The Minami Alps Factory located in southern part of Yamanashi Prefecture develops and produces scientific instruments, laboratory equipment, analytical and measurement instruments, industrial inspection devices and medical equipment. The products from our facilities are offered to universities and public agencies, including domestic and foreign private companies, and thus contribute to further innovation of research, development and manufacturing technologies.



“Future Ideals”- R&D Center

R&D center enhances our manufacturing strength. Our avid researchers facilitate the development of new products in a highly effective environment. The center has a testing room equipped with the most advanced evaluation devices, which the researchers can obtain various test data to make a quantitative assessment of the product capabilities.
We can provide various technical training programs and product seminars for effective engineering skills and sales enhancement.





Lobby and Design Floor



Prototype Lab

Environmental testing, measurement experiment, evaluation testing, etc.



Plasma Laboratory



Spray Dry Laboratory



Fume Hood and Air Conditioner System

Yamato Scientific Chonqing Co., Ltd: Manufacturing Factory in China

We have started to manufacture scientific instruments and industrial equipment such as ovens, autoclaves and aging chambers in Chonqing, China since March 2006. There, we have developed an original, high-tech manufacturing system to provide the best quality to the world and build a strong brand image of Yamato Scientific in China.





Corporate Summary

Company Name	Yamato Scientific Co., Ltd.	
President	Satoshi Morikawa	
Headquarters	17F Muromachi Higashi Mitsui Bldg. (COREDO MUROMACHI Ⅰ), 2-2-1 Nihonbashi Muromachi, Chuo-ku, Tokyo 103-0022	
Foundation	March 4, 1889	
Incorporated	November 27, 1946	
Capital	100 million yen	
Accounting Period	September	
Gross Sales*	Non-consolidated Basis	27.7 billion yen
	Consolidated Basis	73.9 billion yen
	Yamato Group Total	86.8 billion yen
	*As of September 2017	
Employee**	Non-consolidated Basis	705
	Consolidated	1215
	Yamato Group Total	1314
	**As of October 2017	
Factories	Minami Alps Factory, R&D Center (Minami Alps・Atsugi), Advanced Technology Research Center	
Sales Bases	Sapporo, Sendai, Maebashi, Tsukuba, Kita-Kanto, Chiba, Tokyo, Tokyo-Kita, Tokyo-Nishi, Kawasaki, Yokohama, Atsugi, Nagano, Shizuoka, Nagoya, Hokuriku, Keiji, Kansai, Hiroshima, Fukuoka, Cologne (Germany)	
Overseas Branches	Yamato Scientific America Inc. (California, USA), Yamato Scientific Shanghai Corp. (Shanghai, China), Yamato Scientific Chongqing Co., Ltd. (Chongqing, China)	

Business Contents

1. Development, manufacture and domestic/overseas sales for scientific instruments, test & research facilities, analysis & measurement device, examinations & inspection device, and medical equipment.
2. Inspections & calibrations and preventive maintenance services for the above contents.
3. Design, construction, total relocation, reform and consultant services for research facilities in universities, institutes, etc.

ISO Certification

ISO14001 : Minami Alps Factory
ISO9001 : Field Engineering Department and Minami Alps Factory
ISO13485 : Minami Alps Factory

History

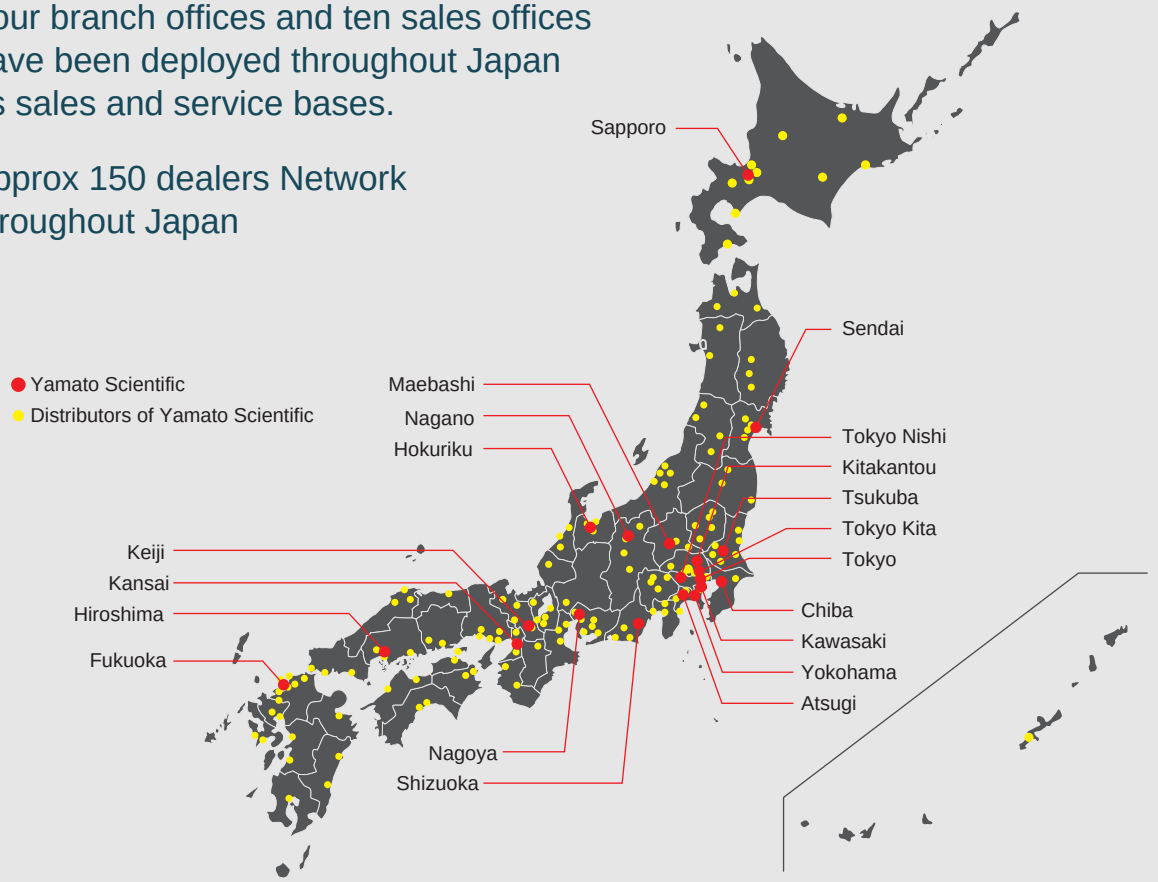
1889	Founded as"Yamato Sosuke Morikawa Company" by Sosuke Morikawa, First President
1913	Issued first Comprehensive Catalog
1915	First development and manufacture for X-ray tube in Japan
1941	Established “Yamato Scientific Instruments Ltd.”. Sosuke Morikawa Jr. became 2nd President.
1946	Yamato Scientific Instruments, Ltd. reorganized to Yamato Scientific Instruments Co, Ltd.
1948	Created distributor networks in Hokkaido, Tohoku, Kanto, Shinetsu, Hokuriku, Chubu, Kinki and Kyushu regions.
1966	Held the 1st domestic distributors meeting
1968	Completion of Atsugi Factory in Kanagawa Inland Industrial Park
1972	Yamato Scientific Instruments Co., Ltd. renamed to Yamato Scientific Co., Ltd. Tatsumi Morikawa became the 3rd president Established Yamato Express Co,. Ltd.
1976	Opened Atsugi Distribution Center within Atsugi Factory area
1977	Established Yamato Lab-Tech Co., Ltd. after incorpora - tion of Atsugi Factory and Research Facility Department.
1981	Completion of Yamanashi Factory in Kosai Industrial Park (current Minami Alps Factory)
1982	Established Yamato USA, Inc. in Illinois Established a medical device sales company, Yamato Medical Co. Ltd.
1989	Celebrated 100th anniversary establishment
1995	Established stock Yamato Environmental Technology Research Institute
1999	Satoshi Morikawa became the 4th president Yamato Glass Co., Ltd. listed on JASDAQ
2000	Established Morikawa Yamato Medical Co. Ltd. (Merging Yamato Medical Co. Ltd. and Morikawa Medical device Manufacture Co. Ltd.) Established SUNMEDIX Co., Ltd. (Merging Morikawa Yamato Medical Co. Ltd. and Ishii Medical Factory Co. Ltd.)
2003	Started “ Yamato Renaissance Campaign” promoting Yamato Brand Products
2004	Established Yamato Scientific Shanghai Corp.
2005	Established Yamato Scientific Chongqing Co., Ltd.
2006	New R&D Center opened at Minami Alps Factory Yamato Glass Co., Ltd. renamed to Yamato Material Co., Ltd.
2010	Opened Monzennaka-cho Annex
2012	Established Yamato Techno Engineering Co., Ltd.
2013	Relocation of headquarters (Nihonbashi Muromachi, Tokyo)
2014	Commemorated 125th Anniversary
2015	Established Lab Design Systems Co., Ltd.
2016	Completion of Yamato Scientific Chongqing Co., Ltd. new factory

Sales and Service Network

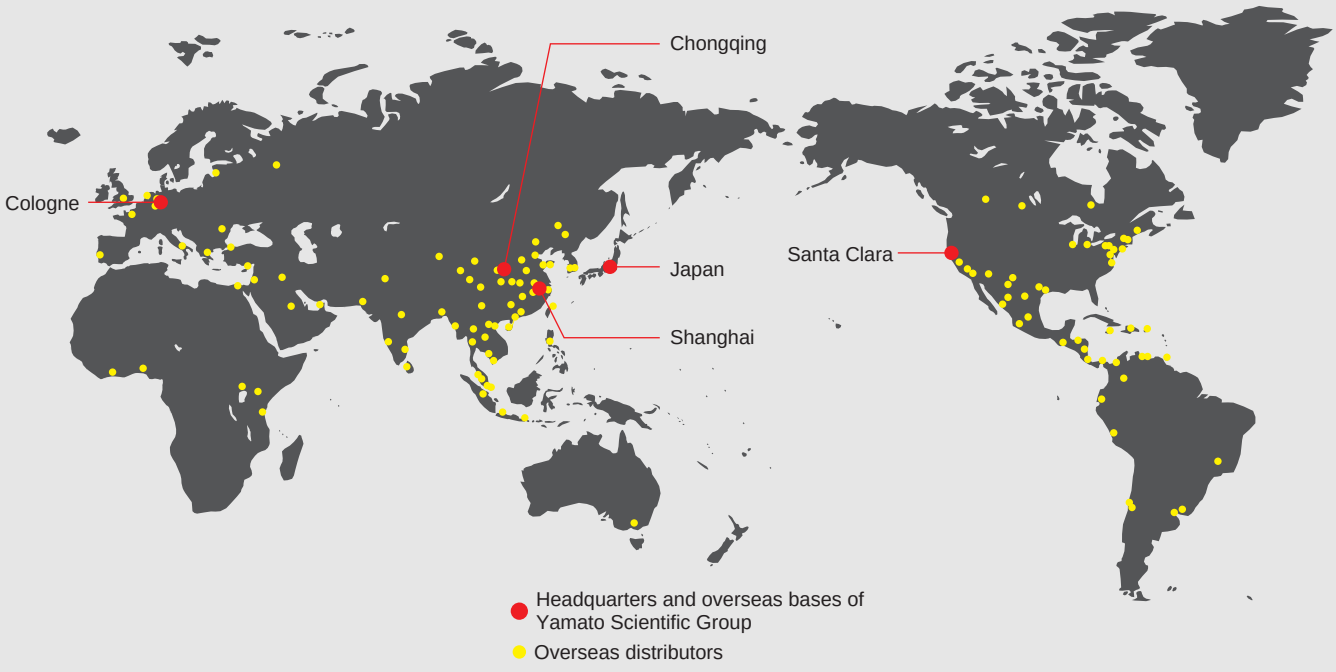
Location

Four branch offices and ten sales offices have been deployed throughout Japan as sales and service bases.

Approx 150 dealers Network throughout Japan



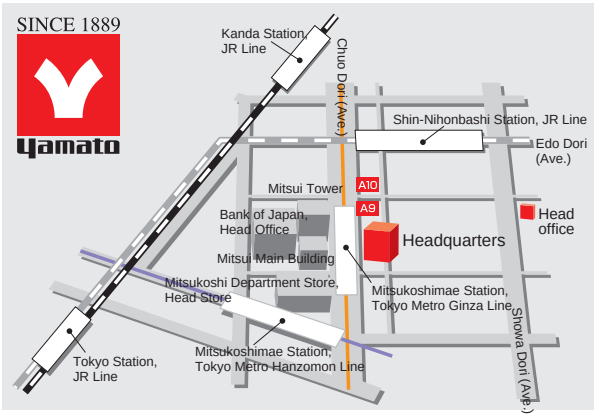
Overseas Sales Offices and Overseas Dealers Network



Yamato Group Introduction



Yamato Scientific Co., Ltd. Headquarters



(Transportation)

- Direct connection to Mitsukoshimae Station, Exit A6, Tokyo Metro Ginza Line
- Direct connection to Mitsukoshimae Station, Exit A6, Tokyo Metro Hanzomon Line
- Direct connection to Shin-Nihonbashi Station, Exit A6, JR Line



Yamato Scientific Co., Ltd. Head Office



SUNMEDIX Corporation

Establishment Date	August 21, 1950
Capital	83 million yen
Employee	371
Location	17F Muromachi Higashi Mitsui Bldg. (COREDO Muromachi 1), 2-2-1 Nihonbashi Muromachi, Chuo-ku, Tokyo 103-0022, JAPAN
Website	http://www.sunmedix.co.jp/

Business Contents
1. Sale of medical instruments, scientific instruments, medical X-ray devices, nursing care goods and various medical materials
2. Planning and consultation for medical facilities
3. Maintenance service



Yamato Scientific America Inc.

Establishment Date	January 23, 1989
Capital	US$2,000,000.00
Employee	7
Location	925 Walsh Ave.Santa Clara, CA 95050, U.S.A.
Website	http://www.yamato-usa.com

Business Contents
1. Sales and import/export of yamato brand products.
2. Turn-key project coordination for laboratory facilities.
3. Business incidental to the business listed in the preceding items.



Yamato Scientific Shanghai Corp.

Establishment Date	June 22, 2004
Capital	35 million yen
Employee	20
Location	Room 1001-1002, Block B, Xinyan Building, No.65 Guiqing Road, Xuhui District, Shanghai, China
Website	http://www.yamato-china.cn/

Business Contents
1. Sale and import/export of scientific instruments, medical instruments and laboratory facilities.
2. Export and domestic sales for OEM products and customized products manufactured in China.
3. Import and domestic sales for laboratory facilities.
4. Installation, repair and maintenance service.
5. Consultation for establishing new laboratories.



Yamato Scientific Chongqing Co., Ltd.

Establishment Date	September, 2005
Capital	130 million yen
Employee	104
Location	No.5-37, Yunhan Ave., Shuitu New & High-Tech, Industrial Park, Beibei Dist., Chongqing 400700, China

Business Contents
1. Investigation, R&D, design, production and sales of scientific instruments, medical instruments and laboratory facilities.
2. Medical Instruments Production Permission Number 20070012, ISO9001, ISO14001, GB/T28001



Yamato Material Co., Ltd.

Establishment Date	December 14, 1948
Capital	334 million yen
Employee	92
Location	24F 2-2-1 Kyobashi Edogrand, Kyobashi, Chuoku, Tokyo 104-8614, JAPAN
Major Branches	Osaka Branch, Kyushu Business Office, Akita Factory
Website	http://www.yamato-material.co.jp/

Business Contents
• Container Business
1. Plans, proposals, production and sales for packing materials to non-food industry such as cosmetics and toiletries, and for food industry such as beverages and seasonings.
2. Original Equipment Manufacturer (OEM) Sales of supplements, toiletry, etc.
3. Plans and sales of bottling system for food and medical industries
4. Plans and sales for environmental and energy saving products.
5. Cleaning and recycling for returnable beverage bottles, etc.

• Electronics Related Business
1. Plans, production, and sales for sockets, substrates, plastic products for electronic device, semiconductors, LCD, etc.
2. Plans and sales for testing devices for electronic device, semiconductors, LCD, etc
3. Plans and sales for image processing techniques and precision temperature control techniques.

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Sterilizer

Laboratory Use, Benchtop



SK101C/111C

Model	Temp. range	Internal capacity
SK101C/111C	50~126°C	18L

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Laboratory Use, Compact



SK200C/210C/300C/310C

Model	Temp. range	Internal capacity
SK200C/210C	50~126°C	24L
SK300C/310C		30L

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SN

Model	Temp. range	Internal capacity
SN200C/210C	45~135°C	20L
SN300C/310C		32L
SN500C/510C		47L

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Laboratory Use, Large Capacity



SQ500C/510C/810C

Model	Temp. range	Internal capacity
SQ500C/510C	45~135°C	50L
SQ810C		80L

➡Page 35/36

Laboratory Use, with Drying Process



SM520/530/820/830

Model	Temp. range	Internal capacity
SM520/530	45~60°C (retain temp.) 45~80°C (preheat temp.) 105~135°C (sterilize) 60~110°C (liquefy) 135~150°C (dry)	50L
SM820/830		80L

➡Page 37/38



SM201/211/301/311/501/511

Model	Temp. range	Internal capacity
SM201/211	Sterilization 105 to 123°C Drying 150 to 180°C	20L
SM301/311	Sterilization 105 to 128°C Drying 150 to 180°C	32L
SM501/511		47L

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Dry Sterilizer (Laboratory use)



SI411C/SI611C

Model	Temp. range	Internal capacity
SI411C	RT+5~260°C	77L
SI611C		159L

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SK401/601/801/811

Model	Temp. range	Internal capacity
SK401	RT+5~260°C	99L
SK601		162L
SK801/811	RT+10~210°C	300L

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Loop Cinerator



SL-21

Model	Internal sterilizing Temp.	Time to reach
SL-21	800~850°C	10min.

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Spray Dryer

Spray Dryer



ADL311SA

Model	Evaporated water	Temp. control range
ADL311SA	Max. 1300mL/h	40~220°C

➡ Page 51/52

Spray Dryer Pulvis Mini Spray



GB210-A

Model	Evaporated water	Temp. control range
GB210A	Max. 1300mL/h	40~220°C

➡ Page 53/54



GB210-B

Model	Granulation processing capacity	Temp. control range
GB210B	50~300g	40~220°C

➡ Page 55/56

Spray Dryer (Large Capacity)



DL410

Model	Evaporated Water	Temp. control range
DL410	Max. 3000mL/h	40~300°C

➡ Page 57/58

Solvent Recovery Unit



GAS410

Model	Circulation flow	Solvent recovery capacity
GAS410	0.12~0.65 m^3/min	1300ml/h or more

➡ Page 59/60

Muffle Furnace

Standard Electric Furnace



FO□□□C

Model	Temp. range	Internal capacity
FO110C	100~1150°C	1.5L
FO210C		3.75L
FO310C		7.5L
FO410C		9L

Model	Temp. range	Internal capacity
FO510C	100~1150°C	11.3L
FO610C		17.5L
FO710C		23.6L
FO810C		30L

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FO□□□CR

Model	Temp. range	Internal capacity
FO100CR /110CR	100~1150°C	1.5L
FO200CR /210CR		3.75L
FO300CR /310CR		7.5L

Model	Temp. range	Internal capacity
FO410CR	100~1150°C	9L
FO510CR		11.3L
FO610CR		17.5L
FO710CR		23.6L
FO810CR		30L

➡ Page 67/68

High Performance Muffle Furnace



FP110C/310C/510C

Model	Temp. range	Internal capacity
FP110C	100~1150°C	1.5L
FP310C		7.5L
FP510C		11.3L

➡ Page 69/70



FP102/302/312/412

Model	Temp. range	Internal capacity
FP102	100~1150°C	1.5L
FP302		7.5L
FP312		
FP412		11.3L

➡ Page 71/72

Nitrogen Gas Generator



NF300

Model	N_2 gas purity	N_2 gas Generating volume
NF300	99～99.99%	Max. 10 NL/min

➡ Page 73

Oven

Forced Convection



DKN

Model	Temp. range	Internal capacity
DKN302C/312C	RT +10~260°C	27L
DKN402C/412C		90L
DKN602C/612C		150L
DKN812C		300L
DKN912C	RT +10~210°C	535L

➡Page 79/80

Economical Forced Convection Oven



DKM

Model	Temp. range	Internal capacity
DKM300C/310C	RT +10~260°C	27L
DKM400C/410C		90L
DKM600C/610C		150L

➡Page 81/82



DKL

Model	Temp. range	Internal capacity
DKL310C	RT +10~260°C	27L
DKL410C		90L
DKL610C		150L

➡Page 83

Forced Convection Oven (High Temp.)



DN410HC/610HC

Model	Temp. range	Internal capacity
DN410HC	RT +10~360°C	95L
DN610HC		223L

➡Page 84



DN411H/611H

Model	Temp. range	Internal capacity
DN411H	RT +15~360°C	95L
DN611H		223L

➡Page 85/86

Fine Oven



DF/DH□□□C

Model	Temp. range	Internal capacity
DF411C	RT +10~260°C	91L
DF611C		216L
DH411C	RT +10~360°C	91L
DH611C		216L

➡Page 87/88



DF/DH412,DF/DH612

Model	Temp. range	Internal capacity
DF412	RT +15~260°C	91L
DF612		216L
DH412	RT +15~360°C	61L
DH612		216L

➡Page 89/90

Fine Oven (Large Capacity)



DF/DH811C,DF/DH1011C

Model	Temp. range	Internal capacity
DF811C	RT +10~200°C	512L
DF1011C		1,000L
DH811C	RT +10~300°C	512L
DH1011C		1,000L

➡Page 91



DF832/1032,DH832/1032

Model	Temp. range	Internal capacity
DF832	RT +15~200°C	512L
DF1032		1,000L
DH832	RT +15~300°C	512L
DH1032		1,000L

➡Page 92

Fine Oven (Tall)



DFS710/810,DHS710/810

Model	Temp. range	Internal capacity
DFS710	RT +15~260°C	418L
DFS810		558L
DHS710	RT +15~360°C	418L
DHS810		558L

➡Page 93/94

Fine Oven (High Temp., 500℃)



DH650C

Model	Temp. range	Internal capacity
DH650C	RT +10~500°C	216L

➡Page 95/96

Forced Convection Oven (Energy Saving)



DNE650/650V/670/810/850/850V

Model	Temp. range	Internal capacity
DNE650/650V	RT +10~260°C	150L
DNE670/670V		
DNE850/850V		300L

➡Page 97/98



DNE□□□C

Model	Temp. range	Internal capacity
DNE410C	RT +20~210°C	90L
DNE610C		150L
DNE810C		300L
DNE910C		540L

➡Page 99/100



DNE401/410/601/610/810/910

Model	Temp. range	Internal capacity
DNE401/410	RT +20~210°C	90L
DNE601/610		150L
DNE811		300L
DNE911		540L

➡Page 101/102

Ovens

Forced Convection Oven (Airflow Control)



DNF□□□C

Model	Temp. range	Internal capacity
DNF410C	RT +10~260°C	90L
DNF610C		150L
DNF810C		300L
DNF910C		540L

➡ Page 103/104



DNF

Model	Temp. range	Internal capacity
DNF301	RT +15~260°C	27L
DNF401/411		90L
DNF601/611		150L
DNF811		300L
DNF911		540L

➡ Page 105/106

Industrial Forced Convection Oven (Silicorn/Fluoro-rubber Gasket)



DKG

Model	Temp. range	Internal capacity
DKG610/610V	RT +30~260°C	150L
DKG650/650V		
DKG810/810V		300L
DKG850/850V		

➡ Page 107/108

Natural Convection Oven (Programmable)



DVS

Model	Temp. range	Internal capacity
DVS402C/412C	RT +5~260°C	99L
DVS602C/612C		162L

➡ Page 109/110

Natural Convection Oven



DX

Model	Temp. range	Internal capacity
DX302C/312C	RT +5~300°C	28L
DX402C/412C		74L
DX602C/612C	RT +5~280°C	153L

➡ Page 111/112



DY

Model	Temp. range	Internal capacity
DY310C	RT +5~300°C	28L
DY410C		74L
DY610C		153L

➡ Page 113/114

Inert Oven



DN411I/611I

Model	Temp. range	Internal capacity
DN411I	RT +15~360°C	95L
DN611I		223L

➡ Page 115/116

Fine Oven (with Explosion Vent)



DF/DH411SC, DF/DH611SC

Model	Temp. range	Internal capacity
DF411SC	RT +10~260°C	91L
DF611SC		216L
DH411SC	RT +10~360°C	91L
DH611SC		216L

➡ Page 117



DF/DH412S, DF/DH612S

Model	Temp. range	Internal capacity
DF412S	RT +10~260°C	91L
DF612S		216L
DH412S	RT +10~360°C	91L
DH612S		216L

➡ Page 118

Glassware Drying Oven

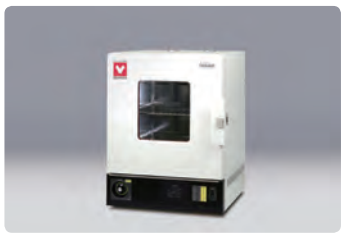


DG

Model	Temp. range	Internal capacity
DG410C	RT +5~70°C	92L
DG450C		
DG810C		445L
DG850C		

➡ Page 119/120

Fail-safe Drying Oven



DGS400

Model	Temp. range	Internal capacity
DGS400	RT +5~110°C	93L

➡ Page 121/122

Clean Oven



DT300/300H

Model	Temp. range	Internal capacity
DT300	RT +20~300°C	27L
DT300T		

➡ Page 123/124



DE/DT/DE U

Model	Temp. range	Internal capacity
DE430C/630C	RT +30~260°C	91/216L
DT430C/630C	RT +30~360°C	91/216L
DE430UC/630UC	RT +50~200°C	91/216L

➡ Page 125/126



DE411/611, DT411/611

Model	Temp. range	Internal capacity
DE411/611	RT +30~260°C	91/216L
DT411/611	RT +30~360°C	91/216L

➡ Page 127/128



DES830/DTS830

Model	Temp. range	Internal capacity
DES830	RT +30~260°C	327L
DTS830	RT +30~360°C	

➡ Page 129/130

Ovens

Clean Oven (Large Capacity)



DEC812C/912C

Model	Temp. range	Internal capacity
DEC812C	RT +10~150°C	236L
DEC912C		472L

➡ Page 131

Open Chamber



OTC-213A/OTC-2D

Model	Temp. range	Internal capacity
OTC-213A	-15~+60°C	134L
OTC-2D	-30~+80°C	300L

➡ Page 132

IR Oven (Far-infrared Heating)



DIR631C

Model	Temp. range	Internal capacity
DIR631C	RT +10~360°C	216L

➡ Page 133

Natural Convection Oven (High Temp., 700℃)



DR210C

Model	Temp. range	Internal capacity
DR210C	300~700°C	13.75L

➡ Page 134

Vacuum Drying Oven



DP200/300/410/610

Model	Temp. range	Internal capacity
DP200	40~240°C	10L
DP300		27L
DP410	40~200°C	91L
DP610		216L

➡ Page 135/136



DP43C/63C

Model	Temp. range	Internal capacity
DP43C	40~200°C	91L
DP63C		216L

➡ Page 137/138

Vacuum Drying Oven (Large Capacity)



DP83C/103C

Model	Temp. range	Internal capacity
DP83C	40~200°C	512L
DP103C		1,000L

➡ Page 139



DP810/1030

Model	Temp. range	Internal capacity
DP810	40~200°C	512L
DP1030		1,000L

➡ Page 140

Vacuum Drying Oven (Compact)



DP23C/33C

Model	Temp. range	Internal capacity
DP23C	40~240°C	10L
DP33C		27L

➡ Page 141



ADP

Model	Temp. range	Internal capacity
ADP200C/210C	40~240°C	10L
ADP300C/310C		27L

➡ Page 142

Vacuum Drying Oven



DP43PC/63PC

Model	Temp. range	Internal capacity
DP43PC	40~200°C	91L
DP63PC		216L

➡ Page 143



DP610P

Model	Temp. range	Internal capacity
DP610P	40~200°C	216L

➡ Page 144

Incubator

Incubator (Natural Convection, Air Jacket)



IS□□□C

Model	Temp. range	Internal capacity
IS412C	RT +5~80°C	97L
IS612C		159L
IS812C		318L
IS912C		567L

➡ Page 147/148



IS401/601/801/901

Model	Temp. range	Internal capacity
IS401	RT +5~80°C	97L
IS601		159L
IS801		318L
IS901		567L

➡ Page 149/150

Economical Incubator (Natural Convection)



IC□□□C

Model	Temp. range	Internal capacity
IC412C	RT +5~80°C	97L
IC612C		159L
IC812C		318L
IC912C		567L

➡ Page 151/152

Economical Incubator (Natural Convection)



IC□□□C

Model	Temp. range	Internal capacity
IC103C/113C	RT +5~80°C	37L
IC403C/413C		97L
IC603C/613C		159L
IC803C/813C		318L
IC903C/913C		567L

➡ Page 153/154

Low Temperature Incubator (Programmable)



IN□□□C

Model	Temp. range	Internal capacity
IN602C	-10~+50°C	143L
IN612C		
IN802C		286L
IN812C		

➡ Page 155/156



IN604/604W/804

Model	Temp. range	Internal capacity
IN604	-10~+50°C	143L
IN604W		
IN804		286L

➡ Page 157/158

Low Temperature Incubator (Energy Saving & Programmable)



INE800

Model	Temp. range	Internal capacity
INE800	0~+60°C	286L

➡ Page 159/160

Low Temperature Incubator (Programmable, Peltier Cooling)



IJ101/101W/201/300

Model	Temp. range	Internal capacity
IJ101/101W	+5~+60°C	15.6L
IJ201		27L
IJ300		43L

➡ Page 161/162

Double Chamber Incubator (Natural Convection & Low Temp.)



INC821C

Model	Temp. range	Internal capacity
INC812C	(Upper) +4~+50°C	150L
	(Lower) +5~+80°C	143L

➡ Page 163

Double Chamber Incubator (Low Temp.)



IQ822C

Model	Temp. range	Internal capacity
IQ822C	-10~+50°C	143L×2

➡ Page 164

CO_2 Incubator



BNA600/IP600

Model	Temp. range	Internal capacity
BNA600	+5~+50°C	167L
IP600		

➡ Page 165/166

Low Temperature Incubator (Programmable, Air Jacket)



IL603

Model	Temp. range	Internal capacity
IL603	0~+50°C	159L

➡ Page 167/168

Low Temperature Incubator (Energy Saving, Programmable, Air Jacket)



ILE800

Model	Temp. range	Internal capacity
ILE800	0~+60°C	300L

➡ Page 169/170

Low Temperature Incubator (Programmable, Air Jacket)



IL612C/812C

Model	Temp. range	Internal capacity
IL612C	0~+50°C	159L
IL812C		300L

➡ Page 171

Plasma Cleaner

Plasma Reactor (Barrel Chamber)



PR200/300/301

Model	High frequency output	Reaction chamber
PR200	200W	ø100×160mm
PR300	100W×2	ø64×160mm×3
PR301	300W	ø118×160mm

➡Page 175/176



PR500/510

Model	High frequency output	Reaction chamber
PR500	500W	ø215×305mm
PR510		

➡Page 177/178

Plasma Cleaner (Parallel Electrode)



PDC200/210/510

Model	High frequency output	Reaction chamber (W×D×Hmm)
PDC200	300W	400×250×150
PDC210	500W	500×300×200
PDC510		

➡Page 179



PDC610

Model	High frequency output	Reaction chamber (W×D×Hmm)
PDC610	600W	350×270×300

➡Page 180

Plasma Cleaner (Parallel Electrode)



V1000/1000X/1000XS

Model	High frequency output	Reaction chamber (W×D×Hmm)
V1000	1,000W	400×400×380
V1000X	1,000 & 1,500W	
V1000XS		600×554×440

➡Page 181

Plasma Modifier (Barrel Chamber)



PM100

Model	Reaction chamber
PM100	I.D 100mm×L160mm

➡Page 182

Plasma Cleaner (Parallel Electrode, Compact)



PiPi

Model	High frequency output	Reaction chamber
PiPi	50~200W	230×130×130mm

➡Page 183

Water Purifier

Ion-exchange+Distillation



WG250/1000

Model	Purified water & Water quality
WG250	Deionized water: Type 1/A4
WG1000	Distilled water: Type 2/A4

➡ Page 189/190

Ion-exchange+Distillation, Large Capacity



WG511/711

Model	Purified water & Water quality
WG511	Deionized water: A4
WG711	Distilled water: A4

➡ Page 191/192



WA511/711/731

Model	Purified water & Water quality
WA511	Deionized water: A4 Distilled water: A1
WA711	
WA731	

➡ Page 193/194

Ion-exchange+Distillation



WGH200

Model	Purified water & Water quality
WGH200	Deionized water: Type 1/A4 Distilled water: Type 2/A4

➡ Page 195/196

Ion-exchange+Distillation



WG203

Model	Purified water & Water quality
WG203	Deionized water: Type 1/A4 Distilled water: Type 2/A4

➡ Page 197

Distillation



WS200/220

Model	Purified water & Water quality
WS200	Distilled water: Type 4/A1
WS220	

➡ Page 198

Ion-exchange



WL320A/320B

Model	Purified water & Water quality
WL320A	Deionized water: Type 2/A4
WL320B	

➡ Page 199/200



WL200/220/220T

Model	Purified water & Water quality
WL200	Deionized water: Type 2/A3
WL220	
WL220T	

➡ Page 201/202

RO+Ion-exchange



WE200

Model	Purified water & Water quality
WE200	Deionized water: Type 1/A4

➡ Page 203/204

Ion-exchange



WL100

Model	Purified water
WL100	Deionized water

➡ Page 205

Constant Temperature Bath

Water Bath (Precision Constant Temp.)

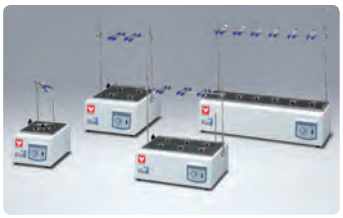


BK

Model	Temp. range	Bath capacity
BK/BA310C	RT +5~80°C	27L
BK/BA410C		42L
BK/BA510C		70L
BK/BA610C		109L
BK/BA710C		144L

➡Page 208

Water Bath (Constant Temp.)



BS

Model	Temp. range	Bath capacity
BS200	RT +5~ Water boiling point	27L
BS400		42L
BS600		70L
BS660		109L

➡Page 209

Economical Water Bath (Constant Temp.)

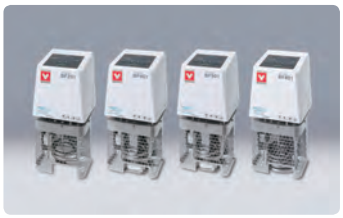


BM

Model	Temp. range	Bath capacity
BM100/110	RT +5~95°C	4L
BM200/210		7L
BM401		
BM500/510	RT +5~90°C	4L

➡Page 210

Immersion Constant Temperature Device



BF201/401/501/601

Model	Temp. range
BF201	RT +5~80°C
BF401	
BF501	
BS601	RT +5~180°C

➡Page 211/212

Water Bath (High Precision Constant Temp., Programmable)



BH401/501

Model	Temp. range	Bath capacity
BH401	RT +15~100°C	13L
BH501	RT +15~200°C	

➡Page 213/214

Oil Bath (Large Capacity)



BOA200/310

Model	Temp. range	Bath capacity
BOA200	RT +15~200°C	37L
BOA310	RT +15~270°C	

➡Page 215

Economical Oil Bath

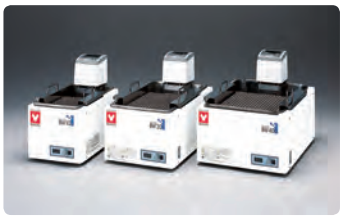


BO400/410/500/601

Model	Temp. range	Bath capacity
BO400	RT +10~180°C	4L
BO410		
BO500	RT +10~199°C	5.2L
BO601	RT +10~180°C	7L

➡Page 216

Shaking Water Bath



BW101/201/400

Model	Shaking	Bath capacity
BW101	Shaking width: 10~40 mm Shaking speed: 20~160 time/min.	12L
BW201		20L
BW400		30L

➡Page 217

Shaking Water Bath Incubator



BT100/200/300

Model	Temp. range	Bath capacity
BT100	RT +5~80°C	19L
BT200		23L
BT300		34L

➡Page 218

Water Bath (Low Constant Temp.)



BBL111C/311C

Model	Temp. range	Bath capacity
BBL111C	RT -10~+80°C	8L
BBL311C		13L

➡Page 219



BB311C/411C/611C

Model	Temp. range	Bath capacity
BB311C	-30~+80°C	6L
BB411C		13L
BB611C		26L

➡Page 221/222

Water Bath (Low Constant Temp., Large Capacity)



BL410C/810C

Model	Temp. range	Bath capacity
BL410C	-15~+70°C	36L
BL810C		80L

➡Page 220

Low Temp. Bath



BLG100/200

Model	Temp. range	Bath capacity
BLG100	-80~0°C	300mL
BLG200	-40~0°C	1,000mL

➡Page 223/224

Low Temp. Water Bath (Programmable, Peltier Cooling)



BV100

Model	Temp. range	Bath capacity
BV100	0~+80°C	6L

➡Page 225

Heating Block



HF100/200

Model	Temp. range	Bath dimensions (W×D×Hmm)
HF100	RT +5~200°C	112×112×70
HF200		222×112×70

➡Page 226

Cooling Water Circulator

Externally Closed Circulation, Water Cooling



CHW710C, CHS710C

Model	Temp. range	Pump (50/60Hz)
CHW710C	10°C~RT	Max. flow rate: 22.1/21.7L/min Max. lift: 19.0/25.0m
CHS710C		

for Water (CHW710C)
for Pure Water (CHS710C)

➡Page 230

Externally Closed Circulation



CF311C/810C

Model	Temp. range	Bath capacity
CF311C	-20°C~RT	4L
CF810C		16L

➡Page 231/232

Externally Closed Circulation, Inverter Control



CFI

Model	Temp. range	Cooling capacity
CFI701	+5~30°C	1,000W
CFI911		1,600W
CFI1111		2,700W
CFI601	-10~30°C	1,000W
CFI811		1,800W
CFI1011		2,900W

➡Page 233/234

Externally Closed Circulation, Air Cooling



CFA311C/610C

Model	Temp. range	Pump (50/60Hz)
CFA311C	-30~+80°C	Max. flow rate: 8.9/10.3L/min Max. lift: 6.6/9.0m
CFA610C		Max. flow rate: 16.4/18.3L/min Max. lift: 9.7/13m

➡Page 235/236

Externally Opened Circulation



CLS312C/411C/610C

Model	Temp. range	Pump (50/60Hz)
CLS312C	-10°C~RT	Max. flow rate: 5.4/6.2L/min Max. lift: 3.5/5.0m
CLS411C		Max. flow rate: 5.4/6.3L/min Max. lift: 3.7/5.3m
CLS610C		Max. flow rate: 6.7/7.8L/min Max. lift: 6.2/8.7L/m

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CLH312C/411C/610C

Model	Temp. range	Pump (50/60Hz)
CLH312C	-10~+80°C	Max. flow rate: 5.4/6.2L/min Max. lift: 3.5/5.0m
CLH411C	-15~+80°C	Max. flow rate: 5.4/6.3L/min Max. lift: 3.7/5.3m
CLH610C		Max. flow rate: 6.7/7.8L/min Max. lift: 6.2/8.7L/m

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Externally Opened Circulation,Peltier Cooling



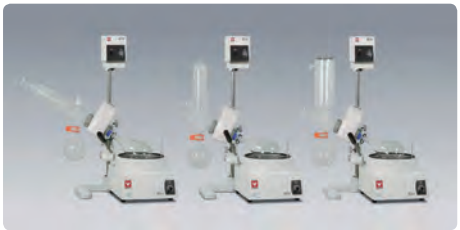
CTA402(S)/802(S)/412(S)/812(S)
CTW402(S)/802(S)/412(S)/812(S)

Model	Temp. range	Pump (50/60Hz)
CTA402/CTA412	0~+70°C	Max. flow rate: 8 L/min
CTA402S/CTA412S		
CTA802/CTA812		Max. flow rate: 11 L/min
CTA802S/CTA812S		
CTW402/CTW412	-10~+70°C	Max. flow rate: 8 L/min
CTW402S/CTW412S		
CTW802/CTW812		Max. flow rate: 11 L/min
CTW802S/CTW812S		

➡Page 241/242

Rotary Evaporator

Economical Rotary evaporator



RE201/RE211

Rotation speed	20~180 (rpm)
Lifting feature	Manual lifting
Temperature range	Water Bath: RT +5~95°C

➡Page 247/248

Rotary evaporator



RE301

Rotation speed	20~250 (rpm)
Lifting feature	Motorized lifting
Lift stroke	130mm
Temperature range	Water Bath: RT +5~90°C Oil Bath: RT +10~180°C

➡Page 249/250

High Performance Rotary evaporator



RE601/RE801

Rotation speed	20~250 (rpm)
Lifting feature	Motorized lifting
Lift stroke	130mm
Temperature range	Water Bath: RT +5~90°C Oil Bath: RT +10~180°C

➡Page 251/252/253

Cold Trap, Immersion Cooler, Freeze Dryer

Cold Trap



CA301/801

Model	Max. low temperature	Dehumidifying capacity
CA301	-45°C	Max. 0.9kg (Water type liquid)
CA801	-85°C	Max. 1.0kg (Water type liquid)

➡ Page 257

Immersion Cooler



BE201/201F/301

Model	Temp. range	Cooling capacity
BE201	-20~+35°C	190W
BE201F		
BE301		350W

➡ Page 258

Freeze Dryer



DC401/801

Model	Trap cooling temp.	Internal capacity	Dehumidify amount
DC401	-45°C	4L	0.6L
DC801	-85°C		1.0L

➡ Page 259/260

Stirrer, Shaker & Hot Plate

Ultrasonic Homogenizer



LUH150/300

Model	Maximum output	Oscillation frequency
LUH150	50W	20 kHz ±0.5 kHz
LUH300	300W	

➡ Page 263/264

Laboratory Flask Mixer



LM100/110/200210

Model	Operating speed range	Max. torque
LM100/110	50~1000rpm	0.1N•m
LM200/210		

➡ Page 265/266

Magnetic Stirrer



MA300A/300B, M-21

Model	Revolution	Stirring capacity
MA300A	100~1,200rpm	50~3,000ml
MA300B		50~1,000ml
M-21	200~2,500rpm	

➡ Page 267



MA100/300, MG120/600

Model	Revolution	Stirring capacity
MA100	100~1,500rpm	50~1,000ml
MA300	400~1,550rpm	50~3,000ml
MG120	100~1,500rpm	5~1,500ml ×12pcs.
MG600	200~1,500rpm	50~2,000ml ×6pcs.

➡ Page 268

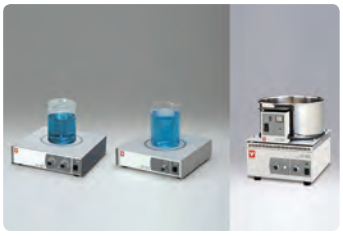
Magnetic Stirrer



MD200/300/500/800, MS500D

Model	Revolution	Stirring capacity
MD200	80~1,500rpm	50~2,000ml
MD300	100~1,500rpm	50~3,000ml
MD500	70~1,300rpm	50~5,000ml
MD800	50~1,400rpm	50~
MS500D	10~1,400rpm	10,000ml

➡ Page 269



MC801, MF820, MB800

Model	Revolution	Stirring capacity
MC801	80~1,800rpm	100~10,000ml
MF820	80~1,500rpm	100~20,000ml
MB800	70~1,200rpm	100~10,000ml

➡ Page 270

Magnetic Stirrer with Hot Plate



MH301/520/800, MG600H

Model	Revolution	Stirring capacity
MH301	400~1,500rpm	100~3,000ml
MH520	150~1,150rpm 150~1,300rpm	50~5,000ml
MH800	100~1,400rpm	200~10,000ml
MG600H	300~1,500rpm	100~2,000ml ×6pcs.

➡ Page 271

Hot Plate, Touch Mixer



HK200/300, HM300/-11, MT-31/-51

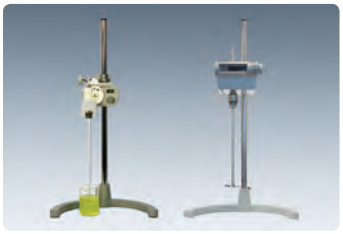
Model	Temp. range
HK200	50~250°C
HK300	
HM300	RT.+5~80°C
HM-11	50~200°C

Model	Revolution
MT-31	2,800rpm(50Hz) 3,300rpm(50Hz)
MT-51	600~3,000rpm

➡ Page 272

Stirrers, Shakers

Laboratory Stirrer



LT・LR

Model	Speed range
LT400A	10~300rpm
LT400B	15~600rpm
LT400C	25~1,200rpm
LT400D	60~3,000rpm
LT500A	60~3,000rpm
LT500B	25~1,200rpm
LR500A	34~340rpm
LR500B	100~1,000rpm

➡ Page 273/274

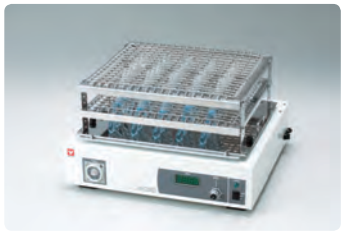
Laboratory Shaker (Horizontal Shaking)



MK161

Model	Shaking range	Shaking frequency
MK161	Rotary: 30mm Reciprocate: 30mm	20~200rpm

➡ Page 275



MK201D

Model	Shaking range	Shaking frequency
MK201D	Rotary: 30mm Reciprocate: 30mm	20~200rpm

➡ Page 276

Laboratory Shaker



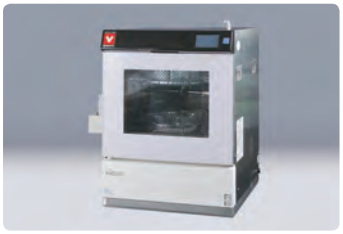
SA300/320/400

Model	Shaking speed	
	horizontal	vertical
SA300	10~300rpm	10~300rpm
SA320	20~210 rpm	20~210 rpm
SA400	None	10~300rpm

➡ Page 277/278

Laboratory Washer

Process Monitorable



AWD510/510DRY

Model	Internal dimensions
AWD510	W500×D480×H480mm
AWD510DRY	

➡ Page 281/282

Fully-automatic, Large Capacity



AW83

Model	Internal dimensions
AW83	W600×D630×H1,080mm

➡ Page 283/284

Fully-automatic, Compact



AW62

Model	Internal dimensions
AW62	W594×D572×H564mm

➡ Page 285

Semi-automatic, Compact



AW47

Model	Internal dimensions
AW47	W420×D450×H570mm

➡ Page 286

Ultrasonic Pipet Washer



AW31

Model	Rack dimensions
AW31	I.D. φ138×H540mm

➡ Page 287

Fume Hood

Standard

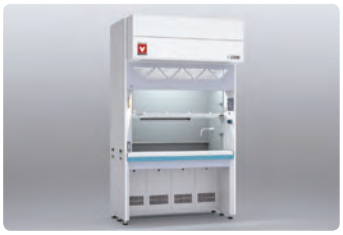


LDS

Model	Exhaust air volume	Internal static pressure
LDS-120	12m³/min	30Pa
LDS-150	16m³/min	59Pa
LDS-180	19m³/min	79Pa

➡Page 295/296

Air Curtain



LDS-A

Model	Exhaust air volume	Air intake volume
LDS-120A	12m³/min	8.4m³/min
LDS-150A	16m³/min	11.2m³/min
LDS-180A	19m³/min	13.3m³/min

➡Page 295/296

Benchtop



LDS-T

Model	Exhaust air volume	Internal static pressure
LDS-120T	12m³/min	30Pa
LDS-150T	16m³/min	59Pa
LDS-180T	19m³/min	79Pa

➡Page 295/296

Low Height



LDS-J

Model	Exhaust air volume	Internal static pressure
LDS-120J	10m³/min	25Pa
LDS-150J	13m³/min	39Pa
LDS-180J	16m³/min	59Pa

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Energy Saving Structure



LDN

Model	Exhaust air volume	Internal static pressure
LDN-120	7/11m³/min	10/22Pa
LDN-150	9/14m³/min	14/34Pa
LDN-180	11/17m³/min	23/55Pa

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with Exhaust Volume Controller



LDX

Model	Exhaust air volume	Internal static pressure
LDX-120	5~24m³/min	128Pa
LDX-150	6~31m³/min	196Pa
LDX-180	8~38m³/min	280Pa

➡Page 298

with Exhaust Volume Controller and Slide Sash

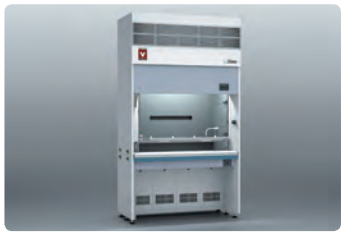


LDY

Model	Exhaust air volume	Internal static pressure
LDY-120	5~13m³/min	36Pa
LDY-150	6~17m³/min	58Pa
LDY-180	8~22m³/min	83Pa

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with Exhaust Volume Controller for Air Intake and Exhaust



LDXA

Model	Exhaust air volume	Air intake volume
LDXA-120	6~20m³/min	6~20m³/min
LDXA-150		
LDXA-180		

➡Page 300

High Interior Ceiling



LDG

Model	Exhaust air volume	Internal static pressure
LDG-120	14m³/min	59Pa
LDG-150	18m³/min	98Pa
LDG-180	23m³/min	167Pa

➡Page 301

Low Working Top



LDT

Model	Exhaust air volume	Internal static pressure
LDT-120	19m³/min	118Pa
LDT-150	25m³/min	197Pa
LDT-180	31m³/min	148Pa

➡Page 302

Wet Scrubber Built-in



LDB

Model	Exhaust air volume	Internal static pressure
LDB-120	12m³/min	491Pa
LDB-150	16m³/min	687Pa
LDB-180	19m³/min	785Pa

➡Page 303



LDC1

Model	Exhaust air volume	Internal static pressure
LDC1-120	12m³/min	170Pa
LDC1-150	16m³/min	210Pa
LDC1-180	19m³/min	290Pa

➡Page 304

Wet Scrubber Built-in

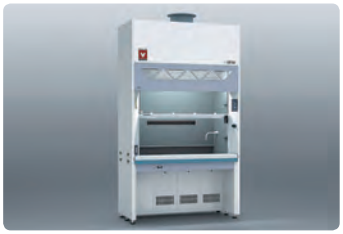


LDC2

Model	Exhaust air volume	Internal static pressure
LDC2-120	12m³/min	196Pa
LDC2-150	16m³/min	343Pa
LDC2-180	19m³/min	490Pa

➡Page 305

Dry Scrubber Built-in

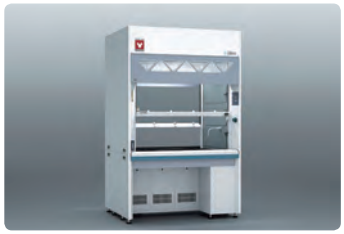


LDF

Model	Exhaust air volume	Internal static pressure
LDF-120	12m³/min	216Pa
LDF-150	16m³/min	245Pa
LDF-180	19m³/min	275Pa

➡Page 306

Double-faced



LDD

Model	Exhaust air volume	Internal static pressure
LDD-120	20m³/min	79Pa
LDD-150	24m³/min	109Pa
LDD-180	27m³/min	137Pa

➡Page 307

Perchloric Acid-resistant



LDP

Model	Exhaust air volume	Internal static pressure
LDP-120	24m³/min	108Pa
LDP-150	30m³/min	88Pa
LDP-180	37m³/min	127Pa

➡Page 308

Fume Hood, Enclosure

for Low Level RI



LDL

Model	Exhaust air volume	Internal static pressure
LDL-120	24m³/min	109Pa
LDL-150	30m³/min	88Pa
LDL-180	37m³/min	127Pa

➡ Page 309

for Medium Level RI



LDM

Model	Exhaust air volume	Internal static pressure
LDM-120	21m³/min	118Pa
LDM-150	28m³/min	148Pa
LDM-180	34m³/min	157Pa

➡ Page 310

Walk-in



LDW

Model	Exhaust air volume	Internal static pressure
LDW-120	21m³/min	88Pa
LDW-150	27m³/min	137Pa
LDW-180	34m³/min	118Pa

➡ Page 311

Powder Containment



LDH

Model	Exhaust air volume	Internal static pressure
LDH-150	17m³/min	500Pa
LDH-180	21m³/min	

➡ Page 312

Compact Fume Hood/Benchtop

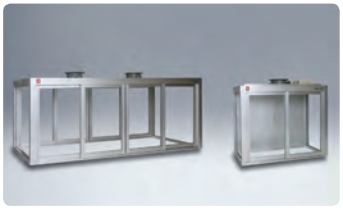


MS, MV

Model	Interior	Exhaust air volume
MS-90C/90TC	Stainless steel	7m³/min
MV-90C/90TC	Hard polyethylene	

➡ Page 313

Aluminum Frame, Benchtop



FHJ2-N/FHJ3-N

Model	Air volume
FHJ2-N180	14m³/min
FHJ2-N240	19m³/min
FHJ2-N300	23m³/min
FHJ2-N360	28m³/min

Model	Air volume
FHJ3-N120	5m³/min
FHJ3-N150	11m³/min
FHJ3-N180	15m³/min

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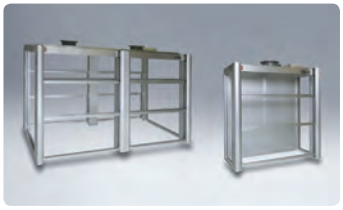


FHJ5-N/FHJ6-N

Model	Air volume
FHJ5-N120	14m³/min
FHJ5-N150	19m³/min
FHJ5-N180	23m³/min
FHJ5-N240	28m³/min
FHJ5-N300	37m³/min
FHJ5-N360	45m³/min

Model	Air volume
FHJ6-N120	13m³/min
FHJ6-N150	17m³/min
FHJ6-N180	20m³/min

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FHJ7-N/FHJ8-N

Model	Air volume
FHJ7-N120	17m³/min
FHJ7-N150	22m³/min
FHJ7-N180	27m³/min
FHJ7-N240S	37m³/min
FHJ7-N300S	47m³/min
FHJ7-N240D	33m³/min
FHJ7-N300D	43m³/min
FHJ7-N360D	53m³/min

Model	Air volume
FHJ8-N120	15m³/min
FHJ8-N150	20m³/min
FHJ8-N180	24m³/min
FHJ8-N240S	33m³/min
FHJ8-N300S	42m³/min
FHJ8-N240D	30m³/min
FHJ8-N300D	39m³/min
FHJ8-N360D	48m³/min

➡ Page 316

Chemical Etching, All PVC Structure



FHV

Model	Exhaust air volume	Internal static pressure
FHV-120	10m³/min	50Pa
FHV-150	13m³/min	59Pa
FHV-180	15m³/min	40Pa

➡ Page 317

Chemical Etching, PVC Exterior



CYV/CYV2

Model	Exhaust air volume	Internal static pressure
CYV-180V CYV2-180V	21m³/min	70Pa
CYV-210V CYV2-210V	24m³/min	40Pa

➡ Page 318

PVC Exterior, Clean Class 100



CYF

Model	Exhaust air volume	Air intake volume
CYF-120	29m³/min	22m³/min
CYF-160	36m³/min	28m³/min
CYF-200	43m³/min	33m³/min

➡ Page 319

Steel Exterior, Clean Class 100



CYG

Model	Exhaust air volume	Air intake volume
CYG-120	16m³/min	12m³/min
CYG-150	21m³/min	16m³/min
CYG-180	26m³/min	20m³/min

➡ Page 320

Powder Weighing Enclosure



ST1

Model	Dimension (W×D×H)
ST1-900	888×776×626mm
ST1-1200	1,188×776×626mm
ST1-1500	1,488×776×626mm

➡ Page 321

Bulk Powder Enclosure



ST1-BP

Model	Dimension (W×D×H)
ST1-1200BP	1,200×1,090×1,647mm
ST1-1500BP	1,500×1,090×1,647mm
ST1-1800BP	1,800×1,090×1,647mm

➡ Page 322

Nano Enclosure



NE1・NE2

Model	Dimension (W×D×H)
NE1-900	900×750×910mm
NE1-1200	1,200×750×910mm
NE1-1500	1,500×750×910mm
NE2-1200	1,200×750×1,380mm
NE2-1500	1,500×750×1,380mm

➡ Page 323/324

Temperature, Humidity and Dew Point Control System



FCCZ

Model	Dimension (W×D×H)
FCCZ	1,200x850x2,285mm

➡ Page 325

Personal Hood/Desktop



Lab Bubble

	Concept
Safety Bubble	Containment
PCR Bubble	Clean
Glove Bubble	Enclosure

➡ Page 326

Scrubber

Exhaust Gas Scrubber (Wet)



CRW3

Model	Processing air volume	Internal static pressure
CRW3-12	12m³/min	196Pa
CRW3-16	16m³/min	294Pa
CRW3-19	19m³/min	343Pa
CRW3-33	33m³/min	392Pa
CRW3-42	42m³/min	
CRW3-52	52m³/min	

➡ Page 327

Exhaust Gas Scrubber (Dry)



CRF3

Model	Processing air volume	Internal static pressure
CRF3-12L	12m³/min	294Pa
CRF3-12V		
CRF3-19L	16~19 m³/min	343Pa
CRF3-19V		
CRF3-45L	28~45 m³/min	294~490Pa
CRF3-45V		

➡ Page 328

Acid Fume Scrubber



CRH

Model	Processing air volume	Internal static pressure
CRH-20S	10~20 m³/min	0.6~1.6kPa
CRH-20W		

➡ Page 329



CRB-2

Model	Processing air volume	Internal static pressure
CRB-2	1.5m³/min	5~10kPa
CRH-20W		

➡ Page 330

Clean Bench

for Biological Use, Vertical Laminar Flow



ADS-UG

Model	Air volume	Air flow direction
ADS101	13m³/min	Vertical
ADS131	18m³/min	
ADS161	22m³/min	
ADS191	27m³/min	

➡ Page 335

for Biological Use, Vertical Laminar Flow with Exhaust



ADE

Model	Air volume	Air flow direction
ADE101	12m³/min	Vertical
ADE131	16m³/min	Forced circulation exhaust
ADE161	19.5m³/min	
ADE191	23.5m³/min	

➡ Page 336

for Industrial Use, Vertical Laminar Flow



ADS

Model	Air volume	Air flow direction
ADS101	13m³/min	Vertical
ADS131	18m³/min	
ADS161	22m³/min	
ADS191	27m³/min	

➡ Page 337

for Biological Use, Horizontal Laminar Flow



AHS

Model	Air volume	Air flow direction
AHS101	16/20m³/min	Horizontal
AHS131	22/27m³/min	
AHS161	27/33m³/min	
AHS191	32/39m³/min	

➡ Page 338

Laboratory Furniture

Center Table (Steel)



LCA

Model	Feature
LCA-185T (-182T)	
LCA-245T (-242T)	
LCA-305T (-302T)	
LCA-365T (-362T)	
LCA2-185T(-182T)	With drawer
LCA2-245T(-242T)	
LCA2-305T(-302T)	
LCA2-365T(-362T)	
LCA3-185T(-182T)	With drawer and cart unit
LCA3-245T(-242T)	
LCA3-305T(-302T)	
LCA3-365T(-362T)	

➡ Page 343



LCB

Model	Feature
LCB-185T (-182T)	
LCB-245T (-242T)	
LCB-305T (-302T)	
LCB-365T (-362T)	
LCB2-185T(-182T)	With drawer
LCB2-245T(-242T)	
LCB2-305T(-302T)	
LCB2-365T(-362T)	
LCB3-185T(-182T)	With drawer and cart unit
LCB3-245T(-242T)	
LCB3-305T(-302T)	
LCB3-365T(-362T)	

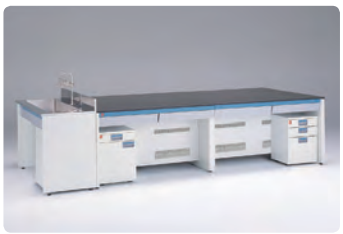
➡ Page 343



LCC

Model	Feature
LCC-185T (-182T)	
LCC-245T (-242T)	
LCC-305T (-302T)	
LCC-365T (-362T)	
LCC2-185T(-182T)	With drawer
LCC2-245T(-242T)	
LCC2-305T(-302T)	
LCC2-365T(-362T)	
LCC3-185T(-182T)	With drawer and cart unit
LCC3-245T(-242T)	
LCC3-305T(-302T)	
LCC3-365T(-362T)	

➡ Page 344



LFD

Model	Feature
LCD-245T (-242T)	
LCD-305T (-302T)	
LCD-365T (-362T)	
LCD2-245T(-242T)	With drawer
LCD2-305T(-302T)	
LCD2-365T(-362T)	
LCD3-245T(-242T)	With drawer and cart unit
LCD3-305T(-302T)	
LCD3-365T(-362T)	

➡ Page 344

Laboratory Furniture

Center Table (Steel)



LCE

Model	Feature
LCE-245T (-245T)	
LCE-305T (-305T)	
LCE-365T (-365T)	
LCE2-245T(-245T)	With drawer
LCE2-305T(-305T)	
LCE2-365T(-365T)	
LCE3-245T(-245T)	With drawer and cart unit
LCE3-305T(-305T)	
LCE3-365T(-365T)	

➡ Page 345



LCF

Model	Feature
LCF-245T (-242T)	
LCF-305T (-302T)	
LCF-365T (-362T)	
LCF2-245T(-242T)	With drawer
LCF2-305T(-302T)	
LCF2-365T(-362T)	
LCF3-245T(-242T)	With drawer and cart unit
LCF3-305T(-302T)	
LCF3-365T(-362T)	

➡ Page 345

Side Table (Steel)



LFA

Model	Feature
LFA-97T	
LFA-127T	
LFA-157T	
LFA-187T	
LFA-247T	
LFA-307T	
LFA2-97T	With drawer
LFA2-127T	
LFA2-157T	
LFA2-187T	
LFA2-247T	
LFA2-307T	

Model	Feature
LFA3-97T	With drawer and cart unit
LFA3-127T	
LFA3-157T	
LFA3-187T	
LFA3-247T	
LFA3-307T	

➡ Page 346



LFB

Model	Feature
LFB-97T	
LFB-127T	
LFB-157T	
LFB-187T	
LFB-247T	
LFB-307T	
LFB2-97T	With drawer
LFB2-127T	
LFB2-157T	
LFB2-187T	
LFB2-247T	
LFB2-307T	

Model	Feature
LFB3-97T	With drawer and cart unit
LFB3-127T	
LFB3-157T	
LFB3-187T	
LFB3-247T	
LFB3-307T	

➡ Page 346

Side Table (Steel)



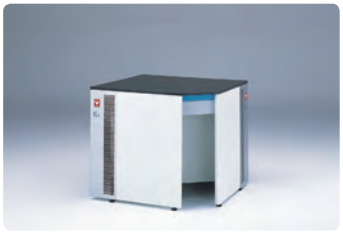
LFC

Model	Feature
LFC-97T	
LFC-127T	
LFC-157T	
LFC-187T	
LFC-247T	
LFC-307T	
LFC2-97T	With drawer
LFC2-127T	
LFC2-157T	
LFC2-187T	
LFC2-247T	
LFC2-307T	

Model	Feature
LFC3-97T	With drawer and cart unit
LFC3-127T	
LFC3-157T	
LFC3-187T	
LFC3-247T	
LFC3-307T	

➡ Page 347

Corner Table (Steel)



LFP

Model	
LFP-97T	

➡ Page 347

Shelf for Laboratory Table (Steel)



LRA, LRB, LRC, LRD

Model	Remarks
LRA-93	For center laboratory table
LRA-123	
LRA-153	
LRB-94	Set up with LUA, fluorescent lamp for center laboratory table
LRB-124	
LRB-154	
LRC-92	For side laboratory tables
LRC-122	
LRC-152	
LRD-92	Set up with LUD, fluorescent lamp for center laboratory table
LRD-122	
LRD-152	

➡ Page 348



LUA, LUC, LUD

Model	Remarks
LUA-93	For center laboratory table with a box for plumbing
LUA-123	
LUA-153	
LUC-92	For center laboratory table (right) with a box for plumbing
LUC-122	
LUC-152	
LUD-92	For center laboratory table (left) with a box for plumbing
LUD-122	
LUD-152	

➡ Page 348

Sink (Steel)



LSA

Model	
LSA-67	One-compartment sink
LSA-97	
LSA-127	
LSA-157	
LSA-187	

➡ Page 349



LSB

Model	Feature
LSB-127	Two-compartment sink
LSB-157	
LSB-187	

➡ Page 349



LSC

Model	Feature
LSC-127	One-compartment sink with drainboard
LSC-157	
LSC-187	

➡ Page 349



LSD

Model	Feature
LSD-126	One-compartment sink Depth: 600mm
LSD-156	

➡ Page 350

Laboratory Furniture

Sink (Steel)



LSE

Model	Feature
LSE-127	Top surface: Trespa One-compartment sink
LSE-157	
LSE-187	

➡ Page 350

Balance Table (Steel)



LBA

Model	Feature
LBA-96	Top board: Stone (terrazzo) 50mm
LBA-126	
LBA-186	

➡ Page 351



LBB

Model	Feature
LBB-96	Top board: Stone (terrazzo) 50mm
LBB-126	
LBB-186	

➡ Page 351



LBC

Model	
LBC-96	Top board:Melamine Vibration proof
LBC-126	
LBC-186	

➡ Page 351

Storage Cabinet (Steel)



LSE

Model	Dimensions
SU-1C	W450×D400×H600mm
SU-2C	
SU-3C	
SU-4C	
SU-5C	

➡ Page 351

Chemical Storage Shelf/Cabinet (Steel)



LLA

Model	Feature
LLA-94	Upper unit: Glass door Lower unit: Hinge door
LLA-124	
LLA-154	
LLA-184	

➡ Page 352



LLB

Model	Feature
LLB-94	Upper unit: Glass door Lower unit: Drawer and hinge door
LLB-124	
LLB-154	
LLB-184	

➡ Page 352

Industrial Equipment

Chiller (Large Capacity)



C1-001

Temp. range	Circulating capacity
4~22℃	Max. flow: 24L/min Max. lift: 30m

➡ Page 355

Chiller (Large Capacity, for Narrow Space)



C1-002

Temp. range	Circulating capacity
4~10℃	Max. flow: 24L/min Max. lift: 30m

➡ Page 355

Multi-Chamber Oven



C1-003

Temp. range	Internal dimension
40~260℃	W450×D520×H300mm

➡ Page 356

Clean Inert Oven



C1-004

Temp. range	Internal dimension
RT+30~360℃	W660×D660×H500mm

➡ Page 356

Double Entry Oven



C1-005

Temp. range	Internal dimension
RT+20~180℃	W1,000×D1,850×H2,150mm

➡ Page 357

Stackable Oven



C1-006

Temp. range	Internal dimension
RT+10~260℃	W700×D500×H500mm

➡ Page 357

Conveyor Oven (Fully Automatic)



C1-007

Temp. range	Conveyor length	Inlet and outlet dimension
RT+20~80℃	600mm	W400×H65mm

➡ Page 358



C1-008

Temp. range	Conveyor length	Inlet and outlet dimension
RT+20~120℃	3,000mm	W800×H215mm

➡ Page 358

Industrial Equipment

Modular Vacuum Oven



C2-001

Temp. range	Internal dimension
RT+30~250℃	W600×D600×H600mm

➡ Page 359

2-Chamber Vacuum Oven (Far-infrared Heating)



C2-002

Temp. range	Internal dimension
RT+10~200℃	W700×D1,250×H700mm

➡ Page 359

2-Chamber Vacuum Oven (Automatic Control)



C2-003

Temp. range	Internal dimension
40~200℃	W450×D450×H450mm W600×D600×H600mm

➡ Page 360

Vacuum Oven (Fully Automatic Programmable Control)



C2-004

Temp. range	Internal dimension
40~200℃ 40~200℃ 40~200℃	4 type: W450×D450×H450mm 6 type: W600×D600×H600mm

➡ Page 360

Autoclave (Industrial Use, Large Capacity)



YYK

Model	Temp. range	Internal dimension
YKK500	RT+10~70℃	ϕ500×850Lmm
YKK750		ϕ750×1,100Lmm
YKK800		ϕ800×1,100Lmm
YKK900		ϕ900×1,300Lmm

➡ Page 361

LCD Aging Chamber (Drawer)



C3-001

Temp. range	LCD size
50~60℃	Less than 45 inch

➡ Page 362

LCD Aging Chamber (Insertion Slot)



C3-002

Temp. range	LCD size
50~60℃	32~50 inch

➡ Page 362

Clean Oven (Class 1000)



C3-003

Temp. range	Internal dimension
RT+10~260℃	W600×D500×H1,000mm

➡ Page 363

Clean Oven (Class 100)



C3-004

Temp. range	Internal dimension W×D×Hmm
RT+10~150℃	500×450×1,050

➡ Page 363

Vacuum Inert Oven (with Humidity Monitoring System)



C4-001

Temp. range	Internal dimension W×D×Hmm
40~240℃	300×300×300

➡ Page 364

Forced Convection Oven (with Oxygen & Humidity Monitor)



C4-002

Temp. range	Internal dimension W×D×Hmm
RT+10~150℃	800×600×1,265

➡ Page 364

Forced Convection Oven (Cart)



C4-003

Temp. range	Internal dimension W×D×Hmm
RT+20~120℃	700×700×1,200

➡ Page 365



C4-004

Temp. range	Internal dimension W×D×Hmm
RT+20~150℃	820×820×1,370

➡ Page 365

Burn-in Testing Chamber



C4-005

Temp. range	Internal dimension
RT+10~260℃	W600×D500×H1,000mm

➡ Page 366



C4-006

Temp. range	Internal dimension
RT+10~100℃	Each temp. zone W710×D460×H140mm

➡ Page 366

Coating Machine



C4-007

Temp. range	Conveyor
80~100℃	Stainless steel Speed: 300~600mm/min

➡ Page 367

Walk-in Drying Chamber



C4-008

Temp. range	Internal dimension
RT+10~100℃	W3,500×D3,500×H3,000mm

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