

SINCE 1889



Yamato Scientific

America

2024

YAMATO PRODUCT DIGEST



BATHS

Water Baths



BM SERIES	Temperature range	Internal capacity
BM100/110	RT +5~95°C	4L
BM401		7L



BM SERIES	Temperature range	Internal capacity
BM302A/312A	RT +10~90°C	5L

Oil Baths



BO SERIES	Temperature range	Bath capacity
BO302A/312A	RT +10~180°C	5L



BO SERIES	Temperature range	Bath capacity
BO400/410	RT +10~180°C	4L



BO SERIES	Temperature range	Bath capacity
BO500 in combination with MB800 stirrer	RT +5~199°C	5.2L



BO SERIES	Temperature range	Bath capacity
BO601	RT +5~180°C	7L

BATHS

Oil Bath



BOA SERIES	Temperature range	Bath capacity
BOA201	RT +10~200°C	37L
BOA311	RT +10~270°C	

COLD TRAPS



CA SERIES	Max. low temperature	Internal capacity
CA301	-45°C	4L (liquid 3L)

CUSTOMIZED INDUSTRIAL PRODUCTS

Combination Forced Convection Oven



C1-006	Temperature range	Internal dimensions
	RT +10~260°C	W700xD500x500mm (single)
Platform stands to combine units / Customized chamber dimensions		

Large Walk-in Forced Convection Oven



C4-008	Temperature range	Internal dimensions
	RT +10~100°C	W3500xD3500x3000mm
Double door structure / Anti-lock mechanism		

Fully Automatic Conveyor Drying Oven



C1-007	Temperature range	Conveyor speed
	RT +20~80°C	0.035 - 0.35 m/min
Adjustable conveyor speed capable of multiple treatment processes		

Large Capacity Low Temperature Chamber



YY-711	Temperature range	Internal capacity
	-20~50°C	800L
Size can be specified according to needs		

CUSTOMIZED INDUSTRIAL

Large Autoclave



YYK SERIES	Operating temp. range	Internal dimension
YYK500	RT +10~70°C	ø500mm x 850Lmm
YYK750		ø750mm x 1100Lmm
YYK800		ø800mm x 1100Lmm
YYK900		ø900mm x1300Lmm
Customized chamber dimension		

FREEZE DRYER



DC SERIES	Max. low temperature	Dehumidify amount
DC401	-45°C	0.6L

FREEZERS

Ultra Low Temperature Freezers - Chest Style

ULF SERIES	Temperature Range	Capacity
ULF001C	-40°C ~ -85°C	2ft³ / 56L
ULF101C		3ft³ / 83L
ULF201C		5ft³ / 142L
ULF301C		9ft³ / 255L
ULF401C		12ft³ / 340L
ULF501C		14ft³ / 400L
ULF601C	-40°C ~ -80°C	17ft³ / 480L
ULF701C		21ft³ / 594L
ULF801C		22ft³ / 626L
ULF901C		27ft³ / 766L



ULF001C



ULF401C



ULF901C

FREEZERS

Ultra Low Temperature Freezers - Upright Style

ULF SERIES	Temperature Range	Capacity
ULF401U	-40°C ~ -85°C	13ft³ / 370L
ULF501U		18ft³ / 505L
ULF601U		22ft³ / 626L
ULF701U		25ft³ / 710L
ULF801U	-40°C ~ -80°C	28ft³ / 792L
ULF901U		31ft³ / 877L



ULF401U



ULF501U



ULF701U



ULF901U

FREEZERS

Ultra Low Temperature Freezers - Undercounter

ULF SERIES	Temperature Range	Capacity
ULF001UN	-40°C ~ 85°C	.25ft³ / 7L
ULF101UN		2ft³ / 54L
ULF201UN		3ft³ / 94L



ULF001UN



ULF101UN



ULF201UN

FREEZERS

Low Temperature Freezers - Chest Style

LTF SERIES	Temperature Range	Capacity
LTF001C	0°C ~ -40°C	2ft³ / 56L
LTF101C		3ft³ / 83L
LTF201C		5ft³ / 142L
LTF301C		9ft³ / 255L
LTF401C		12ft³ / 340L
LTF501C		14ft³ / 400L
LTF601C		17ft³ / 480L
LTF701C		21ft³ / 595L
LTF801C		22ft³ / 626L
LTF901C		27ft³ / 766L



LTF001C



LTF101C



LTF301C



LTF401C



LTF601C



ULF901C

FREEZERS

Low Temperature Freezers - Upright Style

LTF SERIES	Temperature Range	Capacity
LTF401U	0°C ~ -40°C	13 ft ³ / 370L
LTF501U		18 ft ³ / 505L
LTF601U		22 ft ³ / 626L
LTF701U		25 ft ³ / 710L
LTF901U		28 ft ³ / 792L



LTF401U



LTF501U



LTF701U



LTF901U

FREEZERS

Laboratory Freezers - Undercounter

UCF SERIES	Temperature Range	Capacity
UCF000	-20°C	1.5ft³ / 42L
UCF001	-15°C to -25°C	1.7ft³ / 48L
UCF101A	-10°C ~ -25°C	3.2ft³ / 90L
UCF101B	-20°C ~ -40°C	3.2ft³ / 90L



UCF000



UCF001



UCF101A



UCF101B

FREEZERS - PLATINUM SERIES

Platinum Series Ultra Low Temperature Freezers - Chest Style

ULF SERIES	Temperature Range	Capacity
ULF001CP	-40°C ~ -85°C	2ft³ / 56L
ULF101CP		3ft³ / 83L
ULF201CP		5ft³ / 142L
ULF301CP		9ft³ / 255L
ULF401CP		12ft³ / 340L
ULF501CP		14ft³ / 400L
ULF601CP		17ft³ / 480L
ULF701CP	-40°C ~ -80°C	21ft³ / 594L
ULF801CP	-40°C ~ -85°C	22ft³ / 626L
ULF901CP	-40°C ~ -80°C	27ft³ / 766L

Added Features of Platinum Series:

- Touch screen control
- Hi/Low alarm with email and SMS notification
- Viewable temperature graph
- Data logging downloadable via USB or FTP
- Multi-level security
- VNC remote access via PC / smart devices



ULF001CP



ULF101CP



ULF201CP



ULF401CP



ULF601CP



ULF901CP

FREEZERS - PLATINUM SERIES

Platinum Series Ultra Low Temperature Freezers - Upright Style

ULF SERIES	Temperature Range	Capacity
ULF401UP	-40°C ~ -85°C	13ft ³ / 370L
ULF501UP		18ft ³ / 505L
ULF601UP		22ft ³ / 626L
ULF701UP		25ft ³ / 710L
ULF801UP	-40°C ~ -80°C	28ft ³ / 792L
ULF901UP		31ft ³ / 877L

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- Touch screen control
- Hi/Low alarm with email and SMS notification
- Viewable temperature graph
- Data logging downloadable via USB or FTP
- Multi-level security
- VNC remote access via PC / smart devices



ULF401UP



ULF501UP



ULF701UP



ULF901UP

FREEZERS - PLATINUM SERIES

Platinum Series Low Temperature Freezers - Chest Style

LTF SERIES	Temperature Range	Capacity
LTF101CP	0°C ~ -40°C	3ft³ / 83L
LTF201CP		5ft³ / 142L
LTF301CP		9ft³ / 255L
LTF401CP		12ft³ / 340L
LTF501CP		14ft³ / 400L
LTF601CP		17ft³ / 480L
LTF701CP		21ft³ / 595L
LTF801CP		22ft³ / 626L
LTF901CP		27ft³ / 766L

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- Viewable temperature graph
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- VNC remote access via PC / smart devices



LTF101CP



LTF201CP



LTF301CP



LTF401CP



LTF601CP



LTF901CP

FREEZERS - PLATINUM SERIES

Platinum Series Low Temperature Freezers - Upright Style

LTF SERIES	Temperature Range	Capacity
LTF401UP	0°C ~ -40°C	13 ft ³ / 370L
LTF501UP		18 ft ³ / 505L
LTF601UP		22 ft ³ / 626L
LTF701UP		25 ft ³ / 710L
LTF801UP		28 ft ³ / 792L

Added Features of Platinum Series:

- Touch screen control
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- VNC remote access via PC / smart devices



LTF401UP



LTF501UP



LTF701UP



LTF801UP

GLASSWARE WASHERS



AW SERIES	Capacity	Washing water temp.
AW47	Test tube 450 pcs. (16.5 ml) Volumetric flasks 36 pcs. (100 ml)	Room Temp ~60°C



AW SERIES	Capacity	Washing water temp.
AW62	Test tube 600 pcs. (16.5 ml) Volumetric flasks 42 pcs. (100 ml)	45~85°C

GLOVE BOXES

Anaerobic Chambers



AC SERIES	Hypalon gloves	Approximate volume
AC505/515	One (1) pair	17.3 cubic ft. / 489L
AC706/716	Two (2) pairs	40.9 cubic ft. / 1157L



AC SERIES	Hypalon gloves	Approximate volume
AC505A/515A	One (1) pair	17.3 cubic ft. / 489L
	One -Touch, "Go Anaerobic" button to initiate purging sequence	

Compact Glove Boxes



SG SERIES	Width (inside dimension)	No. of gloves
SG828	28"	2
SG835	35"	2
SG848	48"	3
SG860	60"	4

INCUBATORS

Natural Convection



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



Refrigerated Incubator with window + MK161 compact shaker

IN SERIES	Temperature range	Internal capacity
IN604WMK-115V	-10~+50°C	143L
IN604WMK-220V		

Forced Convection

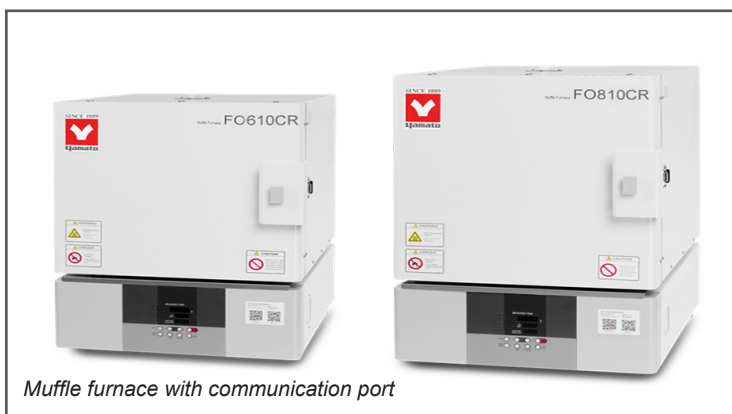


IN SERIES	Temperature range	Internal capacity
IN604	-10~+50°C	143L
IN604W		
IN804		286L
IN804W		



INE SERIES	Temperature range	Internal capacity
INE800	0~+60°C	286L

MUFFLE FURNACES



Muffle furnace with communication port



FO SERIES	Temp range	Capacity		Temp range	Capacity
FO100CR/110CR	100~1150°C	1.5L	FO510CR	100~1150°C	11.3L
FO200CR/210CR		3.75L	FO610CR		17.5L
FO300CR/310CR		7.5L	FO710CR		23.6L
FO410CR		9L	FO810CR		30L

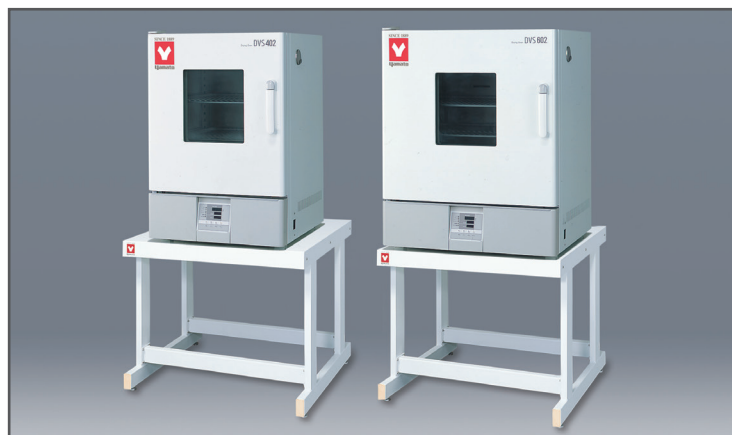
FP SERIES	Temperature range	Internal capacity
FP103	100~1150°C	1.5L
FP303/313		7.5L
FP413		11.3L

OVENS

Natural Convection Ovens



DX SERIES	Temperature range	Internal capacity
DX302C/312C	RT +5~300°C	28L
DX402C/412C		74L
DX602C/612C	RT +5~280°C	153L



DVS SERIES	Temperature range	Internal capacity
DVS402C/412C	RT +5~260°C	99L
DVS602C/612C		162L

OVENS

Natural Convection Ovens



DR SERIES	Temperature range	Internal capacity
DR201	300~700°C	13.75L



DG SERIES	Temperature range	Internal capacity
DG400C/410C	RT +5~70°C	92L
DG440C/450C		
DG800C/810C		
DG840C/850C		445L

Forced Convection Ovens



DKM SERIES	Temperature range	Internal capacity
DKL301C/311C	RT +10~260°C	27L
DKL401C/411C		90L
DKL601C/611C		150L



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

OVENS

Forced Convection Ovens



DNE SERIES	Temperature range	Internal capacity
DNE401/411	RT +20~210°C	90L
DNE601/611		150L
DNE811	RT +15~210°C	300L
DNE911		540L



DNF SERIES	Temperature range	Internal capacity
DNF301	RT +15~260°C Wind velocity 1~10	27L
DNF401/411		90L
DNF601/611		150L
DNF811		300L
DNF911		540L

Fine Ovens



DF SERIES	Temperature range	Internal capacity
DF412	RT +15~260°C	91L
DF612		216L
DF832	RT +15~200°C	512L
DF1032		1000L



DH SERIES	Temperature range	Internal capacity
DH412	RT +15~360°C	91L
DH612		216L
DH832	RT +15~300°C	512L
DH1032		1000L



DH SERIES	Temperature range	Internal capacity
DH650	RT +10~500°C	216L

OVENS

Vacuum Ovens

BESTSELLER



ADP SERIES	Temperature range	Internal capacity
ADP200C/210C	40~240°C	10L
ADP300C/310C		27L



SDP SERIES	Temperature range	Internal capacity
SDP300/310	RT +10~220°C	47.2L
SDP400/410		127.4L
SDP610	RT +15~220°C	264L

BESTSELLER



DP SERIES	Temperature range	Internal capacity
DP43C	40~200°C	91L
DP63C		216L



DP SERIES	Temperature range	Internal capacity
DP83C	40~200°C	512L
DP104C		1000L

Inert Ovens



DN SERIES	Temperature range	Internal capacity
DN411IE	RT +15~360°C	95L
DN611IE		223L

OVENS

Clean Ovens



DE/DT SERIES	Temperature range	Internal capacity
DE411	RT +30~260°C	91L
DE611		216L
DT411	RT +30~360°C	91L
DT611		216L



DES/DTS SERIES	Temperature range	Internal capacity
DES830	RT +30~260°C	327L
DTS830	RT +30~360°C	

PCR WORKSTATIONS



PCR SERIES	Features	Inside dimension
PR204/214	"Bright Light" illumination system (40,000 hour lamp guarantee) U.V. germicidal system rated at 254 nm	23.5" x 17" x 21" / 597 x 432 x 530 mm



PCR SERIES	Features	Inside dimension
PR204H/214H	"Mini HEPA" filter size 4" x 9.5" x 1" thick "Bright Light" illumination system (40,000 hour lamp guarantee) U.V. germicidal system rated at 254 nm	23.5" x 17" x 21" / 597 x 432 x 530 mm

PLASMA CLEANERS

Gas Plasma Cleaners



PR SERIES	High frequency output	Reaction chamber
PR200	200W	Pyrex glass x 1 chamber
PR300	300W (100W x 3 chambers)	Pyrex glass x 3 chambers
PR301	300W	Pyrex glass x 1 chamber



PR SERIES	High frequency output	Reaction chamber
PR500	Max. 500W	Quartz x 1 chamber
PR510		

Gas Plasma Reactors



PR SERIES	High frequency output	Reaction chamber
PR200	200W	Pyrex glass x 1 chamber
PR300	300W (100W x 3 chambers)	Pyrex glass x 3 chambers
PR301	300W	Pyrex glass x 1 chamber



PR SERIES	High frequency output	Reaction chamber
PR500	Max. 500W	Quartz x 1 chamber
PR510		

REFRIGERATORS

Undercounter and Countertop Refrigerators

UCR SERIES	Temperature Range	Capacity
UCR001	2°C ~ 8°C	2.64ft³ / 75L
UCR001G		2.64ft³ / 75L
UCR101		4.6ft³ / 130L
UCR101G		4.6ft³ / 130L



UCR001

UCR101



UCR001G

UCR101G

REFRIGERATOR / FREEZER COMBINATION

RFC SERIES	Temperature Range	Capacity
RFC501	(Refrigerator) 2°C to 8°C (Freezer) 0°C to -25°C	9.1ft³ Refrigerator 9.1ft³ Freezer
RFC1301	(Refrigerator) 2°C to 8°C (Freezer) 0°C to -25°C	24ft³ Refrigerator 24ft³ Freezer
RFC2001	(Refrigerator) 4°C / 39°F (Freezer) -20°C	46.6ft³ Refrigerator 24ft³ Freezer



RFC1301



RFC2001

ROTARY EVAPORATORS



NEW!



NEW!

**with vacuum controller*

RE SERIES	Water/Oil bath capacity	Lifting feature
RE202A/212A	5L	Slide Jack

RE SERIES	Water/Oil bath capacity	Lifting feature
REV202MA/212MA	5L	Slide Jack

SHAKERS



MK SERIES	Shaking mode	Shaking frequency
MK161	Rotary, elliptical, reciprocate	20~200 rpm



SA SERIES	Shaking speed: horizontal	Shaking speed: vertical
SA300	20~300 rpm	20~300 rpm
SA320	20~210 rpm	20~210 rpm
SA400	Not applicable	20~300 rpm

SPRAY DRYERS

Compact & Economical



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

Versatile



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

Large Capacity



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

Granulator



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

Organic Solvent Recovery Unit



GAS410	Circulation flow	Solvent recovery capacity
	0.12~0.65 m³/min	1300 mL/h or more

Organic Solvent Washing Unit



GWS410	Maximum flow	Storage tank capacity
	15L / min	35L

STERILIZERS

Steam Sterilizers



SK SERIES	Temperature range	Internal capacity
SK102C/112C	50~126°C	18L
SK201C/211C		24L
SK301C/311C		30L



SN SERIES	Temperature range	Internal capacity
SN300C/310C	45~135°C	32L
SN500C/510C		47L



SQ SERIES	Temperature range	Internal capacity
SQ500C/510C	45~135°C	50L
SQ810C		80L



SQL SERIES	Temperature range	Internal capacity
SQL1010C	45~135°C	110L

STERILIZERS

Steam Sterilizers with Dryer



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



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

Dry Sterilizers



SK SERIES	Temperature range	Internal capacity
SK401	RT +5~260°C	99L
SK601		162L
SK801/811	RT +5~210°C	300L

STIRRERS



LM SERIES	Temperature range	Speed range
LM100	5~35°C	50~1000 rpm
LM110		
LM200		
LM210		



LT / LR SERIES	Maximum speed	Viscosity of sample
LT400	1200 rpm	Low to high
LT500	1200 rpm	Medium to high
LR500A	340 rpm	Low to high
LR500B	1000 rpm	



MFD SERIES	Stirring rate
MFD800 (115V)	50~1600 rpm
MFD810 (220V)	



MFH SERIES	Stirring rate	Temp. control range (hot plate)
MFH800 (115V)	50~1600 rpm	RT +25°C to 310°C (set in 1°C increments)
MFH810 (220V)		



MH / MG SERIES	Stirring rate	Stirring capacity
MG600H	300~1500 rpm	100~2000 ml x 6

THERMAL ANALYZER



	Temperature characteristics	Electrical resistance measurement error
TE100	Resolution $\geq 0.01^{\circ}\text{C}$	$\pm 0.1\text{m}\Omega$ (70 ~ 130 Ω)

VENTED BALANCE ENCLOSURES



VBE SERIES	Features	Internal work surface
VBE204/214	* Includes top mounted HEPA / blower filtration and face velocity alarm	23.5" wide x 21" deep 597mm x 533mm
VBE306/316	* Constructed with optically clear 3/8" jeweled acrylic plastic and phenolic base	35.5" wide x 21" deep 901mm x 533mm
VBE408/418		47.5" wide x 21" deep 1206mm x 533mm
VBE600/610		59.5" wide x 21" deep 1511mm x 533mm

WATER CIRCULATORS



CB & CF SERIES	Temperature range	Bath capacity
CB100	-10 $^{\circ}\text{C}$ ~ 80 $^{\circ}\text{C}$	3.4L (liquid 2.3L)
CF303Y/CF313Y	-20 $^{\circ}\text{C}$ ~ 30 $^{\circ}\text{C}$ (no heating function)	3.9L (liquid 3.5L)
CF802A	-20 $^{\circ}\text{C}$ ~ 30 $^{\circ}\text{C}$ (no heating function)	15.5 (liquid 14L)

WATER PURIFICATION SYSTEM

Auto Pure: The Flagship Deionized Model



WA 400/200 SERIES	Purified Water/Water Quality Deionized water: Type 1	Delivery Rate 4.0 L/min
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WH SERIES	Purified Water/Water Quality Deionized water: Type 2 & 3	Delivery Rate 1.9 L/min or 4.7 L/min depending on model
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WA 300 SERIES	Purified water / Water quality Deionized water: Type 1	Delivery Rate 2.5 L/min
Available in benchtop or remote dispense configuration		



WC SERIES	Purified water / Water quality Deionized water: Type 1	Delivery Rate 2.5 L/min
Designed with ultraviolet oxidation lamp Available in benchtop or remote dispense configuration		



WB SERIES	Purified water / Water quality Deionized water: Type 1	Delivery Rate 2.0 L/min
Designed with ultrafiltration module Available in benchtop or remote dispense configuration		



WG SERIES	Purified water / Water quality Deionized water: Type 1	Delivery Rate 2.0 L/min
Designed with ultraviolet oxidation lamp and ultrafiltration module Available in benchtop or remote dispense configuration		

WATER PURIFICATION SYSTEM

Auto Still: The Distilled Water Model



WG SERIES	Purified water/Quality	Delivery Rate	Tank capacity
WG204	Deionized water: Type 1 Distilled water: Type 2	~1.0 L/min	20L



WG SERIES	Purified water/Quality	Delivery Rate	Tank capacity
WG205	Deionized water: Type 1	~1.0 L/min	20L
WG252	Deionized water: Type 1	~1.0 L/min	30L
WG1012	Distilled water: Type 2	0.5~1.0 L/min	100L

Pure Line: The Economical Deionized Model



WE SERIES	Purified water / Quality	Delivery Rate
WE200	Deionized water: Type 1	0.5~1.0 L/min