



WITH JISICO

LAB & BIO SCIENTIFIC INSTRUMENTS





CONTENTS

- 03** About JISICO
- 04** History of JISICO
- 05** Certificate of JISICO
- 06** Special products
- 08** Drying oven
- 15** Incubator
- 23** Constant temp. & humidity chamber
- 25** Water bath
- 31** Electric muffle furnace
- 32** Autoclave
- 33** Fume hood
- 34** Clean bench
- 36** Glove box
- 37** Shaker & Stirrer
- 46** Heating apparatus
- 52** Mills & Crusher
- 55** Electroanalyzer
- 56** Water distilling apparatus
- 57** Evaporator
- 58** Vacuum pump

※ Information, design and specifications are subject to change without prior notice.

ABOUT JISICO



Head Office & Factory



2nd Factory

JISICO CO., LTD. was founded as JEIL SCIENTIFIC CO. in Jun, 1967, since 1967 it has manufactured about 100 products of physical and chemical experiment apparatuses such as drying oven, constant temperature incubator, constant temperature and humidity chamber, autoclave sterilizer, glove box, etc. to supply widely to the laboratories of academic fields including domestic universities of science and engineering , industrial research institutes, national and public research agencies and the examining rooms of general hospitals which demand these products.



KOREALAB 2013 (Korea)



ARABLAB 2013 (UAE)



KOREALAB 2012 (Korea)



ARABLAB 2012 (UAE)



LAB INDONESIA 2012 (Indonesia)



KIMES 2011 (Korea)

HISTORY OF JISICO

- Jul. 2013** Certified CE mark for "Gravity convection incubator J-NIB4, J-MIC2 series"
- Oct. 2012** Certified CE mark for "Forced convection drying oven J-407 series"
- Sep. 2012** Certified CE mark for "Industrial drying oven J-IDO series"
- Aug. 2012** Certified CE mark for "Automatic Autoclave J-NAS series"
- Mar. 2012** Certified CE mark for "Temperature & humidity chamber J-RHC-LCD series, J-RHC series"
- Sep. 2011** Certified CE mark for "Automatic Autoclave J-HAS series"
- Sep. 2010** CLEAN WORKPLACE certification by Ministry of Employment and Labor, KOSHA
Korea Occupational Safety & Health Agency)
- Jul. 2010** Certified CE mark for "J-RHC-500, 1000T series, J-407 series, J-BSCV series"
- Feb. 2010** Certified ISO 14001:2004 / KS Q 14001:2004 by ACE REGISTRAR Co., Ltd.
- Feb. 2010** Certified RoHS for "CO₂ Incubator".
- Jun. 2009** Certified CE mark for "J-BAL8 Water bath, J-IWB Circulating Water Bath
- Dec. 2008** Certified CE mark for "J-IR A200 CO₂ Incubator, J-SWB19 Water bath shaker, J-JT6S Jar tester"
- May. 2008** Certified CE mark for "J-USRC Shaker, J-DTC2 Disintegration tester, J-NAS62 Autoclave".
- Jan. 2008** Certified CE mark for "J-IRW300 CO₂ Incubator, J-407S Drying Oven, J-LTB702 Cooling & circulating water bath".
- Jun. 2007** Certified CE mark for "J-300S Drying Oven, J-100S Incubator, J-IB01, IB03 BOD incubator".
- Feb. 2007** Certified CE mark for "J-MSFS Separatory funnel shaker, J-NSIL-R Shaking incubator, J-MF Vortex tube mixer".
- Nov. 2006** Cited for distinguish achievements in developing scientific machines by the Prime Minister.
- Sep. 2006** Certified CE mark for "J-DVO1 Vacuum drying oven, J-RHC1-LCD-T Constant temperature & humidity chamber, J-VSS Vibratory sieve shaker".
- Dec. 2005** Certified CE mark for "J-100M Incubator, J-IB02 BOD Incubator, J-300M Drying oven".
- Nov. 2004** Patent registration of Glass test tube shaker for extraction of sterilization by-products.
- Nov. 2003** Cited for distinguish achievements in developing scientific machines by the Minister of Commerce, Industry & Energy.
- Aug. 2002** CE mark for "Multi-purpose water bath" by the DNV.
- Dec. 2001** Company name changed to JISICO CO., LTD.
- Nov. 2001** Bulit the sub / factory at 301-80, Seongsu-dong 2-ga, Seongdong-gu, Seoul, Korea.
- Oct. 2001** Registered Patent for "Multi purpose drain cock (No. 0250673)".
- Aug. 2001** Registered Patent for "Multi Water Bath (No. 0245310)".
- Feb. 2001** Certified EM mark(Excellent Machine) by the Agency for Technology and Standards.
- Jun. 2000** Selected as a Venture's Company by the SMBA.
- May. 2000** Award for a superior mid-to-small bussiness by the Industrial Bank of Korea.
- Mar. 1999** Certified BS EN ISO 9001:1994 / KS A9001:1998.
- Dec. 1994** JEIL Research Center for Scientific Machinery set up.
- Nov. 1994** Cited for distinguished achievements in developing scientific machines by the Minister of Commerce & Industry.
- Feb. 1992** Cited by Korea Medium Ind. Cooperative for distinguished achievements.
- Dec. 1990** Inaugurated the new headquarter building at the present address.
- Nov. 1990** Citation from Korea Trade Center for distinguished records for replacing imported scientific machines with domestic products, on the occasion of the 27th memorial day of International Trade Business.
- Feb. 1990** Citation from Korea Scientific Ind. Cooperative, for distinguished industrial achievements.
- Sep. 1987** International Business Dept. set up.
- July. 1984** Company name changed to JEIL SCIENTIFIC IND. CO., LTD.
- Jun. 1967** JEIL SCIENTIFIC CO. founded.

CERTIFICATE OF JISICO



ISO14001



ISO9001



CE J-NIB4



CE J-407MCO



CE J-RHC4-LCD-T



CE J-IDO



CE J-HAS



CE J-RHC2-1000T



CE J-407SM



CE J-BSCV2



CE J-RHC1-LCD-T



CE J-BAL8



CE J-IWB



CE J-SWB19



CE J-JT6S



CE J-NAS62



CE J-USRC



CE J-DTC2



CE J-300M



RoHS: RoHS CO2 incubator



CE J-IRA200



CE J-IRW300



CE J-MSFS



CE J-LTB702



CE J-NSIL-R



CE J-MF



CE J-DV01



CE J-VSS



CE J-100 SM



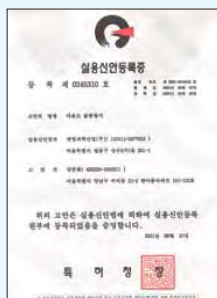
CE J-IBO



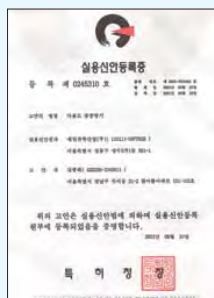
CE J-MPB2



Certificate of Excellent Quality



Utility model registration



Utility model registration

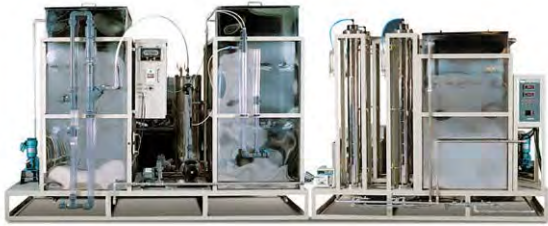


Citation by Minister of Commerce, Industry & Energy



Citation by Prime Minister

SPECIAL PRODUCTS



- Product : Intensified waste water purifier
- Model : J-HWPD



- Product : Curing water bath
- Model : J-CWB



- Product : Temp. & humidity big chamber
- Model : J-BCTH



- Product : Oil filter leak tester(Dry automatic system)
- Model : J-OLTD



- Product : SOFC, ASR Measuring Apparatus
- Model : J-SOFC 400



- Product : Dual rubber aging tester
- Model : J-NGO-2CH



- Product : Corrosion resistance tester / Salt spray tester
- Model : J-NST / J-NCT



- Product : Weather cycle tester for glass
- Model : J-WCT-LCD-T

SPECIAL PRODUCTS



- Product : SOFC stack tester
- Model : J-SFST



- Product : 4 chamber furnace
- Model : J-FM4C



- Product : Imitation equipment for waste water plant
- Model : J-IEWW



- Product : Glove box
- Model : Special type



- Product : IR conveyor oven
- Model : J-CDO-C



- Product : Giant drying oven
- Model : J-GDO



- Product : Coke kiln
- Model : J-CK



- Product : COG production measuring apparatus
- Model : J-COGM

FORCED CONVECTION DRYING OVEN

CE



PID controller

- Microprocessor PID auto-tuning controller with digital setting and display.
- Overheating is prevented by automatic shut-off circuit.
- Fan motor circulating hot air ensures uniform temperature distribution in a chamber.

Model		J-300S	J-300M
Type		Forced convection system	
Overall size(W×D×H)	mm	580×600×820	730×650×870
Chamber size(W×D×H)	mm	450×450×450	600×500×500
Capacity	ℓ	91	150
Temperature	range	Ambient+10°C ~ 260°C	
	accuracy	±0.5°C at 100.0°C	
	controller	PID controller	
	regulator	TRIAC	
Thermocouple		K type(CA)	
Heater	W	1,200	1,200
Timer		99hr 59min, or infinity	
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB	
Shelves		3ea	3ea
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	51	64
Certification		CE	

FORCED CONVECTION DRYING OVEN

New



PID controller

- Temperature is regulated by microprocessor P.I.D controller with metallic key pads, with digital setting and display.
- Overheating is prevented by automatic shut-off circuit
- One touch type door catcher allows you to open/close the door without any vibration so as not to affect the contents in the chamber.
- Safety circuit is adopted to prevent the device from over current and overheating of heater.

Model		J-300SF	J-300MF
Type		Forced convection system	
Overall size (W×D×H)	mm	580×600×820	730×650×870
Chamber size (W×D×H)	mm	450×450×450	600×500×500
Capacity	ℓ	91	150
Temperature	Range	Ambient+ 10°C ~ 260°C	
	Accuracy	± 0.5°C at 100°C	
	Controller	P.I.D controller	
	Regulator	TRIAC	
Thermocouple		K type (CA)	
Heater	W	1,200	1,200
Observation window		Reinforced glass 5T	
Timer		99hr 59min, or infinity	
Door packing		High temperature grade foamed silicon rubber	
Safety device		Self diagnosis function (Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), E.L.B(Electric Leakage Breaker)	
Shelves		3ea	3ea
Material	Interior	Stainless steel plate	
	Exterior	Steel plate with powder coated finish	
Power source		AC 230V, 50/60Hz, 1 phase	
Net Weight	Kg	51	64

FORCED CONVECTION DRYING OVEN

CE



LCD programmable controller

- Digital controller with LCD Display with Manual and Programmable function(10 step) regulates temperature precisely.
- SSR Control eliminates malfunction of relay switches, enhances uniform temperature distribution.
- Overheating is prevented by automatic shut-off circuit.

Model		J-407S	J-407M
Type		Forced convection system	
Overall size(W×D×H)	mm	1,060×625×820	1,210×775×1,020
Chamber size(W×D×H)	mm	450×450×450	600×600×600
Capacity	ℓ	91	216
Temperature	range	Ambient+10°C ~ 350°C	
	accuracy	±0.5°C at 100.0°C	
	controller	LCD programmable controller	
	regulator	SSR type	
Thermocouple		K type(CA)	
Heater	W	3,000	4,500
Insulation		Glass wool and ceramic wool	
Timer		99hr 59min. or infinity	
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB	
Shelves		3ea	3ea
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	103	140
Certification		CE	CE

※ Option : Temperature recorder.

CLEAN OVEN

CE



Option : LCD programmable controller

- SCR Control eliminates malfunction of relay switches, enhances uniform temperature distribution.
- Overheating is prevented by automatic shut-off circuit.
- High efficient dust removal is carried out by HEPA filter (99.97% efficiency on particle of 0.3 μ m).

Model		J-407SCO	J-407MCO
Type		Forced convection system	
Overall size(W×D×H)	mm	1,140×650×825	1,290×800×1,025
Chamber size(W×D×H)	mm	450×450×450	600×600×600
Capacity	ℓ	91	216
Temperature	range	Ambient+10°C ~ 200°C	
	accuracy	±0.5°C at 100°C	
	controller	PID controller	
	regulator	SCR type	
Thermocouple		K type(CA)	
Heater	W	2,000	3,000
Filter		HEPA filter (99.97% efficient on particle of 0.3 μ m)	
Timer		99hr 59min. or infinity	
Safety device		An electric leakage breaker (ELB), Overheating protection.	
Shelves		3ea	
Material	interior	Stainless steel plate	
	exterior	Stainless steel plate	
Power source		AC 230V 50/60Hz 1phase	
Net weight		125	165
Certification		CE	

※ Option : LCD programmable controller

※ Information, design and specifications are subject to change without prior notice.

GRAVITY CONVECTION DRYING OVEN



PID controller

- Microprocessor PID auto-tuning controller with digital setting and display.
- Overheating is prevented by automatic shut-off circuit.
- Easy temperature and timer setting with soft touch key pads.

Model		J-NDS1	J-NDS2
Type		Gravity convection system	
Overall size(W×D×H)	mm	580×600×820	730×650×870
Chamber size(W×D×H)	mm	450×450×450	600×500×500
Capacity	ℓ	91	150
Temperature	range	Ambient+10°C ~ 260°C	
	accuracy	±1.0°C at 100.0°C	
	controller	PID controller	
	regulator	TRIAC	
Thermocouple		K type(CA)	
Heater	W	1,200	1,800
Timer		99hr 59min. or infinity	
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB	
Shelves		3ea	3ea
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	50	63

GRAVITY CONVECTION DRYING OVEN



PID controller

- General type drying oven for glass ware.
- ELB (Electrical Leakage Breaker) installed as safety device.
- Optimized structure chamber for uniform temperature distribution.

Model		J-DECO
Type		Gravity convection system
Overall size(W×D×H)	mm	520×530×795
Chamber size(W×D×H)	mm	400×400×450
Capacity	ℓ	72
Temperature	range	Ambient+10°C ~ 180°C
	controller	PID controller
	regulator	SSR type
Thermocouple		K type (CA)
Heater(Ni-Cr)	W	1,200
Shelves		2ea
Material	interior	Stainless steel plate
	exterior	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	43.2

VACUUM DRYING OVEN

CE



- Specially designed silicon rubber packing assures air-tight vacuum condition.
- Microprocessor PID auto-tuning controller with digital setting and display.
- Overheating is prevented by automatic shut-off circuit.
- Transparent polycarbonate plate attached to observation window enhances user safety.

Model		J-DVO1	J-DVO2
Type		Indirect heating(air jacket) & decompressing	
Overall size(W×D×H) mm		730×530/570×580	830×630/670×680
Chamber size(W×D×H) mm		300×350×300	400×450×400
Capacity ℓ		31	72
Temperature	range	Ambient+10°C ~ 250°C	
	accuracy	±2.0°C at 100.0°C	
	controller	PID controller	
	regulator	SSR type	
Thermocouple		K type(CA)	
Heater(Ni-Cr) W		1,800	2,400
Vacuum range		0 ~ 760mmHg	
Vacuum loss		Less than 3.5kPa/24Hr	
Ultimate pressure degree		0 ~ 760mmHg(101.3kPa)	
Nozzle size mm		Vacuum Ø10.0, Vent Ø10.0	
Observation window		Reinforced glass 12T, Polycarbonate plate 8T	Reinforced glass 19T, Polycarbonate plate 8T
Safety device		ELB, overheating protection system	
Shelves		3ea	
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight kg		63	97
Certification		CE	-

※ Option : Vacuum pump

HIGH TEMP. DRYING OVEN



PID controller

- Air jacket system ensures precise temperature control at high temperature on uniform level throughout the chamber.
- One touch type door catcher allows you to open/close the door without vibration that may affect the contents in the chamber.
- P.I.D temperature controller operated by microprocessor regulates the temperature of chamber precisely, and auto-tuning function installed as standard for user's convenience.
- Safety circuit is adopted to prevent the device from over current and overheating of heater.

Model		J-DH1	J-DH2
Type		Gravity convection system	
Overall size(W×D×H) mm		620×600×870	770×650×920
Chamber size(W×D×H) mm		450×450×450	600×500×500
Capacity ℓ		91	150
Temperature	range	Ambient+10°C ~ 300°C	
	accuracy	±1.0°C at 100.0°C	
	controller	PID controller	
	regulator	SSR type	
Thermocouple		K type(CA)	
Heater(Ni-Cr) W		2,500	3,500
Time		99hr 59min, or infinity	
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB	
Shelves		3ea	
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight kg		62.6	82.2

※ Information, design and specifications are subject to change without prior notice.

INDUSTRIAL FORCED CONVECTION DRYING OVEN



J-ID01



J-ID02



J-ID02 type-standard shelf : 3ea



J-ID02 type-(option : carts, rack, shelf)



J-ID02 type-(option : rack, shelf)

- SCR Control eliminates malfunction of relay switches, enhances uniform temperature distribution.
- Excellent thermal efficiency and durability of heater ensured by adopting sheath heater.
- Overheating is prevented by automatic shut-off circuit, and ELB (Electric Leakage Breaker) is attached.

Model		J-ID01	J-ID02
Type		Forced convection system	
Overall size(W×D×H)	mm	1,620×1,095×1,960	2,220×1,295×2,260
Chamber size(W×D×H)	mm	900×800×1,200	1,500×1,000×1,500
Capacity	ℓ	864	2,250
Temperature	range	Ambient+10℃ ~ 250℃	
	accuracy	±1.0℃ at 100.0℃	
	controller	PID controller	
Thermocouple		K type(CA)	
Heater(sheath fin)	W	15,000	24,000
Timer & alarm		0~24hr(adjustable)	
Door style		One door	Two door
Safety device		ELB, overheating protection system	
Shelves		3ea	3ea
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 3phase	
Certification		CE	

※ Option : Cart, rack, additional shelf

※ Option : AC 380V, AC 440V products, and customized products also available

RUBBER AGING TESTER : NEW GEER OVEN



J-NGO series



J-NGO-S type



- Threefold structure ensures optimized thermal efficiency by adopting double seal system instead of double door structure.
- It can be used as drying oven by removing the rotating axis and specimen plate.
- Microprocessor PID auto-tuning controller with digital setting and display.

Model		J-NGO1	J-NGO2	J-NGO-S type
Type			Forced convection system	
Overall size(W×D×H)	mm	1,160×685×1,380/1,530	1,210×735×1,480/1,630	1,390×840×1,480/1,560
Chamber size(W×D×H)	mm	450×450×500	500×500×600	600×600×600
Capacity	ℓ	101	150	216
Temperature	range	Ambient+10°C ~ 350°C(Max.)		
	accuracy	±0.5°C at 100.0°C		
	controller	PID controller		
	regulator	SSR type		
Thermocouple		K type(CA)		
Heater(sheath)	W	3,200	4,000	4,800
Circulation fan& motor		∅180×80mm(H), 180W	∅180×80mm(H), 400W	
Speed(circle plate)	rpm	8		
Motor(circle plate)	W	25		
Air-flow velocity	m/sec	0.5		
Air-change timer		Yes		
The rate of air change		1~100/hr		
Timer		99hr 59min. or infinity		
Safety device		ELB, overheating protection system		
Shelves		3ea		
Material	interior	Stainless steel plate		
	exterior	Steel plate with powder coated finish		
Power source		AC 230V 50/60Hz 1phase		

HOT AIR MECHANICAL CONVECTION CONVEYOR OVEN



- The temperature is uniform inside the conveyor.
- With air curtain in IN-OUT direction, heat loss can be reduced as much as possible. And it has a function to refrigerate the output sample.
- The conveyor can be operated with PLC. (Option)

Model		J-RCO
Overall size(W×L×H)	mm	850×2,300×1,230/1,580
Heating zone size(W×L)	mm	500×1,500
Heating method	type	Forced hot air convection system
	heating zone	Two zone
	heater capacity kW	19
Conveyor system	speed range m/min	0,2 ~ 2,0
	belt type	Stainless chain belt type
	applicable wide size mm	500
Temperature	controller	PID controller
	temp. range	60°C ~ 200°C
	using temperature	160°C±2°C
	regulator	SCR type
Safety apparatus system		Emergency switch & lamp : 2sets NFB, photo-sensor, time melody
Heating blower system	motor Hp	1×2ea
	fan type	Sirocco type
Power source		AC 230V 50/60Hz 3phase

PARAFFIN MELTING APPARATUS



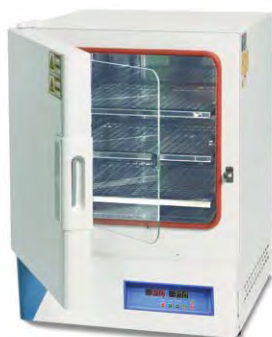
PID controller

- It's an apparatus used for melting paraffin without the danger of fire for tissue inspecting station in hospital & pathology room in medical college.
- It advances the solidification of the melted paraffin in block with stainless beaker through outdoor effluence coke of apparatus side panel without opening the door.
- It's good for reducing the melting time of paraffin by the heater installed at the bottom of chamber.

Model		J-PM01
Type		Gravity convection system
Overall size(W×D×H)	mm	580×600×820
Chamber size(W×D×H)	mm	450×450×450
Capacity	ℓ	9ℓ
Temperature	range	Ambient+10°C ~ 80°C
	using range	45°C ~ 80°C
	accuracy	±1.0°C at 60°C
	controller	PID controller
	regulator	SSR type
Time		99h 59m or infinity
Thermocouple		Pt 100 ohms
Heater(sheath)	W	400
Shelves		3ea
Safety device		ELB, overheating protection system
Material	interior	Stainless steel plate
	exterior	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase

GRAVITY CONVECTION INCUBATOR

CE



- Microprocessor PID auto-tuning controller with digital setting and display.
- Overheating is prevented by automatic shut-off circuit.
- Air jacket system ensures uniform temperature distribution in chamber, along with excellent heat insulation.

Model		J-100S	J-100M
Type		Gravity convection & air jacket system	
Environmental temp. range		5°C ~ 30°C	
Overall size(W×D×H) mm		580×600×820	730×650×870
Chamber size(W×D×H) mm		450×450×450	600×500×500
Capacity ℓ		91	150
Temperature	range	Ambient+5.0°C ~ 60.0°C	
	accuracy	±0.5°C at 37.0°C	
	controller	PID controller	
	regulator	SSR type	
Thermocouple		Pt 100 ohms	
Heater	W	200	300
Observation window		Clear safety glass inner door	
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB	
Shelves		3ea	
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	47	60
Certification		CE	

GRAVITY CONVECTION INCUBATOR

New



PID controller

- Temperature is regulated by microprocessor P.I.D controller with metallic key pads, with digital setting and display.
- Overheating is prevented by automatic shut-off circuit.
- Air jacket system ensures uniform temperature distribution throughout the chamber, along with perfect heat insulation.
- Double-door system and the inner door with tempered glass prevents the incubator from losing heat.

Model		J-100SN	J-100MN
Type		Gravity convection & air jacket system	
Environmental temp. range		5°C ~ 30°C	
Overall size (W×D×H) mm		580×600×820	730×650×870
Chamber size (W×D×H) mm		450×450×450	600×500×500
Capacity ℓ		91	150
Temperature	range	Ambient+5.0°C ~ 70.0°C	
	accuracy	±0.5°C at 37°C	
	controller	PID controller	
	regulator	SSR type	
Thermocouple		Pt 100 ohms	
Heater	W	200	300
Observation window		Safety clear glass inner door	
Safety device		Self diagnosis function (Memory error, SSR short circuit, Temperature overheating protection, Sensor short circuit), E.L.B.	
Shelves		3ea	
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source & consumption		AC 230V 50/60Hz 1Ø	
Net weight	kg	47	60

FORCED CONVECTION INCUBATOR



- Microprocessor PID auto-tuning controller with digital setting and display.
- Overheating is prevented by automatic shut-off circuit.
- Fan motor installed circulating hot air ensures uniform temperature distribution in chamber.

Model		J-100S-F	J-100M-F
Type		Forced convection system	
Environmental temp. range		5°C ~ 30°C	
Overall size(W×D×H)	mm	580×600×820	730×650×870
Chamber size(W×D×H)	mm	450×450×450	600×500×500
Capacity	ℓ	91	150
Temperature	range	Ambient+5.0°C ~ 60.0°C	
	accuracy	±0.2°C at 37.0°C	
	controller	PID controller	
	regulator	SSR type	
Thermocouple		Pt 100 ohms	
Heater	W	200	300
Observation window		Clear safety glass inner door	
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB	
Shelves		3ea	
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	47.5	61

BOD INCUBATOR

CE



- Microprocessor PID auto-tuning controller with digital setting and display.
- Special magnetic packing for temperature usage maintains top secrecy, and absorbs vibration so as not to affect contents inside chamber.
- Over temperature limiter is installed to prevent overheating and protect specimen.

Model		J-IBO1	J-IBO2	J-IBO3
Type		Forced convection system		
Environmental temp. range		5°C ~ 30°C		
Overall size(W×D×H)	mm	660×720×1,360	660×820×1,610	760×770×1,810
Chamber size(W×D×H)	mm	500×400×750	500×500×1,000	600×450×1,200
Capacity	ℓ	150	250	324
Temperature	range	5°C ~ 60°C		
	accuracy	±0.5°C at 20.0°C		
	controller	PID controller		
	regulator	SSR type		
Thermocouple		Pt 100 ohms		
Heater(Ni-Cr)	W	600	800	1,000
Circulation fan & motor		Ø100mm,13Wx2ea	Ø100mm,13Wx2ea	Ø100mm,13Wx3ea
Refrigeration compressor		Hp	1/4	1/3
Door	inner	Clear safety glass inner door		
	outer	Magnetic door closure with positive sealing gasket		
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB		
Shelves		3ea		
Material	interior	Stainless steel plate		
	exterior	Steel plate with powder coated finish		
Power source		AC 230V 50/60Hz 1phase		
Net weight	kg	65	89	-
Certification		CE		

GRAVITY CONVECTION INCUBATOR

CE



- Microprocessor PID auto-tuning controller with digital setting and display.
- Air jacket system ensures uniform temperature distribution in chamber, along with excellent thermal insulation.
- Double-door system and the inner door with tempered glass for heat loss prevention and convenient observation.

Model		J-IB2	J-IECO
Type		Gravity convection system	
Environmental temp. range		5°C ~ 30°C	
Overall size(W×D×H) mm		1,300×600×780	520×530×795
Chamber size(W×D×H) mm		900×450×500	400×400×450
Capacity ℓ		202	72
Temperature	range	Ambient+5.0°C ~ 60.0°C	
	accuracy	±0.5°C at 37.0°C	
	controller	PID controller	
	regulator	SSR type	
Thermocouple		Pt 100 ohms	
Heater(Ni-Cr) W		400	200
Door	inner	Clear safety glass inner door	
	outer	Magnetic door closure with positive sealing gasket	—
Safety device		ELB, overheating protection system	
Shelves		3ea×2	2ea
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight kg		86	44
Certification		CE	—

MULTI-CHAMBER INCUBATOR

CE



J-MIC series

- Microprocessor PID auto-tuning controller with digital setting and display.
- 4 chambers are controlled individually by each PID auto-tuning controller, and each chamber can operate at different conditions.
- Double-door system and the inner door with tempered glass for heat loss prevention and convenient observation.

Model		J-MIC1	J-MIC2	J-MICF
Type		Gravity convection system		Forced convection system
Environmental temp. range		5°C ~ 30°C		5°C ~ 40°C
Overall size(W×D×H) mm		1,300×550×1,250	1,500×600×1,550	1,640×780×1,890/1,990
Chamber size(W×D×H) mm		400×400×450×4ea		500×450×600×4ea
Capacity ℓ		288(72×4chamber)		540(135×4chamber)
Temperature	range	Ambient+5.0°C ~ 60.0°C		10.0°C ~ 60.0°C
	accuracy	±0.5°C at 37.0°C		
	controller	PID controller		
	regulator	SSR type		
Thermocouple		Pt 100 ohms		
Heater(Ni-Cr) W		1,200(300×4ea)	2,000(500×4ea)	
Circulation fan motor		NO	NO	13W×8ea
Refrigeration compressor Hp		NO	NO	1/4×4ea
Door	inner	Clear safety glass inner door		
	outer	Magnetic door closure with positive sealing gasket		
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB		
Shelves		3ea×4		
Material	interior	Stainless steel plate		
	exterior	Steel plate with powder coated finish		
Power source		AC 230V 50/60Hz 1phase		
Certification		CE	—	

CO₂ INCUBATOR

New CE



- Jisico CO₂ incubator delivers a higher level of performance and dependability for optimum growth conditions with the cutting edge technologies available for research and laboratory work adopting invitro models of invivo environments.
- CO₂ incubators are intended for tissue and cell culture applications. CO₂ Incubators allow these elements to work together to create an ambient environment for cells to thrive.
- NDIR (non dispersive infrared sensor) CO₂ gas sensor is installed to realize precise CO₂ gas regulation.
- 0.20 μ m CO₂ gas filter installed in CO₂ gas supply system and UV lamp assure perfect control for the chamber contamination.
- PID temperature controller precisely regulates CO₂ and temperature, displays in LED section.
- Digital high-limit safety switch prevents over temperature.
- High alarm function operates when temperature and CO₂ content deviates from the normal value.

Model		J-IRW300	J-IRA200
Type		Water jacket system	Air jacket system
Environmental temp. range		5°C ~ 28°C	
Overall size(W×D×H)	mm	635×625×1,000	635×625×930
Chamber size(W×D×H)	mm	440/470×420/470×700	440/470×470×660/700
Capacity	ℓ	129/154	136/154
Temperature	range	Ambient+5.0°C ~ 60.0°C	
	accuracy	±0.5°C at 37°C	
	uniformity	±1.0°C at 37°C	
	controller	PID controller	
CO ₂	range	0.0% ~ 10.0%	
	accuracy	±0.1%	
	controller	PID controller	
Thermocouple		Pt 100 ohms	
CO ₂ sensor		NDIR sensor	
Germicidal lamp(UV)	W	10 x 1ea	
Heater	W	400	650
Double door	inner	Clear safety glass inner door	
	outer	Magnetic door closure with positive sealing gasketing	
Water jacket volume	ℓ	34	-
Safety device		Self diagnosis function(memory error, temp. overheating, (alarm & protection CO ₂ overflow alarm & protection), SSR short circuit, sensor short circuit), ELB, overheating protection, water level display	
Shelves		3ea	
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	129	90
Certification		CE, RoHS(New model)	

※ Option : Gas regulator with flowmeter, analyzer, CO₂/temp. recorder.

SHAKING INCUBATOR



J-NSIO



J-SISN-R



J-NSIL-R(cooling)

- Microprocessor PID auto-tuning controller with digital setting and display.
- Over temperature protection circuit prevents overheating and protects specimen.
- By adopting feedback system, stops shaking when lid is opened, and restarts when closed.
- See-through acrylic lid and lamp enables to observe specimen in the chamber without disturbing temperature inside. (J-SISN-R, J-NSIL-R)

Model		J-NSIO	J-SISN-R	J-NSIL-R(cooling)
Shaking type		Rotation type		
Environmental temp. range		5°C ~ 28°C		
Overall size(W×D×H)	mm	320×440×345	540×615×435/460	540×680×580/600
Chamber size(W×D×H)	mm	310×365×225	500×500×300	500×500×300
Plat-form size(W×D)	mm	240×280	410×410	
Temperature	range	Ambient+10.0°C ~ 60.0°C		15.0°C ~ 60.0°C
	accuracy	±0.5°C at 37.0°C		
	controller	PID controller		
Heater(Ni-Cr)	W	300	500	700
Shaking	controller	Digital setting & display		
	speed rpm	15 ~ 350		
	capacity(load)	100mL×13ea or 250mL×8ea or 500mL×5ea(option)	250mL Erlenmeyer flask×18ea or 500mL Erlenmeyer flask×13ea(option)	
Motor (BLDC)	W	40		
Refrigeration compressor	Hp	-	-	1/8
Lid		Acryl		
Lamp		-	8W×1ea	
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB		
Material	interior	Stainless steel plate		
	exterior	Steel plate with powder coated finish		
Power source		AC 230V 50/60Hz 1phase		
Net weight	kg	23	40	57.5
Certification		-	-	CE

※ Option : Reciprocating type(J-SISN, J-NSIL)

COLD CHAMBER



J-CC2

- Microprocessor PID controller with digital setting and display.
- Fan motor installed circulating cool air ensures uniform temperature distribution in chamber.

Model		J-CC1	J-CC2
Environmental temp. range		5°C ~ 30°C	
Overall size(W×D×H)	mm	865×890×1,990	1,370×990×1,990
Chamber size(W×D×H)	mm	700×600×1,200	1,200×700×1,200
Capacity	ℓ	504	1,008
Temperature	range	0.0°C ~ 10.0°C	
	uniformity	±2°C at 4°C	
Refrigeration compressor	Hp	1/3	1/2
Safety device		ELB, overheating protection system	
Shelves		4ea	4ea×2
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	

※ Information, design and specifications are subject to change without prior notice.

SHAKING INCUBATOR



J-SCR



PID controller

- Microprocessor PID auto-tuning controller with digital setting and display.
- Over temperature protection circuit prevents overheating and protects specimen.
- See-through observation window and lamp enables to observe specimen in the chamber without disturbing inner temperature.
- By adopting feedback system, stops shaking when door is opened, and restarts when closed.

Model		J-SCR (cooling)	J-SCI
Shaking type		Rotation type	
Environmental temp. range		5°C ~ 28°C	
Overall size(W×D×H) mm		1,130×810/900×980/1,050	1,130×810/900×780/850
Chamber size(W×D×H) mm		750×710×400	
Plat-form size(W×D) mm		670×630	
Temperature	range	4.0°C ~ 60.0°C	Ambient+5.0°C ~ 60.0°C
	accuracy	±0.5°C at 37.0°C	
	controller	PID controller	
Thermocouple		Pt 100 ohms	
Heater	W	1,000	800
Shaking	controller	Digital setting & display	
	speed rpm	35 ~ 300	
	capacity(load)	250ml erlenmeyer flask×42ea or 500ml erlenmeyer flask×30ea(option)	
	motor Hp	1/16	
Refrigeration compressor	Hp	1/2	NO
Safety device		Electric leakage breaker(ELB), overheating protection system	
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	190	149

※ Option : Reciprocating type

MULTI PURPOSE SHAKING INCUBATOR



- Microprocessor PID auto-tuning controller with digital setting and display.
- Over temperature protection circuit prevents overheating and protects specimen.
- See-through observation window and lamp enables to observe specimen in the chamber without disturbing temperature inside.

Model		J-MPIL	J-MPIS
Type		Rotation type	
Environmental temp. range		5°C ~ 30°C	
Overall size(W×D×H) mm		730×740×1,500	
Chamber size(W×D×H) mm		600×500×500	
Temperature	range	4.0°C ~ 60.0°C	Ambient+5.0°C ~ 60.0°C
	accuracy	±0.5°C at 37.0°C	
	controller	PID controller	
	regulator	SSR type	
Thermocouple		Pt 100 ohms	
Refrigeration compressor	Hp	1/3	No
Heater(sheath)	W	800	1,200
shaking	controller	Dial knob/Digital display	
	speed rpm	35~250	35~250
	capacity(Load)	250ml Erlenmeyer flask×25ea or 500ml Erlenmeyer flask×16ea (option)	
	motor Hp	1/16	
Light lamp		100W×1ea	100W×1ea
Safety device		ELB, overheating protection system	
Shelves		2ea	
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	

※ Option : Reciprocating type.

INSPISSATOR



- Microprocessor PID auto-tuning controller with digital setting and display.
- Over temperature protection circuit prevents overheating and protects specimen.
- Inner door with tempered glass prevents heat loss and provides convenient observation of the chamber.
- Five angle-adjustable shelves are installed.

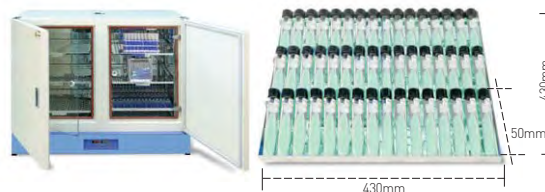
Model		J-IWL
Overall size(W×D×H)	mm	800 X 720 X 1,750
Chamber size(W×D×H)	mm	450×500×750
Capacity	ℓ	169
Temperature	range	95°C(Max.)
	accuracy	±0.5°C at 90.0°C
	controller	PID controller
Thermocouple		Pt 100 ohms
Heater(sheath)	W	2,000
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB
Shelves		5ea
Material	interior	Stainless steel plate
	exterior	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	136

GRAVITY CONVECTION INCUBATOR



- Microprocessor PID auto-tuning controller with digital setting and display.
- Air jacket system ensures uniform temperature distribution in chamber, along with excellent thermal insulation.
- Double-door system and the inner door with tempered glass for heat loss prevention and convenient observation.

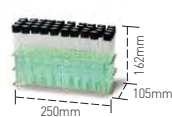
Model		J-NIB2
Type		Gravity convection system
Overall size(W×D×H)	mm	1,180×610×980
Chamber size(W×D×H)	mm	1,020×440×640
Capacity	ℓ	287
Temperature	range	Ambient+5.0°C ~ 70.0°C
	accuracy	±0.5°C at 37.0°C
	controller	PID controller
Thermocouple		Pt 100 ohms
Heater(Ni-Cr)	W	600
Door	inner	Clear safety glass inner door
	outer	Magnetic door closure with positive sealing gasket
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB
Shelves		6ea(20ea of TB rack can be installed-option)
Material	interior	Stainless steel plate
	exterior	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Certification		CE



Rack-48(20ea in chamber)



Rack-50(24ea in chamber)



Rack-40(24ea in chamber)

GRAVITY CONVECTION INCUBATOR / OGAWA MEDIUM INCUBATOR

CE



- This incubator is designed for the Ogawa medium.
- Microprocessor PID auto-tuning controller with digital setting and display.
- 4 chambers are controlled individually by separate PID auto-tuning controller, and each chamber can operate at different conditions.
- Double-door system and the inner door with tempered glass for heat loss prevention and convenient observation.
- This incubator is used to the 16cm length of Ogawa medium.

Model		J-NIB4
Type		Gravity convection system
Overall size (W×D×H)	mm	1,270×710×1,920
Chamber size (W×D×H)	mm	475×560×640 x 4ea
Capacity	ℓ	680 (170×4chamber)
Temperature	range	35.0°C ~ 40.0°C
	accuracy	±0.5°C at 37°C
	uniformity	±2.0°C at 37°C
	controller	PID controller x 4ea
	regulator	SSR type
Thermocouple		Pt 100 ohms
Heater(Ni-Cr)	W	1,200 (300 x 4ea)
Door	inner	Clear safety glass inner door
	outer	Magnetic door closure with positive sealing gasket
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB
Shelves	quantity	40 ea (10ea of 16cm Ogawa medium rack / chamber)
	system	Rail system
Material	interior	Stainless steel plate
	exterior	Steel plate with powder coated finish
Power source		AC 220V, 50/60Hz, 1 phase
Certification		CE

※ Information, design and specification are subject to change without prior notice

CONSTANT TEMP. & HUMIDITY CHAMBER

CE



- Microprocessor PID auto-tuning controller with digital setting and display.
- SCR control ensures precise temperature and humidity control.
- Optimized chamber structure for uniform temperature distribution.

Model		J-RHC1	J-RHC2	J-RHC3	J-RHC4
Overall size(W×D×H)	mm	1,070×1,020×1,750			
Chamber size(W×D×H)	mm	500×500×600			
Capacity	ℓ	150			
Temperature	range	-20.0℃ ~ 150.0℃	-30.0℃ ~ 150.0℃	-50.0℃ ~ 150.0℃	-70.0℃ ~ 150.0℃
	accuracy	±0.3℃ at 37.0℃			
	controller	PID controller or programmable controller(option)			
	regulator	SCR type			
Humidity	range	35% ~ 95%			
	accuracy	±2.0% at 60.0%			
	controller	PID controller or programmable controller(option)			
Heater(sheath)	drying W	2,000			
	humidity W	2,000			
Circulation fan & motor		Ø150×80mm(H), 90W×2ea			
Refrigerator	condenser system	One stage(air cooling)		Two stage(air cooling)	
	compressor Hp	3/4×1ea, 1/3×1ea	1×1ea, 1/3×1ea	1×2ea	2×2ea
Water tank	ℓ	18			
Safety device		Overload prevent, alarm, ELB, water empty, current leak, over current, overheating prevent			
Shelves		3ea			
Material	interior	Stainless steel plate			
	exterior	Steel plate with powder coated finish			
Power source		AC 230V 50/60Hz 1phase			
Certification		CE			

※ Option : Temp. & humidity recorder.

CONSTANT TEMP. & HUMIDITY CHAMBER

CE



- LCD touch screen programmable logic controller
- SCR control ensures precise temperature and humidity control.
- Optimized chamber structure for uniform temperature distribution.

Model		J-RHC1-LCD-T	J-RHC2-LCD-T	J-RHC3-LCD-T	J-RHC4-LCD-T
Overall size(W×D×H)	mm	1,070×1,020×1,750			
Chamber size(W×D×H)	mm	500×500×600			
Capacity	ℓ	150			
Temperature	range	-20.0℃ ~ 150.0℃	-30.0℃ ~ 150.0℃	-50.0℃ ~ 150.0℃	-70.0℃ ~ 150.0℃
	accuracy	±0.3℃ at 37.0℃			
	controller	LCD touch screen programmable logic controller			
Humidity	range	35% ~ 95%			
	accuracy	±2% at 60%			
	controller	LCD touch screen programmable logic controller			
	sensor	Electronic sensor			
Heater(sheath)	drying W	2,000			
	humidity W	2,000			
Refrigerator	condenser system	One stage(air cooling)		Two stage(air cooling)	
	compressor Hp	1/3×1ea, 3/4×1ea	1/3×1ea, 1×1ea	1×2ea	2×2ea
Water tank	ℓ	18			
Safety device		Overload prevent, alarm, overheating prevent, ELB, water empty, current leak, over current, circuit breaker			
Shelves		3ea			
Material	interior	Stainless steel plate			
	exterior	Steel plate with powder coated finish			
Power source		AC 230V 50/60Hz 1phase			
Certification		CE			

※ Option : Temp. & humidity recorder.

CONSTANT TEMP. & HUMIDITY CHAMBER

CE



- LCD touch screen programmable logic controller
- SCR control ensures precise temperature and humidity control.
- Optimized chamber structure for uniform temperature distribution.
- Interior is made of high quality corrosion resistant stainless steel plate.

Model		J-RHC1-500T	J-RHC2-500T	J-RHC1-1000T	J-RHC2-1000T
Overall size(W×D×H)	mm	1,350×1,330×1,800/2,050		1,550×1,530×2,000/2,250	
Chamber size(W×D×H)	mm	800×800×800		1,000×1,000×1,000	
Capacity	ℓ	512		1,000	
Temperature	range	-20.0℃ ~ 100.0℃	-50.0℃ ~ 100.0℃	-20.0℃ ~ 100.0℃	-50.0℃ ~ 100.0℃
	accuracy	±0.5℃ at 37.0℃			
	controller	LCD touch screen programmable logic controller			
Humidity	range	30% ~ 95%RH at 30.0℃ ~ 80.0℃			
	accuracy	±2% at 60%			
	controller	LCD touch screen programmable logic controller			
Refrigerator	sensor	Electronic sensor			
	condenser system	One stage(air cooling)	Two stage(air cooling)	One stage(air cooling)	Two stage(air cooling)
	compressorHp	2×1ea, 1/2×1ea	2×2ea	3×1ea, 1/2×1ea	3×2ea
Circulation fan & motor		Ø150×80mm(H), 90W×3ea		Ø150×80mm(H), 90W×4ea	
Heater	drying	Aero-fin tube, 4.5kW		Aero-fin tube, 6kW	
	humidity	Sheath, 3kW		Sheath, 4.5kW	
Material	interior	Stainless steel plate			
	exterior	Steel plate with powder coated finish			
Safety device		Overload prevent, alarm, overheating prevent, ELB, water empty, current leak, over current, circuit reaker			
Power source		AC 230V 50/60Hz 3phase			
Certification		CE			

※ Option : Temp. & humidity recorder.

CONSTANT TEMPERATURE CHAMBER



- Microprocessor PID auto-tuning controller with digital setting and display.
- SCR control ensures precise temperature and humidity control.
- Optimized chamber structure for uniform temperature distribution.
- Chart recorder (Option) : The state of temperature indicated by chart & graph.

Model		J-RTC1	J-RTC2	J-RTC3	J-RTC4
Overall size (W×D×H)	mm	1,070×1,020×1,750			
Chamber size (W×D×H)	mm	500×500×600			
Capacity	ℓ	150			
Temperature	range	-20.0℃~+150.0℃	-30.0℃~+150.0℃	-50.0℃~+150.0℃	-70.0℃~+150.0℃
	accuracy	±0.3℃ at 37.0℃			
	uniformity	±0.5℃ at 37.0℃			
	controller	PID controller or programmable controller (option)			
	regulator	SCR type			
Thermocouple		Pt 100 ohms			
Heater(sheath)	drying W	2,000			
Refrigerator	condenser system	One stage (air cooling)		Two stage (air cooling)	
	compressor Hp	3/4 ×1ea,	1 ×1ea,	1 ×2ea	2 ×2ea
Circulation fan & motor		Ø150×80mm(H), 90W×2ea			
Observation window		Reinforced glass			
Safety device		Overload prevent, alarm, ELB, water empty, current leak, over current, overheating prevent			
Shelves		3ea			
Material	interior	Stainless steel plate			
	exterior	Steel plate with powder coated finish			
Power source		AC 220V, 50/60Hz, 1phase			

CONSTANT TEMPERATURE CHAMBER



- LCD touch screen programmable logic controller
- SCR control ensures precise temperature and humidity control.
- Optimized chamber structure for uniform temperature distribution.
- Chart recorder (Option) : The state of temperature indicated by chart & graph.

Model		J-RTC1-LCD-T	J-RTC2-LCD-T	J-RTC3-LCD-T	J-RTC4-LCD-T
Overall size (W×D×H)	mm	1,070×1,020×1,750			
Chamber size (W×D×H)	mm	500×500×600			
Capacity	ℓ	150			
Temperature	range	-20.0°C~150.0°C	-30.0°C~150.0°C	-50.0°C~150.0°C	-70.0°C~150.0°C
	accuracy	±0.3°C at 37.0°C			
	uniformity	±0.5°C at 37.0°C			
	controller	LCD touch screen programmable logic controller			
	regulator	SCR type			
Thermocouple		Pt 100 ohms			
Heater(sheath)	drying W	2,000			
Refrigerator	condenser system	One stage (air cooling)		Two stage (air cooling)	
	compressor Hp	3/4 ×1ea,	1 ×1ea,	1 ×2ea	2 ×2ea
Circulation fan & motor		∅150×80mm(H), 90W×2ea			
Observation window		Reinforced glass			
Safety device		*Overload prevent, alarm, ELB, water empty, current leak, over current, overheating prevent*			
Shelves		3ea			
Material	interior	Stainless steel plate			
	exterior	Steel plate with powder coated finish			
Power source		AC 220V, 50/60Hz, 1phase			

BATH. KINEMATIC VISCOSITY



- High efficiency stirrer with low vibration ensures uniform temperature.
- Timer is attached for convenience when measuring viscosity.
- Water cooling system is installed which enables operations at different temperature in a short time.
- To protect bath made of glass, stainless steel plate cover is attached on backside and poly-carbonate cover is attached on frontside of glass bath.

Model		J-BV08
Overall size(W×D×H)	mm	370×450×675
Glass bath size(∅×H)	mm	300×350
Capacity	ℓ	24.7
Temperature	range	Ambient+5°C~95°C
	accuracy	±0.1°C at 50.0°C
	controller	digital setting/display
	regulator	SSR type
Thermocouple		Pt 100 ohms
Stirrer	W	25
Heater(sheath)	W	2,500
Timer		Timer(sec)
Light	W	Fluorescent lamp, 20x1ea
Safety cover		Polycarbonate cover
Safety device		ELB, overheating protection system
Material	interior	Reinforced glass
	exterior	Steel plate with powder coated finish
Cooling function		Water cooling coil
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	20

※ Option : Oswald viscosity meter

※ Information, design and specifications are subject to change without prior notice.

PRECISION CIRCULATING WATER BATH



J-PWB1(option:Lid)



J-PWB2

- PID auto-tuning controller maintains uniform temperature for long periods.
- Digital readout displays pre-set temperature and current operating temperature.
- Settings for the temperature and timer can be easily done with soft touch key pads.

Model		J-PWB1	J-PWB2
Type		Circulating system	
Size	bath inner(W×D×H) mm	350×300×150	450×350×250
	overall(W×D×H) mm	530×360×250/340	650×430×370/460
	top open(W×D) mm	350×300	450×350
Capacity	ℓ	15.7	39
Sight glass		No	Yes
Temperature	range	Ambient+5.0℃ ~ 90.0℃(Max.)	
	accuracy	±0.5℃ at 50.0℃	
	controller	PID controller	
Thermocouple		Pt 100 ohms	
Heater(sheath)	W	1,500	3,000
Pumping	capacity ℓ /min	10	
	motor W	60	
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit), ELB	
Material	interior	Stainless steel plate	
	exterior	Stainless steel plate(hair line)	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	-	25.5

※ Option : Lid

TISSUE FLOAT BATH



- Bath, used for removing paraffin wrinkles and foam(bubble) in pathology room & hospital laboratory, is made of aluminum casting.
- Digital controller ensures precision temperature control.
- Settings for the temperature can be easily done with soft touch key pads.

Model		J-NBT
bath inner size(∅×H)	mm	220×60
Temperature	range	Ambient+5.0℃ ~ 60.0℃
	controller	Digital setting/display
	regulator	SSR type
Thermocouple		diode sensor
Heater(sheath)	W	200
Material	bath	Aluminum plate
	body	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	2.75

COOLING & CIRCULATING WATER BATH

CE



WATER INLET/OUTLET

- This precision cooling water bath with dual temperature control ensures precise temperature control.
- Reservoir is made of corrosion resistant stainless steel plate.
- Digital readout displays pre-set temperature and current operating temperature.
- Corrosion resistant pumping unit ensures long life.

Model		J-LTB701	J-LTB702	J-LTB703
Type		Circulating system		
Size	bath inner(W×D×H)mm	300×240×150		450×350×250
	overall(W×D×H) mm	380×450×560/620		580×750×740/800
	top open(W×D) mm	300×240		450×350
Capacity		10,8		39
Temperature	range	0.0°C ~ 60.0°C	- 20.0°C ~ 60.0°C	0.0°C ~ 60.0°C
	accuracy	±0.1°C at 20.0°C		
	controller	PID controller		
Thermocouple		Pt 100 ohms		
Heater(sheath)	W	700		1,500
Pump capacity		20l/min, 35W		
Pump height		2,5m		
Refrigration compressor	Hp	1/4	1/3	1/2
Lid		Stainless steel plate		
Safety device		Self diagnosis function (Memory error, temp. overheating, SSR short circuit, Sensor short circuit), ELB		
Material	interior	Stainless steel plate		
	exterior	Steel plate with powder coated finish		
Power source		AC 230V 50/60Hz 1phase		
Certification		-	CE	-

COLD TRAP BATH



J-CTB801



J-CTB802

- Digital controller with digital display precisely regulates temperature.
- Very effective in condensing moist or oil mist when using with vacuum drying oven or rotary evaporator.
- By condensing oil mist, extends lifespan of vacuum pump and achieve high performance.
- Over current breaker activates automatically and protects equipment.

Model		J-CTB801	J-CTB802
Type		Cooling coil type/bath type	Glass trap type/bath type
Size	bath inner(Ø×H) mm	210×220	
	overall(W×D×H) mm	455/485×505×810/870	505/535×555×810/870
Capacity		7	
Temperature	range	Down to -40°C	Down to -75°C
	controller	Digital setting / display	
Thermocouple		Pt 100 ohms	
Refrigration compressor	Hp	1/2	1/2×2ea
Material	bath	Stainless steel plate	
	body	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	

IMMERSION CIRCULATING WATER BATH



PID control head

- Microprocessor PID auto-tuning controller with digital setting and display.
- Control head is detachable from water bath, and can use with other type of water bath.
- Low water level sensor gives out alarm and cuts off power to heater automatically to prevent heater damage.
- Circulation pump ensures uniform temperature in reservoir.

Model		J-IWB1	J-IWB2	J-IWB3	J-IWB4
Type		Circulating system			
Size	bath inner(W×D×H) mm	330×300×150	500×300×150	500×300×200	650×300×200
	overall(W×D×H) mm	360×330×200	530×330×200	530×330×250	710×360×270
	control head(W×D×H)mm	140×290×325			
	top open(W×D) mm	330×300	500×300	500×300	650×300
Capacity	ℓ	15	22	30	39
Temperature	range	Ambient+5°C ~ 90°C(Max.)			
	accuracy	±0.1°C at 50.0°C(22ℓ model)			
	controller	PID controller			
	regulator	SSR type			
Thermocouple		Pt 100 ohms			
Heater(sheath) W		2,000			
Circulating pumping capacity ℓ /min		10			
Circulating motor W		40			
Safety device		Self diagnosis function (Memory error, temp. overheating, SSR short circuit, Sensor short circuit), ELB			
Material	interior	Stainless steel plate			
	exterior	Steel plate with powder coated finish			
	pump	Stainless steel			
Power source		AC 230V 50/60Hz 1phase			
Net weight(include head) kg		9	10.2	13	16.2

※ Option : Lid

WATER BATH



- General purpose water bath with digital PID controller.
- Stainless steel lid is included to maintain temperature and prevent evaporation.
- User-friendly magnetic water drain installed as standard.

Model		J-BAS8	J-BAG8	J-BAL8
Size	bath inner(W×D×H) mm	350×250×150	320×260×200	450×300×200
	overall(W×D×H) mm	510×310×245/325	510×360×370	610×360×295/375
	top open(W×D) mm	350×250	320×260	450×300
Capacity	ℓ	13	16.6	27
Temperature	range	Ambient+5°C ~ 100°C		
	accuracy	±0.5°C at 50.0°C		
	controller	PID controller		
	regulator	SSR type		
Thermocouple		Pt 100 ohms		
Heater(sheath) W		1,000	1,500	1,500
Lid		Stainless steel		
Material	interior	Stainless steel plate		
	exterior	Steel plate with powder coated finish		
Power source		AC 230V 50/60Hz 1phase		
Net weight kg		10.3	11	16
Certification		—	—	CE

MULTI-PURPOSE WATER BATH



① Water bath (Basic)



Shaking water bath (equipped with shaking apparatus)



② Shaking apparatus & control head



③ Circulating apparatus

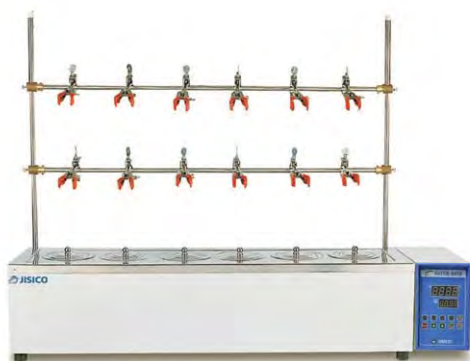


④ Soxhlet apparatus

- J-MPB2 has versatile applications with modular type functional parts, such as shaking water bath, circulation water bath or Soxhlet water bath.
- Microprocessor PID auto-tuning controller with digital setting and display.
- By adopting feedback system, stops shaking when lid is opened, and restarts when closed. (Option: Shaking apparatus)
- Circulation pump ensures uniform temperature distribution in reservoir.
- The corners of bath are rounded for easy cleaning and maintenance.

Model		J-MPB2
Shaking Type		Reciprocating type
Overall size(W×D×H) mm		820×540×300/440
Bath inner size(W×D×H) mm		580×380×220
Capacity ℓ		48,5
Formation (optional accessories) & function	water bath	Basic
	circulating bath	Circulating head
	soxhlet bath	Ring hole 8ea, clamp holder
	shaking bath	Shaking apparatus
Temperature	range	Ambient+5°C ~ 100°C
	accuracy	±0.1°C at 50.0°C
	controller	PID controller
Thermocouple		Pt 100 ohms
Shaking(Optional)	using range rpm	60 ~ 180
	control	Feedback control system
	setting	Digital setting
Heater(sheath) W		3,000
Motor(Optional)	circulating W	60
	shaking(brushless)W	20
Safety device		Self diagnosis function(Memory error, temp. overheating, SSR short circuit, Sensor short circuit), ELB
Material	interior	Stainless steel plate
	exterior	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Certification		CE(Basic water bath)

SOXHLET WATER BATH



PID controller



Hole, Ring

- Microprocessor PID auto-tuning controller with digital setting and display.
- The upper parts and bath are made of stainless steel.
- Digital readout displays pre-set temperature and current operating temperature.
- User-friendly magnetic water drain installed.

Model		J-BS3D
Type		6 hole opening type
Environmental temp. range		5°C ~ 40°C
Overall size(W×D×H) mm		1,080×230/260×220/870
Bath inner size(W×D×H) mm		890×170×130
Capacity	ℓ	19
Temperature	range	Ambient+5°C ~ 100°C
	accuracy	±0.1°C at 50.0°C
	uniformity	±0.5°C at 50.0°C
	controller	PID controller
Thermocouple		Pt 100 ohms
Heater(sheath)	W	2,000
Safety device		Self diagnosis function (Memory error, temp. overheating, SSR short circuit, Sensor short circuit)
Material	interior	Stainless steel plate
	exterior	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	20.7

※ Accessory : stand & clamp holder (6set)

※ Option : Soxhlet extractors, soxhlet flasks

WATER BATH SHAKER

CE



PID control head

- Microprocessor PID auto-tuning controller with digital setting and display.
- Digital readout displays pre-set temperature and current operating temperature.
- Over temperature protection circuit prevents overheating and protects specimen.
- Spring wire rack available as option.

Model		J-SWB19	J-SWB29
Type		Reciprocating type	
Overall size(W×D×H) mm		580×503×445	780×553×445
Bath inner size(W×D×H) mm		400×350×250	600×400×250
Capacity	ℓ	35	60
Temperature	range	Ambient+5°C ~ 100°C	
	accuracy	±0.1°C at 50.0°C	
	controller	PID controller	
Thermocouple		Pt 100 ohms	
Shaking	speed range rpm	35 ~ 250	
	speed controller	Digital setting controller	
	motor W	94	
	capacity ml	250×9ea	500×12ea
Heater(sheath)	W	2,000	3,000
Safety device		Self diagnosis function (Memory error, temp. overheating, SSR short circuit, sensor short circuit)	
Material	interior	Stainless steel plate	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	34	40
Certification		CE	-

※ Option : Shaking plate(spring wire rack)

ELECTRIC MUFFLE FURNACE



- With heating elements at four sides of inner wall, heating is instantly achieved at uniform level.
- Heating elements installed in the walls, designed to prevent generation of corrosive gas and contact with water vapor, to ensure longer life.
- Microprocessor PID auto-tuning controller with digital setting and display.
- Since the air circulates between twifold wall structure, this air circulating system cools temperature of outer case.
- Heating cabinet is separated from control box by heat resistant panel to protect the electronic controller.

Model		J-FM28	J-FM38	J-FM48
Overall size(W×D×H)	mm	415/435×555/610×560/575	560/580×600/655×680/695	1010×770×1220
Chamber size(W×D×H)	mm	150×300×100	250×350×160	350×450×400
Capacity	ℓ	4.5	14	63
Temperature	max.	1,000℃		
	using range	300℃ ~ 900℃		
	accuracy	±1% at setting temp.		
	controller	PID controller		
	regulator	SSR type		SCR type
Thermocouple		K type(CA)		
Heater	kW	3	4.5	12
Insulation		Fiber & ceramic		
Heating element		Molded Kanthal A1		
Safety device		Self diagnosis function (Temp. overheating, SSR short circuit, sensor short circuit), ELB		
Material	interior	Molded ceramic block		
	exterior	Steel plate with powder coated finish		
Power source		AC 230V 50/60Hz 1phase		AC 230V 50/60Hz 3phase
Net weight	kg	48	82	-

TUBE FURNACE



- Box type tube furnace.
- P.I.D Digital temp. controller with micro-computer.
- Security by instituting out-door double-case.
- Strengthened quality of adiabatic material

Model		J-FCA
Overall size(W×D×H)	mm	550×500×755/835
Tube heating size(Ø×L)	mm	50×300
Temperature	max.	1,000℃
	using range	300℃ ~ 900℃
	accuracy	±1% at setting temp.
	controller	PID controller
	regulator	SSR type
Thermocouple		K Type(CA)
Heater	kW	2
Heating element		Molded Kanthal A1
Safety device		ELB, overheating protection system
Material	interior	Molded ceramic block
	exterior	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase

※ Option : Tube(mulite, quartz, alumina)

TUBE FURNACE(GAS ATMOSPHERE)



- Easy to insert gas.
- Can select tube material depending on using temperature and vacuum status.
option - tube material : quartz, mulite, alumina.
- Can be used as gas atmosphere

Model		J-GAF	J-GAF-H
Overall size(W×D×H)	mm	550/1090×500×755/835	
Tube heating size(Ø×L)	mm	50×300	
Temperature	max.	1,000℃	1,500℃
	using range	300℃ ~ 900℃	900℃ ~ 1,300℃
	accuracy	±1% at setting temp.	
	controller	PID controller	PID programmable controller
	regulator	SSR	SCR
Thermocouple		K Type(CA)	R Type
Heater	kW	3	12(adjustable)
Heating element		Molded Kanthal A1	SIC
Insulation		Ceramic wool & board	
Atmosphere		N ₂ (Option : Ar, H ₂ , He, CO, CO ₂)	
Gas flow meter		Yes	
Tube size(Ø×L)	mm	Ø50 ×1,000	
Safety device		ELB, overheating protection sysetm	
Material	interior	FIB module	
	exterior	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	

※ Option : Tube(mulite,quartz, alumina)

AUTOMATIC AUTOCLAVE, STERILIZER

CE



PID controller



Basket

- Fully automated sterilization process by digital PID auto-tuning controller.
- Dual safety pressure valve systems ensures user safety.
- Internal air caught in vessel is exhausted through exhaust valve automatically.
- In case of low water level, safety circuit is activated, cuts off power to heater automatically, protects heater damage and assures user safety.

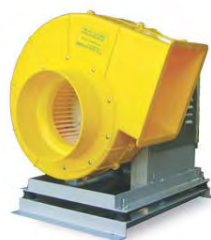
Model		J-NAS45	J-NAS62	J-NAS81	J-NAS103
System(driving)		Automatic			
Overall size(W×D×H)	mm	650×450×880/1,075	700×500×880/1,075	750×550×880/1,165	800×600×880/1,165
Inner size(Ø×H)	mm	300×650	350×650	400×650	450×650
Capacity	ℓ	45.9	62.5	81.6	103
Method sterilization		High pressure system			
Temperature	using range	115℃ ~ 125℃			
	accuarcy	±1℃			
	controller	PID controller			
	regulator	SSR type			
Thermocouple		Pt 100 ohms			
Using pressure		1.15kgf/cm ²			
Heating up time(no load)	min	23	23	25	25
Heater(sheath)	W	3,000	3,500	4,000	4,500
Pressure gauge	kgf/cm ²	Mechanical type 0 ~ 2			
Basket		2ea			
Safety device	heating	Self diagnosis function (Memory error, temp. overheating, SSR short circuit, sensor short circuit), ELB			
	pressure	Double safety valve			
Material	basket	Stainless steel			
	exterior	Steel plate with powder coated finish			
Power source		AC 230V 50/60Hz 1phase			
Net weight	kg	71	97.3	107	120
Certification		CE			

※ Option : J-HAS series (Max. 135℃ product) CE certified.

FUME HOOD



J-FH series



Blower motor

- Epoxy resin top plate & sink (DURCON Inc. USA) guarantees corrosion free fume hood.
- All the internal fixtures including water & gas line, light source and power outlet are made of anti-corrosive materials.
- Powerful exhaust fan motor offers efficient and quick ventilation.
- Window with transparent safety glass (5mm) provides clear view.

Model		J-FH120	J-FH150	J-FH180
Size	width mm	1,218	1,524	1,829
	depth mm	787		
	height mm	2,300		
	exhaust mm	Ø200		
Working table		Epoxy resin top plate and sink		
Window		Clear safety glass(5mm), open/close : balance weighing type		
Utility	water cock	1	2	2
	gas cock	1	2	2
	vacuum cock	1	2	2
	socket	1	2	2
Blower motor Hp		2		
Air volume & pressure		35m ³ /min×45mmAq		
Material	interior	Phenolic treated kraft sheets(LAMIS)		
	exterior	body	Stainless steel plate with powder coated finish	
		cabinet	Steel plate with powder coated finish & wooden door	
Power source		AC 230V 50/60Hz 3phase		

SCRUBBER



- It can be used with JISICO fume hood.
- Scrubber is a diverse group of air pollution control devices that can be used to remove some particulates and/or gases from industrial exhaust streams.
- Scrubbers are one of the primary devices that control gaseous emissions, especially acid gases.

Model	Width (W, mm)	Depth (D, mm)	Height (H, mm)
J-FHS600	600	600	2,300
J-FHS800	800	600	2,300
J-FHS1000	1,000	600	2,300

CLEAN BENCH (VERTICAL TYPE)



Vertical type

- High efficient dust removal is carried out by HEPA filter (99.97% efficiency on particle of $0.3\ \mu\text{m}$).
- Air flow level is displayed in red (for filter change), yellow (filter change soon), green (filter in normal condition) colored 10 segment bar-graph LED display.
- UV lamps installed in workspace and air-path in back panel sterilize incoming fresh air.
- UV lamp is automatically turned off when glass door is opened to protect user.

Model		J-CBWW1	J-CBWW2
Type		Vertical type	
Overall size(W×D×H)	mm	880×850×1,945	1,340×850×1,945
Inner size(W×D×H)	mm	780×630×720	1,240×630×720
Main control		Full digital microprocessor control with membrane touch type	
Main filter		HEPA filter(99.97% efficient on particle of $0.3\ \mu$)	
Filter efficiency(purity)		Class 100	
Pre filter(Nylon)		No	
FL lamp	W	20×2ea	40×2ea
Germicidal lamp(UV)	W	20×2ea	40×2ea
Fan motor	Hp	1/3	1/2
Air flowing volume	m ³ /min	16	32
Velocity	m/sec	0.5 ± 0.2	
Utility	socket	AC 220V 1ea	
	gas cock	1ea	
Window		Reinforced glass 5T	
Material	working table	Stainless steel plate	
	cabinet	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	

CLEAN BENCH (HORIZONTAL TYPE)



Horizontal type

- Horizontal type clean bench is mainly used in clean rooms.
- High efficient dust removal is carried out by HEPA filter (99.97% efficiency on particle of $0.3\ \mu$) and prefilter (Nylon). Prefilter prolongs lifespan of HEPA filter.
- UV lamps installed in workspace and air-path in back panel sterilize incoming fresh air.

Model		J-CBWH1	J-CBWH2
Type		Horizontal type	
Overall size(W×D×H)	mm	880×820×1,670	1,340×820×1,670
Inner size(W×D×H)	mm	780×570×660	1,240×570×660
Main control		Full digital microprocessor control with membrane touch type	
Main filter		HEPA filter(99.97% efficient on particle of $0.3\ \mu$)	
Filter efficiency(purity)		Class 100	
Pre filter(Nylon)		Yes	
FL lamp	W	20×2ea	40×2ea
Germicidal lamp(UV)	W	20×2ea	40×2ea
Fan motor	Hp	1/3	1/2
Air flowing volume	m ³ /min	16	32
Velocity	m/sec	0.5 ± 0.2	
Utility	socket	AC 220V 1ea	
	gas cock	No	
Window		Polycarbonate	
Material	working table	Stainless steel plate	
	cabinet	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	

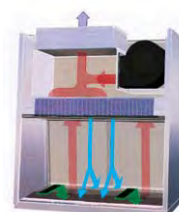
CLEAN BENCH/BIO SAFETY CABINET

New

CE



J-BSCV2



Air flow



Main controller

- Vertical type is used for jobs where ventilation of gases generated out of the experiments is required.
- Dust collection is carried out by HEPA filter (main filter).
- Approximately 70% of the HEPA-filtered air is circulated through the cabinet, while 30% passes through an exhaust HEPA filter and is discharged.
- For vertical type, various instruments and equipment can be placed on the working-bench, for the air flow with negative pressure.
- Exact life span of filter is displayed in LCD display by adopting air flow sensor mode.
- Facility for working : A low-noise fan is attached in it and it is easy for working on account of flatten side of stay for working.
- Various facilities : It sterilizes the working space with ultraviolet lamp,

Model		J-BSCV1	J-BSCV2
Type		Class II A2	
Overall size(W×D×H)	mm	1,050×785×2,230/2,280	1,380×785×2,230/2,280
Inner size(W×D×H)	mm	900×645×730	1,230×645×730
Working size(W×D)	mm	860×475	1,190×475
Stand size(W×D×H)	mm	800×720×670/710	1,280×720×670/710
Main control		LCD microprocessor control with membrane touch type	
Main filter		HEPA filter(99.97% efficient on particle of 0.3 μ) Option:ULPA filter(99.999% efficient on particle of 0.3 μ)	
FL lamp	W	20×2ea	40×2ea
Germicidal lamp(UV)	W	30×1ea	
Air flowing volume	m ³ /min	45±5	
Velocity	m/sec	0.5±0.2	
Illumination	Lux	More than 1,200	
Blower motor	Hp	1/2	
Door		Clear safety reinforced glass, 5mm thickness	
Utility	socket	AC 220V 2ea	
	gas cock	1ea	
Stand		Fixed feet(Option : Caster or Foot master)	
Material	working table	Stainless steel plate	
	cabinet	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Certification		CE	

※ Option : ULPA filter, duct system, drawer, foot master

GLOVE BOX



Model : J-924



Model : J-924A



Neoprene Glove
(USA : black color)
ø: 8" / long : 32"

- The mainbody welded into one piece stainless steel ensures high degree of air tightness, anticorrosive and anti-shock characteristics.
- Ante-chamber is provided for decompression needed to change equipment and test materials.
- Grounded power receptacles, two valves for decompression and fluorescent lamp on the chamber ceiling are provided for convenience.
- Special gloves with airtight, anti-chemical characteristics are imported from USA.

Model		J-924	J-924A
Body	overall size(W×D×H) mm	800/1,130 X 600/675 X 800/885	800/1,130 X 600/675 X 800/885
	using size(W×D×H) mm	790×590×750	790×590×750
	material	Stainless steel plate	
	window(W×D×T) mm	Safety clear glass 670×580×5	
	valve	Gas valve×1ea	
	lamp W	15×1ea	
	power socket	Double socket x 1ea	
Ante-chamber	glove	Neoprene 2ea	
	overall size(W×D×H) mm	330×206×206	
	inner size(W×D×H) mm	300×200×200	
	material	Stainless steel plate	
	valve	3ea	
pressure gauge	1ea		
Photohelic pressure switch/gauge USA		No	Yes
Power source		AC 230V 50/60Hz 1phase	

※ Option : Stand, vacuum pump & accessories, gas.

GLOVE BOX



option : J-924D(6 gloves) with stand

- Double sided glove box with a window and 2 gloves on both sides for efficient operation.
- The main body welded into one piece stainless steel ensures high degree of air tightness, anticorrosive and anti-shock characteristics.
- Ante-chamber is provided for decompression needed to change equipment and test materials.
- Grounded power receptacles, two valves for decompression and fluorescent lamp on the chamber ceiling are provided for convenient operation.
- Special gloves with airtight, anti-chemical characteristics are imported from USA.

Model		J-924D
Body	overall size(W×D×H) mm	1,020/1,550 X 1,020/1,130 X 1,100/1,185
	using size(W×D×H) mm	1,000×1,000×1,000
	material	Stainless steel plate
	window(W×D×T) mm	Safety clear glass (670×580×10)×2ea
	valve	Gas valve×1ea
	lamp W	15×1ea
	power socket	Double socket x 1ea
Ante - chamber	glove	Neoprene 4ea
	overall size(W×D×H) mm	530×256×256
	inner size(W×D×H) mm	500×250×250
	material	Stainless steel plate
	valve	3ea
pressure gauge	1ea	
Photohelic pressure switch/gauge USA		Yes
Power source		AC 230V 50/60Hz 1phase

※ Option : Stand, vacuum pump & accessories, gas.

SHAKER

CE



J-SGM7

Accessories



FC-100
Flask clamps(100ml)
FC-250(standard)
Flask clamps(250ml)
FC-500
Flask clamps(500ml)



FCH-250, 500
Flask clamps(spring holder)



SPR-100
Slide rack



SSR-100
Spring rack



Universal rack
for J-SGM7

- It is used to in biological experiments to blend or agitate samples within flasks or tubes.
- Precise shaking speed control is ensured by microprocessor feedback control system.
- Digital timer with digital display is installed as standard.

J-USRC

- Adopting brushless motor, noiseless operation and no overheating of motor is ensured.
- Spring racks, flask clamps, and slide racks can be replaced by easily for multipurpose applications.

J-SGM7

- Universal shaker: flasks, beakers, test tubes, reagent bottles can be fit on platform.
- Platform is made of PVC plate preventing corrosion by acid or alkaline solution.

Model		J-USRC	J-SGM7
Shaking type		Rotation	Reciprocating type
Mainbody size(W×D×H)		310×370×75	435/500×375/390×265/370
Platform size(W×D)		300×300	470×375×105
Shaking	speed range	rpm 15 ~ 350	35 ~ 250
	stroke	mm 30	35
	motor	W 40(BLDC)	95(AC)
Controller		Digital setting / feedback system	Digital setting/display
Timer	min	0 ~ 999 or infinity	99hr 59min, or infinity
Capacity(flask)	ml	100×16ea / 250×9ea / 500×6ea (choice)	Approx. 10kg
Function		Speed controller and timer	
Material	body	Steel plate with powder coated finish	
	platform	Aluminum plate	PVC plate
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	12,3	31,4
Certification		CE	-

※ Option : Reciprocating type, accessory rack

SEPARATORY FUNNEL SHAKER

CE



Standard Type



Multi(option)

Option



For flasks



For test tube



For bottle

- Digital timer with digital display, time can be set up to 99 minutes or continuous operation.
- Adopting brushless motor, minimum noise and vibration is ensured and is capable of heavy duty job.
- Capable of operating at high speed of max. 350 rpm by adopting robust structure.
- With adjustable funnel holders, 250ml~1,000ml funnels can be used.
- Can be used as horizontal reciprocating shaker utilizing flask clamps. (option)

Model		J-MSFS	
Shaking type		Reciprocating type(vertical or horizontal shaking)	
Overall size(W×D×H)	mm	660×500/515×480	
Plat form size(W×D)	mm	300×400	
Shaking	controller	Dial knob/ digital display	
	speed	rpm	60 ~ 350
	stroke	mm	40
	timer		99min, or infinity
	capacity	mℓ	Separatory funnel 250, 500, 1000 (250/500/1,000×6ea) Erlenmeyer flask holder 250 ~ 300×12ea
Motor(BLDC)	W	60	
Funnel holders	standard	6 funnel holders included(3 per side) additional 4 funnel holders can be installed (option)	
	capacity	mℓ	Under 1,000 mℓ : 6 ea (3 per side)
Accessories(option)		Shaking rack for flask(clamp type)	
		Shaking rack for test tube(spring type)	
		Shaking rack for bottles or flasks(bar type)	
		Safety cover and rubber foot(4 ea) are included with shaking rack	
		Funnel flask holders(max, additional 4ea : 250mℓ)	
Material	body	Steel plate with powder coated finish	
	flask holder	Stainless steel plate	
Power source		AC 230V 50/60Hz 1phase	
Net weight	Kg	48	
Certification		CE	

※ Option : Accessories

MULTI-SHAKER



J-MBB-2

- Precise shaking speed control is ensured by feedback control system.
- Digital timer displays accumulated time as well as remaining time of operation.
- Exceeding set-up speed is prevented by automatic safety shut-down device.



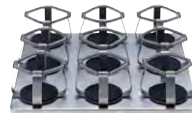
Model : J-BBT-1

J-BBT-2

Accessories



FC-100
Flask clamps(100ml)
FC-250(standard)
Flask clamps(250ml)
FC-500
Flask clamps(500ml)



FCH-250, 500
Flask clamps(spring holder)



SPR-100
Slide rack



SSR-100
Spring rack

Model		J-BBT-1	J-BBT-2
Shaking type		Rotation	
Overall size(W×D×H)	mm	480×610×90	800×610×90
Platform size(W×D)	mm	460×465	770×465
Controller		Digital setting / feedback system	
Timer	min.	0~999 or infinity	
Shaking speed	rpm	15 ~ 350	
Motor(BLDC)	W	40	
Material	body	Steel plate with powder coated finish	
	platform	Aluminium plate	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	32	55.3

Model		J-MBB-1	J-MBB-2
Rack size(W×D×H)	mm	680×640×1,950	1,000×640×1,950
Rack material		Steel plate with powder coated	
Quantity of shaker		J-BBT-1 x 4ea	J-BBT-2 x 4ea

SIEVE SHAKER



- Ro-tap type shaker has excellent separating capabilities by rotating very gently.
- Noiseless and light, with uniform mechanical motion.
- Adopting none-mechanical gear system, no lubrication is required.
- Offers excellent separating and sieving performance.
- Designed to install and remove sieves easily.

Model		J-SRT	
Shaking type		Ro-tap type	
Overall size(W×D×H)	mm	680×530×670	
Ro-tap speed	rpm	240	
Hammer speed(up/down)	rpm	130	
Motor	Hp	1/3	
Timer	min	60	
Material	body	Steel plate with powder coated finish	
	sieve	Brass or stainless steel plate	
Power source		AC 220V 60Hz 1phase	
Net weight	kg	75.2	
Sieve(option)	size(Ø×H)	mm	Ø203×41
	quantity		6ea

※ Option : sieve

VIBRATORY SIEVE SHAKER

CE



- Noiseless and efficient performance ensured by adopting maintenance free electromagnet drive system,
- Excellent performance for size analysis of dry powders and particles,
- Four(4) different operating modes enables the user to choose most suitable mode for the operation,
- Offers 9 steps of sieving(=shaking) intensity to choose from,

Model		J-VSS
Shaking type		Vibration type(up/down)
Overall size(W×D×H) mm		360×460×620(170/450)
Shaking(vibration)	control system	Frequency control
	controller	Digital setting / display
	mode	Interval vibratory motion : 3.2,1sec continuous & vibratory motion(4 mode)
	vibration speed	130 cycles per min.
Material	lid(cover)	Aluminum casting
	interior	Steel casting
	exterior	FRP
Power consumption	W	500
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	24.7
Sieve(option)	size(Ø×H) mm	Ø203×41
	quantity	7ea
	material	Brass or stainless steel plate
Certification		CE

※ Option : sieve

SIEVE SIZE



- Material : Frame-Brass
- Screen-Stainless Steel

Model No.	OPENING Size	Model No.	OPENING Size
6,35	6,350mm	60	250 μ m
3,5	5,600mm	70	212 μ m
	5,000mm		200 μ m
4	4,750mm	80	180 μ m
5	4,000mm		160 μ m
6	3,350mm	100	150 μ m
7	2,800mm	120	125 μ m
8	2,360mm	140	106 μ m
10	2,000mm		
12	1,700mm		
14	1,400mm		
16	1,180mm		
18	1,000mm		
20	850 μ m		
25	710 μ m		
30	600 μ m		
35	500 μ m		
40	425 μ m		
45	355 μ m		
50	300 μ m		
Pan & Cover			
Frame Size : Dia,203mm x 41mm(H)			

VORTEX TUBE MIXER

CE



Standard accessory : flask pad

- General laboratory vortex mixer.
- Can be used for tube mixing and flask mixing by replacing head.
- Push touch type with manual/continuous select switch.

Model		J-MF
Overall size(W×D×H)	mm	125×185×160
Speed range	rpm	3,000(Max.)
Motor	W	23
Material		ABS(acrylonitrile-butadiene-styrene)
Head		Rubber mixing cap (test tube Ø35mm & flask 250mℓ (Max.))
Function		Speed controller
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	2,6
Certification		CE

JAR-TESTER

CE



- Six stirrer rods operate simultaneously and fluorescent lamps are installed at bottom and rear wall for clear view.
- Digital PID controller with digital RPM meter and time belt ensures precise stirring operation.
- Digital timer function is installed within controller. (Max: 99hr 59min)
- Brushless motor ensures very quiet operation and long life span of motor.
- Low RPM is possible with no load.

Model		J-JT6S
Overall size(W×D×H)	mm	950×340×450/475
Impeller	blade(W×H)	mm 75×25
	up-down	mm 250
Speed controller		Digital setting/display
Speed(digital display)	rpm	10 ~ 300(Max.)
Motor(AC)	W	25
Stirrer		6ea
Timer(digital setting & display)		99hr 59min. or infinity
FL lamp	W	30 × 2ea
Material	body	Steel plate with powder coated finish
	stirrer	Stainless steel plate
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	40
Certification		CE

V-TYPE MIXER



- It is improved mixing efficiency by rotation using double swing of axis with V type mixer.
- The vessel is made of high quality corrosion resistant stainless steel plate.

Model		J-VM13	J-VM22	J-VM50	J-VM70
System		Mixing with gyration system			
Overall size(stand)(W×D×H)	mm	1,160×400×730	1,420×500×940	1,560×550×1,140	1,890×650×1,300
Height to vessel from the bottom	mm	300	400	500	600
Total capacity(vessel)	ℓ	13	22	50	70
Mixable capacity	ℓ	5	10	20	30
Rotating speed	rpm	36	36	36	36
Drum motor	Hp	1/4	1/2	1	2
Impeller motor	Hp	1/4	1/4	1/2	1
Impeller motor	rpm	850	850	600	600
Material	vessel	Stainless steel plate			
	body	Steel plate with powder coated finish			
Power source		AC 230V 50/60Hz 1phase			

MULTI HOT-PLATE MAGNETIC STIRRER



J-MS4



J-MS6

- **Continuous structure**
Four or six heating stirrers are built in row to perform multiple tests simultaneously.
- **Excellent materials for top plate**
The top plate is made up of aluminum die-casting with ceramic coating for resistance against corrosion.

(8-heating stirrers are also made on request)

Model		J-MS4	J-MS6
Overall size(W×D×H)	mm	460×380×175	680×380×175
Top plate size		Ø150×4ea	Ø150×6ea
Temperature (surface)		400°C (Max.)	
Stirring	speed	rpm 2,000 (Max.)	
	capacity	mℓ 500(flask)×4ea	500(flask)×6ea
Motor	W	23×4ea	23×6ea
Heater (sheath)	W	1,200 (300×4ea)	1,800 (300×6ea)
Material	top-plate	Aluminum die-casting (ceramic coated)	
	body	Steel plate with powder coated finish	
Power source & consumption		AC 230V 50/60Hz 1phase	
Net weight	kg	11.7	20

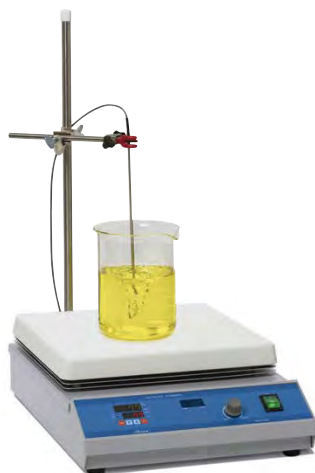
HOT-PLATE MAGNETIC STIRRER



- Top-plate is made of aluminum die casting coated with ceramic, resistant to corrosive chemicals and easy to clean, and heats surface with excellent thermal distribution.
- Heating and stirring operation can be performed at the same time or separately.
- Hot plate is separated from mainbody by heat resistant plate to protect the electronic parts and controller.

Model		J-HMS	
Overall size(W×D×H)	mm	200 x 310 x 115	
Plate size(W×D)	mm	180×180	
Temperature(surface)		Up to 380°C(Max.)	
Stiring	speed	rpm	100 ~ 1,500
	capacity	mℓ	Up to 5,000
	control		Electronic controller
Heater(sheath)	W	680	
Material	top plate	Ceramic coated top plate	
	body	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	3.5	

HOT-PLATE MAGNETIC STIRRER



J-HSD330

- PID Auto tuning controller with digital setting and display controls.
- Top-plate is coated with ceramic, resistant to corrosive chemicals and easy to clean.
- Stirring RPM is shown by digital display.



J-HSD180

Model		J-HSD180		J-HSD330	
Dimensions(W×D×H)	plate area	mm	180×180	300×300	
	overall	mm	200×310×115	310×430×120	
Temperature	range		Max 380°C	Max 350°C	
	controller		Digital PID auto-tuning		
	timer		99hr 59min		
Heater power	W		680	1,400	
Stiring	Speed	rpm	100~1,500	100~1,300	
	speed display		Digital		
	capacity	ℓ	Up to 5	Up to 15	
Top plate		Ceramic coated top plate			
Power source		AC 230V 50/60Hz 1phase			
Net weight	kg		3.8	7	

HOT-PLATE MAGNETIC STIRRER



- PID Auto tuning controller with digital setting and display controls.
- Top-plate is coated with ceramic, resistant to corrosive chemicals and easy to clean.
- Stirring RPM is shown by digital display.
- Heating and stirring operation can be performed at the same time or separately.

Model		J-HSD120-03P	J-HSD150-03P
Dimensions(W×D×H)	plate area mm	120×120	150×150
	overall mm	480×260×125	510×300×125
Heating & stirring positions		3	
Temperature	range	Max 380°C	
	controller	Digital PID auto-tuning	
	timer	99hr 59min	
Heater power	W	350×3	480×3
Stirring	Speed rpm	100~1500	
	speed display	Digital	
	capacity ℓ	Up to 1	Up to 2
Top plate		Ceramic coated top plate	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	7.3	8.3

DISINTEGRATION TESTER

CE



Option : J-DTC4

Can measure hours and dissolution process of tablets and granules under specific conditions (temperature equivalent to the digestive organs of human body).

Transparent observation window enables to observe specimen in bath conveniently.

PID controller maintains uniform temperature of water in bath with digital temperature readout display.

Model		J-DTC2
Shaking type		Reciprocating(up/down) type
Overall size(W×D×H)	mm	350/360×260×325/400
Inner size(W×D×H)	mm	340×155×160
Controller		Digital setting / display
Capacity	ℓ	24
Shaking	speed(up/down) mm	29~32/min.
	stroke mm	53~57
Motor	W	6
Heater(sheath)	W	800
Temperature		37.0°C ± 0.5°C
Size	beaker(∅×H) mm	110×155
	glass tube(∅×H)mm	22~23×75±(2,5)
	sieve mm	∅2.0
Sample capacity	mℓ	1,000
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	22.7
Certification		CE

※ Option : Auxiliary plates(12ea), Auxiliary tubes(12ea)

ELECTRONIC OVERHEAD STIRRER (HIGH SPEED)



J-MS280D

- Microprocessor feedback system can work with constant-torque and speed.
- Precise shaking speed control is ensured by feedback control system.

Model		J-MS280	J-MS280D
Dimensions(W×D×H)	mm	78×180×170	
Stirring capacity	ℓ	10	
Viscosity (Max.)	m · Pas	7000(low)	
Motor(output)	W	DC motor 60W	
Torque		2kg · cm(19,6Ncm)	
Speed range	rpm	200~3000	
Speed controller		Feedback control	
Speed display		Scale	Digital
Chuck range	mm	Ø1~10	
Net weight	kg	3.2	
Power source		AC 230V 50/60Hz 1phase	

DIRECT DRIVEN STIRRER



- RPM can be arbitrarily set, as a stepless electronic speed controller is installed.
- Stirring RPM is shown by digital display. (D series)

Model	J-SL1000	J-SL1000D	J-SM1000	J-SM1000D
Use	Middle viscosity	Middle viscosity	Middle/High viscosity	Middle/High viscosity
Motor type/RPM range	DC 50Watt, geared motor 50~1,000(Max)	DC 50Watt, geared motor 50~1,000(Max)	DC 120Watt, geared motor 50~1,000(Max)	DC 120Watt, geared motor 50~1,000(Max)
RPM indicator	Scale	Digital display	Scale	Digital display
Power source	AC 230V 50/60Hz 1phase			

HOT PLATE



- Top-plate is made of aluminum die casting coated with ceramic, resistant to corrosive chemicals and easy to clean, and heats surface with excellent thermal distribution.
- Hot plate is separated from main body by heat resistant plate to protect the electronic parts and controller

Model		J-NHP180
Overall size(W×D×H)	mm	200 x 310 x 115
Plate size(W×D)	mm	180×180
Temperature(surface)		Up to 380°C(Max.)
Heater(sheath)	W	680
Material	top-plate	Ceramic coated top plate
	body	Steel plate with powder coated finish
Fuse capacity	A	250V 10A
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	3.2

SLIDE WARMER



PID controller

- Ideal for microscope slide warming on cytology, histology, pathology, biology and other clinical applications.
- Black surface provides contrast with samples.
- Transparent acrylic lid enables to observe specimen conveniently without disturbing inner temperature.
- Aluminum top plate with plate type heater provides rapid heating surfaces with excellent thermal distribution.
- PID controller maintains uniform temperature with digital readout display.

Model		J-HSWD
Overall size(W×D×H)	mm	635×270×150
Plate Size(W×D)	mm	630×270
Temperature	range	Ambient+5°C ~ 60°C
	controller	PID controller
Heater(sheath)	W	150
Material	plate	Aluminum plate
	body	Stainless steel plate
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	12.1

HOT PLATE



- PID Auto tuning controller with digital setting and display automatically controls temperature and reaches 350°C within 30 minutes.
- Hot plate is separated from main body by heat resistant plate to protect the electronic parts and controller.
- Excellent heat efficiency and electrically safe.
- Overheating is prevented by automatic shut-off circuit.

Model		J-HPL-D
Overall size(W×D×H)	mm	600×300×190
Plate size(W×D)	mm	600×300
Temperature	range	350°C(Max.)
	controller	PID controller
	regulator	SSR type
Heater(sheath)	W	3,000
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit)
Material	top-plate	Aluminum die-casting
	body	Stainless steel plate
Power source		AC 220V 60Hz 1phase
Net weight	kg	15,8

SAND HOT PLATE



- PID Auto tuning controller with digital setting and display automatically controls temperature and reaches 350°C within 30 minutes.
- Hot plate is separated from main body by heat resistant plate to protect the electronic parts and controller.
- Excellent heat efficiency and electrically safe.
- Overheating is prevented by automatic shut-off circuit.

Model		J-HPSD1	J-HPSD2
Overall size(W×D×H)	mm	450×300×250	600×300×250
Plate size(W×D×H)	mm	450×300×50	600×300×50
Temperature	range	350°C(Max.)	
	controller	PID controller	
	regulator	SSR type	
Heater(sheath)	W	2,000	3,000
Safety device		Self diagnosis function(Memory error, Temp. overheating, SSR short circuit, Sensor short circuit)	
Material	top-plate	Stainless steel plate	
	body	Stainless steel plate	
Power source		AC 230V 50/60Hz 1phase	
Net weight	kg	16	20,9

SOXHLET HEATER



- Six temperature controller can operate simultaneously or separately.
- Heating efficiency is maximized by placing heating element inside aluminum die-casting hot plate.
- Hot plate is separated from main body by heat resistant plate to minimize heat transfer.
- Excellent heat efficiency and electrically safe.

Model		J-SH3
Overall size(W×D×H)	mm	810×175/220×220/770
Plate size	mm	Ø120×6ea
Temperature(surface)		350°C(Max.)
Capacity(soxhlet app.)		6set
Temp. controller		Analog setting type×6set
Heater(sheath)	W	1,800(300×6ea)
Material	hot-plate	Aluminum die-casting
	body	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	14

※ Accessory : stand & clamp holder(6set).

※ Option : Soxhlet extractors, soxhlet flasks.

KJELDAHL DIGESTING EQUIPMENT



- Porcelain refractory heating plate and supplementary plate ensure high degree of durability and heat resistance.
- Hot plate is separated from main body by heat resistant plate to protect the electronic parts and controller.
- Reaches set temperature in short time by adopting Ni-Cr wire type heating element.
- Duct system is made by plumbum (Pb) for resistant to corrosive gas.

Model		J-HMK
Overall size(W×D×H)	mm	960×550×1,190
Temperature	range	600°C(Max.)
	controller	Analog setting type×6set
	regulator	SSR type
Heater(Ni-Cr)	W	3,000(500×6ea)
Capacity(flask)	mℓ	500~800×6ea
Motor of exhaust	Hp	1/16
Material	hot plate	Porcelain refractory
	body	Steel plate with powder coated finish
	hood duct	Lead(Pb)
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	87.2

※ Option : Kjeldahl digesting glasswafe

KJELDAHL DIGESTING EQUIPMENT



- It is used in the fume hood.
- Porcelain refractory heating plate and supplementary plate ensure high degree of durability and heat resistance.
- Hot plate is separated from main body by heat resistant plate to protect the electronic parts and controller.
- Reaches set temperature in short time by adopting Ni-Cr wire type heating element.

Model		J-H6S
Overall size(W×D×H)	mm	810/880×175/220×200/770
Plate size(W×D×H)	mm	120×120×60, 6ea
Temperature	range	600°C(Max.)
	controller	Analog setting type×6set
Heater(Ni-Cr)	W	3,000(500×6ea)
Capacity(flask)	mℓ	250 ~ 800×6ea
Material	hot-plate	Porcelain refractory
	body	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Net weight	kg	20

※ Option : kjeldahl glass tube and flask ※ Accessory : stand & clamp holder (6set).

KJELDAHL DISTILLING EQUIPMENT



- Hot plate is separated from main body by heat resistant plate to protect the electronic parts and controller.
- Stainless steel cooling system is installed with apparatus.

Model		J-HW
Overall size(W×D×H)	mm	900×300/200×1,000
Plate size(W×D×H)	mm	120×120×60, 6ea
Temperature	range	600°C(Max.)
	controller	Analog setting type×6set
Heater	W	3,000(500×6ea)
Distilling app.		6set
Flask capacity	mℓ	500~800×6ea
Material	hot plate	Porcelain refractory
	body	Steel plate with powder coated finish
	distilling app.	Stainless steel plate pipe
Power source		AC 230V 50/60Hz 1phase

HEATING MANTLE



- Products installed temperature voltage controller, Proportional voltage control type.
- Fire is prevented by built-in automatic thermal protector.
- Case construction : steel, with chemically resistant powder coating.
- Thermal insulation : Asbestos free ceramic wool(fiber glass).
- Heating element : Ni-Cr wire.
- Mantle : Woven glass fiber mat.
- Heating element temperature : Up to 450°C, Maximum.
- Power supply : AC 230V 50/60Hz 1 phase.

APACITY(ml)	Model	GLHMP		WATTAGE
		GLHMP-F(Flask type)	GLHMP-B(Beaker type)	
250/300		GLHMP-F25	GLHMP-B25	160
500		F50	B50	240
1,000		F100	B100	350
2,000		F200	B200	500
3,000		F300	B300	600
5,000		F500	B500	900
10,000		F1,000	B1,000	1,400
20,000		F2,000	B2,000	1,800

- With built-in magnetic stirrer, heating and stirring can be performed simultaneously or separately.
- Products installed temperature voltage controller, Proportional voltage control type.
- Magnetic Stirrer is stepless electronic control type.
- DC Motor, Stirring speed range is 50 ~ 1,200 rpm.
- Fire is prevented by built-in automatic thermal protector.
- Thermal insulation : Asbestos free ceramic wool(fiber glass).
- Heating element : Ni-Cr wire.
- Mantle : Woven glass fiber mat.
- Heating element temperature : Up to 450°C, Maximum.
- Power supply : AC 230V 50/60Hz 1 phase.



CAPACITY(ml)	Model	GLHMS		WATTAGE
		GLHMS-F(Flask type)	GLHMS-B(Beaker type)	
250/300		GLHMS-F25	GLHMS-B25	150
500		F50	B50	230
1,000		F100	B100	330
2,000		F200	B200	470
3,000		F300	B300	570
5,000		F500	B500	850

HEATING MANTLE



[under 1,000ml]



[over 1,000ml]

- Digital temperature controller installed.
- Fire is prevented by built-in automatic thermal protector.
- Thermal insulation : Asbestos free ceramic wool(fiber glass).
- Heating element : Ni-Cr wire.
- Mantle : Woven glass fiber mat.
- Heating element temperature : Up to 399℃, Maximum.
- Power supply : AC 230V 50/60Hz 1 phase.

APACITY(ml)	Model	GLHMD		WATTAGE
		GLHMD-F<Flask type>	GLHMD-B<Beaker type>	
250		GLHMD-F25	GLHMD-B25	150
500		F50	B50	230
1,000		F100	B100	330
2,000		F200	B200	470
3,000		F300	B300	570
5,000		F500	B500	850



[under 1,000ml]



[over 1,000ml]

- Digital temperature and speed controller installed.
- With built-in magnetic stirrer, heating and stirring can be performed simultaneously or separately.
- Fire is prevented by built-in automatic thermal protector.
- Thermal insulation : Asbestos free ceramic wool(fiber glass).
- Heating element : Ni-Cr wire.
- Mantle : Woven glass fiber mat.
- Heating element temperature : Up to 399℃, Maximum.
- Power supply : AC 230V 50/60Hz 1 phase.

CAPACITY(ml)	Model	GLHMSD		WATTAGE
		GLHMSD-F <Flask Type>	GLHMSD-B <Beaker Type>	
250		GLHMSD-F25	GLHMSD-B25	150
500		GLHMSD-F50	GLHMSD-B50	230
1,000		GLHMSD-F100	GLHMSD-B100	330
2,000		GLHMSD-F200	GLHMSD-B200	470
3,000		GLHMSD-F300	GLHMSD-B300	570
5,000		GLHMSD-F500	GLHMSD-B500	850

SHATTER BOX



- Used for preparing samples for testing physical properties for active carbon, limestone, sand, ceramic material & minerals by shattering finely.
- User-friendly design for easy installation and removal of vessel.
- Shatters and crushes in short time.



Standard vessel



Option : Tungsten vessel

Model		J-MSB-S
Type		Shattering system
Size	overall(W×D×H)mm	820×635/675×1,015
	vessel(in)(Ø×H)mm	145 × 58
	outer rotator mm	ID: Ø90 x OD: Ø125 x 52H
	inner rotator mm	Ø70 x 52H
Capacity	g	50~200/batch
Motor(6p)	Hp	1
Particle size	before shatter mm	Ø5 ~ 7
	after shatter	100 ~ 325 mesh
Material	vessel rotator	SKH (high speed tool steel)
	body	Steel plate with powder coated finish
Power source		AC 230V 60Hz 3phase

※ Option : Tungsten vessel

CUTTING MILL / WILEY TYPE



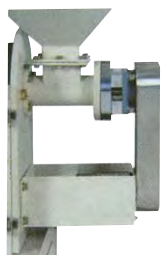
- Crushes various samples without altering characteristics of specimen.
- Fixed knives and rotating cutter efficiently cut and crush specimen.
- Fixed knives (4ea) has 3 blades, and new blade can be used by rotating position with worn one.

Model		J-NCM
Type		Wiley type
Overall size(W×D×H)	mm	260×500×700
Cutter size	mm	ID: Ø110
Hopper size	top mm	ID: Ø140
	depth mm	100
	throat mm	ID: Ø25
Speed	rpm	800
Motor	Hp	1/2
Sieve		3ea(20, 40, 60 mesh)
Material	hopper	Stainless steel plate
	body	Steel plate with powder coated finish
Power source		AC 220V 60Hz 1phase
Net weight	kg	58.4

DISK MILL



J-NDM95



feeding apparatus

- Solid materials and/or metals not crushable by normal cutting tool or roll mill can be crushed and ground.
- Metals or other solid materials hardened by dehydration or synthesis can be ground by the action of rotating disk and fixed disk.
- Cooling system with fixed disk to cool down the friction heat generated by crushing action. (Model J-NDM95)

Model		J-NDM 95	J-NDM 95-F
Type		Milling type	
Overall size(W×D×H)		mm 740×650/60×390/780	
Disk size(Ø×T)		mm Ø203×30	
Hopper size	top	mm	ID: Ø300
	depth	mm	250/450
	throat	mm	ID: Ø50
Controller space of disk		mm	0 ~ 15
Speed		rpm	550
Feeding apparatus		No	Yes
Water cooling system		Yes	No
Motor		Hp	2
Material	disk	SKD-11(cold molding steel)	
	body	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 3phase	

JAW CRUSHER



- A small industrial purpose instrument for crushing ore or rocks in mines and ceramic factories.
- With Jaw made of SK45C carbon steel, crushing capability is excellent.
- Operational reliability and stable performance, high capacity and high crushing ratio and easy gap adjustment.
- Wide range of application, simple structure, easy operation, easy maintenance.

Model		J-JC	
Type		Crushing type	
Overall size(W×D×H)		mm 1,190×580×810	
Size	hopper	top(W×D) mm	200×300
		depth mm	320
		throat mm	150×50
	weight balance wheel mm	Ø495×70T	
	prop(W×D×H) mm	600×1,200×250	
Crushing capacity		kg/h 70 ~ 100	
Motor		Hp 3	
Material	jaw	SK45C(carbon steel for mechanical structure)	
	body	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 3phase	

BALL MILL



J-BM1-S



- High operational reliability, stable performance, simple structure and easy maintenance.
- Model with speed controller available.(Model : J-BM1-S)
- Displays realtime operation speed utilizing rpm meter.(Model : J-BM1-S)

Model		J-BM1	J-BM1-S
Type	mill method	Roll milling type	
	pot & step	Single pot	
Overall size(W×D×H)	mm	530×350×450	
Roller size(Ø×L)	mm	Ø60×300	
Using pot		1ea	
Speed	range rpm	70 ~ 80	
	controller	No	Yes
Motor	Hp	1/2	
Material	roller	Rubber	
	body	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	

※ Option : pot & ball

BALL MILL



J-BM2-S
(Speed control)



J-BM2

- High operational reliability, stable performance, simple structure and easy maintenance.
- Two different size jars can be used simultaneously.
- Model with speed controller available.(Model : J-BM2-S)
- Displays realtime operation speed utilizing rpm meter.(Model : J-BM2-S)

Model		J-BM2	J-BM2-S
Type	mill method	Roll milling type	
	pot & step	Double pot (2 step)	
Overall size(W×D×H)	mm	530×350×950	
Roller size(Ø×L)	mm	Ø60×300	
Using pot		2ea	
Speed	range rpm	70 ~ 80	
	controller	No	Yes
Motor	Hp	1	
Material	roller	Rubber	
	body	Steel plate with powder coated finish	
Power source		AC 230V 50/60Hz 1phase	

※ Option : pot & ball

UNIVERSAL BALL MILL



- High operational reliability, stable performance, simple structure and easy maintenance.
- Designed as universal ball mill, various types of different sized jars can be used.
- Model with speed controller available.
- Displays realtime operation speed utilizing rpm meter.

Model		J-BMM
Type		Roll milling type
Overall size(W×D×H)		mm 950×350×450
Roller size(Ø×L)		mm Ø75×750
Using pot		2ea
Speed	range	rpm 30 ~ 100
	controller	Yes
Motor(DC)		Hp 1/2
Material	roller	Rubber
	body	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Net weight		kg 79

※ Option : pot & ball

ELECTROANALYZER



- Metal ions such as Ni, Cu, Pb, Sb, CO and Zn can be detected and analyzed.
- Voltage can be conveniently adjusted by turning dial knob of slide-ac.
- Current can be easily adjusted by 1A/10A DC adjust switch for best operation condition.
- Speed controllable stirrer and hot plate installed for stirring solution.
- Platinum anode and cathode available as option.

Model		J-EA
Overall size(W×D×H)		mm 355×375×615
Heater(sheath)		W 300
Controller	temp.	Analog setting
	speed	Analog setting
Motor		W 6
Speed		rpm 0 ~ 60
Voltage range		DC 0 ~ 10V
Ampere range		DC 0 ~ 1A, DC 1 ~ 10A
Function		Ampere controller, speed controller, temp.controller
Material	working table	Stainless steel plate
	body	Steel plate with powder coated finish
Power source		AC 230V 50/60Hz 1phase
Net weight		kg 23,5

※ Option : Electroanalytic platinum electrode

WATER DISTILLING APPARATUS



- Interior and exterior made of anti-corrosive stainless steel.
- With water leveler installed, it automatically cuts off power supply to stop operation when water level is low.
- Removable cover for easy cleaning, stable performance and easy maintenance.

Model		J-WD	J-WD-1	J-WD-2
Capacity	ℓ /hr	4	8	12
Material body		All stainless steel plate		
Power source		AC 230V 50/60Hz 1phase		
Net weight	kg	6.5	11.7	14.0

RE-DISTILLED WATER APPARATUS



- Designed to distill the primary distilled water to get highly pure distilled water.
- Interior and exterior made of anti-corrosive stainless steel.
- With water leveler installed, it automatically cuts off power supply to stop operation when water level is low.
- Removable cover for easy cleaning, stable performance and easy maintenance.

Model		J-WDR
Heater(sheath)	W	3,000×2ea
Capacity	ℓ /hr	4
Material	body	All stainless steel plate
	frame	Steel pipe with powder coated finish
	bottle	PE bottle(10 ℓ)
Power source		AC 230V 50/60Hz 1phase

※ Option : Water filter

EVAPORATOR

CE



- Slant condenser type(HS-2005S-N)
- Vertical condenser type(HS-2005V-N)
- 6 type of flasks ranging from 50ml to 3,000ml(1,000ml flask is standard.)
- Evaporator is equipped with speed control, and R.P.M. value is displayed in digital.
- When the water level goes down, power will be cut off automatically by sensor
- Continuous supply device for large capacity

Model	HS-2005S-N	HS-2005V-N
Glass type	Slant condenser	Vertical condenser
Flask size	1,000ml (option : 50 ~3,000ml)	
Rotation speed	20 ~ 280rpm	
Heater	1,000 W / 4.5A	
bath size	mm Ø245×120(H)(capacity 3.5 l)	
Water level sensor	Magnetic type	
Temp. controller	Up to 180°C	
Weight	23kg(bath :2kg)	
Temp. accuracy	±1°C	
Dimension(W×D×H)	mm 730×410×630	620×410×870
Power	AC 230V 50/60Hz 1phase	

ASPIRATOR



- Excessive consumption of water may be reduced that can happen when city piped water is used.
- Utilizing water pressure gained by motor pump, two aspirator can be installed.
- By preventing reflux, vacuum filtration and vacuum distillation are possible.
- Applicable to rotary vacuum evaporator.
- Cooling coil may be installed to prevent loss of vacuum effect due to rise in temperature of water (option).
- Vacuum controller may be equipped for checking degree of vacuum status during operation.
- Bath made of polypropylene is strong and lasts long.

Model	HS-3000
Pump capacity	18L/min×2ea
Bath capacity	13L
Motor power	150W
Material of bath	Polypropylene
Material of aspirator	Metal 2pcs
Size of bath(W×D×H)	mm 380×265×360
Safety	Fuse
Power source	AC 230V 50/60Hz 1phase
Net weight	kg 7

VACUUM PUMP

- High vacuum rotary vane oil pump.
- Applications: vacuum distillation, vacuum degassing, surface coating, freeze drying, laser construction, cryogenics, vacuum oven, mass spectrometer, electron microscope, GC/ICP mass.



Model		W2V10
Pumping speed	ℓ /min	100
Ultimate pressure	G.B. closed	Torr(Pa)
	G.B. open	
		$5 \times 10^{-4} (6.7 \times 10^{-2})$
		$5 \times 10^{-2} (6.7)$
Power input		AC 220V 1phase or AC 220/380V 3phase
Full load power	kW	0.4
Motor speed	rpm	1,700
Oil capacity	cc	500
Weight	kg	24
Intake type/diameter	mm	NW25/ Ø26(O.D)
Ambient operation temp. range	°C	7~40
Overall dimensions(WxDxH)	mm	150 × 398 × 251
	inch	5.9 × 15.7 × 9.9



Model		W2V20
Pumping speed	ℓ /min	200
Ultimate pressure	G.B. closed	Torr(Pa)
	G.B. open	
		$5 \times 10^{-4} (6.7 \times 10^{-2})$
		$5 \times 10^{-2} (6.7)$
Power input		AC 220V 1phase or AC 220/380V 3phase
Full load power	kW	0.4
Motor speed	rpm	1,700
Oil capacity	cc	600
Weight	kg	27
Intake type/diameter	mm	NW25/ Ø26(O.D)
Ambient operation temp. range	°C	7~40
Overall dimensions(WxDxH)	mm	150 × 426 × 251
	inch	5.9 × 16.8 × 9.9



Model		W2V60
Pumping speed	ℓ /min	600
Ultimate pressure	G.B. closed	Torr(Pa)
	G.B. open	
		$5 \times 10^{-4} (6.7 \times 10^{-2})$
		$5 \times 10^{-2} (6.7)$
Power input		AC 220/380V 3phase
Full load power	kW	1.5
Motor speed	rpm	1,700
Oil capacity	cc	2,700
Weight	kg	51.5
Intake type/diameter	mm	NW40/ Ø36(O.D)
Ambient operation temp. range	°C	7~40
Overall dimensions(WxDxH)	mm	206 × 606 × 313
	inch	8.1 × 23.8 × 12.3

NEW ITEM

- Fume hood

New



J-FHL series

New



J-FHL-0 series

※ Information, design and specifications are subject to change without prior notice.

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