

Best Products for Reliable Results
Temperature

Chambers

Convection Ovens
Vacuum Ovens
Incubators
Low Temperature Incubators

Lab Companion offers the following groups of instruments:

○ Laboratory Equipment

- Orbital & Reciprocating Shakers
- Incubated Shakers
- Shaking Water Baths
- Water Baths
- Visco Baths
- Heating & Refrigerated Bath Circulators
- Incubators
- Low Temperature Incubators
- Forced/ Natural Convection Ovens
- Vacuum Ovens
- Low Temperature Chambers
- Electric Aspirators/ Rotary Vacuum Pumps
- Ultrasonic Cleaners
- Hot-plate/ Magnetic Stirrer/ Magnetic Drive
- Sterilization - Autoclave
- Clean Benches

○ Environmental Testing Equipment

- Plant Growth Chambers
- Temperature & Humidity Chambers
- Low Temperature Chambers
- Incubators
- Low Temperature Incubators
- Incubated Shakers
- Shaking Water Baths

○ Industrial Reliability Testing Equipment

- Room Chambers
- Clean Chambers
- Aging Ovens/ Burn-in Chambers
- Thermal Shock Chambers
- Water Protection Testers
- Pipe Creep/ Burst Testers

* Custom-Designed Equipment

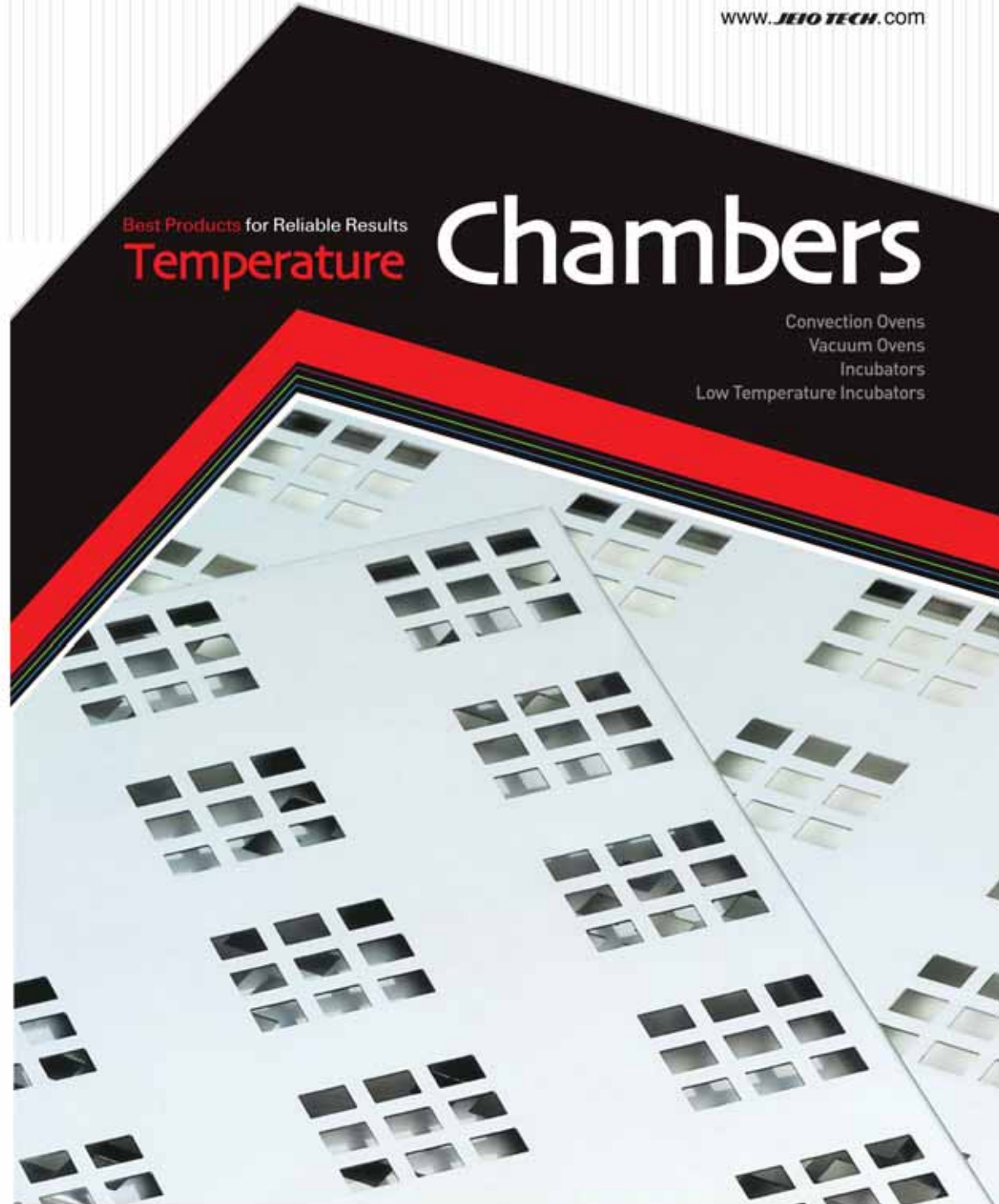
For further information and pricing, please contact:

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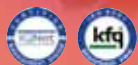
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Best Products for Reliable Results

Jeio Tech Co.,Ltd



Manufacturer

Our highly integrated engineering team has focused on special areas including electrical, mechanical, thermodynamics and refrigeration technology for 20 years. The world-best quality and customer satisfaction are **Lab Companion's** top priority.

CLS (Custom Logical Safe) Control System



A maximized safety control system with adjustable warning and safety functions. Much safer operation with independent safety device and circuit when electric and electronic system troubles are occurred even during the operation. (Patent no.0328729)

Safety functions

1) Self-protecting cut-off function:

- For over temperature, automated cut the power supply for heating element and controller orderly before the unit shuts down
- 2 separated over-current fuses for user safety

2) Time setting function for automated run/ off:

- Integrated time setting: Delayed ON/ OFF (from 1 min to 99 hr 59 min)
- Operating settable function: After a power interruption, select automated run or manual run

3) Door-open warning alarm (except for OV series):

- Intermittent tone and optical signal alarm, 5 min after automated cut-off
- Heating element and fan automatically stop when door opening to minimize heat loss and protect operator

Ideal construction for Temperature Chamber models

- 1) High quality 304 stainless steel inner chamber and dirt-repellent powder coating external surface (except for OV series)
- 2) Perfectly sealed door gasket minimizes heat loss and fully insulated chambers keep exterior at a safe temperature
- 3) Adjustable stainless steel and electro polished wire shelves for better air-flowing and easy cleaning

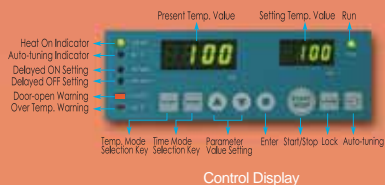
Optimum control performance

1) Professional control electronics and program control:

- Microprocessor PID temperature control with calibration and auto-tuning functions
- Frequently use 3 different temperatures memorable for convenient use
- Selectable measuring temperature in °C or °F

2) Applicable control display considering MMI (Man Machine Interface) network system:

- Very similar key arrangement throughout all products
- Splash-proof/ easy-to-clean keypads and clear LED displays
- A speed lock key prevents accidental resetting of parameters



Control software

'Lab Tracer' software and cable (2m/6.6ft) for RS-232 communication interface are provided free of charge!

- Display of temperature values and effective heating/ cooling capacity on PC
- Programming and recording of time parameter and individual temperature profile



Lab Tracer - Software Solutions

Ovens

General applications

Convection Ovens

- General chemical and biological laboratory works including heating, baking, drying, sterilization, conditioning, preheating, curing and aging studies
- Industrial tests including drying of plant tissue, glassware, textile, paper, and rubber; asphalt, stability and QC/ batch testing, and epoxy and plastic curing, life and exposure studies, precise moisture determination

Vacuum Ovens

- Ideal for general drying, curing, out-gassing solids and liquids, aging, plating, conditioning, desiccating, annealing, moisture testing, vacuum embedding
- Elevated temperature in reduced atmospheres or vacuum/ purge with nonflammable and inert atmospheres

Selection criteria

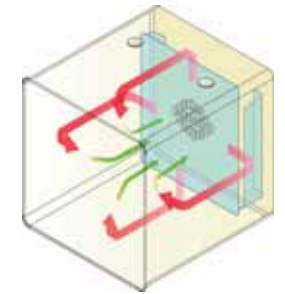
Ovens systems	Catalog pages:	4-5	6	7	8	9	10	11
Forced convection ovens		●						
Natural convection ovens			●					
Economy forced convection ovens				●				
Economy natural convection ovens					●			
Accessories for convection ovens						●		
Vacuum ovens							●	
Accessories for vacuum ovens								●
Working temperature ranges		4-5	6	7	8	9	10	11
Amb. +5 to 250°C (Amb. +9 to 482°F)							●	
Amb. +10 to 250°C (Amb. +18 to 482°F)		●						
Amb. +15 to 250°C (Amb. +27 to 482°F)			●					
Amb. +10 to 220°C (Amb. +18 to 428°F)				●				
Amb. +15 to 220°C (Amb. +27 to 428°F)					●			
RS-232 communication interface available		4-5	6	7	8	9	10	11
"Lab Tracer" software		●					●	

Intensive drying performance with a powerful air-flow

OF-G series has a quiet, powerful air-flow for high air exchange rates and short rise times that guarantee fast and intensive drying performance, especially for material with high moisture content.

Operating features

- 10°C above room temperature to 250°C
- Uniformity ±1°C at 100°C (based on various conditions)
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter/ Door opening alarm
- 3 different temperature values memorable
- Digital LED display (1°C resolution) using touch-sensitive keypads
- RS-232 interface available



Convection pattern of OF-G series

Constructional features

- Forced-air convection with a noiseless sirocco fan which ensures good mixing and strong dispersion
- Optimized sample monitoring with threefold tempered safety glass window (optional)
- Adjustable fan speed with analog dial to prevent powder sample blowing (optional)
- Dual-wall door opens to 180° and features double rack door handle
- Rounded inner chamber corners for easy cleaning and better air-flowing
- Corrosion-resistant incoloy sheath heating element and stainless steel interior
- Adjustable 2 top ventilation slides to control inner air, vapor circulation (dia 38mm/1.5")

Included Accessories • 2 wire shelves

Optional Accessories • Tempered viewing window
• Fan speed adjuster
• Perforated shelves

see page 9



(OF-22G with optional viewing window)

Specifications & Ordering Informations

Model		OF-02G	OF-12G	OF-22G
Chamber volume		60L (2,1cu ft)	102L (3,6cu ft)	151L (5,3cu ft)
Temperature	Range	Amb. +10°C to 250°C (Amb. +18° to 482°F)		
	Accuracy	±1°C at 100°C (±1,8°F at 212°F)		
	Uniformity	±1°C at 100°C (±1,8°F at 212°F)		
	Heat up time	100°C(212°F) within 15 min		
Dimensions	Interior (WxDxH)	400×360×420mm (15,7×14,2×16,5")	480×410×520mm (18,9×16,1×20,5")	550×460×600mm (22,0×18,0×23,6")
	Exterior (WxDxH)	577×642×760mm (22,7×25,3×30,0")	657×692×870mm (25,9×27,2×34,3")	727×742×974mm (28,7×29,2×38,3")
	Net weight	53kg (117,0lb)	63kg (139,0lb)	72,5kg (160,0lb)
Electrical Requirements (230V)		50/60Hz, 4,3A	50/60Hz, 6,0A	50/60Hz, 7,4A
Cat. No.		AAH12155K	AAH12165K	AAH12175K
Electrical Requirements (120V)		50/60Hz, 8,3A	50/60Hz, 10,8A	50/60Hz, 14,2A
Cat. No.		AAH12155U	AAH12166U	AAH12176U

* Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%

Go to JEIOTECH.com

Further information on Temperature Chamber products is readily available on our website.

* Continuing research and improvement may result in specification change for all products at any time.

Ideal for high temperature storage with user-friendly design

ON-G series is used for all sterilization and drying tasks that do not require high drying rates or special time requirements, ideal for drying applications requiring a gentle airflow.

Operating features

- 15°C above room temperature to 250°C
- Uniformity ±2°C at 100°C (based on various conditions)
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter/ Door opening alarm
- 3 different temperature values memorable
- Digital LED display (1°C resolution) using touch-sensitive keypads

Constructional features

- Gravity-flow convection with vertical airflow for uniform sample heating
- Optimized sample monitoring with threefold, tempered safety glass window (optional)
- Dual-wall door opens to 180° and features double rack door handle
- Rounded inner chamber corners for easy cleaning and better air-flowing
- Corrosion-resistant incoloy sheath heating element and stainless steel interior
- Adjustable 2 top ventilation slides to control inner air, vapor circulation (dia 38mm/1.5")



ON-22G with optional viewing window

- Included Accessories** - 2 wire shelves
- Optional Accessories** - Tempered viewing window [see page 9](#)
- Perforated shelves

Full features performance for general purpose lab ovens

Operating features

- 10°C above room temperature to 220°C
- Uniformity ±2°C at 100°C (based on various conditions)
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter/ Door opening alarm
- 3 different temperature values memorable
- Digital LED display (1°C resolution) using touch-sensitive keypads

Constructional features

- Forced-air convection with a fan for better uniformity and high drying performance
- Space saved larger capacities in a small footprint with convenient door handle
- Corrosion-resistant incoloy sheath heating element and stainless steel chamber
- Adjustable 2 top ventilation slides to control inner air, vapor circulation (dia 38mm/1.5")



OF-11E

- Included Accessories** - 2 wire shelves
- Optional Accessories** - Perforated shelves [see page 9](#)

Specifications & Ordering Informations



Model	ON-02G	ON-12G	ON-22G	
Chamber volume	52L (1.8cu ft)	91L (3.2cu ft)	135L (4.8cu ft)	
Temperature	Range	Amb. +15°C to 250°C (Amb. +27°F to 482°F)		
	Accuracy	±1°C at 100°C (±1.8°F at 212°F)		
	Uniformity	±2°C at 100°C (±3.6°F at 212°F)		
	Heat up time	100°C(212°F) within 45 min		
Dimensions	Interior (WxDxH)	400×360×365mm (15,7×14,2×14,4")	480×410×465mm (18,9×16,1×18,3")	610×460×485mm (24,0×18,0×19,0")
	Exterior (WxDxH)	577×542×760mm (22,7×21,3×30,0")	657×592×870mm (25,9×23,3×34,3")	785×642×897mm (30,9×25,3×35,3")
	Net weight	49kg (108,0lb)	59kg (130,0lb)	68kg (150,0lb)
	Electrical Requirements [230V]	50/60Hz, 4,3A	50/60Hz, 6,0A	50/60Hz, 7,4A
Cat. No.	AAH11135K	AAH11145K	AAH11155K	
Electrical Requirements [120V]	50/60Hz, 8,3A	50/60Hz, 10,8A	50/60Hz, 14,2A	
Cat. No.	AAH11136U	AAH11146U	AAH11156U	

* Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%

Specifications & Ordering Informations



Model	OF-01E	OF-11E	OF-21E	
Chamber volume	52L (1.8cu ft)	100L (3.5cu ft)	150L (5.3cu ft)	
Temperature	Range	Amb. +10°C to 220°C (Amb. +18°F to 428°F)		
	Accuracy	±1°C at 100°C (±1.8°F at 212°F)		
	Uniformity	±2°C at 100°C (±3.6°F at 212°F)		
	Heat up time	100°C(212°F) within 15 min		
Dimensions	Interior (WxDxH)	375×370×370mm (14,8×14,6×14,6")	455×430×510mm (18,0×17,0×20")	585×460×555mm (23,0×18,1×21,9")
	Exterior (WxDxH)	530×535×737mm (20,9×21,1×29,0")	610×595×877mm (24,0×23,4×34,5")	740×625×922mm (29,1×24,6×36,3")
	Net weight	36kg (79,4lb)	47kg (103,6lb)	59kg (130,0lb)
	Electrical Requirements [230V]	50/60Hz, 4,3A	50/60Hz, 6,0A	50/60Hz, 7,4A
Cat. No.	AAH14012K	AAH14022K	AAH14032K	
Electrical Requirements [120V]	50/60Hz, 8,3A	50/60Hz, 10,8A	50/60Hz, 14,2A	
Cat. No.	AAH14016U	AAH14026U	AAH14036U	

* Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%

Full features performance for general purpose lab ovens

Operating features

- 15°C above room temperature to 220°C
- Uniformity ±4°C at 100°C (based on various conditions)
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min – 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter/ Door opening alarm
- 3 different temperature values memorable
- Digital LED display (1°C resolution) using touch-sensitive keypads

Constructional features

- Gravity-flow convection, ideal in areas where a spill may occur
- Space saved larger capacities in a small footprint with convenient door handle
- Corrosion-resistant incoloy sheath heating element and stainless steel chamber
- Adjustable 2 top ventilation slides to control inner air, vapor circulation (dia 38mm/1.5")



- Included Accessories** - 2 wire shelves
- Optional Accessories** - Perforated shelves [see page 9](#)

Specifications & Ordering Informations

Model		ON-01E	ON-11E	ON-21E
Chamber volume		52L (1.8cu ft)	100L (3.5cu ft)	150L (5.3cu ft)
Temperature	Range	Amb. +15°C to 220°C (Amb. +27°F to 428°F)		
	Accuracy	±1°C at 100°C (±1.8°F at 212°F)		
	Uniformity	±4°C at 100°C (±7.2°F at 212°F)		
	Heat up time	100°C(212°F) within 45 min		
Dimensions	Interior (W×D×H)	375×370×370mm (14.8×14.6×14.6")	455×430×510mm (18.0×17.0×20.0")	585×460×555mm (23.0×18.1×21.9")
	Exterior (W×D×H)	530×535×737mm (20.9×21.1×29.0")	610×595×877mm (24.0×23.4×34.5")	740×625×922mm (29.1×24.6×36.3")
	Net weight	34kg (75.0lb)	46kg (101.4lb)	59kg (130.0lb)
Electrical Requirements (230V)		50/60Hz, 4.3A	50/60Hz, 6.0A	50/60Hz, 7.4A
Cat. No.		AAH15015K	AAH15025K	AAH15035K
Electrical Requirements (120V)		50/60Hz, 8.3A	50/60Hz, 10.8A	50/60Hz, 14.2A
Cat. No.		AAH15016U	AAH15026U	AAH15036U

* Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%

Wire shelves

Stainless steel and electro polished shelf system is removed easily without using tools for easy cleaning.

Perforated shelves

Stainless steel shelf system is removed easily without using tools for easy cleaning.

Tempered viewing windows

Optimized sample monitoring with threefold, tempered safety glass window. (Only for OF-G, ON-G series)

Fan speed adjuster

Adjustable inner air circulating speed which protects spreading out powder samples. (Only for OF-G series)



Wire Shelves



Perforated Shelves



Tempered Viewing Windows



Fan Speed Adjuster

Wire Shelves

Models	Description			Cat. No.
	Included	Maximum	W×L	
OF-02G	2	8	366×316mm [14.4×12.4"]	EDA8136
OF-12G	2	12	446×366mm [17.6×14.4"]	EDA8135
OF-22G	2	14	516×416mm [20.3×16.4"]	EDA8134
ON-02G	2	8	366×316mm [14.4×12.4"]	EDA8136
ON-12G	2	12	446×366mm [17.6×14.4"]	EDA8135
ON-22G	2	12	576×419mm [22.7×16.5"]	EDA8137
OF/ON-01E	2	10	366×316mm [14.4×12.4"]	EDA8136
OF/ON-11E	2	14	446×366mm [17.6×14.4"]	EDA8135
OF/ON-21E	2	15	576×419mm [22.7×16.5"]	EDA8137

Perforated Shelves

Models	Description			Cat. No.
	Maximum	W×L		
OF-02G	8	366×316mm [14.4×12.4"]		AAA12531
OF-12G	12	446×366mm [17.6×14.4"]		AAA12532
OF-22G	14	516×416mm [20.3×16.4"]		AAA12533
ON-02G	8	366×316mm [14.4×12.4"]		AAA12531
ON-12G	12	446×366mm [17.6×14.4"]		AAA12532
ON-22G	12	576×419mm [22.7×16.5"]		AAA12535
OF/ON-01E	10	366×310mm [14.4×12.2"]		AAA14501
OF/ON-11E	14	445×360mm [17.5×14.2"]		AAA14502
OF/ON-21E	15	575×410mm [22.6×16.1"]		AAA14503

Tempered Viewing Windows

Models	Description		Cat. No.
	Thickness/ W×L		
OF-02G	5/ 150×280mm [0.2/ 5.9×11.0"]		AAA12611
OF-12G	5/ 150×380mm [0.2/ 5.9×15.0"]		AAA12612
OF-22G	5/ 150×380mm [0.2/ 5.9×15.0"]		AAA12612
ON-02G	5/ 150×280mm [0.2/ 5.9×11.0"]		AAA12611
ON-12G	5/ 150×380mm [0.2/ 5.9×15.0"]		AAA12612
ON-22G	5/ 150×380mm [0.2/ 5.9×15.0"]		AAA12612

Fan Speed Adjuster

Models	Description	Cat. No.
OF-02G	Analog dial control	AAA12701
OF-12G	Analog dial control	
OF-22G	Analog dial control	

* In addition to providing standard accessories, we will manufacture customized accessories to meet your specific requirements. Contact us for details.

Optimal vacuum oven with wide temperature range for various test applications

For separating a solvent from a solution without high temperature drying on a phase of the substance containing humidity or other solvents. For drying solvent with high boiling point because vacuum condition makes boiling points be low to dry solvent easily.

Operating features

- 5°C above room temperature to 250°C
- Uniformity ±2°C at 100°C (based on various conditions)
- Vacuum range: 0 to 0.1MPa, analog gauge
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter
- 3 different temperature values memorable
- Digital LED display (1°C resolution) using touch-sensitive keypads
- RS-232 interface available

Constructional features

- Separately equipped vacuum and vent ports the narrow vent line to control vacuum rate and inert atmospheres slowly/ the wider vacuum line to produce a vacuum quickly
- Tight seal at a vacuum level by equipped door gasket and a push-button latch
- Block type heating elements heat the chamber evenly and good transmission by anodized aluminum interior, plate shelves
- Heat-tempered full view window permits continuous monitoring
- Excellent space efficiency and user-friendly all-in-one type operating panel
- Available very persistent Viton (Fluorine rubber) door gasket upon request (optional)



OV-11

- | | |
|-----------------------------|---|
| Included Accessories | • Anodized aluminum plate shelves, 3.0mm [0.12"] |
| Optional Accessories | • Safety cover
• Viton gasket
• Vacuum pumps and Oil mist trap
• Cold trap baths and U-type glass trap |
- see page 11

Specifications & Ordering Informations

Model		OV-11	OV-12
Chamber volume		28L (1.0cu ft)	65L (2.3cu ft)
Vacuum range		0 ~ 0.1MPa, Analog	
Nozzle size		Vacuum Ø10mm (0.4cu ft), Vent Ø10mm (0.4cu ft)	
Temperature	Range	Amb.+5°C to 250°C (Amb.+9°F to 482°F)	
	Accuracy	±2°C at 100°C (±3.6°F at 212°F)	
	Uniformity	±2°C at 100°C (±3.6°F at 212°F)	
Heat up time		100°C(212°F) within 70 min	100°C(212°F) within 85 min
Dimension	Interior (W×D×H)	302×305×302mm (11.9×12.0×11.9")	402×405×402mm (15.8×15.9×15.8")
	Exterior (W×D×H)	680×453×495mm (26.8×17.8×19.5")	780×557×595mm (30.7×21.9×23.4")
	Net weight	63kg (139.0lb)	103kg (227.0lb)
Electrical Requirements (230V)		50/60Hz, 5.3A	50/60Hz, 6.1A
Cat. No.		AAH13115K	AAH13125K
Electrical Requirements (120V)		50/60Hz, 10.0A	50/60Hz, 11.7A
Cat. No.		AAH13116U	AAH13126U

* Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%

Safety covers

Preventing door glass explosion for user safety with a netted steel frame and polycarbonate sheet covering.

Viton gaskets

Available very persistent viton (Fluorine rubber) door gasket upon request(Optional)

Model	Description	Cat. No.
OV-11	Safety Cover	AAA13601
OV-12	Safety Cover	AAA13602

Gaskets

OV-11	Silicone Gasket	FAA5146
	Viton (Fluorine rubber) Gasket	FAA5187
OV-12	Silicone Gasket	FAA5147
	Viton (Fluorine rubber) Gasket	FAA5188

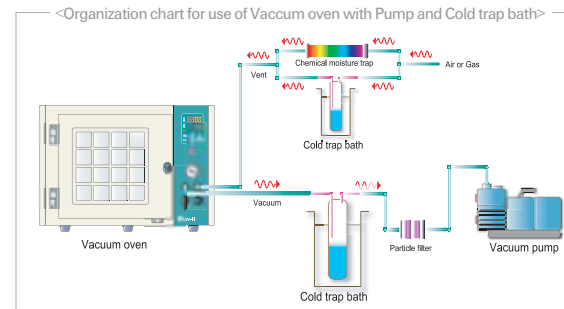
Related products for Vacuum Ovens

Vacuum pumps

Direct connecting oil sealed and backward flow preventive equipped rotary vacuum pumps, which are essentially used with vacuum ovens to get high-degree vacuuming condition. Oil mist trap to prevent oil inflowing is optional.

Cold trap baths

Preventing vacuum pumps in a condition of vacuuming as a cold trap to exclude water (vapor). Included 2 U-type glass traps.



Models	Electrical Requirements	Cat. No.
TRP-6	230V, 50/60Hz	BEH73005K
Related accessory	120V, 50/60Hz	BEH73006U
	Oil Mist Trap	BEH73501

Cold Trap Baths

CTB-10	230V, 60Hz	AAH62011K
	230V, 50Hz	AAH62012K
Related accessory	U-type Glass Trap	AAA62501

* In addition to providing standard accessories, we will manufacture customized accessories to meet your specific requirements, Contact us for details.



Safety Covers



Viton Gaskets



Vacuum Pumps



Cold Trap Baths



Incubators

General applications

General Incubators (refer to P. 13-14 IB-G, IB-E series)

-Cultivating thermophilic bacteria, germs and colon bacilli, microorganism, organism germs for life science, pharmacy, clinical science, chemistry and biology

Low Temperature Incubators:

High cooling performance by refrigerant (refer to P. 16-18 IL, IL-A series)

-Measuring COD/ BOD, cultivating low temperature microbes and plant cells, denaturalizing tests for food (Including above the general incubator applications)

Low Temperature Personal Incubators:

Peltier cooling device type (refer to P. 15 ILP series)

-Microorganism, organism germs for life science, pharmacy, clinical science, chemistry and biology

Selection criteria

Incubator systems	Catalog pages:	13	14	15	16-17	18	19
General Incubators		●					
Economy incubators			●				
Low temperature personal incubators - Peltier cooled				●			
Low temperature incubators - Forced convection					●		
Low temperature incubators - Natural convection						●	
Accessories for incubators							●

Working temperature ranges	13	14	15	16-17	18	19
Ambient +5 to 70°C (Amb.+ 9 to 158°F)	●					
Ambient +3 to 60°C (Amb.+5.4 to 140°F)		●				
+5 to 40°C (+41 to 104°F) at +25°C (+77°F)			●			
0 to 60°C (+32 to 140°F)				●		
+4 to 60°C (+39 to 140°F)					●	

RS-232 communication interface available	13	14	15	16-17	18	19
"Lab Tracer" software	●		●	●	●	

Exclusive gravity convection type incubators for all laboratory purposes

IB-G series are the most useful incubators for general purpose which manufactured equipped *air-jacketed convection* style for excellent uniformity without outside air disturbances.

Operating features

- 5°C above room temperature to 70°C
- Uniformity $\pm 0.4^\circ\text{C}$ at 40°C (based on various conditions)
- MicroprocessPID control/ Auto-tuning/ Calibration
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter/ Door opening alarm
- 3 different temperature values memorable
- Digital LED display (0.1°C resolution) using touch-sensitive keypads
- RS-232 interface available

Constructional features

- Fully insulated dual-wall door with rubber magnetic seal gasket keeps setting temperature
- Stackable 2 steps up with exclusively stacking kits (optional)
- Optimized sample inspection through a tempered inner glass door without affecting chamber temperature
- Separable shelves and rounded inner chamber corners for easy cleaning
- Highly durable incoloy heating element with fins guarantee better radiation
- Connectable other electric instruments to the inside of a chamber through a side cable port
- Adjustable port to control the amount of airflow in the chamber (dia 38mm/ 1.5")



IB-05G

Included Accessories - 2 wire shelves

Optional Accessories - Perforated shelves (see page 19)
- Stacking kits for stackable chambers

Specifications & Ordering Informations



Model		IB-05G	IB-15G	IB-25G
Chamber volume		60L (2.1cu ft)	102L (3.6cu ft)	151L (5.3cu ft)
Temperature	Range	Amb, +5°C to 70°C (Amb, +9°F to 158°F)		
	Accuracy	$\pm 0.1^\circ\text{C}$ at 40°C ($\pm 0.18^\circ\text{F}$ at 104°F)		
	Uniformity	$\pm 0.4^\circ\text{C}$ at 40°C ($\pm 0.72^\circ\text{F}$ at 104°F)		
Dimensions	Interior (WxDxH)	400×360×420mm (15.7×14.2×16.5")	480×410×520mm (18.9×16.1×20.5")	610×460×540mm (24.0×18.0×21.3")
	Exterior (WxDxH)	595×555×745mm (23.0×22.0×29.0")	675×605×855mm (27.0×24.0×34.0")	805×655×885mm (32.0×26.0×35.0")
	Inner door (WxH)	415×455mm (16.0×18.0")	495×555mm (19.0×22.0")	625×575mm (25.0×23.0")
	Net weight	45kg (99.0lb)	55kg (121.0lb)	62kg (136.0lb)
Electrical Requirements (230V)		50/60Hz, 1.3A	50/60Hz, 2.2A	50/60Hz, 3.1A
Cat. No.		AAH21162K	AAH21182K	AAH21182K
Electrical Requirements (120V)		50/60Hz, 2.8A	50/60Hz, 4.6A	50/60Hz, 6.4A
Cat. No.		AAH21166U	AAH2116U	AAH21186U

* Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%

Space saving design and dependable, trouble-free heating system

IB-E series are manufactured with film type heating elements on the five sides of inner chamber that is perfectly safe from any mechanical vibration and noise, in addition to allow compact footprint and prevents frequent mechanical trouble.

Operating features

- 3°C above room temperature to 60°C
- Uniformity $\pm 0.6^\circ\text{C}$ for IB-11E/ 21E, $\pm 1^\circ\text{C}$ for IB-01E at 40°C (based on various conditions)
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter/ Door opening alarm
- 3 different temperature values memorable
- Digital LED display (0.1°C resolution) using touch-sensitive keypads

Constructional features

- Completely safe anti-vibration design is helpful to cultivate yeast and not to disturb nearby use of other instruments like a microscope
- Space saved dimension, lightweight and compact design with fully sealed gasket
- Stackable 2 steps up with exclusively stacking kits (optional)
- Optimized sample inspection through tempered inner glass door without affecting chamber temperature
- Separable shelves and rounded inner chamber corners for easy cleaning

※ IB-E series will have been certified for CE during the first half of 2007



IB-01E

- Included Accessories**
- 2 wire shelves
- Optional Accessories**
- Perforated shelves
 - Stacking kits for stackable chambers

Specifications & Ordering Informations

Model		IB-01E	IB-11E	IB-21E
Chamber volume		65L (2.3cu ft)	150L (5.3cu ft)	205L (7.2cu ft)
Temperature		Range: Amb, +3°C to 60°C (Amb, +5.4°F to 140°F)		
		Accuracy: $\pm 0.1^\circ\text{C}$ at 40°C ($\pm 0.18^\circ\text{F}$ at 104°F)		
		Uniformity: $\pm 1^\circ\text{C}$ at 40°C ($\pm 1.8^\circ\text{F}$ at 104°F)		
		$\pm 0.6^\circ\text{C}$ at 40°C ($\pm 1.08^\circ\text{F}$ at 104°F)		
Dimensions	Interior (WxDxH)	423×355×445mm (16.7×14.0×17.5")	500×515×585mm (19.7×20.3×23.0")	632×515×630mm (24.9×20.3×24.8")
	Exterior (WxDxH)	533×475×725mm (21.0×18.7×28.5")	595×630×865mm (23.5×24.8×34.0")	740×630×910mm (29.1×24.8×35.8")
	Inner door (WxH)	433×470mm (17.0×18.5")	513×610mm (20.0×24.0")	643×655mm (25.3×25.8")
	Net weight	33kg (72.8lb) – 230V 37kg (81.6lb) – 120V	47kg (103.6lb)	57kg (125.7lb)
Electrical Requirements (230V)		50/60Hz, 1.1A	50/60Hz, 2.2A	50/60Hz, 2.4A
Cat. No.		AAH26015K	AAH26025K	AAH26035K
Electrical Requirements (120V)		50/60Hz, 2.1A	50/60Hz, 4.2A	50/60Hz, 4.6A
Cat. No.		AAH26016U	AAH26026U	AAH26036U

※ Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%

Compact, lightweight with exclusive incubating performance for valuable tests

ILP series has a thermal electric module-Peltier cooled type which is very quiet, anti-vibration and small generation of heat to just fit a bench-top personal incubator!

Operating features

- 5°C to 40°C at room temperature 25°C
- Uniformity $\pm 0.5^\circ\text{C}$ at 20°C (based on various conditions)
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter
- 3 different temperature values memorable
- 9 steps of temperature profiles programmable and repeat up to 200 cycles
- Adjustable fan speed within 3 steps and defrosting time/ period control
- Digital LED display (0.1°C resolution) using touch-sensitive keypads
- RS-232 interface available

Constructional features

- Tempered inner glass door is equipped for all models! (14L/ 48L)
- Maximum 2 X 1000mL Erlenmeyer flasks can be stored in the smallest chamber (14L)
- Environment-friendly insulation material-EPDM used for safe and convenient operating (ASTM-C534)
- Space-saving compact size on bench-top and can simply be stacked up



ILP-02 stackable chambers

- Included Accessories**
- 1 wire shelf for ILP-02
 - 2 wire shelves for ILP-12
- Optional Accessories**
- Perforated shelves [see page 19](#)

Specifications & Ordering Informations

Model		ILP-02	ILP-12	
Chamber volume		14L (0.5cu ft)	48L (1.7cu ft)	
Cooling device		Peltier device 48W X 2ea		
		Peltier device 48W X 4ea		
Temperature		Range: +5°C to 40°C (+41°F to 104°F) at room temperature 25°C(77°F)		
		Accuracy: $\pm 0.1^\circ\text{C}$ at 20°C ($\pm 0.18^\circ\text{F}$ at 68°F)		
		Uniformity: $\pm 0.5^\circ\text{C}$ at 20°C ($\pm 0.9^\circ\text{F}$ at 68°F)		
Dimensions	Interior (WxDxH)	315×200×230mm (12.4×7.9×9.1")		334×334×430mm (13.1×13.1×17.0")
	Exterior (WxDxH)	430×495×400mm (17.0×19.4×15.7")		430×665×620mm (17.0×26.2×24.4")
	Inner door (W x H)	330×248mm (13.0×9.8")		337×433mm (13.3×17.0")
	Net weight	27.5kg (60.6lb)		49kg (108.0lb)
Electrical Requirements (230V)		60Hz, 1.8A	50Hz, 1.8A	50Hz, 3.5A
Cat. No.		AAH24031K	AAH24032K	AAH24041K AAH24042K
Electrical Requirements (120V)		60Hz, 3.4A	60Hz, 6.7A	
Cat. No.		AAH24033U	AAH24043U	

※ Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%



Incubators

Low Temperature Incubators

Incubators

Low Temperature Incubators - Forced Convection



Intensive low temperature incubating performance with compressor cooling system

IL series has an excellent HBP type compressor cooling system which is noiseless and reduces water-evaporation within the chamber.



〈IL-21 / IL-21A〉

Operating features

- 0°C to 60°C
- Uniformity $\pm 0.5^{\circ}\text{C}$ at 20°C (based on various conditions)
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter/ Door opening alarm
- 3 different temperature values memorable
- 9 steps of temperature profiles programmable and repeat up to 200 cycles
- Adjustable fan speed within 3 steps and defrosting time/ period control
- Digital LED display (0.1°C resolution) using touch-sensitive keypads
- RS-232 interface available

Constructional features

- Forced-air convection with an optimal cross flow type fan for excellent uniformity
- Enough capacity - large size of chambers with maximum 244L (8.6cu ft)
- One electrical outlet with safety cover allows use of other electric instruments in the chamber
- Optimized sample inspection through tempered inner glass door without affecting chamber temperature
- Separable shelves and rounded inner chamber corners for easy cleaning



IL-21

- Included Accessories**
- 2 wire shelves for IL-11
 - 3 wire shelves for IL-21

- Optional Accessories**
- Perforated shelves [see page 19](#)

Specifications & Ordering Informations



Model		IL-11		IL-21	
Chamber volume		150L (5.3cu ft)		244L (8.6cu ft)	
Refrigerator		1/8Hp (HBP)		1/6Hp (HBP)	
Temperature	Range	0°C to 60°C (+32°F to 140°F)			
	Accuracy	$\pm 0.1^{\circ}\text{C}$ at 20°C ($\pm 0.18^{\circ}\text{F}$ at 68°F)			
	Uniformity	$\pm 0.5^{\circ}\text{C}$ at 20°C ($\pm 0.9^{\circ}\text{F}$ at 68°F)			
Dimensions	Interior (W×D×H)	600×500×500mm (24.0×20.0×20.0")		500×520×940mm (20.0×20.5×37.0")	
	Exterior (W×D×H)	735×742×1010mm (28.9×29.0×40.0")		635×740×1630mm (25.0×29.0×64.0")	
	Inner door (W×H)	615×530mm (24.0×20.9")		515×965mm (20.3×38.0")	
	Net weight	100kg (220.0lb)		135kg (297.0lb)	
Electrical Requirements (230V)		60Hz, 4.5A		50Hz, 4.5A	
Cat. No.		AAH22041K AAH22042K		AAH22051K AAH22052K	
Electrical Requirements (120V)		60Hz, 8.3A		60Hz, 10.6A	
Cat. No.		AAH22046U		AAH22056U	

* Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%

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Further information on Temperature Chamber products is readily available on our website.

* Continuing research and improvement may result in specification change for all products at any time.



Incubators

Low Temperature Incubators - Natural Convection

Exclusive air-jacketed convection type incubators prevent the inner chamber with excellent uniformity from outside air disturbance

IL-A series is perfectly safe from water-evaporations by evaporator of cooling system or blower, especially ideal for incubating test of an easily drying medium.

Operating features

- 4°C to 60°C
- Uniformity ±0.5°C at 20°C (based on various conditions)
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter/ Door opening alarm
- 3 different temperature values memorable
- 9 steps of temperature profiles programmable and repeat up to 200 cycles
- Adjustable fan speed within 3 steps and defrosting time/ period control
- Digital LED display (0.1°C resolution) using touch-sensitive keypads
- RS-232 interface available

Constructional features

- Air-jacketed type: outer heat exchange and inner gravity convection independently
- Enough capacity - large size of chambers with maximum 254L (9cu ft)
- One electrical outlet with safety cover allows use of other electric instruments in the chamber
- Optimized sample inspection through tempered inner glass door without affecting chamber temperature
- Separable shelves and rounded inner chamber corners for easy cleaning



IL-11A

- Included Accessories**
- 2 wire shelves for IL-11A
 - 3 wire shelves for IL-21A
- Optional Accessories**
- Perforated shelves [see page 19](#)

Specifications & Ordering Informations

Model	IL-11A		IL-21A	
Chamber volume	162L (5.7cu ft)		254L (9.0cu ft)	
Refrigerator	1/4Hp (HBP)		1/3Hp (HBP)	
Temperature	Range	+4°C to 60°C (+39.2°F to 140°F)		
	Accuracy	±0.1°C at 20°C (±0.18°F at 68°F)		
	Uniformity	±0.5°C at 20°C (±0.9°F at 68°F)		
Dimensions	Interior (W×D×H)	600×540×500mm (24.0×21.3×20.0")	500×540×940mm (20.0×21.3×37.0")	
	Exterior (W×D×H)	770×772×1060mm (30.0×30.0×42.0")	670×760×1680mm (26.0×30.0×66.0")	
	Inner door (W×H)	615×530mm (24.0×20.9")	515×970mm (20.0×38.0")	
	Net weight	108kg (238.0lb)	145kg (319.7lb)	
Electrical Requirements (230V)	60Hz, 6.6A	50Hz, 6.6A	60Hz, 8.0A	50Hz, 8.0A
Cat. No.	AAH22061K	AAH22062K	AAH22071K	AAH22072K
Electrical Requirements (120V)	60Hz, 10.8A		60Hz, 13.0A	
Cat. No.	AAH22063U		AAH22073U	

* Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%

Accessories & Options for Incubators

Wire shelves

Stainless steel and electro polished shelf system is removed easily without using tools for easy cleaning.

Perforated shelves

Stainless steel shelf system is removed easily without using tools for easy cleaning.

Stacking Kits

Stackable 2 steps up to maximize space efficiency with exclusively stacking Kits. (Only for IB-G, IB-E series)



Wire Shelves



Perforated Shelves

Wire Shelves

Model	Description			Cat. No.
	Included	Maximum	W × L	
IB-05G	2	8	366×316mm (14.4×12.4)	EDA8136
IB-15G	2	12	446×366mm (17.6×14.4)	EDA8135
IB-25G	2	12	576×419mm (22.7×16.5)	EDA8137
IB-01E	2	11	366×316mm (14.4×12.4)	EDA8136
IB-11E	2	14	466×490mm (17.6×19.3)	EDA8220
IB-21E	2	15	566×466mm (22.3×17.6)	EDA8219
ILP-02	1	6	195×310mm (7.7×12.2)	EDA8223
ILP-12	2	11	305×299mm (12.0×11.8)	EDA8221
IL-11/ 11A	2	12	566×466mm (22.3×17.6)	EDA8219
IL-21/ 21A	3	26	466×490mm (17.6×19.3)	EDA8220

Perforated Shelves

Model	Description		Cat. No.
	Maximum	W × L	
IB-05G	8	366×316mm (14.4×12.4)	AAA12531
IB-15G	12	446×366mm (17.6×14.4)	AAA12532
IB-25G	12	576×419mm (22.7×16.5)	AAA12535
IB-01E	11	366×316mm (14.4×12.4)	AAA12531
IB-11E	14	466×490mm (17.6×19.3)	AAA22522
IB-21E	15	566×466mm (22.3×17.6)	AAA22521
ILP-02	6	195×310mm (7.7×12.2)	AAA24501
ILP-12	11	305×299mm (12.0×11.8)	AAA24502
IL-11/ 11A	12	566×466mm (22.3×17.6)	AAA22521
IL-21/ 21A	26	466×490mm (17.6×19.3)	AAA22522

Stacking Kits

Model	Description	Cat. No.
IB-05G	Stacking kits for stackable chambers	AAA21521
IB-15G	Stacking kits for stackable chambers	AAA21522
IB-25G	Stacking kits for stackable chambers	AAA21523
IB-01E	Stacking kits for stackable chambers	AAA26501
IB-11E	Stacking kits for stackable chambers	AAA26502
IB-21E	Stacking kits for stackable chambers	AAA26503

* In addition to providing standard accessories, we will manufacture customized accessories to meet your specific requirements. Contact us for details.



Stackable Chamber