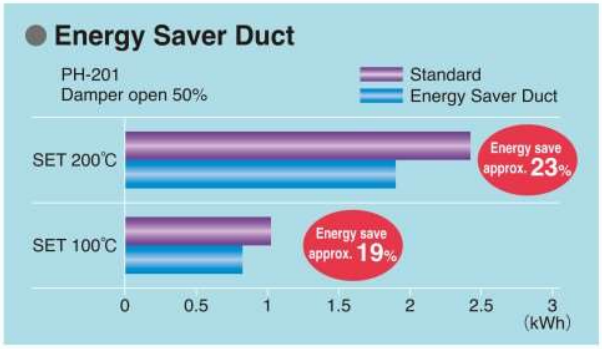
PH(H)

+ 200℃ / + 300℃
TEMPERATURE CHAMBER (Horizontal type)

*N_2 gas injector unit is option.

Test area



High performance chamber

A temperature-indication controller with an advanced PID operation, and an originally developed chamber configuration provide unmatched oven performance. Temperature uniformity, temperature constancy, temperature heat-up rate, and temperature recovery time are performed with the upmost reliability.

Safety measures

Triple safety mechanisms are employed for excessive overheating.

Wide model selection

We provide a total of 16 ovens with combination of temperature range, capacity, and instrumentation.

Energy Saver Duct (Option)

Energy saving approximately 20% by heat recycling from exhaust through the duct to maintain temperature while damper opens.

SPECIFICATIONS

Model		PH-102	PH-202	PH-302	PH-402	PHH-102	PHH-202	PHH-302	PHH-402
System		Forced hot-air circulation / ventilation system							
Performance *1	Temperature range *2	(Ambient temp. +20)℃ to +200℃				(Ambient temp. +20)℃) to +300℃			
	Temperature fluctuation *2	±0.1℃ at +100℃ ±0.2℃ at +200℃		±0.2℃ at +100℃ ±0.4℃ at +200℃		±0.1℃ at +100℃ ±0.2℃ at +200℃ +300℃		±0.2℃ at +100℃ ±0.4℃ at +200℃ ±0.6℃ at +300℃	
	Temperature uniformity *2	±0.5℃ at +100℃ ±1.5℃ at +200℃		±1.0℃ at +100℃ ±2.0℃ at +200℃		±0.5℃ at +100℃ ±1.5℃ at +200℃ ±2.5℃ at +300℃		±1.0℃ at +100℃ ±2.0℃ at +200℃ ±3.0℃ at +300℃	
	Temperature heat-up time	Ambient temp. to +200℃				Ambient temp. to +300℃			
		within 40 min.			within 60 min.	within 60 min.			within 70 min.
Construction	Exterior material	Cold rolled rust-proof steel plate, Melamine resin coating							
	Interior material	Stainless steel plate							
	Insulation material	Glass wool							
	Heater	Iron chrome strip wire heater							
	Air circulator	Stainless steel propeller fan							
	Damper	Circulation/ Ventilation (manual switching)							
Fittings		Power cable (approx 2m from chamber), Specimen power supply control terminals (relay contact is opened/stop during malfunction. Voltage capacity 250V AC 3A)							
Inside dimensions W×H×Dmm (in)		450×450×450 (17.7×17.7×17.7)	600×600×600 (23.6×23.6×23.6)	800×800×800 (31.5×31.5×31.5)	1000×1000×1000 (39.4×39.4×39.4)	450×450×450 (17.7×17.7×17.7)	600×600×600 (23.6×23.6×23.6)	800×800×800 (31.5×31.5×31.5)	1000×1000×1000 (39.4×39.4×39.4)
Outside dimensions *3 W×H×Dmm (in)		1040×820×635 (41×32.3×25)	1190×970×785 (46.9×38.2×30.9)	1500×1210×1065 (59.1×47.6×41.9)	1730×1480×1275 (68.1×58.3×50.2)	1040×820×635 (41×32.3×25)	1190×970×785 (46.9×38.2×30.9)	1500×1210×1065 (59.1×47.6×41.9)	1730×1480×1275 (68.1×58.3×50.2)
Capacity (L)		91	216	512	1000	91	216	512	1000
Weight (kg)		95	130	240	430	95	130	240	430
Allowable ambient conditions		Temperature: 0 to +40℃ Humidity: to 75%rh							
Utility requirements	Power supply (Voltage fluctuation: ±10% of rated value)	200 / 220 / 230 / 240V AC 1φ 50/60Hz		200 / 220V AC 3φ 3W 50/60Hz, 380V AC 3φ 4W 50Hz		200 / 220 / 230 / 240V AC 1φ 50/60Hz		200 / 220V AC 3φ 3W 50/60Hz, 380V AC 3φ 4W 50Hz	
	Max. power consumption (kVA)	2.0	2.7	5.0	6.5	2.7	3.8	6.5	9.5

*1 Values assume circulatory operation with no specimens at an ambient temperature of +23℃±5.
*2 Conforms to Japan Testing Machinery standard K05:2000.
*3 Excluding protrusions.

Shelf pitch, quantity and load resistance

Model	Shelf pitch	Shelves	Shelf load resistance *1 *2	Chamber total load resistance *1
PH(H)-102	50mm	8	20kg	50kg
PH(H)-202		11		
PH(H)-302	80mm	9		60kg
PH(H)-402	140mm	6	40kg	100kg

*1 Including shelf weight
*2 Equally distributed load

ACCESSORIES

- Shelf (stainless steel wire for type102・202) 2
  (stainless steel punched plate for type 302・402) 2
- Shelf bracket (stainless steel) ..... 2 sets (4)
- Cartridge fuse 2
- User's manual ..... 1 set

SAFETY DEVICES

- Leakage breaker
- Electrical compartment door switch
- Door switch (type 402 only)
- Thermal fuse
- Temperature switch for air circulator (except type 402)
- Air circulator overload relay (type 402 only)
- Heater wiring breaker
- Reverse-prevention relay
- Upper and lower temperature limit alarm (built inside temperature controller)
- Overheat protector
- Cartridge fuse
- Specimen power supply control terminal