

Constant Climate Chamber 'HPP'eco Series



CONSTANT CLIMATE CHAMBERS HPPeco are simply unbeatable in energy efficiency. Furthermore, as constant climate chambers HPPeco have a very long, almost maintenance free service life, they are perfectly suited for stability tests, storage in controlled environment and conditioning. The high precision temperature control from 0°C to +70°C as well as active humidification and dehumidification from 10 % to 90 % rh were particularly adapted to the ICH guidelines, option Q1A, for stability tests.

Standard Equipment

- Interior:** Stainless steel, material 1.4301 (ASTM 304), deep-drawn
- Housing:** Textured stainless steel, rear zinc-plated steel, intuitively operated TwinDISPLAY (TFT colour display) with touchscreen
- Double Doors:** Outside stainless steel, fully insulated, inside glass (size 1400/2200 stainless steel doors with glass sector, fully heated inner glass panes integrated in the full-sight glass door with 2-point locking – compression door lock). Sizes 750, 1060 and 1400 two leaves, size 2200 three leaves
- Connection:** Mains cable with plug (German type)
- Installation:** 4 feet; size 410, 750 and 1060 mounted on lockable castors, 1400 and 2200 mounted on height-adjustable and lockable castors

Interfaces:



Salient Features

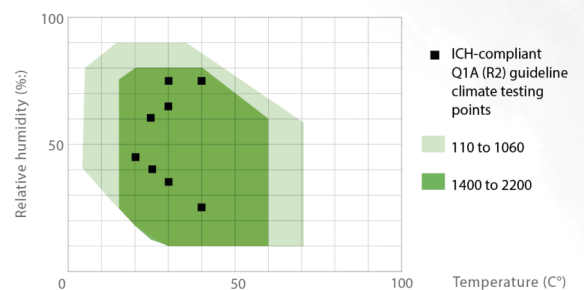
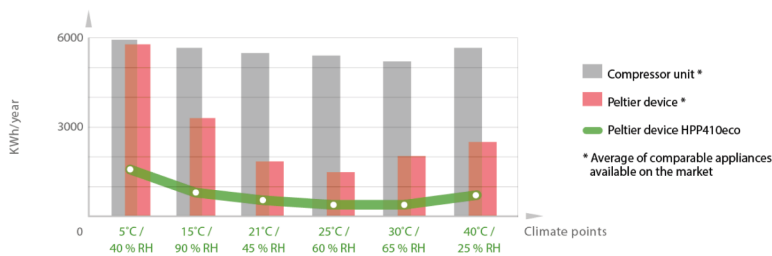
- Stainless steel interior and exterior
- Inner glass door as standard
- Extremely quiet and vibration free operation
- Reduction in energy consumption up to 90%
- Stable and precise long term test
- Perfect controllability of temperature and humidity
- Energy saving heating / cooling using Peltier technology
- Internal data logger with over 10 years storage
- AtmoCONTROL software TwinDISPLAY
- Standard works calibration certificate at +10°C, +37°C as well as 60 % rh at +30°C measuring point chamber centre



Constant Climate Chamber HPPeco (108 to 2140 Litres)

Model sizes/Description			110	260	410	750	1060	1400	2200	
Stainless steel interior	Volume	approx. l	108	256	384	749	1060	1360	2140	
	Width	(A) mm	560	640		1040		1250	1972	
	Height	(B) mm	480	800		1200		1450		
	Depth (less 10 mm for fan – Peltier)	(C) mm	400	500		600	850	750		
	Max. number of grids/shelves	number	5	9		14		28	42	
	Max. loading per grid/shelf	kg	20		30		20		30	
	Max. loading of chamber	kg	150	200				250	330	
	Max. loading per slide-in drip tray	kg	3	4		8		-		
Textured stainless steel exterior	Width	(D) mm	745	824		1224		1435	2157	
	Height (sizes 410, 750, 1060, 1400 and 2200 with castors)	(E) mm	864	1183		1720		1913		
	Depth (without door handle), door handle + 56 mm	(F) mm	656	756		856	1107	1007		
Standard equipment	Stainless steel grids, electropolished	number	2				4	6		
	Water tank including connection hose (sizes 110 - 750: 2.5 litres, sizes 1060/1400/2200: 10 litres)				●					
	Standard works calibration certificate (measuring point chamber center)		+10 °C, 37 °C and 30 °C/60 % rh		+25 °C/40 % rh and +40 °C/75 % rh					
Temperature	Working temperature range without light, without humidity	°C	0 (at least 20 below ambient temperature) to +70				+15 (at least 10 below ambient temperature) to +60			
	Working temperature range without light, with humidity	°C	+5 (at least 20 below ambient temperature) to +70				+15 (at least 10 below ambient temperature) to +60			
	Working temperature range with light, without or with humidity	°C	+15 to +40				-			
	Setting temperature range without light, with humidity	°C	+5 to +70				+15 to +60			
	Setting temperature range with light, with humidity	°C	+5 to +70				-			
	Setting temperature range with light, without humidity	°C	0 to +70				-			
	Setting temperature range without light, without humidity	°C	0 to +70				+15 to +60			
Humidity	Setting range humidity with light	% rh	10 to 85				-			
	Setting range humidity without light	% rh	10 to 90				10 to 80			
	Setting accuracy	% rh	0.5							
Further data	Electrical load at 230 V, 50/60 Hz	approx. W	650	920	1300	1500	1600	3100	3500	
	Electrical load at 115 V, 50/60 Hz	approx. W	650	920	1300	1500	1600	-		
	Peltier elements in the rear	number	2	3	4	6		10		
Packing data	Net weight	approx. kg	77	122	160	208	260	450	493	
	Gross weight (packed in carton)	approx. kg	102	173	213	279	424	639	730	
	Width	approx. mm	830	930		1330	1370	1560	2300	
	Height	approx. mm	1050	1380	1930	1910	1970	2200		
	Depth	approx. mm	800	930		1050	1300	1190		
Order No. Constant Climate Chambers			HPP110eco	HPP260eco	HPP410eco	HPP750eco	HPP1060eco	HPP1400eco	HPP2200eco	

Energy consumption during ICH-compliant Q1A (R2) guideline long-term tests (12 months)



Accessories

1. Stainless steel grid and shelf
2. Reinforced stainless steel grid and shelf

Options

- Entry port 23 mm, 40 mm
- Software conforming to FDA AtmoCONTROL
- LED light module : cold-white light (6,500 K), warm white light (2700K) or cold-white plus warm-white light(HPP110-HPP750)

product range

- Ovens
- Vacuum Ovens
- Constant Climate Chambers
- Water & Oil Baths
- Incubators
- Peltier Cooled Incubators
- Humidity Chambers
- Clean Room Drying Ovens
- Sterilisers
- CO₂ Incubators
- Stability Test Chambers
- Pass Through Ovens

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