



Peltier-cooled incubator IPP with SingleDISPLAY
 Peltier-cooled incubator IPPplus with TwinDISPLAY
 AtmoCONTROL software

Model sizes: 30 / 55 / 110 / 260 / 750
 0 °C to +70 °C

PELTIER-COOLED INCUBATOR IPP Heating and cooling seamlessly with one system thanks to Peltier technology. In this respect, cooled incubators IPP not only contribute to climate protection, but it also achieves an additional decrease in operating costs of up 90 % compared to compressor technology. This perfect development from the environmentally friendly and energy-saving heating/cooling technology by Memmert convinces by outstanding control precision and extremely small fluctuations.



Extremely quiet and vibration-free

The fact that no compressor is required saves space and brings peace and quiet to the laboratory. As Peltier-cooled incubators IPP are almost vibration-free, they can also be applied in entomology. If defined humidity is also required, an alternative would be the constant climate chamber HPP, which is also equipped with Peltier technology.



No condensation in the interior chamber

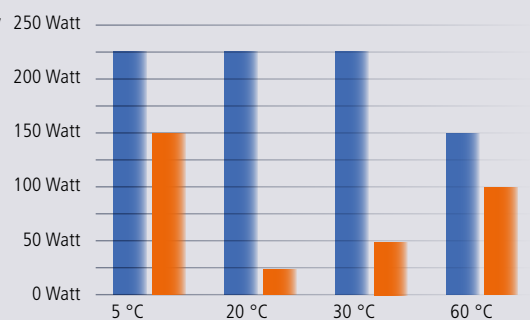
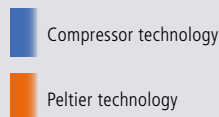
Due to the closed Peltier cooling system, no outside air is exchanged. Physically derived, unavoidable formation of condensation during the cooling process does not take place in the interior chamber but on the outside heat sink. In addition, the in the Peltier elements integrated fans ensure a rapid transport of energy as well as an optimal temperature distribution.

Energy-saving heating/cooling technology combination

In contrast to compressor systems, Peltier technology is particularly economical at temperatures close to the ambient temperature, since energy is only required during heating or cooling. Therefore heating and cooling function are particularly precisely adjusted to each other.

Comparison compressor technology and Peltier technology

Reduction in energy consumption up to 90 %



PELTIER-COOLED INCUBATORS IPP

according to DIN 12880:2007-05, EN 61010-1 (IEC 61010-1), 61010-2-010

Standard units are safety-approved and bear the test marks:

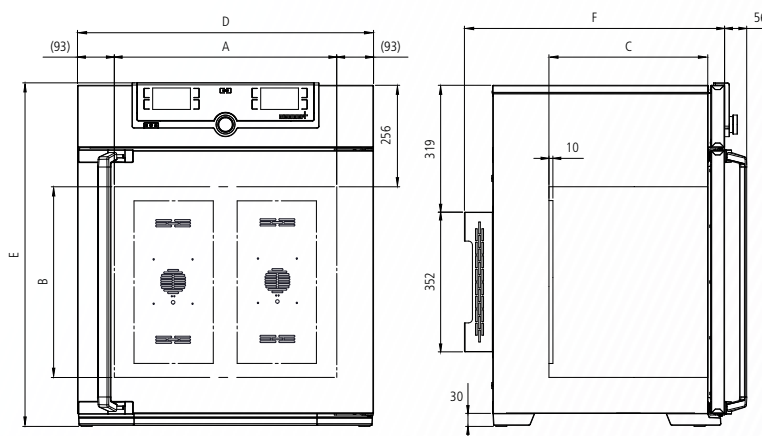


Standard equipment

- Interior: Stainless steel, material 1.4301 (ASTM 304), deep-drawn
- Internals: Stainless steel grids, electropolished (sizes 30 and 55: 1, sizes 110 to 750: 2)
- Housing: Textured stainless steel, rear zinc-plated steel, intuitively operated SingleDISPLAY or TwinDISPLAY (TFT colour display) with touchscreen
- Double doors: Outside stainless steel, fully insulated, inside glass (size 750 two-leaves)
- Connection: Mains cable with plug (German type)
- Installation: 4 feet; size 750 mounted on lockable castors
- Interfaces:



(only TwinDISPLAY)



Number of Peltier elements in the rear:
 Sizes 30 to 55: 1
 Size 110: 2
 Size 260: 3
 Size 750: 6

Model sizes/Description			30	55	110	260	750
Stainless steel interior	Volume	approx. l	32	53	108	256	749
	Width	(A) mm	400	400	560	640	1040
	Height	(B) mm	320	400	480	800	1200
	Depth (less 10 mm for fan – Peltier)	(C) mm	250	330	400	500	600
	Stainless steel grids, electropolished (standard equipment)	number	1		2		
	Max. number of grids/shelves	number	3	4	5	9	14
	Max. loading per grid/shelf	kg	20				30
	Max. loading of chamber	kg	60	80	150	200	
Textured stainless steel exterior	Width	(D) mm	585	585	745	824	1224
	Height (size 750 with castors)	(E) mm	704	784	864	1183	1726
	Depth (without door handle), door handle + 56 mm	(F) mm	524	604	674	774	874
Further data	Electrical load at 230/115 V, 50/60 Hz	approx. W	140	275	550	820	1100
	Working-temperature range without light	°C	0 (at least 20 below ambient temperature) to +70				
	Working-temperature range with light	°C					
	Setting temperature range	°C	0 to +70				
Packing data	Setting accuracy	°C	0.1				
	Net weight	approx. kg	40	52	78	114	230
	Gross weight (packed in carton)	approx. kg	56	71	103	165	301
	Width	approx. cm	66	73	83	93	133
	Height	approx. cm	89	95	105	138	191
	Depth	approx. cm	65	67	80	93	105

Order No. Peltier-Cooled Incubators

IPP = Peltier-Cooled Incubators

plus = Model with TwinDISPLAY

IPP30	IPP55	IPP110	IPP260	IPP750
IPP30plus	IPP55plus	IPP110plus	IPP260plus	IPP750plus

Options	30	55	110	260	750
Voltage 115 V, 50/60 Hz	X2				
Chamber modification for the application of reinforced perforated stainless steel shelves or stainless steel grids (bearing rails mounted in the working chamber) – includes replacement of 2 standard grids by 2 reinforced grids	–				K1
Light module cold white 6,500 K: light strips arranged on the side walls of the interior, 10 strips for model 110, 14 for model 260/750, programme-controlled dimming from 0 to 100 % (in 1 % steps), ramp programming in combination with temperature (only with TwinDISPLAY)	–	T7			
Light module cold white 6,500 K + warm white 2,700 K: LED light strips – 10 strips for model 110, 14 for models 260/750 – (5 resp. 7 alternating cold white light strips and 5 resp. 7 warm white light strips) on the side walls of the interior, programme-controlled dimming from 0 to 100 % (in 1 % steps), ramp programming in combination with temperature (only with TwinDISPLAY)	–	T8			
Light module warm white 2,700 K: light strips arranged on the side walls of the interior, 10 strips for model 110, 14 for model 260/750, programme-controlled dimming from 0 to 100 % (in 1 % steps), ramp programming in combination with temperature (only with TwinDISPLAY)	–	T9			
Interior socket, ampacity 230 V/2.2 A, can be switched off with the On/Off switch, cannot be switched individually, moisture tight IP68	R3				
Entry port, 23 mm clear diameter, for introducing connections, can be closed by flap, standard positions (F0 and F2 not for model size 260 with light module; F0 – F3 not for model size 110 with light module)	left centre/centre left centre top right centre/centre right centre top		F0 F1 F2 F3		
Entry port, 23 mm clear diameter for introducing connections, can be closed by flap (please, state location)	left right rear		F4 F5 F6		
Entry port, 14 mm clear diameter, can be closed by flap, in special positions in the back wall (please, state location)	D6				
Entry port, 38 mm clear diameter, can be closed by flap, in special positions in the back wall (please, state location)	F7				
4 – 20 mA current loop interface (-10 to +80 °C ± 4 – 20 mA)	Temperature controller, actual value Temperature of a Pt100 sensor positioned flexibly in chamber for external temperature monitoring (max. 1 SingleDISPLAY, max. 3 TwinDISPLAY)		V3 V6		
Works calibration certificate for 3 temperatures: +5 °C, +37 °C, +60 °C Standard works calibration certificate (measuring point chamber centre) at +10 °C and +37 °C	D00129				

Accessories	30	55	110	260	750
Stainless steel grid, electropolished (standard equipment)	E28884	E20164	E20165	E28891	E20182
Additional reinforced stainless steel grid, electropolished, max. loading 60 kg; size 750 with guide bars and fixing screws (only in connection with option K1). Please consider max. loading of chamber	–		E29767	E29766	B32190
Perforated stainless steel shelf	B29727	B03916	B00325	B29725	B00328
Additional reinforced stainless steel shelf, max. loading 60 kg; with guide bars and fixing screws (only in connection with option K1). Please consider max. loading of chamber	–				B32191
Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution) – cannot be used in connection with option K1	E02070	E02072	E02073	E29726	E02075
Max. loading per slide-in drip tray (kg)	1.5		3	4	8
Stainless steel slide-in drip tray, 15 mm rim, with guide bars and fixing screws (can be used only in connection with option K1)	–				B32763
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution) – cannot be used in connection with option K1	B04356	B04358	B04359	B29722	B04362
Max. loading per bottom drip tray (kg)	1.5		3	4	8
Stainless steel bottom drip tray, 15 mm rim (can be used only in connection with option K1)	–				B34055
Guarantee extension by 1 year	GA1Q5			GA2Q5	