



Peltier-cooled incubator IPPeco  
with SingleDISPLAY  
Peltier-cooled incubator IPPecoplus  
with TwinDISPLAY  
with Advanced Peltier Technology  
AtmoCONTROL software

Model sizes:

IPP: 30 / 55

IPPeco: 110 / 260 / 410 / 750 / 1060

0 °C to +70 °C

Model sizes:

IPPeco: 1400 / 2200

+15 °C to +60 °C

**PELTIER-COOLED INCUBATOR IPPeco** Heating and cooling seamlessly with one system thanks to Peltier technology. In this respect, cooled incubators IPPeco 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.



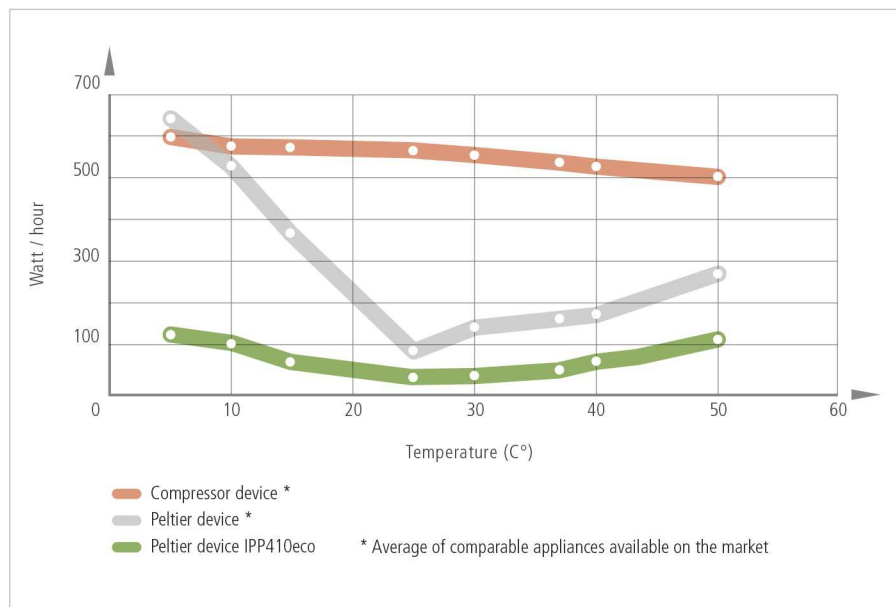
## Smooth running

The fact that no compressor is required saves space and brings peace and quiet to the laboratory. As Peltier-cooled incubators IPPeco 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 HPPeco, which is also equipped with the Advanced 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 absolutely homogenous distribution of temperature.

Despite the significantly reduced energy consumption, the IPPeco's performance is impressive. Heating up, cooling down and recovering after opening the door occur fine-tuned and yet at top speed.



## PELTIER-COOLED INCUBATORS IPPeco

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

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



**Interior:** Stainless steel, material 1.4301 (ASTM 304), deep-drawn

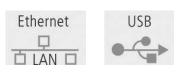
**Housing:** Textured stainless steel, rear zinc-plated steel, intuitively operated SingleDISPLAY or TwinDISPLAY (TFT colour display) with touchscreen

**Double doors:** Outside stainless steel, fully insulated, inside glass (size 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

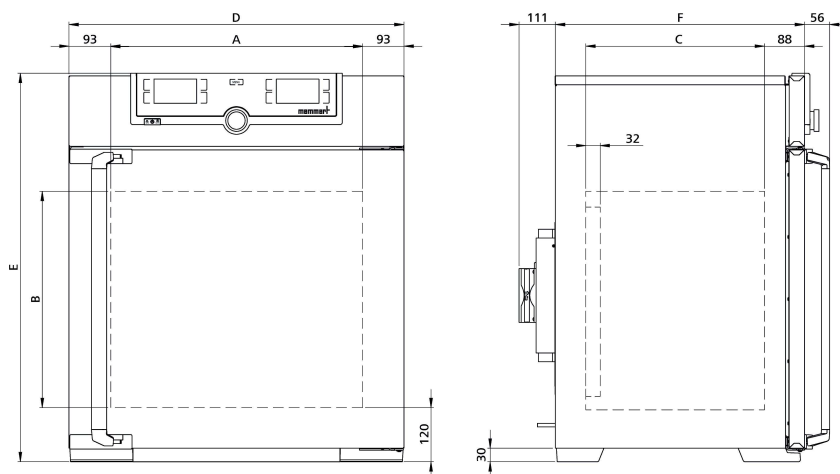
**Connection:** Mains cable with plug (German type)

**Installation:** 4 feet; sizes 410, 750 and 1060 mounted on lockable castors, 1400 and 2200 mounted on height-adjustable and lockable castors

**Interfaces:**



USB: only for TwinDISPLAY



| Model sizes/Description             |  |            | 30   | 55  | 110        | 260  | 410  | 750  | 1060        | 1400   | 2200 |  |  |
|-------------------------------------|--|------------|--|-----|------------|------|------|------|-------------|--|------|--|--|
| Stainless steel interior            | Volume   | approx. l  | 32   | 53  | 108        | 256  | 384  | 749  | 1060        | 1360   | 2140 |  |  |
|                                     | Width  | (A) mm     | 400  |     | 560        | 640  |      | 1040 |             | 1250   | 1972 |  |  |
|                                     | Height   | (B) mm     | 320  | 400 | 480        | 800  | 1200 |      | 1450        |  |      |  |  |
|                                     | Depth (less 10 mm (sizes 30 and 55), less 32 mm (sizes 110 to 2200) for fan – Peltier) | (C) mm     | 250  | 330 | 400        | 500  |      | 600  | 850         | 750  |      |  |  |
|                                     | Max. number of grids/shelves   | number     | 3  | 4   | 5          | 9    | 14   |      | 28          |  | 42   |  |  |
|                                     | Max. loading per grid/shelf  | kg         | 20   |     |            | 30   |      | 20   |             | 30   |      |  |  |
|                                     | Max. loading of chamber  | kg         | 60   | 80  | 150        | 200  |      | 250  |             | 330  |      |  |  |
| Max. loading per slide-in drip tray | kg   | 1,5        |  | 3   | 4          |      | 8    |      | -           |  |      |  |  |
| Max. loading per bottom drip tray   | kg   | 1,5        |  | 3   | 4          |      | 8    |      | -           |  |      |  |  |
| Textured stainless steel exterior   | Width  | (D) mm     | 585  |     | 745        | 824  |      | 1224 |             | 1435   | 2157 |  |  |
|                                     | Height (sizes 410, 750, 1060 with castors)   | (E) mm     | 704  | 784 | 864        | 1183 | 1720 |      | 1913        |  |      |  |  |
|                                     | Depth (without door handle, depth of handle +56 mm)                                    | (F) mm     | 434  | 514 | 555        | 655  |      | 755  | 1005        | 905  |      |  |  |
| Standard equipment                  | Stainless steel grids, electropolished   | number     | 1  |     | 2          |      | 4    |      | 6           |  |      |  |  |
|                                     | Standard works calibration certificate (measuring point chamber center)                | °C         | +10 and +37                                      |     |            |      |      |      | +25 and +40 |  |      |  |  |
| Temperature                         | Working temperature range without light  | °C         | 0 (at least 20 below ambient temperature) to +70 |     |            |      |      |      |             | +15 (at least 10 below ambient temperature) to +60 |      |  |  |
|                                     | Working temperature range with light   | °C         | -  |     | +10 to +40 |      |      |      | -           |  |      |  |  |
|                                     | Setting temperature range  | °C         | 0 to +70   |     |            |      |      |      |             | +15 to +60   |      |  |  |
|                                     | Setting accuracy   | °C         | 0.1  |     |            |      |      |      |             |  |      |  |  |
| Further data                        | Electrical load at 230 V, 50/60 Hz   | approx. W  | 140  | 275 | 320        | 600  |      | 1200 |             | 1800   |      |  |  |
|                                     | Electrical load at 115 V, 50/60 Hz   | approx. W  | 140  | 275 | 320        | 600  |      | 1200 |             | -  |      |  |  |
|                                     | Peltier elements in the rear   | number     | 1  |     |            | 2    |      | 4    |             | 6  |      |  |  |
| Packing data                        | Net weight   | approx. kg | 40   | 52  | 78         | 114  | 157  | 230  | 255         | 450  | 493  |  |  |
|                                     | Gross weight (packed in carton)  | approx. kg | 56   | 71  | 103        | 165  | 210  | 301  | 419         | 639  | 730  |  |  |
|                                     | Width  | approx. mm | 660  | 730 | 830        | 930  |      | 1330 | 1370        | 1560   | 2300 |  |  |
|                                     | Height   | approx. mm | 890  | 950 | 1050       | 1380 | 1930 | 1910 | 1970        | 2200   |      |  |  |
|                                     | Depth  | approx. mm | 650  | 670 | 800        | 930  |      | 1050 | 1300        | 1190   |      |  |  |

### Order No. Peltier-Cooled Incubators

IPP = Peltier-Cooled Incubators

plus = Model with TwinDISPLAY

(IPP1400eco/ IPP1400ecoplus and IPP2200eco/ IPP2200ecoplus available from Q2 2021)

|           |           |               |               |               |               |                |                |                |
|-----------|-----------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|
| IPP30     | IPP55     | IPP110eco     | IPP260eco     | IPP410eco     | IPP750eco     | IPP1060eco     | IPP1400eco     | IPP2200eco     |
| IPP30plus | IPP55plus | IPP110ecoplus | IPP260ecoplus | IPP410ecoplus | IPP750ecoplus | IPP1060ecoplus | IPP1400ecoplus | IPP2200ecoplus |

| Options   | 30 | 55                                   | 110 | 260    | 410 | 750    | 1060 | 1400 | 2200 |
|---|----|--------------------------------------|-----|--------|-----|--------|------|------|------|
| 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 standard grids by reinforced grids (standard with 1060)   |    |                                      |     |        |     | 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 260/410/750, programme-controlled dimming from 0 to 100 % (in 1 % steps), ramp programming in combination with temperature (only with TwinDISPLAY; not in combination with F6, F7, D8)  | -  |                                      |     |        | T7  |        |      | -    |      |
| Light module cold white 6,500 K + warm white 2,700 K: LED light strips - 10 strips for model 110, 14 for model 260/410/750 - (6 resp. 8 alternating cold white light strips and 4 resp. 6 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; not in combination with F6, F7, D8) | -  |                                      |     |        | 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 260/410/750, programme-controlled dimming from 0 to 100 % (in 1 % steps), ramp programming in combination with temperature (only with TwinDISPLAY; not in combination with F6, F7, D8)  | -  |                                      |     |        | 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 at the side, 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                   |     | F0     |     |        |      |      | -    |
|   |    | left centre/top                      |     | F1     |     |        |      |      | -    |
|   |    | right centre/centre                  |     | F2     |     |        |      |      | -    |
|   |    | right centre/top                     |     | F3     |     |        |      |      | -    |
| Entry port, 23 mm clear diameter, can be closed by flap (please state location)   |    | left                                 |     |        | F4  |        |      |      |      |
|   |    | right                                |     |        | F5  |        |      |      |      |
|   |    | rear                                 |     | F6     |     |        |      |      | -    |
| Entry port, 38 mm clear diameter, can be closed by flap, in special positions in the back wall (please state location; not in combination with T7, T8, T9)  |    |                                      |     | F7     |     |        |      |      | -    |
| Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, standard position rear (not in combination with T7, T8, T9)   |    |                                      |     |        |     | D8     |      |      |      |
| 4 - 20 mA current loop interface (-10 to +80 °C = 4 - 20 mA)  |    | Temperature controller, actual value |     |        |     | V3     |      |      |      |
| Works calibration certificate for 3 temperatures: +5, +37, +60 °C   |    |                                      |     | D00129 |     |        |      |      | -    |
| Works calibration certificate for one (freely selectable) temperature value according to customer specification   |    |                                      |     |        |     | D00109 |      |      |      |
| Door with lock and key (safety lock)  |    | One lock                             |     | B6     |     |        |      |      | -    |
|   |    | Two locks (one each door)            |     | -      |     |        | B62  |      | -    |
|   |    | Three locks (one each door)          |     | -      |     |        |      |      | B63  |
| Door hinged on the left   |    |                                      | B8  |        |     |        |      |      | -    |
| Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)  |    |                                      |     |        | H6  |        |      |      |      |
| Process-dependent programmable door lock (only for units with TwinDISPLAY)  |    | One                                  |     | D4     |     |        |      |      | -    |
|   |    | Two (one each door)                  |     | -      |     |        | D42  |      | -    |
|   |    | Three (one each door)                |     | -      |     |        |      |      | D43  |
| Door-open-recognition (only for units with TwinDISPLAY)   |    | One                                  |     | V5     |     |        |      |      | -    |
|   |    | Two (one each door)                  |     | -      |     |        | V52  |      | -    |
|   |    | Three (one each door)                |     | -      |     |        |      |      | V53  |
| MobileALERT, notification by SMS in case of any error or alarm of the device (requires option H6)   |    |                                      |     |        | C3  |        |      |      |      |
| Castor frame (2-part), height 140 mm  |    |                                      | R9  |        |     |        |      |      | -    |

| Accessories  | 30     | 55     | 110    | 260    | 410    | 750    | 1060 | 1400   | 2200 |
|--|--------|--------|--------|--------|--------|--------|------|--------|------|
| Stainless steel grid, electropolished  | E28884 | E20164 | E20165 | E28891 | E20182 | B41251 |      | B38955 |      |
| Reinforced stainless steel grid, electropolished, max. loading 60 kg; size 750 with guide bars and fixing screws (requires option K1). Please consider max. loading of chamber |        | -      | E29767 | E29766 | B32190 | B32550 |      | -      |      |
| Perforated stainless steel shelf   | B29727 | B03916 | B00325 | B29725 | B00328 |        |      | -      |      |
| Reinforced stainless steel shelf, max. loading 60 kg; with guide bars and fixing screws (requires option K1). Please consider max. loading of chamber                          |        |        | -      |        | B32191 | B32549 |      | -      |      |
| Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution, not in connection with option K1)  | E02070 | E02072 | E02073 | E29726 | E02075 | B32599 |      | -      |      |
| Stainless steel slide-in drip tray, 15 mm rim, with guide bars and fixing screws (may affect the temperature distribution, only in connection with option K1)                  |        |        | -      |        | B32763 |        |      | -      |      |
| Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution, not in connection with option K1)  | B04356 | B04358 | B04359 | B29722 | B04362 | B29769 |      | -      |      |
| Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution, only in connection with option K1)   |        |        | -      |        | B34055 |        |      | -      |      |

| Accessories   | 30     | 55     | 110    | 260    | 410     | 750    | 1060 | 1400 | 2200   |  |
|---|--------|--------|--------|--------|---------|--------|------|------|--------|--|
| Guarantee extension by 1 year   | GA1Q5  |        | GA2Q5  |        |         | GA4Q5  |      |      |        |  |
| USB-Ethernet adapter  |        |        |        |        | E06192  |        |      |      |        |  |
| Ethernet connection cable 5 m for computer interface  |        |        |        |        | E06189  |        |      |      |        |  |
| USB User-ID stick (with User-ID licence): Oven-linked authorisation licence (User-ID-programme) on Memory-stick, prevents undesired manipulation by unauthorised third parties. When reordering please specify serial number (only for units with TwinDISPLAY)  |        |        |        |        | B33170  |        |      |      |        |  |
| USB stick with documentation software AtmoCONTROL and operation manual for products with SingleDISPLAY (the standard equipment of appliances with TwinDISPLAY includes one USB stick with AtmoCONTROL). When reordering please specify serial number  |        |        |        |        | B33172  |        |      |      |        |  |
| Set of height adjustable feet (4 pcs)   | B29768 |        |        |        | -       |        |      |      |        |  |
| Stacking set (4 pcs) for stacking of appliances of same size  | B29744 |        |        |        | -       |        |      |      |        |  |
| Flush-fit unit (stainless steel frame covering gap between oven and wall opening), with air slots   | B29728 | B29730 | B29734 | B29738 | B42116  | B29742 | -    |      |        |  |
| Flush-fit unit (stainless steel frame covering gap between oven and wall opening), without air slots  | B29729 | B29731 | B29735 | B29739 | B42117  | B29743 | -    |      |        |  |
| Subframe, adjustable in height (size 30 and 55: height 600 mm, size 110 and 260: height 500 mm)   | B29745 | B29747 | B29749 | B29751 | -       |        |      |      |        |  |
| Subframe, on castors (size 30 and 55: height 660 mm, size 110: height 560 mm)   | B29746 | B29748 | B29750 | -      |         |        |      |      |        |  |
| Subframe, adjustable in height, height 130 mm, for example for units with fresh air filter  | B33657 | B33659 | B33661 | B33664 | -       |        |      |      |        |  |
| Software conforming to FDA AtmoCONTROL. Meets the requirements for the use of electronically stored data sets and electronic signatures as laid down in Regulation 21 CFR Part 11 of the US Food and Drug Administration (FDA). Base licence for the control of one unit (only for units with TwinDISPLAY). Respective IQ/OQ documents available in German and English language (without surcharge) |        |        |        |        | FDAQ1   |        |      |      |        |  |
| Integration of one additional unit (up to max. 31 units) into an already existent FDA-software licence (only for units with TwinDISPLAY)  |        |        |        |        | FDAQ2   |        |      |      |        |  |
| External measuring instrument with sensors for daylight and UV-light. Product information on demand (models IPPecoplus/ IPPplus)  |        |        |        | B04713 |         |        | -    |      |        |  |
| External measuring instrument with additional measuring head for temperature and humidity measurement. Product information on demand (models IPPecoplus/ IPPplus)   |        |        |        |        | B04714  |        |      |      |        |  |
| DAkkS calibration for one free-selectable temperature value according to method C (DKD-R 5-7)   |        |        |        |        | E39696  |        |      |      |        |  |
| DAkkS calibration for further temperature values according to method C (DKD-R 5-7)  |        |        |        |        | E39697  |        |      |      |        |  |
| IQ document with device-specific works test data, OQ/PQ check list as support for validation by customer  |        |        |        |        | D00124  |        |      |      |        |  |
| IQ/OQ document with device-specific works test data for one free-selectable temperature value, incl. temperature distribution survey at Memmert for 9 measuring points (size 30), 27 measuring points (sizes 55 - 1060, 2200) and 26 measuring points (size 1400) according to DIN 12880:2007-05. PQ check list as support for validation by customer. 305 € for further temperature values         | D00125 |        |        |        |         |        |      |      | D00127 |  |
| On-site IQ/OQ for a freely selectable temperature value, including temperature distribution survey for 9 measuring points (size 30), 27 measuring points (sizes 55 - 1060, 2200) and 26 measuring points (size 1400) to DIN 12880: 2007-05 (excluding travel costs, not subject to discount, GER, AT, FR only)  |        |        |        |        | DLQ100  |        |      |      |        |  |
| Extension of DLQ100 by an additional freely selectable temperature value (not subject to discount)  |        |        |        |        | DLQ100A |        |      |      |        |  |
| Individual on-site Performance Qualification (PQ)   |        |        |        |        | DLQ200  |        |      |      |        |  |
| Maintenance IPP/ IPPeco - carrying out and documentation according to Memmert maintenance plan (excluding travel costs, not subject to discount, GER, AT, FR only)  |        |        |        |        | S00317  |        |      |      |        |  |
| Maintenance contract IPP/ IPPeco - carrying out and documentation according to Memmert maintenance plan, minimum duration 3 years (excluding travel costs, not subject to discount, GER, AT, FR only)   |        |        |        |        | S00317J |        |      |      |        |  |
| Calibration of one freely selectable temperature value (excluding travel costs, not subject to discount, GER, AT, FR only)  |        |        |        |        | S00205  |        |      |      |        |  |
| Calibration of an additional temperature value (not subject to discount)  |        |        |        |        | S00215  |        |      |      |        |  |