

## Precision incubator

### Model INP 600



## Standard equipment

### Ventilation and Control

- natural convection
- adjustment of pre-heated fresh air admixture by air flap through process controller in 10% steps for each segment individually
- vent connection with restrictor flap
- adaptive, fuzzy-supported, multifunctional, digital microprocessor PID-controller
- autodiagnostic system with fault indication
- 2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
- digital 7-day-programme-timer with real time clock, precise minute setting, for one set value or start of ramp operation
- integrated timer for tempering profiles of up to 40 ramps, each segment adjustable from 1 min. up to 999 hours
- multifunctional programming via menu on 8-digit alphanumeric digital display (language to be chosen via set-up):  
tempering profiles of up to 40 ramps  
time- and set-point dependent operation  
air flap adjustable in 10% steps
- digital display (LED) of all set parameters, such as temperature, weekdays, time, air flap position, programme status and set-up values
- resolution of display for set value and actual value 0,1 °C
- long-term logging (ring store) of all relevant data, GLP-conforming as data logger - 1024 kB
- programme stored on power failure
- parallel printer interface (incl. real-time clock with date function) for printing logging files, suitable all PCL3-compatible ink-jet printers (USB available via converter, see accessories)
- serial interface RS 232 including MEMMERT Software "Celsius" for programming and documentation
- chip card control incl. one MEMoryCard XL with 32 kB (up to 40 ramps)
- 2nd chip card (STERICard) for sterilisation of working chamber as fixed cycle (4 hours/160 °C)
- incl. works calibration certificate for +37 °C

### Multiple Overtemperature Protection

- with audible and visual alarm
- digitally adjustable, electronic microprocessor overtemperature controller TWW protection class 3.1 - maximum value for overtemperature - minimum value for undertemperature
- additional integral over- and undertemperature monitor "ASF" (Auto-Safety-Function) automatically following the setpoint value at a preset tolerance range; audible alarm is activated in case of over- or undertemperature, heating is switched off in case of overtemperature
- resolution of display and setting accuracy: 0,1 °C
- mechanical temperature limiter TB protection class 1 switching the heating off at approx. 10 °C above max. oven temperature

### Textured Stainless Steel Casing

- w x h x d: 950 x 920 x 650 mm
- fully insulated stainless steel doors with double locking and 4-point adjustment
- inner glass doors
- rear zinc-plated steel

### Interior - Heating Concept

- w x h x d: 800 x 640 x 500 mm, 256 l
- easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
- 2 stainless steel grids

### Temperature Range

- from +30 °C (however, at least 5 °C above ambient) up to +70 °C

### Voltage / Power Rating

- 230 V (+/- 10%), 50/60 Hz
- ca. 1.600 W (during heating)
- adaption of effective heating power depending on the set temperature

### Packing Data

- net weight approx. 92 kg
- gross weight carton approx. 112 kg
- dimensions approx.:  
carton w x h x d: 110 x 114 x 84 cm
- the appliances must be transported upright

### Customs Tariff Number

- 8419 3990

### Country of Origin

- Federal Republic of Germany

### WEEE-Reg.-No.

- DE 66812464

### Accessories

- Perforated stainless steel shelf E0(x)
- Stainless Steel Grid (for good air circulation) E3(x)
- Interface USB instead of interface RS232 W3
- Interface Ethernet instead of RS232 inclusive software "Celsius Ethernet-Edition" W4
- Parallel/USB converter cable with integrated power supply unit to connect PCL3-compatible HP printers with USB interface to MEMMERT units. W1
- Documentation package consisting of parallel USB converter cable including PLC3-compatible HP colour inkjet printer with USB interface (HP Deskjet 6980 or successor) for direct W2

connection of printer to Memmert unit

- IQ check list with works test data for oven as support for validation by customer Q1
- OQ check list including one free-selectable temperature distribution survey to DIN 12880: 2007-05 (size 200/300: 9 measuring points, size 400-800: 27 measuring points) with works test data for oven as support for validation by customer Q2
- Software conforming to FDA "Celsius FDA-Edition" for up to 16 units Q3
- STERICard (additional or as replacement) for automatic incubator chamber sterilisation cycle (not for sterilising the load!) V9
- Oven-linked authorisation card (User-ID-Card) - prevents undesired manipulation by unauthorised third parties V1
- Computer interface RS485 (for networking a maximum of 16 ovens) instead of interface RS232 V2
- Temperature profile write/read unit for programming via PC, for writing to and reading from the chip card, up to 40 ramps V3
- Additional chip card, blank, formatted (32 kB MEMoryCard XL for a maximum of 40 ramps) V4
- Connection cable for computer interface RS232 according to DIN 12 900-1 V6