

Humidity chamber

Model HCP153



Standard equipment

Ventilation and Control

- uniform atmosphere and temperature distribution owing to enclosed non-turbulent ventilation system in working chamber
- adaptive, fuzzy-supported multifunctional digital microprocessor PID-controller
- integral fault diagnostics for temperature and humidity control
- 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
- integrated timer for tempering profiles of up to 40 ramps each, each segment adjustable from 1 min. to 999 hrs.
- digital display of all set parameters, such a temperature, weekdays, time, CO₂, humidity and set-up values - language to be chosen via set-up
- resolution of display for setpoint values 0.1 °C up to 99.9 °C, 0.5 °C from 100 °C and for actual values 0.1 °C (LED)
- calibration facility through controller for three freely selectable temperature values
- active humidifying and de-humidifying control (20-95%) with digital display of relative humidity - resolution of display 0.5%, setting accuracy 1%
- humidity supply with distilled water from external tank by self-priming pump
- integrated ring memory as data logger for GLP-conforming long-term documentation of all relevant parameters - 1024 kB
- programme stored in case of power failure

- parallel printer interface (incl. real time clock with date function) for all PCL3-compatible ink jet printers for GLP-conforming documentation
- USB-interface incl. Memmert software "Celsius" for programming and documentation
- chip-card control incl. 1 MEMoryCard XL with 32 kB storage capacity (max. 40 ramps)
- 2nd chip-card (STERICard) for sterilisation of working chamber with fixed values (4 hours/160 °C) without removal of sensors

Heating Concept

- large-area multi-function heating system on four sides with additional door and back heating to avoid condensation
- incl. works calibration certificate for +60 °C

Humidifying and dehumidifying system

- active humidifying and de-humidifying adjustable from 20-95% rh with digital display of relative humidity - resolution of display 0.5%, setting accuracy 1%
- humidity supply with distilled water from external tank by self-priming pump
- humidification by hot steam generator

Multiple Overtemperature Protection

- with audible and visual alarm
- overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection class 2, selectable on display
- with audible and visual alarm in case of over-/under temperature and underhumidity, open door and empty water tank

- additionally integrated over- and undertemperature monitor "ASF", automatically following the setpoint value at a preset tolerance range; alarm in case of over- or undertemperature, heating is switched off in case of overtemperature
- mechanical temperature limiter TB, protection class 1 according to DIN 12 880 to switch off the heating approx. 10 °C above nominal temperature

Textured Stainless Steel Casing

- w x h x d: 630 x 938 x 650 mm
- fully insulated stainless steel door with 2-point locking (compression door lock), lockable
- inner glass door
- rear zinc-plated steel

Interior - Heating Concept

- w x h x d: 480 x 640 x 500 mm, 153 l
- easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing, material 1.4301 (ASTM 304), hermetically welded
- 2 perforated stainless steel shelves

Temperature Range

- with humidity min. 8 °C above ambient up to +90 °C

- without humidity min. 8 °C above ambient up to +160 °C

Voltage / Power Rating

- 230 V (+/- 10%), 50/60 Hz / approx. 1.500 W

Packing Data

- net weight approx. 80 kg
- gross weight carton approx. 96 kg
- dimensions approx.:
carton w x h x d: 75 x 114 x 84 cm
- the appliances must be transported upright

Customs Tariff Number

- 8419 8998

Country of Origin

- Federal Republic of Germany

WEEE-Reg.-No.

- DE 66812464