Constant Climate Chamber

Model HPP110

Standard equipment

Ventilation and Control

- forced ventilation by Peltier fan

- adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays

- 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 timer adjustable from 1 minute to 99 days, 23 hours

- parameters adjustable on ControlCOCKPIT: temperature (Celsius or Fahrenheit), relative humidity, programme time, time zones, summertime/wintertime

- SetpointWAIT function - the process time does not start until the set temperature is reached

- Distributed heating and cooling performance thanks to individual control of the Peltier elements in the upper and lower row

- Setting of languages on ControlCOCKPIT: German/English/Spanish/French

- resolution of display for setpoint and actual temperature values 0.1°C

- calibration facility directly at ControlCOCKPIT for three freely selectable temperature values, 2-point calibration for humidity: 20 and 90% rh

- humidity supply with distilled water from external tank by self-priming pump

- programme stored in case of power failure

- incl. works calibration certificate for +10°C and +37°C, 60% rh at +30°C

Humidifying and dehumidifying system

- active humidifying and de-humidifying adjustable from 10-90% 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

- dehumidification by cold trap using the Peltier technology

Multiple Overtemperature Protection

- with audible and visual alarm

- over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display

- additionally integrated over- and undertemperature protection "ASF", automatically following the setpoint value at a preset tolerance range; alarm in case of over- or undertemperature, heating function is switched off in case of overtemperature, cooling function in case of undertemperature

Textured Stainless Steel Casing

- w x h x d: 745 x 867 x 674 mm

- fully insulated stainless steel door with 2-point locking (compression door lock)

- inner glass door

- rear zinc-plated steel

Interior - Heating Concept

- w x h x d: 560 x 480 x 400 mm, 108 l

- energy-saving Peltier heating-/cooling system integrated in the rear (heat pump principle)

- 2 stainless steel grids

- Max. loading of chamber: 150 kg

Temperature Range

- without light: from 0°C to +70°C

- with light: from +15°C to +40°C

Voltage / Power Rating

- 230 V (+/- 10%), 50/60 Hz / approx. 650 W
- 115 V (+/- 10%), 50/60 Hz / approx. 650 W

Packing Data

- net weight approx. 80 kg
- gross weight carton approx. 94 kg
- dimensions approx.:
  carton w x h x d: 85 x 114 x 79 cm
- the appliances must be transported upright

Customs Tariff Number

- 8419 8998

Country of Origin

- Federal Republic of Germany

WEEE-Reg.-No.

- DE 66812464