

Climate Chamber with light

Model ICH110L



Standard equipment

Ventilation and Control

- forced air circulation in working chamber adjustable from 10 to 100 % in 10 % steps
- no drying-up of the load caused by the cooling device due to separation of thermal jacket from interior
- adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays
- energy-saving use of CFC-free cooling/heating system (refrigerant R134a)
- highly efficient automatic defrosting system
- 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 backwards counter with target time setting, adjustable from 1 minute to 99 days
- parameters adjustable on ControlCOCKPIT: temperature (Celsius or Fahrenheit), fan speed, light, programme time, time zones, summertime/wintertime
- SetpointWAIT function - the process time does not start until the set temperature is reached
- AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port
- 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 values each, temperature/humidity/CO2
- 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 10-80 % rh with digital display of relative humidity - resolution of display 0.1 %, setting accuracy 0.5 %
- 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
- 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 is switched off in case of overtemperature, compressor in case of undertemperature

- mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 10 °C above nominal temperature

Textured Stainless Steel Casing

- w x h x d: 745 x 1233 x 634 mm
- fully insulated stainless steel door with 2-point locking (compression door lock)
- inner glass door
- rear zinc-plated steel
- on lockable castors

Interior - Heating Concept

- w x h x d: 560 x 480 x 400 mm, 108 l
- air jacket heating system for gentle all-around heating
- 2 stainless steel grids
- Max. loading of chamber: 150 kg

Illumination

- illumination unit consisting of 4 fluorescent lights with cold white light (standard illuminant D65, 6.500K) and 2 UV-lamps in the spectral range of 315-400 nm, light intensity approx. 8.000 Lux
- daylight and UV-light can be programmed individually via controller

Light homogeneity

- cold white light +/- 6 %, for UV-light +/- 10 %

Temperature Range

- from +10 °C up to +60 °C with humidity

Voltage / Power Rating

- 230 V (+/- 10 %), 50/60 Hz / approx. 1.450 W
- 115 V (+/- 10 %), 50/60 Hz / approx. 1.450 W

Packing Data

- net weight approx. 109 kg
- gross weight carton approx. 138 kg
- dimensions approx.:
carton w x h x d: 88 x 153 x 81 cm
- the appliances must be transported upright

Customs Tariff Number

- 8419 8998

Country of Origin

- Federal Republic of Germany

WEEE-Reg.-No.

- DE 66812464