

Humidity Chambers - 'HCP' Series



HUMIDITY CHAMBER HCP with active humidity control from 20 % to 95 % rh and unsurpassed real temperature humidity homogeneity over the entire interior, this nearly condensation-free climate chamber offers the full range of comfort, reliability and safety. It is ideally suited for environment tests, accelerated life tests, stress tests of drug substance according to ICH Q1A and 85/85 tests to IEC 60068-2-67 and IEC 60068-2-78. It is also used in building physics and biological research.

Standard Equipment

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

Internals: Perforated stainless steel shelves size 50:1, sizes 105-240:2

Housing: Textured stainless steel, rear zinc-plated steel, intuitively operated TwinDISPLAY (TFT colour display) with touchscreen: fully insulated stainless steel door and heated inner glass door

Double doors: Outside stainless steel, fully insulated, inside glass

Connection: Mains cable with plug (German type)

Installation: 4 adjustable feet

Interfaces:  

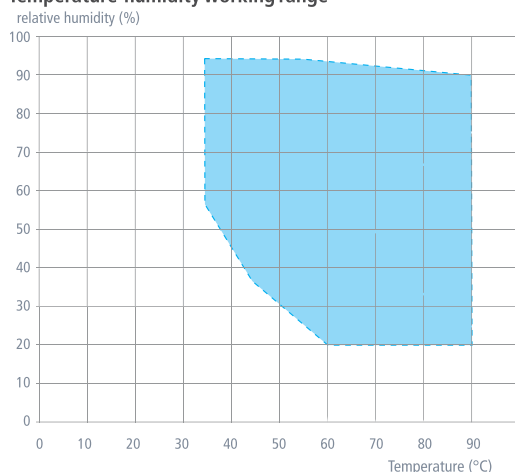
Salient Features

- Stainless steel interior and exterior
- 6 side heating
- Humidity limit control as standard
- Heated inner glass door as standard
- Door-open-recognition: visual and acoustic alarm
- Internal data logger with capacity of at least 10 year
- AtmoCONTROL software on USB stick for programming
- Works calibration certificate (test point chamber center at +60°C with 75 %rh)

Humidity Chambers HCP (56 TO 241 Litres)

| Model sizes/Description | | | 50 | 105 | 150 | 240 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------|---------------|---------------|---------------|
| Stainless steel interior | Volume | approx. l | 56 | 107 | 156 | 241 |
| | Width (A) | mm | 400 | 560 | | 600 |
| | Height (B) | mm | 425 | 480 | 700 | 810 |
| | Depth (less 35 mm for fan) (C) | mm | 330 | 400 | | 500 |
| | Max. number of grids/shelves | number | 5 | 6 | 10 | 12 |
| | Max. loading per grid/shelf | kg | 15 | | | |
| | Max. loading of chamber | kg | 75 | 90 | 120 | 140 |
| Textured stainless steel exterior | Width (D) | mm | 559 | 719 | | 759 |
| | Height (variable through adjustable feet) (E) | mm | 795 | 850 | 1070 | 1180 |
| | Depth (without door handle), door handle +56 mm (F) | mm | 521 | 591 | | 691 |
| | Fully insulated heated stainless steel door | | | ● | | |
| | Additional heated inner glass door | | | ● | | |
| Standard equipment | Stainless steel shelves, perforated | number | 1 | 2 | | |
| | Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back, centre left | | | ● | | |
| | Works calibration certificate (measuring point chamber centre) | °C | +60 °C with 75 % rh | | | |
| | Door-open-recognition, incl. alarm, shuts down fan | | | ● | | |
| Temperature | Working temperature range | °C | +7 above ambient temperature up to +90 | | | |
| | Setting temperature range | °C | +18 to +90 | | | |
| | Setting accuracy | °C | 0.1 | | | |
| Humidity | Capacitive humidity sensor for measuring and displaying the relative humidity | | | ● | | |
| | Active microprocessor control for humidifying and dehumidifying (20 – 95 % rh), incl. digital indication and auto-diagnostic system ensures even more rapid reaching of set humidity and very short recovery times. Humidity supply with distilled water (from an external tank) by a self-priming pump; integral bacteria block by generating hotsteam, dehumidifying via sterile filter | | | ● | | |
| | Setting range active humidity control | % rh | 20 to 95 and rh-Off | | | |
| | Setting accuracy | % rh | 0.5 | | | |
| Further data | Electrical load at 230/115 V, 50/60 Hz | approx. W | 1520 | 1720 | 1800 | 1840 |
| Packing data | Net weight | approx. kg | 55 | 75 | 90 | 110 |
| | Gross weight (packed in carton) | approx. kg | 74 | 100 | 116 | 145 |
| | Width | approx. mm | 730 | 800 | | 840 |
| | Height | approx. mm | 950 | 1030 | 1250 | 1360 |
| | Depth | approx. mm | 640 | 800 | | 900 |
| Order No. Humidity Chambers | | | HCP50 | HCP105 | HCP150 | HCP240 |

Temperature-humidity working range



Accessories

1. Perforated stainless steel shelf
2. Stainless steel grid
3. Central water supply
4. Guarantee extension by 1 year

Options

- Entry port 23 mm at the side centre/top
- Peltier cooling unit
- Battery-buffered ControlCOCKPIT
- 4-20 mA current loop interface
- Works calibration certificate for one freely selectable temperature and humidity

product range

■ Ovens
■ Incubators
■ Sterilisers

■ Vaccum Ovens
■ Peltier Cooled Incubators
■ CO₂ Incubators

■ Constant Climate Chambers
■ Humidity Chambers
■ Stability Test Chambers

■ Water & Oil Baths
■ Clean Room Drying Ovens
■ Pass Through Ovens

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