

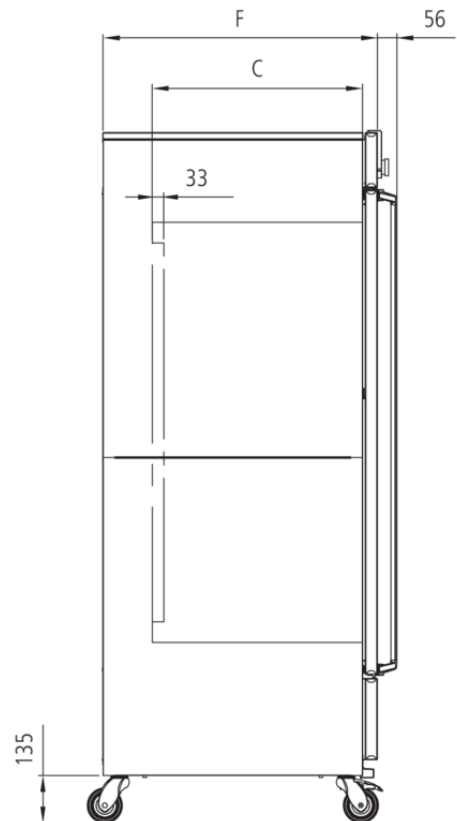
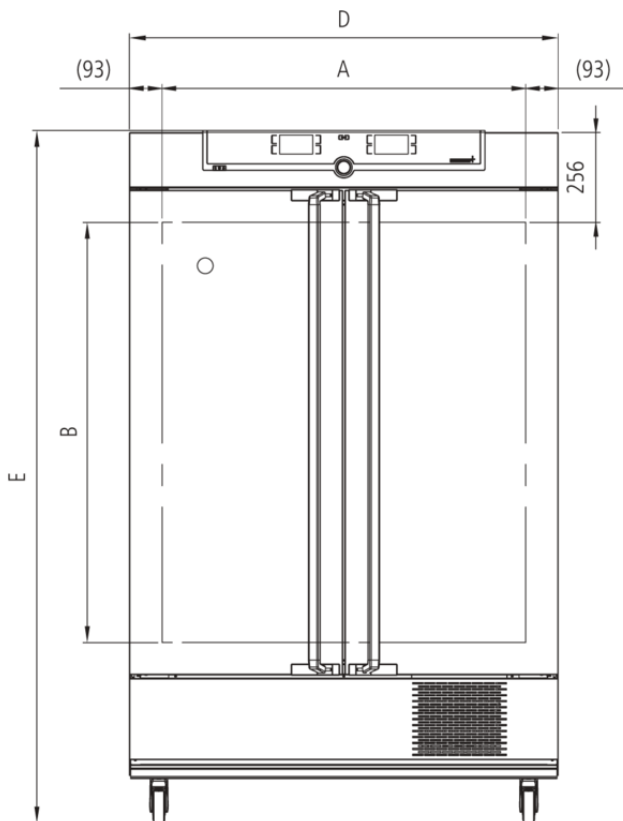
## Climate chamber

### ICH750eco

Unparalleled homogeneity of temperature and humidity. For stability testing according to ICH - WHO - EMA - ASEAN - GMP - GLP – GCCP.



On this page, you can find all the essential technical data on the Memmert climate chamber ICHeco. Our customer relations team will be pleased to help if you want further information. If you should require a customised special solution, please contact our technical specialists at [sales@memmert.com](mailto:sales@memmert.com).



## Temperature

<b>Setting temperature range</b>	-10 to +60 °C
<b>Working temperature range</b>	from -10°C up to +60°C without humidity(not suitable for long-term storing at sub-zero temperatures. During permanent operation, the glass door may ice over)
<b>Working temperature range</b>	from +10°C up to +60°C with humidity and/or light
<b>Setting accuracy temperature</b>	0.1 °C
<b>Temperature sensor</b>	2 Pt100 sensors DIN Class A in 4-wire-circuit for mutual monitoring, taking over functions in case of an error

## Humidity

<b>Humidity</b>	humidity supply with distilled water from external tank by self-priming pump
<b>Humidification</b>	humidification by hot steam generator
<b>Humidity</b>	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 %

## Control technology

<b>ControlCOCKPIT</b>	TwinDISPLAY. Adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays.
<b>adjustable parameters</b>	temperature (Celsius or Fahrenheit), fan speed, relative humidity, programme time, time zones, summertime/wintertime
<b>Language setting</b>	German, English, Spanish, French, Polish, Czech, Hungarian
<b>Timer</b>	Digital backwards counter with target time setting, adjustable from 1 minute to 99 days
<b>Function SetpointWAIT</b>	the process time does not start until the set temperature is reached
<b>Calibration</b>	three freely selectable values each, temperature/humidity, for two freely selectable values CO2

## Ventilation

<b>Fan</b>	forced air circulation in working chamber adjustable from 10 to 100 % in 10 % steps
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## Communication

<b>Documentation</b>	programme stored in case of power failure
<b>Programming</b>	AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port

## Safety

<b>Temperature control</b>	mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 10°C above nominal temperature
<b>Temperature control</b>	over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display
<b>AutoSAFETY</b>	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
<b>Autodiagnostic system</b>	integral fault diagnostics for temperature and humidity control
<b>Alarm</b>	visual and acoustic

## Heating concept

Cooling	Cooling compressor with climate-friendly refrigerant CO <sub>2</sub> (R744), GWP1
Air jacket	air jacket heating system for gentle all-around heating
Heating concept	no drying-up of the load caused by the cooling device due to separation of thermal jacket from interior
Defrosting	highly efficient automatic defrosting system

## Standard equipment

Entry port	Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by a silicone stopper, standard position at the back
Internals	2 stainless steel grid(s), electropolished
Works calibration certificate	standard values +10 °C and +37 °C, 60 % rh at +30 °C
Door	inner glass doors
Door	fully insulated stainless steel doors with 2-point locking (compression door lock)

## Stainless steel interior

Dimensions	$w_{(A)} \times h_{(B)} \times d_{(C)}$ : 1040 x 1200 x 600 mm (d less 33 mm for fan)
Volume	749 l
Max. number of internals	14
Max. loading of chamber	200 kg
Max. loading per internal	30 kg

## Textured stainless steel casing

Dimensions	$w_{(D)} \times h_{(E)} \times d_{(F)}$ : 1224 x 1950 x 785 mm (d +56mm door handle)
Installation	on lockable castors
Housing	rear zinc-plated steel

## Electrical data

Voltage	230 V, 50 Hz
Electrical load	approx. 1350 W

## Ambient conditions

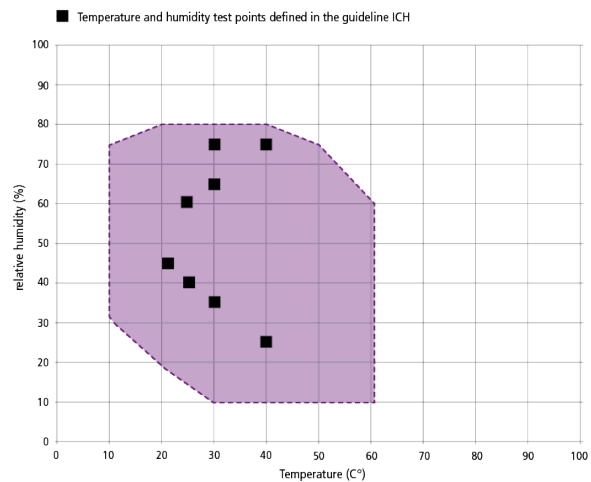
Set Up	The distance between the wall and the rear of the appliance must be at least 15 cm. The clearance from the ceiling must not be less than 20 cm and the side clearance from walls or nearby appliances must not be less than 5 cm.
Ambient temperature	15 °C to 28 °C (up to 34 °C with limited temperature range)
Humidity rh	max. 70 %, non-condensing
Altitude of installation	max. 2,000 m above sea level
Overvoltage category	II
Pollution degree	2

## Packing/shipping data

<b>Transport information</b>	The appliances must be transported upright
<b>Customs tariff number</b>	8419 8998
<b>Country of origin</b>	Federal Republic of Germany
<b>WEEE-Reg.-No.</b>	DE 66812464
<b>Dimensions approx incl. carton</b>	w x h x d: 1330 x 2150 x 1050 mm
<b>Net weight</b>	approx. 254 kg
<b>Gross weight carton</b>	approx. 324 kg

## Temperature-humidity working range ICHeco

Not all climate chambers are the same. The humidity content of the chamber load, the ambient conditions and the respective temperature-humidity working range are decisive factors in the selection of the right appliance. In the adjacent diagram, you can see the possible temperature/humidity combinations for our climate chamber ICHeco. Within the respective temperature-humidity range, condensation-free permanent operation is possible. To which extent condensation may occur in the threshold range depends on the humidity content of the chamber load and the ambient conditions.



Temperature-humidity working range ICHeco/ICH

Standard units are safety-approved and bear the test marks

