

The HMC product range - an overview

Vertical and table-top autoclaves, biological safety cabinets, incubators and drying ovens



Available in
different sizes!

Convince yourself!

**We assure durability, quality and comfort -
and we deliver reliably even in times of crisis!**



How do you ensure maximum safety and efficiency in your everyday laboratory work? Which devices reliably support you in all your laboratory tasks?

Get to know us: HMC Europe is **your strong trading partner, importer and manufacturer of high-quality laboratory autoclaves, powerful safety cabinets and reliable incubators and drying ovens**. Our products stand for precise technology, long-lasting quality and user-friendly design. **Complemented by personal service, fast response times and high reliability, we offer solutions that make your processes safe and efficient.**

Your safety is our top priority! HMC Europe's vertical and table-top autoclaves are **perfectly protected against overpressure** due to constant pressure and temperature monitoring. Unintentional opening of the lid under pressure is prevented by the design of the device. Chambers with reduced mass not only provide a consistently **high quality** of the autoclaves, they also **ensure energy efficiency with short heating and cooling phases**.

Our safety cabinets are engineered and produced in Scandinavia for **the highest level of efficiency and product quality!**

We are always one step ahead: cleaning the devices and the surroundings is easy as the products are space-saving. **We make working safely as easy and comfortable as possible**. A wide variety of options such as UV light, gas and media connections or electrically adjustable support stands allow you to customize your new safety cabinet. Additionally you benefit from **a remarkably low power consumption and noise level** made possible by use of latest technology.

What characterizes a good incubator or drying oven? **Easy operation, excellent temperature accuracy and highest reliability** - exactly what you get from our devices of the InQ Pro and TS Pro-Series. Working is as simple as it is intuitive and guarantees you the best possible results.

And after the purchase? **We deliver simply and fast, even in times of crisis, because we usually have the devices and spare parts in stock!** For your safety, you will be provided with detailed safety instructions.

We accompany you from consultation and quotation to delivery - and beyond with customized after-sales support.

For highest demands regarding performance & comfort

Features at first glance:

- > Certified according to the Pressure Equipment Directive 2014/68/EU
- > Available in three sizes with 60, 80 and 100 liters of usable volume
- > Even the basic model (B) comes with an integrated steam generator, automatic water feed and media temperature sensor
- > Chamber made of stainless steel (AISI 316L)
- > Various configuration levels enable more functions and convenience, including fast cooling system for liquid sterilization, counter-pressure function or vacuum pump
- > Further options, e.g. exhaust air filtration for laboratories of safety level I, II or higher

Configuration levels at a glance:

Basic model (HS-60/80/100 B):

- > Integrated steam generator
- > Automatic water feed
- > Media temperature sensor
- > Stainless steel chamber (AISI 316L)
- > Timer function

Configuration level M (HS-60/80/100 M):

in addition to the basic model B:

- > Fast cooling system for liquid sterilization

Configuration level V (HS-60/80/100 V):

in addition to the basic model B:

- > Vacuum function

Configuration level MV (HS-60/80/100 MV):

in addition to the basic model B:

- > Fast cooling system for liquid sterilization
- > Vacuum function

Configuration level MS (HS-60/80/100 MS):

in addition to the basic model B:

- > Fast cooling system for liquid sterilization
- > Counter-pressure function (compressed air must be provided by the customer)

Configuration level MSV (HS-60/80/100 MSV):

in addition to the basic model B:

- > Fast cooling system for liquid sterilization
- > Counter-pressure function (compressed air must be provided by the customer)
- > Vacuum function



Further options
and accessories e.g.
ergonomic lift or printer
for documentation
of sterilization
processes

Vertical autoclaves for an upper standard HG-Series

Reliable, powerful and state of the art

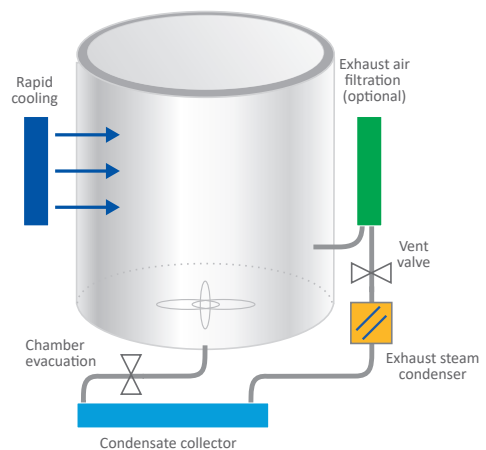
Features at first glance:

- > Certified according to the Pressure Equipment Directive 2014/68/EU
- > Available in 2 sizes with 50 or 80 liters of effective usable volume
- > Innovative locking system with motorized lid including pressure and temperature monitoring
- > Steam generation in the chamber
- > High energy efficiency and long service life
- > Rapid cooling for short cooling times
- > Electrical, mechanical and constructional factors guarantee the highest level of quality and user protection



The HG family for an upper standard

Advanced functionality with many configuration options for a wide range of applications



It is your choice - different autoclaving programs of the HG-Series

- > Sterilization of solids: with fast release of steam for short processing times
- > Sterilization of liquids: with variable natural cooling or with rapid cooling for thermolabile materials
- > Sterilization of liquids: with subsequent warming cycle
- > Sterilization program for Agar with subsequent warming cycle
- > Dissolution program: pressure cooker program (100 °C) with subsequent warming cycle
- > Timer-controlled program: loading the autoclave in the evening - sterile and ready for punctual removal in the morning
- > Automatic standby operation: saves energy
- > **Adaptions for customized programs are always possible**

Optional: Counter pressure for higher productivity and shorter batch times!

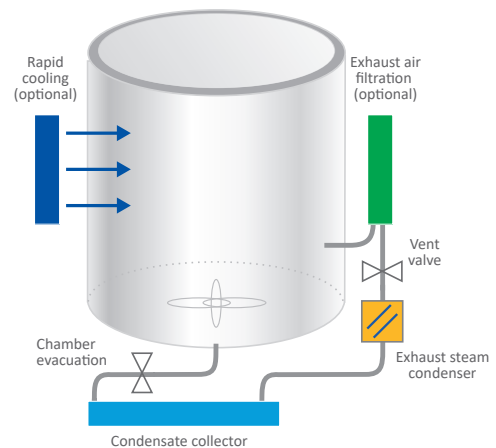
Tireless, durable and ingeniously simple

Features at first glance:

- > Certified according to the Pressure Equipment Directive 2014/68/EU
- > Available in 4 sizes with 25, 50, 85 and 110 liters of effective usable volume
- > Simple, reliable and with a long service life, your perfect choice for standard tasks
- > Optionally available with flexible temperature sensor for the sterilization of liquids
- > Electrical, mechanical and constructional factors guarantee the highest level of quality and user protection



The HV family
Classic autoclaves
Tireless devices
for standard tasks



It is your choice - different autoclaving programs of the HV-Series

- > Sterilization of solids: with fast release of steam
- > Sterilization of liquids: with variable natural cooling
- > Sterilization of liquids: with optional rapid cooling for thermolabile materials
- > Sterilization of liquids: with subsequent warming cycle
- > Pressure cooker program: prepares Agar and keeps it ready for processing (100 °C)
- > Sterilization of Agar is possible with the sterilization program for liquids
- > Timer-controlled program: loading the autoclave in the evening - sterile and ready for punctual removal in the morning
- > Automatic standby operation: saves energy
- > **Adaptions for customized programs are always possible**

Horizontal table-top autoclaves

HMT-Series

Space-saving and convenient

Find the autoclave suitable for your application!

The sterilizers are divided into two groups, the series „S“ and „B“. Which autoclave is suitable for your application should be determined during an individual consultation. Our product specialists are happy to assist you.



The HMT family

Table-top autoclaves

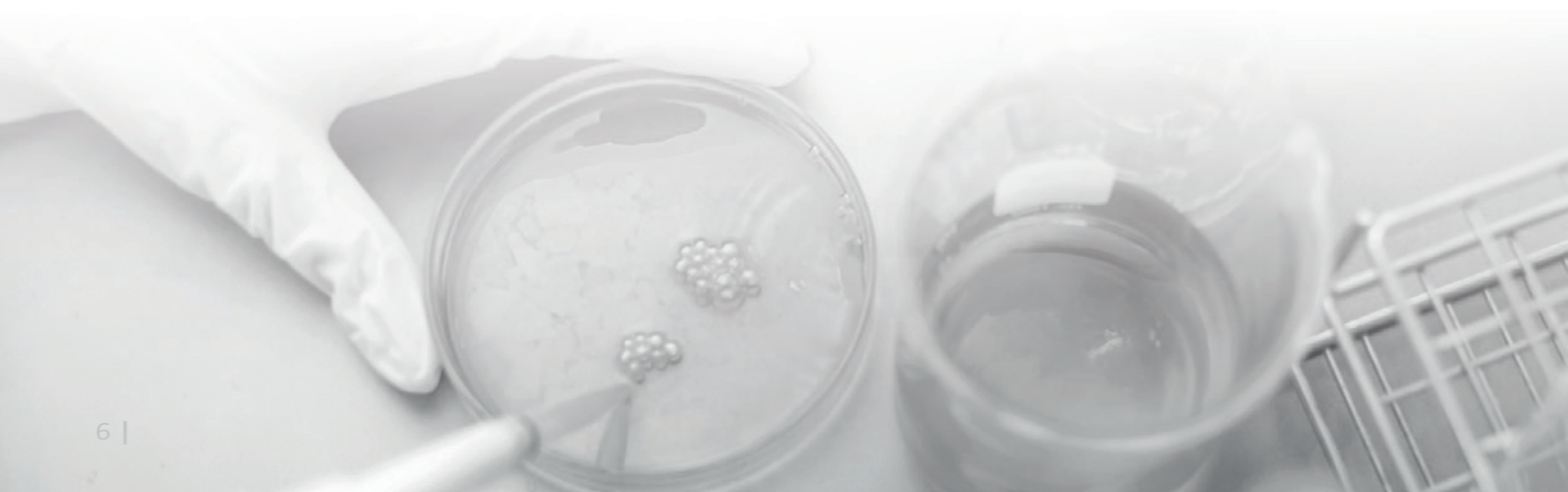
Perfect for easy tasks
in your laboratory

Are you looking for...

- ... a way to sterilize all heat resistant laboratory instruments if they are suitable for sterilization?
- ... a way to sterilize unpacked instruments only?
- ... loading accessories for different applications?

Our solutions for you:

- > **B-series autoclaves, e.g. our HMT 260/300 MB with vacuum, drying function and printer:** the air is removed from the sterilization chamber repeatedly with a fractionated pre-vacuum. Due to this the steam can sterilize vapour-permeable packages and hollow products.
- > **S-series autoclaves, e.g. our HMT 230/260/300 MA with vacuum and drying function or HMT 230/260 FA.**
- > From a batch system to loading baskets: our accessories make it possible to configure the autoclave according to your requirements.



Excellent temperature accuracy and reliability

Features at first glance:

- > Temperature range from 2°C above room temperature up to +80°C
- > Available in five sizes (with 25, 60, 130, 260 and 420 liters of usable volume)
- > Safety thermostat and independent control system to protect your samples
- > Double door variant with inner glass door for a convenient overview of your samples
- > Variable fan speed
- > Decontamination routine
- > Forced air circulation/mechanical convection
- > Control of the decontamination routine via display
- > Lockable rollers for great mobility (optional)
- > Passages for data logging for use with external sensors (optional)

Highest quality and fine control by reliable electronics

- > Simple and intuitive working guarantees you the best possible results
- > Real-time programming is a standard option for the devices
- > Temperature profiles can be programmed via the control panel
- > The interior of all units is made of stainless steel for the highest level of quality, resistance to corrosion and a very easy cleaning
- > Fine adjustments in the entire temperature range can be made because all control elements of the InQ Pro-Series have been successfully tested with regard to their electromagnetic compatibility (EMC) and according to EN 61010, EN60730-1 as well as EN 60730-2-14
- > The modern software allows to program two different temperatures at different times
- > An independent control system additionally monitors the sensors
- > Data Logging and control by both the CTS and a PC or via a gateway is possible
- > SD slot as a standard option



Customization options e.g. orderable without inner glass door or with lockable rollers for table-top units

Microbiological safety cabinets class I and II

From miniature to XL - tailor-made solutions for you!

Features at first glance:

- > Built according to DIN EN 12469
- > Biological safety cabinets, class I and II
- > Highest personal, product as well as carry-over protection
- > Negative pressure system
- > Available in different sizes:
 - HMC Safeguard Pro 600 with a width of only 600 mm
 - HMC Safeguard with internal dimensions of 900, 1200, 1500 or 1800 mm and with external dimensions of about 1000 to 1900 mm
- > Latest technology
- > Remarkably low noise level and power consumption
- > Many different features

Overview of the Safeguard-Series

HMC Safeguard Pro-Series - the classic:

- > Safety in miniature size with the HMC Safeguard Pro 600 with an external width of only 600 mm
- > For more spacious working also available as
 - HMC Safeguard Pro 900
 - HMC Safeguard Pro 1200
 - HMC Safeguard Pro 1500
 - HMC Safeguard Pro 1800

HMC Safeguard Premium-Series - for highest demands:

- > Aerosol-tight windshield
- > Outstanding ergonomics
- > Integrated multi-angle UV system (optional)
- > Inner rear wall of work area made of AISI 304 or AISI 316 stainless steel (optional)
- > Available in four sizes
 - HMC Safeguard Premium 900
 - HMC Safeguard Premium 1200
 - HMC Safeguard Premium 1500
 - HMC Safeguard Premium 1800



HMC Safeguard Pro 600
Safety in miniature size

Your safety is our top priority!

HMC Safeguard Cyto-Series - double HEPA-filtered air:

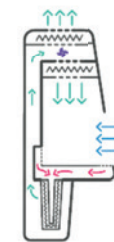
- > Highly sophisticated 3-filter cabinet
- > Easily replaceable H14 cartridge pre-filters, featuring an exceptionally low pressure drop
- > Built in accordance with DIN EN 12469 and DIN 12980
- > Compact design of the H14 pre-filters' cartridges allows a more comfortable sitting position with excellent leg space below the safety cabinet
- > Available in four sizes
HMC Safeguard Cyto 900
HMC Safeguard Cyto 1200
HMC Safeguard Cyto 1500
HMC Safeguard Cyto 1800

HMC Safeguard XL-Series - gigantic:

- > Plenty of space for the most demanding tasks
- > Individual configuration with short delivery times
- > Available in three sizes
HMC Safeguard XL 1200
HMC Safeguard XL 1500
HMC Safeguard XL 1800



HMC Safeguard Cyto
*Schematic drawing of the
airflow for double HEPA-
filtered air and safe working*



■ Contaminated air
■ Filtered air
■ Ambient air

Additional features:

- > Electrically adjustable front window
- > Intuitively operable display with touch-screen
- > Visual and audible alarm signals according to the strict standards of TÜV Nord (Germany)
- > Two sockets (230V, 50/60Hz)
- > Suitable for clean rooms
- > Support stand (optional: electrically height adjustable)



Do you need a custom built model? We offer many different configuration options.

Drying ovens TS Pro-Series

Fine adjustments in the entire temperature range

Features at first glance:

- > Temperature range up to +250°C
- > Automatic and programmable ventilation flap, electrically adjustable
- > Forced air circulation/mechanical convection
- > Safety thermostat and independent control system
- > Data logging & remote diagnostics (optional)
- > Available in five sizes (with 26, 60, 135, 260 and 430 liters usable volume)
- > Fast hot air sterilization processes
- > Lockable rollers for the best mobility (optional)
- > Continuous real-time check of the temperature sensors

Easy operation and highest reliability

- > Working as simple as it is intuitive for the best possible results
- > Highest quality and fine control by reliable electronics
- > Real-time programming is a standard option for the devices
- > Temperature profiles can be programmed via the control panel
- > The interior of all units is made of stainless steel for the highest level of quality and resistance to corrosion
- > Fine adjustments in the entire temperature range can be made because all control elements of the TS Pro-Series have been successfully tested with regard to their electromagnetic compatibility (EMC) and according to EN 61010, EN60730-1 as well as EN 60730-2-14
- > An independent control system additionally monitors the sensors
- > Data Logging and control by both the CTS and a PC, or via a gateway is possible
- > SD slot as a standard option



Optional accessories available, e.g. for stacking the devices safely on top of each other (space saving in your laboratory)

With our certified technicians and service partners we are always at your side.

You already own an HMC device and need technical support?

With our **trained technicians** and our service network all over Europe we are happy to assist you. Your safety and satisfaction in handling your HMC autoclave or safety cabinet are our top priorities.

We are happy to assist you:

- > **Installation and commissioning** of all HMC Europe autoclaves, incubators, biological safety cabinets and drying ovens on request
- > **Calibration of safety cabinets:** Testing and adjustment of air flows (Inflow and Downflow) and filter test (Downflow and Exhaust) on site according to DIN EN 12469.
- > **One-time maintenance services**
- > **Regular maintenance services** based on a convenient maintenance contract
- > **Data log** (Measurement of temperature and pressure inside the chamber of the autoclave)
- > **Pressure equipment test for autoclave chambers according to BetrSichV**
- > **Final DGUV-3** (test for electrical safety) after every maintenance/repair
- > **Support by phone** for minor issues
- > **On-site repairs**



For an interactive map with our service partners and additional information please visit our homepage: www.hmc-europe.com.

HMC Europe is your perfect partner for peak performances.



Individual and experienced consulting and extensive customer service: We provide excellent consulting service and active support for our customers from the first offer to commissioning, shipping and maintenance of your new devices.



You want to start immediately? No problem! We **deliver reliably and punctually, even in times of crisis.** Almost all units are in stock.



We will support you with our **skilled technicians and service network all over Europe.** Whether you need a modification, repair or a maintenance service, we are at your side.



Safety produced in series: Every HMC Europe autoclave, incubator, biological safety cabinet or drying oven is built in modern factories according to latest technology.

We also support you in servicing your HMC products. Just ask for our maintenance contracts!

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