

# vötschoven Hot-Air Sterilisers VHS and VHSF



# Play it safe!

Controlled and reliable production of pharmaceuticals, agents and products - we'll support you in that.



## Dry heat sterilisation for better safety in the life sciences industries.

The fabrication of products in the fields of pharmaceutical, medical, genetic engineering, biotechnology and food industries is facing a constant increase in quality standards to be fulfilled safely. Consequently, CMP- and FDA-compliant\* products from **weisstechnik** are increasingly used around the world. In addition to our heating and drying chambers, leading companies and laboratories count on our innovative and reliable **vötschoven** Hot-Air Sterilisers.

### Why? That's why!

Wherever quick, safe and cost-efficient sterilisation is what you're looking for, dry heat sterilisation or depyrogenation is a most favourable alternative, as this method requires nothing but hot air. It accelerates the sterilisation process

significantly, saving not only time, but also money. Moreover, the investment costs involved are relatively low. Due to the high temperatures, no chemicals are needed here to achieve full sterilisation, resulting in even more advantages:

- Unproblematic operation of facility
- Simple maintenance and cleaning
- Safe working conditions, as there is no danger from hazardous additives
- Excellent ecological properties
- Low operational costs

\*GMP: Good Manufacturing Practice, FDA: Food and Drug Administration.

# You can count on it!

**vötschoven** Hot-Air Sterilisers VHS and VHSF.

## Individualised as standard.

We offer an extraordinary range of hot-air sterilisers for the clean room classes ISO 5 and 7 according to EN ISO 14644-1. Equipped with newest technology, e.g. pressure-controlled inner chamber, automatic door closing, HEPA filter monitoring, system control SIMPAC® for maximum protection of the products.

All sizes are available as stand-alone devices as well as ready for installation in a wall. We even offer pass-through versions with doors on both the front and back to separate your clean room from the unsterile area. In this design, the doors are equipped with an electric lock so only one door can be opened at a time (lock function).



## No chance for pyrogens!

Temperatures from +250 °C will also eliminate any critical pyrogens that may emerge in the production of injectable solutions, such as dead bacteria left from the sterilisation process.

### Our highlights:

- Clean room classes ISO 5 or 7 according to EN ISO 14644-1
- 4 different sizes available in each ISO class
- Latest technology for maximum product protection
- Pharma qualification package according to EU GMP as well as manufacturer's DQ, IQ and OQ documents

# Whenever it needs to be pure.

The professional vötschoven Hot-Air Sterilisers.

Compliant:  
ISO 5 + ISO 7  
DQ/IQ/OQ



- Modular equipment system to adapt to your product volume
- Integration into the production process with dedicated loading trolleys



- Integration into your clean room production environment
- Ergonomic loading via carrier and prefix trolley



- Hot-air sterilisation for batch operation according to GMP guidelines
- Energy-efficient solution due to integrated cross heat exchanger for heat recovery for the process



- Flexible chamber use for a variety of product vessels and batches
- Front installation in the clean room minimises particle and heat load
- Separation of clean room areas (lock function)



# Convincing technology. Reliable results.

The performance data at a glance:

vötschoven Hot-Air Sterilisers			75/75	75/100	100/150	125/200
Interior dimensions	Width	mm	750	750	1000	1250
	Height	mm	750	1000	1500	2000
	Depth	mm	750	750	1000	1250
Exterior dimensions (VHS)	Width	mm	1650	1650	1900	2150
	Height	mm	2500	2280	2780	3280
	Depth	mm	1065	1065	1310	1565
Exterior dimensions (VHSF)	Width	mm	1880	1880	2190	2440
	Height	mm	2500	2280	2780	3280
	Depth	mm	1065	1065	1310	1565
Effective space	l		420	560	1500	3125
Nominal temperature	°C		250 (300, 350*)	250 (300, 350*)	250 (300, 350*)	250 (300, 350*)
Heat output	kW		12	16	27	36
Connected load	kW		14	18	29	39
Rated voltage	V		400	400	400	400
Horizontal air flow			←	←	←	←

\*Option.

## Options for your individual solutions

We offer a wide range:

- Pass-through versions with lock function
- Variety of additional sensors for monitoring
- Process visualisation
- S7 control by Siemens

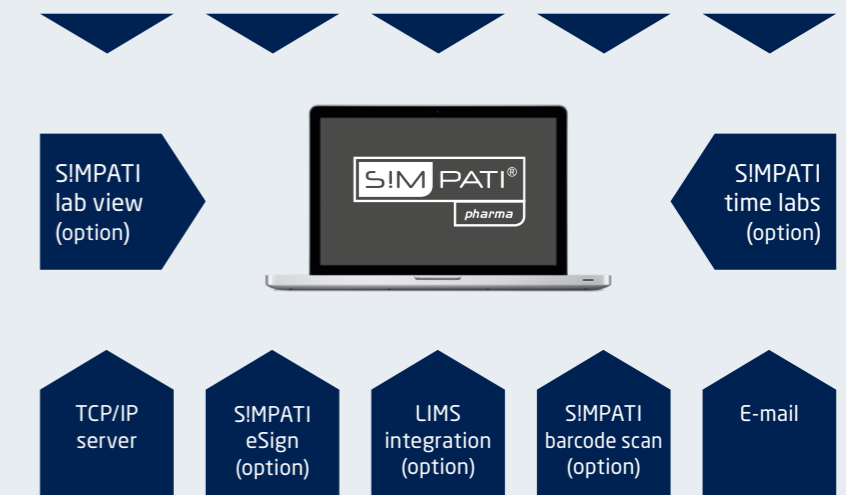
# Become more efficient.

Our solutions will save you time and money.

Our control and documentation software SIMPATI pharma enables you to efficiently monitor your facilities and systems. In addition, validation documents according to GAMP are provided for the monitoring system.



- Recording of warning and alarm messages (Audit Trail), notification by e-mail if necessary
- Access rights can be set individually for each user
- Tamper-proof storage of all data
- Compliance with FDA 21 CFR Part 11 and EU GMP Annex 11 according to manufacturer's declaration



We measure ourselves by our service!

24/7-Service-Helpline:  
+49 1805 666 556

Our services - lots of good reasons:

- Global service network
- Wide range of preventive maintenance
- Reliable spare part supply
- Special deployments available any time
- Certified proper disposal of outdated devices

Our Service Experts are always near you.

Everything under control. With the original.  
Our hot-air sterilisers offer GMP- und FDA-compliant clean room conditions.

# Passionately innovative.

We work in partnership to support companies in research, development, production and quality assurance. With 22 companies in 15 countries at 40 locations.

weisstechnik

For a safe future.



## Environmental Simulation

The first choice for engineers and researchers for innovative, safe environmental simulation facilities. In fast motion, our test systems can simulate all the influences in the world as well as for instance in space. In temperature, climate, corrosion, dust or combined stress tests. With a very high degree of reproducibility and precision.



## Air Solutions

As the leading provider of clean rooms, climate technology and air dehumidification, we consistently ensure optimal climatic conditions for people and machines. For industrial production processes, in hospitals, mobile operation tents or in the field of information and telecommunications technology. From project planning to implementation.



## Heat Technology

Experienced engineers and designers develop, plan and produce high-quality, reliable heat technology systems for a broad range of applications from heating and drying cabinets to microwave systems and industrial furnaces.



## Pharmaceutical Technology

With decades of experience and know-how, we guarantee the most sophisticated clean air and containment solutions. Our comprehensive and innovative range of products includes barrier systems, laminar flow systems, safety workbenches, isolators, airlocks and stability test systems.



Scan here to see the product.

## Weiss Technik GmbH

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Test it. Heat it. Cool it.

Illustrations may contain options. Subject to technical changes.