

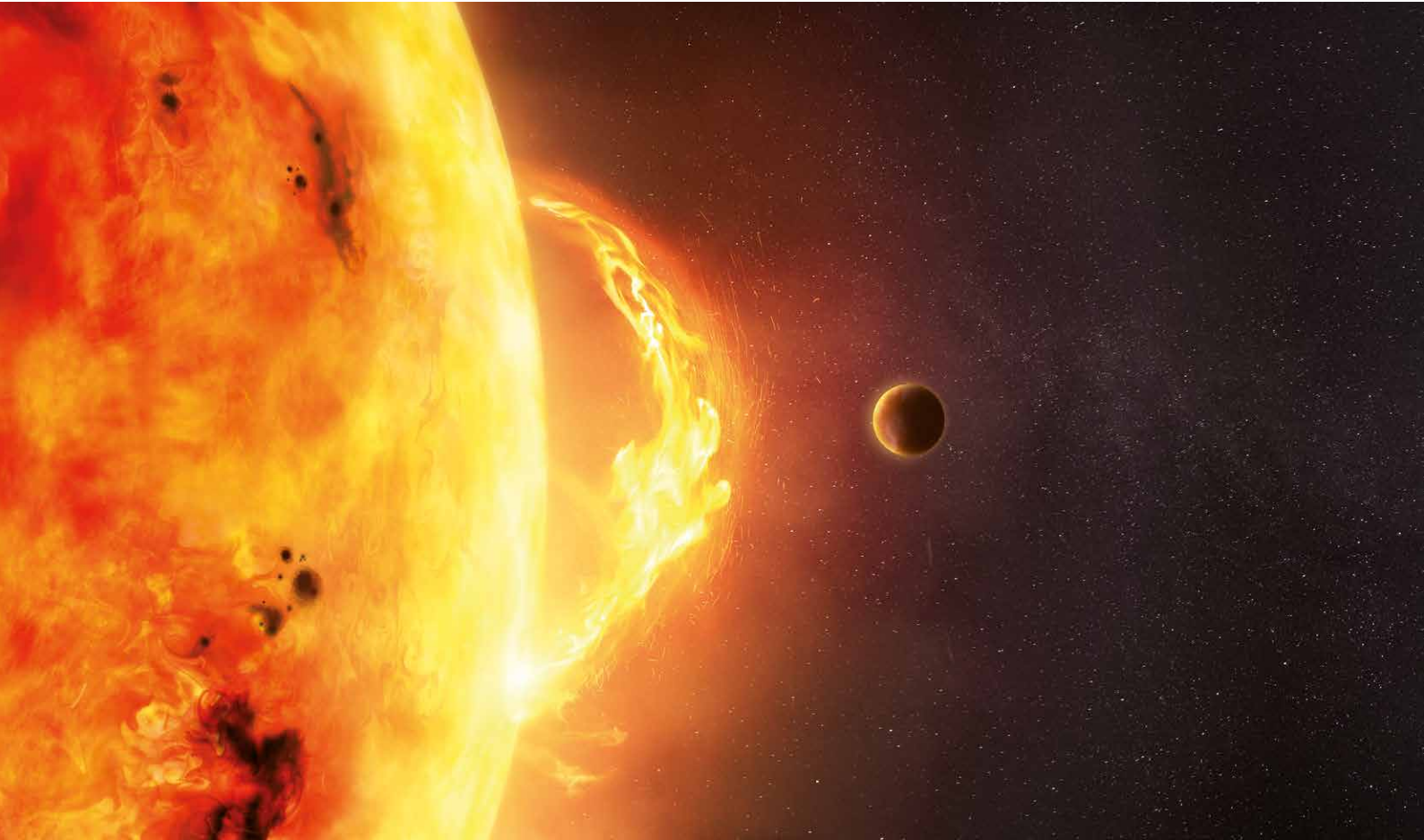
weisstechnik[®]
a schunk company

vötschoven
Heating and
Drying Ovens
HeatEvent



You can count on it!

Whether lightweight CFK components or optical lenses - you want to manufacture reliable high-quality products on the shop floor. We provide you support to do so.



Hot. Hotter. HeatEvent.

Reproducible results plus the resulting product quality, minimum space requirements, short processing times and a high level of productivity are the requirements in all industrial production areas. With the **vötschoven** Heating and Drying Ovens HeatEvent, your components and materials can be reliably, quickly and energy-efficiently heat treated at temperatures of up to 400 °C. In this way, you will manufacture excellent products 24/7, 365 days a year.

Competence for each process.

No matter how you want to use it - we have the right oven. Thanks to the high flexibility in basic and special ranges, we are able to meet your exact requirements so you can receive customised solutions in virtually all areas. Whether electric, gas or oil, heat transfer media, infra-red radiation or microwaves - from the different methods of heating we offer the best solution for your particular process.

Often copied, never matched.

vötschoven Heating and Drying Ovens HeatEvent.

Completely sophisticated.

For over 100 years, we have considered your needs and we know what is important for your processes: reliable and reproducible production results in the shortest time. This is ensured by high heating capacity, high air exchange and short recovery times after opening of the door. And thanks to the powerful, even temperature control in the use space, your products are subjected to the same conditions whatever their shape and properties. What you can perfectly rely on.

Perfectly manufactured.

Currently, more than 20,000 of our heating and drying ovens are in use. To ensure dependable and trouble-free operation, we draw on modern production methods and only use high-quality material and components. In this way, the quality remains consistently at a high level. Our greatest principle, without any ifs and buts.

Absolutely low maintenance.

Thanks to intelligent, well-matched control elements and intuitive user interface, our ovens are simple to operate and absolutely easy to service. Readily accessible components as well as a diagnosis and inspection system installed as standard guarantee short service and repair times. Good for you!



Our highlights:

- Smallest footprint with the largest use space
- Low energy consumption thanks to IE3 motors, optimised heat output, insulation and reliable door sealing designs
- World's largest range of options and accessories in addition to comprehensive basic equipment

More equipment, right from the start.

Basic equipment setting standards.



You can find further details on equipment in our technical descriptions. **Contact us.**

Exterior



- **Easy access**

You have full access to the effective space when the door is opened at an angle of just 90°. Combined with a front access switch box, it has the smallest space requirement in its class. Therefore, you have more free space without reducing the furnace capacity.

- **A device that grows with your requirements**

The innovative housing construction and the flexible configurability of the control system allows the easy subsequent addition of further components during the production phase or after delivery. If your processes change, we simply adjust your device.

Regulation & Control



- **Intelligence included**

The control system SIMPAC®, which is included as standard, allows the creation of complex temperature programmes and the automation of your processes – also in accordance with AMS 2750E or CQI-9.

- **Become independent**

The innovative user interface WEBSseason® allows you to also monitor your processes using a smartphone or tablet when you are out and about. Thanks to the individual allocation of user rights, several users can access the device at the same time.

Safety



- **Don't let anything get burned**

In addition to the target temperature setting, the individually adjustable test material protection system ensures your process safety. Digital and analogue inputs and outputs allow for comprehensive sensor technology and the control of numerous actuators – all without a complex bus system. Thanks to a potential-free contact, even the smallest interference is discovered and communicated to the higher-level monitoring system.

Reliable control as a standard:

Digital measurement and control system for operating and monitoring the heating and drying oven and for documenting the process parameters.



Tailor-made production.

Optional equipment for individual solutions.

Interior



- **Some like it really hot**
If required, the standard temperature range can be increased from +220 °C up to +400 °C.
- **When speed is the key**
The drying process can be additionally accelerated by an increased air exchange rate. Faster cooling can also be achieved in this way.
- **Tailor-made feeding**
Even temperature control without adhesion is achieved for bulk material by using a rotary drum. Whether push loading drawers, grates, insertions or loading trolleys - we have a suitable solution for every application.

Regulation & Control



- **Set standards in communication**
The software SIMPATI allows for easy operation, documentation and archiving of your batch protocols.
- **100% traceability**
The optional module SIMPATI barcode scan is an ideal addition for batch registration and stock management. The process data is simply scanned and in this way it allows batch numbers and product IDs to be entered almost without any errors and process workflows to be automatically allocated to the individual products.



You can find further details on equipment in our technical descriptions. **Contact us.**

Developed exclusively for you:
The unique software package for the perfect batch protocol.



Play it safe.

Dryers and Industrial Ovens for drying flammable solvents.

Safe mastering of the drying and heat treatment processes using tailor-made special equipment.



You can find further details on equipment in our technical descriptions. **Contact us.**

In the case of processes such as drying surface coatings, sizing varnish and impregnating resins the released substances (e.g. solvents) could mix with air to form an explosive mixture. If an ignition source is also present, there may be an explosion. **vötschoven** Dryers and Industrial Ovens HeatEvent F meet the advanced safety requirements of EN 1539 and allow the drying and heat treatment processes to be safely controlled by limiting the amount of solvents.

Exterior



- **Optimally ventilated**
So that no explosive solvent-air mixtures are formed in the effective space, a defined amount of hot air is constantly conducted away by an exhaust air fan and is replaced with fresh air.
- **Everything sealed**
In order to prevent flammable materials from penetrating and mixing in the heat insulation, all points where the construction elements meet in the interior space are welded to create a seal.
- **Turn down and relax**
The outward airflow can be reduced by 25 % after the end of the main evaporation phase. This allows for enormous energy and CO₂ savings – and, as a result, cash savings!

Safety



- **Total monitoring**
Observing the EN 1539 standard is no joke for us. We do not leave anything to chance and monitor absolutely everything – from the circulation and exhaust airflows to the maximum temperature and the minimum drying temperature profile. The safety-related parts of the control system meet the performance level d to optimally minimise risks.

Ask the experts:

The permitted amount of flammable material is heavily dependent on the intended purpose. Contact us and we will design an ideal safety concept for you.

Convincing technology. Reliable results.

The performance data at a glance:

| Heating and Drying Ovens HeatEvent | | | | | | | | |
|---|-------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Type | | 60/60 | 60/90 | 75/125 | 100/150 | 125/200 | 150/200 | 200/200 |
| Use space volume | m ³ | 0.216 | 0.324 | 0.7 | 1.5 | 3.125 | 4.5 | 8.0 |
| Inner chamber dimensions, WxHxD | mm | 600x 600x 600 | 600x 900x 600 | 750x 1250x 750 | 1000x 1500x 1000 | 1250x 2000x 1250 | 1500x 2070x 1500 | 2000x 2070x 2000 |
| Exterior dimensions, WxHxD | mm | 1000x 1595x 950 | 1000x 1890x 950 | 1670x 2150x 1190 | 1960x 2305x 1440 | 2210x 2805x 1680 | 2460x 2805x 1940 | 2960x 2805x 2440 |
| Footprint, WxD | mm | 1000x850 | 1000x850 | 1670x1190 | 1960x1440 | 2210x1680 | 2460x1940 | 2960x2440 |
| Rated temperature | °C | 220/300/ 350 | 220/300/ 350 | 220/300/ 350/400 | 220/300/ 350/400 | 220/300/ 350/400 | 220/300/ 350/400 | 220/300/ 350/400 |
| Temperature distribution, spatial K at 220°C (recirculating air mode) | K | ±2.0 | ±2.5 | ±2.5 | ±2.5 | ±2.5 | ±3.0 | ±3.0 |
| Temperature distribution, spatial K at 300°C (recirculating air mode) | K | ±2.5 | ±3.5 | ±3.5 | ±3.5 | ±3.5 | ±4.0 | ±4.0 |
| Heating-up time to 220°C | min | 18 | 22 | 18 | 18 | 23 | 35 | 35 |
| Recovery time to 220°C after 30 sec | min | 2.5 | 2.5 | 2.5 | 2.5 | 3.0 | 3.5 | 3.5 |
| Heat output (220°C) | kW | 7.2 | 14.4 | 18.0 | 26.4 | 39.6 | 52.8 | 52.8 |
| Recirculating air volume flow | m ³ /h | 1200 | 1200 | 2400 | 3400 | 5400 | 6000 | 9000 |
| Exhaust air volume flow | m ³ /h | 30 | 35 | 60 | 90 | 120 | 120 | 120 |
| Shelves | max. | 8 | 10 | 12 | 15 | 20 | -- | -- |
| Empty weight | kg | 295 | 330 | 550 | 820 | 1150 | 1400 | 1770 |
| Rated voltage | V AC | 400 3/(N) PE | | | | | | |
| Rated frequency | Hz | 50 | | | | | | |
| Protection class | | IP 54 | | | | | | |
| Additional features for Dryers and Ovens HeatEvent F | | | | | | | | |
| Type | | 60/60 | 60/90 | 75/125 | 100/150 | 125/200 | 150/200 | 200/200 |
| Exterior dimensions, WxHxD | mm | 1000x 1590x 1170 | 1000x 1890x 1170 | 1670x 2180x 1190 | 1960x 2695x 1440 | 2210x 3205x 1680 | 2460x 3205x 1940 | 2960x 3205x 2440 |
| Solvent quantity at 220°C | g | 13 | 17 | 34 | 55 | 85 | 100 | 135 |
| Solvent quantity at 300°C | g | 9 | 12 | 24 | 40 | 63 | 75 | 104 |
| Exhaust air volume flow in solvent production | m ³ /h | 102 | 138 | 240 | 360 | 480 | 480 | 480 |
| Vapour chamber volume | m ³ | 0.369 | 0.502 | 1.285 | 2.447 | 4.615 | 6.431 | 10.957 |

Become more efficient.

You'll save time and money with our solutions.

Get the most out of your test facility.



Create your own perfect testing process with the software SIMPATI simulation package.

Process management/documentation/networking

- Up to 99 systems can be networked
- Programmes for automatic processes
- Documenting, visualising and managing process data
- Traceability of process data for seamless quality control



We measure ourselves by our service!

Our services - lots of good reasons:

- Global service network
- Wide selection 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.

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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.

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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.

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WT HeatEvent / 01.3 EN / 2023-04

Test it. Heat it. Cool it.

Illustrations may contain options.
Subject to technical changes.