vötschoven

Safe drying for high-risk materials.

Protected drying ovens.

weiss-technik.com

vötschoven.
Hot. Reliable. Efficient.

Always close by.
There for you in partnership.

Safe drying – even for hazardous materials.

vötschoven protected drying ovens ensure safe processing of combustible materials. They enable large quantities of flammable solvents to be handled in compliance with ATEX regulations and explosives to be treated according to EU Directive 2014/28/EU and the standard DIN VDE 0166. The systems are suitable for installation in both industrial laboratories and production environments.

Our flexible system design ensures efficient, safe and reliable drying processes.

Innovation through passion.

With 22 companies at 40 locations in 15 different countries, we work in partnership to support customers in the areas of research, development, production and quality assurance.

We engage in strategic cooperation with our customers, from the R&D phase to the start of production. With our continuously expanding team, we ensure that reliable support and service are close at hand – wherever you may be and wherever you want to go.

Customised solutions from a single source.

Our specialists for reliable drying and avoiding explosion hazards.

Especially for applications involving the handling of combustible material, we have been developing, planning and producing customised systems with our experienced team for decades. Our project process comprises three steps:

1. Non-disclosure agreement and technical coordination
- Samples: product quantity and consistency, MSDS, temperature classes
- Process parameters: temperature, precision, air exchange and air flow rates, explosive zone definition
- Handling concept: trays, carriers, trolleys

2. Project planning and pre-engineering
- Experience-based system layout and process testing in the application centre in Germany (VFT only)
- Safety calculation and definition of final process parameters and the degree of automation
- Technical specification with detailed explanation of the system

3. Implementation of the solution
- Individual routine testing and FAT on demand
- Installation and commissioning
- SAT on demand and after-sales support

VFT fresh air drying oven.

Technical data
Nominal temperature: max. 200°C[1]
Inner dimensions:
W600 H900 D600 (mm)
Heat output: 11kW
Forced fresh air convection rate:
with 2m³/min.

[1] depending on temperature class

System description
- PID temperature controller, JUMO diraTron 104
- Temperature limiter for oven protection
- Temperature limit cut-out for product protection
- Inner chamber made of stainless steel (1.4301) for corrosion protection, tight welded
- Accessible for ergonomic loading of up to 13 wire-mesh shelves

Highlights:
- For drying very large quantities of solvents in temperature classes T1, T2, T3 or T4
- Type examination TÜV 16 ATEX 7810 X
- Reproducible processes thanks to homogeneous temperature distribution in the entire working chamber
- Space-saving compact design
- Minimal compressed air consumption in normal operation

VTUW remote heating oven.

Technical data
Nominal temperature: 160°C
Inner dimensions:
W750 H1250 D750 (mm)
Heat output: 18kW
Forced circulating air, exhaust
air flow rate: approx. 1.5m³/min.

System description
- Temperature display with mechanical thermometer
- Temperature limiter for oven protection
- Inner chamber made of stainless steel (1.4301) for corrosion protection, tight welded
- Explosion-zone-2 control and display box
- EX circulation fan according to DIN EN 14986
- External tempering unit

Highlights:
- Unit acc. to ATEX 2014/34/EU requirements
- Inner space for device group II, cat. 2G (zone 1)
- Oven placement for device group II, cat. 3G (zone 2)
- Special solutions possible (e.g. clean room design, silicone-free, with inert gas, special trolley ...)
- Different sizes possible with inner volumes of 700 to 8,000 litres

VTW explosives drying oven.

Technical data
Nominal temperature: 120°C
Inner dimensions:
W600 H1250 D600 (mm)
Heat output: 12kW
Air flow and fresh air exchange
via natural convection.

System description
- Temperature display with mechanical thermometer
- Temperature limiter for oven protection
- Chamber made of stainless steel (1.4301) for corrosion protection, tight welded
- Equipotential bonding
- External tempering unit
- Small footprint for easy integration

Highlights:
- For drying open handled explosives acc. to VDE V 0166
- Inner space designed for zone E1
- Oven can be placed in a zone-1 installation space
- Compact system, also for use in laboratories
- Heating of the product via water-heated plates inside the oven

We measure ourselves by our service.

Our services –
lots of good reasons:

24/7 service helpline:
+49 1805 666 556

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

Our service experts are always happy to help.

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WT High-risk Materials Flyer / 1.1 EN / 03 2026

Test it. Heat it. Cool it.