



Products of
Weiss Pharmatechnik.



www.weiss-technik.info

Our values, our objectives.



Weiss Pharmatechnik - About us

- 1979 Founding of GWE GmbH in Hude, Lower Saxony
- 1982 Founding of BDK GmbH in Sonnenbühl, Baden-Württemberg
- 1998 Acquisition of BDK by Weiss Klimatechnik
- 2001 Acquisition of GWE by Weiss Klimatechnik
- 2015 Merger of BDK and GWE to form Weiss Pharmatechnik GmbH with its headquarters in Hude



Bernd Weber
Managing Director of
Weiss Pharmatechnik

Handling hazardous substances in a safe manner is a real challenge. On the one hand, it is a matter of protecting employees against escaping emissions, whilst on the other hand, product cleanliness must be guaranteed. At Weiss Pharmatechnik, we offer a solution for this: our special safety workstations.

Weiss Pharmatechnik is an amalgamation of two companies steeped in tradition: GWE and BDK. Our experience in the technically challenging areas of protecting persons and products extends back more than 30 years. The names of both company founders of the GWE, Manfred Wiechmann and Wolfgang Bornhold, can still be seen today in the product names of the WIBObarrier® and the WIBOjekt®.

We have since been working on optimising our air flow control systems, constantly designing new equipment options and expanding our product range. This includes safety workstations for clean rooms and the laboratory area, as well as heat technology equipment, to name but a few examples. In 2015, we expanded our range of products to include stability testing systems for pharmaceuticals and cosmetics, in order to guarantee the reliable storage of pharmaceutical products.

Around 120 qualified specialists work at Weiss Pharmatechnik today, working towards our joint company mission:

"We enhance the quality of our products and optimise the safety of our customers' processes, by providing innovative and individual solutions to problems. We appreciate and work in partnership with our employees, as a good working atmosphere forms the basis for high performance. Together with our customers and employees, we pave the way for our main objective: to provide high quality and reliable medical provisions on a global level."

We hope that you will allow us to support your company too.

Joining Forces in Pharmaceutical Solutions.

Individual system concepts for your company.

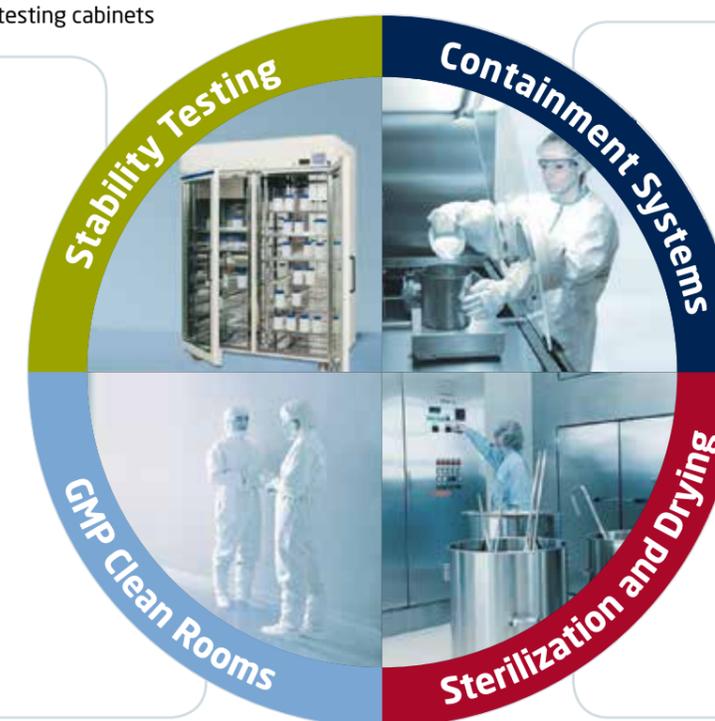
Weiss Pharmatechnik offers you tailor-made technical solutions for companies in the life science, pharmaceutical, chemical, cosmetic, food, electronics and medical technology sectors, as well as for research institutes and laboratories.

STABILITY TESTING

- Stability testing cabinets
- Stability test chambers
- Photostability testing systems
- Alternating climate testing cabinets

CONTAINMENT SYSTEMS

- Barrier system in compliance with DIN EN ISO 14644-1
- Safety workstations
- Laminar flow systems
- Insulators



GMP CLEAN ROOMS

- Clean room cabinets
- Complete clean room systems
- Modular clean room hoods
- Air locks for material and personnel

STERILIZATION & DRYING

- Hot air sterilizers for dry heat sterilization
- Heating and drying ovens
- Vacuum drying ovens
- Continuous oven systems

The WIBObarrier® principle.

Increased protection for employees, products and ambient surroundings.

The WIBObarrier® system was designed especially for working areas, in which it is necessary to protect persons in a stable manner and maintain a high clean air quality. These innovative safety workstations operate in accordance with the three-zone principle. The outlet nozzle integrated in the anterior hood region forms a stable clean air curtain, which protects employees, products and ambient surroundings.

The barrier curtain attracts particles, which are created in the product area, like a magnet and guides these directly to the intakes. Even particles which enter the working area due to employee intervention are captured by the clean air curtain and guided to the front suctioning device. The product remains free of contamination. Whilst the product area is streamed with HEPA-filtered clean air, the HEPA-filtered barrier curtain also offers protection against turbulence caused by the employee's movements.

When designing all WIBObarrier® equipment, Weiss Pharmatechnik placed emphasis on adherence to product exposure limits in accordance with OEL-levels and clean air qualities in accordance with DIN EN ISO 14644-1. The WIBObarrier® system is available in closed form (CCS - Closed Containment System) and in open form (OCS - Open Containment System).

The benefits for you

Every WIBObarrier® system is completely tailored to the relevant customer requirements and adapted on an individual basis.



WIBOBarrier® systems.

Our product solutions for your production.



WIBOBarrier® - Open Containment System (OCS)

The open WIBOBarrier® system is an ergonomic workstation, which protects people, products and areas. It is suitable for weighing, emptying and filling, refining and sampling, to name but a few examples. Its tried and tested air flow principle guarantees a robust retention capacity. A mobile front pane - with or without glove ports - can be applied to protect against splashes or spreading.

Complete clean room solutions for sampling

Weiss Pharmatechnik offers you the full product range: from individual clean room workstations - with and without housing - to complex clean room systems for the production process, right through to sampling. The benefit for you is that our experts at Weiss Pharmatechnik take care of the entire process - from planning right through to qualification. In the post-commissioning phase, you will benefit from our comprehensive range of services.

Sampling workstation in a clean room system

The WIBOBarrier® Duo is a safety workstation that can be operated from either side for activities such as sampling, weighing, emptying and filling, and which can be placed in both grey rooms and in clean rooms. The tried-and-tested WIBOBarrier® air flow control system guarantees a high level of protection for products and persons due to its high retention capacity.



WIBOBarrier® - Closed Containment System (CCS)

The closed WIBOBarrier® system is a multifunctional, flexible workstation, which, depending on the application, can be used for purposes such as emptying, weighing or further handling of API (Active Pharmaceutical Ingredients). The closed front pane protects the product area. When processing less hazardous substances, the front pane can be raised so that the WIBOBarrier® CCS becomes an open system.

WIBOBarrier® Flow

The WIBOBarrier® Flow is a free workstation which, despite its open design, fulfils increased demands on protection of persons and products. HEPA filters are in the hood, through which the clean air flows into the working range with low turbulence laminar flow. The nozzles integrated in the front region of the hood form a stable clean air separating curtain, which reliably protects the working range from the surroundings. Due to the separating effect of the air curtain, a lamellar curtain is not required, which makes product handling easier. The stable air flow also protects against the infiltration of unwanted particles. This means that emission of the product into the environment and the occurrence of cross-contamination are reduced.



One for all: WIBObarrier® Lab Containment.

The economic containment solution for laboratory use.

In collaboration with the system manufacturer and Excellence United Partner Glatt, Weiss Pharmatechnik has developed an innovative item of equipment which combines the benefits of the WIBObarrier® system with the reliable Lab Containment Technology from Glatt. This new development for the laboratory sector offers you the best possible cost efficiency while at the same time optimising the flow of your processes with different OEB levels.

You can carry out your work efficiently

The intelligent technology of the WIBObarrier® Lab Containment makes it possible to implement several laboratory processes in succession with only one WIBObarrier® system. Each laboratory process unit or combination of two process units is located on a single mobile workbench, which can be moved into the clean room area with ease. The clean room area is significantly reduced as a result of this and is only present where it is actually being used. This means that you save on space. A complete process chain, for example for granulation, can now be realised with a single WIBObarrier® system, which is equipped with the Lab Containment Technology from Glatt. In order to keep cleaning expenditure as low as possible, control of the process equipment takes place outside of the barrier system.

Higher performance at a lower cost

Another benefit here is that barrier systems from Weiss Pharmatechnik can be expanded to a variable degree according to OEB level and intended use. If you are using well-proven components of the WIBObarrier® system and integrate the new Lab Containment Technology, you will considerably reduce your investments, as you will generally no longer require the usual safety equipment. In order to further increase process efficiency, two WIBObarrier® systems can also be used at the same time. The result is full process flexibility with minimal operating and investment costs.

One WIBObarrier® system for everything

Weighing / granulation / filtering / drying / mixing / tableting / coating



Optimum solutions for weighing portions of material.

High containment systems for Bayer factory.



In order to be able to process highly active materials safely, High Containment Solutions are required. When the pharmaceutical manufacturer Bayer established new areas for weighing portions of material and loading at its Weimar factory, it commissioned Weiss Pharmatechnik.

Work steps are required for the manufacture of pharmaceutical products in which intermediate products must be transferred into containers and then transported. The specific task was to make it technically possible for pharmaceutical materials (API) up to hazardous material class OEL 4 to be weighed out in an isolated area and then transferred to the batch container. For this purpose, it is vital that the systems for the weighing process function in a cost-effective, ergonomic manner under GMP conditions.

Weiss Pharmatechnik supplied two material ante-chambers for inward transfer of the material supply containers into the weighing chambers and two material ante-chambers with a film tunnel for outward transfer of the empty and opened containers without contamination. Both weighing chambers have been fitted with two WIBOBarrier® OCS weighing workstations. The materials are weighed here and transferred into stainless steel containers. Employees then transport the containers for loading. The loading station from Weiss Pharmatechnik consists of one WIBOBarrier® transfer cabin with a work platform, a docking station for the container with vacuum lifting device for the container lid and a lifting device.

The WIBOBarrier® air flow control system provides a high level of protection for products and persons in accordance with DIN EN ISO 14644-1 when carrying out weighing and emptying work. The WIBOBarrier® system offers cost-effectiveness and ergonomics due to additional equipment such as lifting devices for cabinets, working areas for weighing equipment, integrated monitors, storage space for accessories and a support arm system for a scanner or computer keyboard.

The innovative systems protect employees and the environment from contamination and guarantee the cleanliness of the pharmaceutical products.

The WIBOjekt® principle.

Stable protection against emergent pollutants.



The WIBOjekt® safety workstations are equipped with specially designed air outlets through which a clean air curtain is formed, which reliably captures hazardous pollutants such as gases or airborne product dusts and guides these to the back panel for suctioning. This means that it is possible to carry out work in a safe manner with free accessibility. The air outlets ensure that the air stream guides all harmful emissions of discharge air. Even if employees are handling the air curtain, it largely remains stable and protects both the people and ambient surroundings against emergent emissions.

Despite the particularly high capturing and extraction quality, equipment with a WIBOjekt® air system requires significantly less quantities of discharge air than customary suctioning equipment. This means that savings are made on operating expenses and in terms of energy. With the WIBOjekt® principle, numerous cases of applications can be successfully and reliably solved in industrial, medical and pharmaceutical areas of activity.



WIBOjekt® systems.

Solutions for protecting persons in your company.

WIBOjekt® workbench

The WIBOjekt® workbench is available as required in various configurations and options. The clean air curtains are created by the WIBO® ejector nozzles on the hood, back panel or front of the workbench. They are always precisely aligned with one another in assemblies and orientations, as well as in terms of speeds and air quantities.

You can also choose which filter technology you require. All filters are integrated across the entire width of the back panel in compact form. Due to the large air flow surfaces, the quantity of contaminants that are collected in the filter will remain low. The filter can be changed simply and conveniently from the workstation. Due to the fact that the contaminated discharge air is captured and cleaned immediately, long discharge air paths, residues of pollutants and cross-contamination are avoided.



WIBOjekt® chemical emptying station

The WIBOjekt® chemical emptying station is a modified safety workstation for emptying and filling and disposal of new and old chemicals. It is available in different configurations and can be fitted with a barrel holder for large containers and integrated floor suction, if required. The WIBOjekt® emptying station is also available in a configuration conforming with GMP or entirely in plastic, with particularly high resistance to corrosive chemicals.

WIBOjekt® free workstation (FAP)

When carrying out work such as grinding or emptying products for industrial applications, in which it is necessary to protect persons and areas, the WIBOjekt® free workstation is used. The well-proven WIBOjekt® air flow control system configures a targeted flow in the direction of the suctioning back panel with the assistance of special nozzles. Due to the low air quantities required, the WIBOjekt® free workstation also operates in a particularly cost-efficient manner.



The benefits for you

- Individual solutions
- Reliable protection for persons
- Advice, planning and commissioning
- Service and maintenance

BDK® products.

The highest level of protection for products and persons.

For many decades, Weiss Pharmatechnik has been setting benchmarks in the consistent further development of high quality, durable and reliable laminar flow solutions. With our BDK® brand, we offer you the highest possible protection of products and persons according to the state of the art.

All of our laminar flow systems work with a vertical or horizontal low-turbulence air stream or with a vertical air circulation principle. They can be used in different fields:

Our laminar flow systems have been well-proven in laboratories, in research, development, diagnostics, quality control, clean room production, in the case of sensitive optical processes, for installing above filling and closing systems in the pharmaceutical and foodstuff industry, for the protection of products and persons when mixing, filling and weighing highly effective substances in the chemical and pharmaceutical industry and many other contexts.

Applications

Our laminar flow laboratory equipment and systems fulfil air technology requirements in the work area of GMP class A in accordance with EU-GMP guidelines, Annex (manufacture of sterile pharmaceuticals) or air class cleanliness 5 in accordance with ISO 14644-1.



BDK® Laminar Flow systems.

Best level of protection guaranteed.



BDK® Laminar Flow cabinets

In addition to individualised customer solutions, we also construct laminar flow clean air cabinets in different standard configurations. You can choose between the following systems depending on the area in which it will be used:

- Horizontal flow cabinets for **protection of products** (product protection cabinet)
- Vertical air circulation workstations for **protection of products and persons** (safety cabinet)

Protection of products - BDK® Horizontal Flow cabinets HF

The laminar clean air cabinets, type HF, are solely designed for the protection of products and work with a horizontal low-turbulence laminar flow. The working range of the equipment fulfils the requirements of air class cleanliness 5 in accordance with ISO 14644-1.

For this production series, there are no restrictions at the front in terms of construction. It is therefore particularly suitable for anyone wishing to carry out work under clean room conditions, when major, unrestricted access is required.

Protection of products - BDK® Vertical Flow cabinets TVF, KVF and Filter Fan Module (FFM)

The BDK® Laminar Flow cabinets TVF, KVF and Filter Fan Module are designed for pure protection of products. The TVF range is intended to fit on an existing bench. In the KVF type, the platform and the tabletop are integrated. At the front, the working range is restricted with front panes made from polycarbonate or safety glass. The side panes can be pulled forwards. This makes it possible to connect several items of equipment to a clean room line by stringing these together. Filling lines are constructed by means of the Filter Fan Module, for example. These are solely produced in accordance with specific customer requirements.



Protection of products and persons

BDK® Laminar Flow Air Circulation cabins, type WK

Our BDK® Laminar Flow Air Circulation cabins ("weighing cabins") are designed for the highest possible level of protection for products and persons. HEPA-filtered, particle-free and low-turbulence air flows vertically through the working range of the cabin. Dusts that may be released during product handling that may potentially pose a health hazard are made safe and controlled, guided downwards by the targeted air flow control and suctioned. The integrated discharge air system, which generates a slight low pressure in the working range of the sampling cabin, protects the surrounding area against cross-contamination.

Protection of products and persons - BDK® Laminar Flow machine building projects, housings, clean room cabins and modules

A further focus of our range is the production of individual laminar flow systems for building projects of filling and closing machines for the pharmaceutical sector and food industry.

What is more, we offer our customers from the chemical and pharmaceutical industry laminar flow cabins for protection of products and persons for mixing, filling and weighing highly effective substances.

Furthermore, we are able to provide you, our customer, with comprehensive clean room solutions such as the room-in-room system, and individual clean room elements such as clean air hoods. We can offer you the optimal solution for any requirements you have.



Safety workstations for sophisticated demands.

Our products for laboratories, forensics, systems and medical engineering.



Strict safety requirements are in place in laboratories, forensics departments and in systems and medical engineering. If you would like to reliably protect employees and the surrounding area against hazardous steam, aerosols and dust, the safety workstations from Weiss Pharmatechnik are what you are looking for.

With us you will find elaborate, high-performance solutions that both fulfil your functional and economic requirements for optimising work processes, as well as taking into consideration aspects such as workstation ergonomics, safety and health. Place your trust in our many years of experience in the production of laboratory workstations. Our extensive range of products extends from innovative standard equipment right through to customer-specific special configurations.

Established areas of application include the following:

- Emptying and filling, refining and sampling for the pharmaceutical and chemical industry and laboratories
- The assembly of sensitive electronic components in dust-free conditions
- Coating medical and medical engineering products such as implants
- Forensic examinations of evidence

All of our laboratory and systems workstations do, of course, correspond to legal regulations, requirements and standards. In addition to our products, we also offer you extensive service and advisory solutions that will assist you in fulfilling all of the necessary safety requirements in the long-term as well.

The benefits for you

- Highest level of safety
- Individual product equipment
- Advice, planning and commissioning
- Service and maintenance

Weiss Pharmatechnik safety workstations.

All requirements fulfilled.



BDK®-SBV cytotstatic cabinet of class II

The BDK®-SBV cytotstatic cabinets type-tested by the technical control board are ideal for use in pharmaceuticals, pharmacies and microbiological laboratories of protective classes 1 to 4. They exceed the minimum requirements of DIN 12980 and have an additional HEPA preliminary filter unit in the pedal area of the working range.

In contrast to the BDK®-SB, which is designed for working with biological substances, cytotstatic cabinets are suitable for handling highly active substances, in cytotstatic preparation and when dealing with highly toxic CMR substances and carcinogenic substances.



WIBObarrier® economy-safety workstation

This safety workstation was tailored especially to the requirements of product protection and is suitable for clean rooms of class ISO 8.

The WIBObarrier®eco works with the well-proven WIBObarrier® air flow control principle. It protects products and persons and reliably ensures that the objects to be tested are uncontaminated by people or the surrounding area.



WIBOjekt® economy safety outlet

The WIBOjekt® economy safety outlet works with the patented WIBOjekt® air flow control principle, which establishes a stable curtain of clean air and makes it possible to carry out work with hazardous substances in a safe manner. It is perfect for protecting persons or rooms and is available in various configurations. Cabinet housings and racks are made from a hard-wearing aluminium alloy with additional Eloxal corrosion resistance and a high-quality coating. Individual models in this range are also available in an explosion-proof configuration, if required.



HFC^{evo}-safety workstations for laboratories

Our HFC^{evo}-safety workstations combine precise weighing technology and high protection of persons. They are suitable for working with active and toxic substances. Employees and the environment are effectively protected from contaminants due to the use of an efficient filter for volatile particles and an optimised air flow control principle. The light, transparent working area and the ergonomically optimised design allow work to be carried out in a relaxed manner. In order to protect the user for as many operating hours as possible, the ventilator automatically readjusts, e.g. in the event that an increasing quantity of contaminants are collected in the filter.

WIBO® Insulator.

Our insulators are the perfect addition to all Weiss Pharmatechnik systems.



Insulators can be used anywhere where a controlled atmosphere needs to be created away from the installation room. In addition, they offer optimal protection for products and employees. Depending on the area of application, insulators are operated at underpressure for protection of persons and the surrounding area and at overpressure when solely providing product protection.

Weiss Pharmatechnik offers you the suitable insulator as an addition to your system. If you do not yet have a WIBO® system, this is not a problem, as the WIBO® insulator is compatible with other brands. Typical areas of application include microbiological laboratories, parenteral companies, operations involving solid substances or material production, to name but a few examples.

Docking systems and glove port rings also form part of the scope of delivery. The docking double ante-chambers are available in four different sizes. Supply air and discharge air HEPA filters can be changed without contamination. The cabinet housings are made from very high-quality stainless steel.

We are happy to support you in the design and configuration of the entire handling process, right through to the finished system.



The benefits for you

- Protection for persons, surrounding areas and products
- Compatible with established brands
- Comprehensive range of services

This is where heating takes place.

Heat technology for the pharmaceutical sector.

Reliable heat technology protects the high quality requirements in the chemical and pharmaceutical industry. You can find the suitable products that conform with GMP and FDA here.

Dry heat sterilization offers many advantages. As only hot air is applied, reliable sterilization can take place even at high temperatures. The use of chemicals is not required. The sterilization process is multiple times faster than in other procedures depending on the degree of heat, which saves time and money.

The benefits for you

- Clean room sterilizers
- Drying ovens
- Vacuum drying ovens
- Explosion-proof equipment configurations
- Conforming with GMP and FDA
- Qualification and documentation
- Service, maintenance, commissioning



Our hot list.

Our products for your pharmaceutical production.



Dry heat sterilizers VHS

Versatile VHS sterilizers fulfil the requirements of clean air class ISO 7 in accordance with DIN EN ISO 14644-1. The various construction sizes in standard configuration can be used for the sterilization of large containers as well as small parts. The nominal temperature is 300°C. A charging trolley with racks makes it possible to handle this in a flexible manner.

In addition to our standard products, we also produce equipment solutions that are coordinated to your individual requirements. The VHSD GMP in the pushthrough configuration has therefore been specially developed for wall assembly, between the sterile and unsterile areas.

Dry heat sterilizers VHSF

In the VHSF series, the requirements of clean room class ISO 5 in accordance with DIN EN ISO 14644-1 are fulfilled in the sterilization chamber due to a built-in air circulation filter.

The high performance filters for volatile particles (HEPA) make it possible to carry out secure sterilization at temperatures of up to 300°C across the entire sterilization cycle - even when heating up and cooling down.

Dry heat sterilizers of the VHSF 1-4 range are characterised by their laminar flow technology and higher temperature capabilities (up to 350°C) for safe depyrogenation. The laminar, vertical air flow control ensures that the temperature is distributed in a particularly homogeneous manner in the sterilization chamber.

Vacuum heating and drying ovens VVT

With the vacuum heating and drying ovens VVT, pulverulent products and granulates can be dried particularly gently and in a shorter time. Evaporated fluids can also be recovered. All equipment is also available in an explosion-proof configuration.



Weiss Pharmatechnik distributes Vötsch Industrietechnik products in Germany for the pharmaceutical sector. Both companies form part of the Weiss Technik group.

Tested effectively.

Stability testing systems for pharmaceutical products.

Pharmaceuticals are subject to strict rules in Germany, which are often applied to cosmetics as well. In the event of incorrect storage, these products can lose their effectiveness. Therefore, the stability of materials and medications must be proven in long-term tests under defined climatic conditions.

weisstechnik® offers you testing systems with which the test for stability during storage of your pharmaceutical products can be carried out reliably and in accordance with legal regulations.

Our product line ranges from laboratory-scale systems to walk-in climate test chambers for long-term tests. All equipment has the necessary documentation options and fulfils the Q1A and/or Q1B ICH guidelines and national and international standards, such as WHO, FDA and CPMP, to name but a few examples.

We are always there for you

In addition to reliable stability testing equipment, we will provide you with a comprehensive service from the initial consultation right through to maintenance, servicing and repairs.

Test passed.

Stability testing equipment for any incidence.



Solutions for laboratories

Our Pharma 280, 600, 1300 and 2000 testing cabinets have been designed by us especially for stability testing laboratories. Their functionality covers the fundamental requirements of the official recommendation and also grants use for special applications. In the case of the functional principle of humidification, this concerns a patented system, which is permanently monitored by an electronic module. It produces sterile humidity, which is measured using a capacitive humidity sensor.

The WTL and WKL ranges offer reproducible temperature and climate tests directly on the workstation. This series combines a space-saving solution with compact dimensions and a high level of efficiency.

Walk-in test chambers

In addition to individual items of equipment, we offer you reliable stability test chambers that operate with the highest level of precision. They can be validated and correspond to the requirements of ICH guideline Q1A. The insulating cells are designed in such a way that they can be optimally adapted to the existing building structure. The standard height is 2700mm, but other dimensions are also possible. Weiss Pharmatechnik can supply test chambers and test spaces with a volume of 10 m² to 300 m².



Photostability testing cabinets

The photostability testing cabinets Pharma 250-L and Pharma 500-L from Weiss Technik are characterised by ideal light, temperature and humidity distribution and are able to reliably simulate reproducible light and climatic conditions. The lighting equipment complies with ICH guideline Q1B, option 2. This allows photostability tests to be carried out in less than 100 hours. All samples are stored at the same distance from the light source and are evenly irradiated by a special light/UV filter system. The additional installation of light and UV sensors makes it possible to record the radiation values, so that exposure value integration can be carried out.

In addition to our extensive standard range of air conditioning cabinets and walk-in stability test chambers, we offer individual solutions for every requirement in relation to volume and design, as well as all services required for qualification and documentation of the systems.



The benefits for you

- Space and energy-saving solutions
- Qualification and validation services
- Documentation options
- Training and maintenance
- Comprehensive after-sales services

Our extras.

Suitable accessories for your systems.



If you already have one of our systems and you wish to expand this, we offer you a wide range of suitable accessories.

Lifting column, type H 550/H 650

With the Weiss Pharmatechnik lifting column, you can raise and lower loads of up to 120 kg smoothly. The lifting table is opened at the front and lowers as far as ground level, so that the barrels and containers can be driven in comfortably.

The lifting column is optimally designed for Weiss Pharmatechnik workstations for protecting persons and products. Work such as emptying, filling and weighing can be carried out safely whilst maintaining the protection systems. The cabinet is covered entirely in stainless steel, in conformity with GMP. Upon integration of the lifting column into a Weiss Pharmatechnik system, operation is carried out via a two-hand control. The lifting column can also be configured in a special configuration as well as in explosion-proof form, upon request.

Lifting/tilting/turning device, type HKD

HKD equipment makes it possible to lift, tilt and rotate a barrel to the optimal tilting position. The user can remove the product from the barrel safely and easily and carry out further processing. Rotating the barrel also means that residues of the product in the barrel can be reached.

The HKD devices are optimally attuned to the workstations with the well-proven WIBOjekt® and WIBObarrier® systems and can be used whilst maintaining the protection systems. The stainless steel configuration conforms with GMP/FDA and a version with explosion-protection is available upon request.



WIBOclean® personnel and material ante-chamber

The active ante-chamber works according to the principle of rotational cleaning. The person or material stands in the centre beneath the high-performance nozzle rotor and is cleaned from all sides. The optimal combination of small air nozzles and a high pressure ratio ensures highly effective cleaning. The freely adjustable cleaning cycle takes place via a high-performance fan with up to 450-fold air change. In the case of subsequent recovery work, the ante-chamber is cleaned of particles. The active ante-chamber can be used for cleaning and as a continuity ante-chamber between the clean room and the grey room.

WIBOclean® Decontamination Ante-chamber (DKS)

The decontamination ante-chamber from Weiss Pharmatechnik was especially designed for cleaning persons in full protective suits and offers a safe solution for inward and outward transfer from one clean room area into another, in conformance with GMP.

When carrying out inward transfer, the DKS serves as an air ante-chamber and prevents the spreading of airborne particles. When carrying out outward transfer, decontamination takes place by means of wet cleaning. Once the ante-chamber has been entered, the full protective suit is connected to the breathing air supply inside. For safety reasons, the obligatory cleaning programme with water begins automatically upon each outward transfer. After the outward transfer, the self-cleaning programme begins with 360° cleaning.



The benefits for you

- Can be integrated into existing clean room designs
- Uncomplicated expansion of your system
- Configurations in conformance with GMP
- Tailor-made solutions

Fair, fast and effective.

The services we offer you.



You are welcome to give us a call.
We are available 24 hours a day,
7 days a week.
Or send us an email at
service@weiss-pharma.com.

**Weiss Pharmatechnik
Service Centre**

**24/7 service hotline:
+49 (0) 4484-189-110**



For us, service means knowing your requirements and finding lasting solutions for you. We fulfil this claim of genuine partnership at Weiss Pharmatechnik with our services.

Advice

Our expert employees are available to offer help and advice. Whether this be via our telephone hotline or with you on-site: make use of our expertise.

Maintenance and service

By carrying out regular maintenance work on your systems, you ensure safe, economic operation of your equipment and extend its lifespan. Our maintenance and service offers are completely tailored to your individual requirements.

Replacement part management

Weiss Pharmatechnik also plays an active role with regard to replacement part management. We ensure the prompt availability of all replacement and worn parts due to our comprehensive storage. What is more, internal, on-site stocking of parts can be useful if carried out to a manageable extent. We are happy to offer advice in this regard.

Clean room technology

Weiss Pharmatechnik offers the legally stipulated standard evidence of flawless operation especially for modern production under clean room conditions. Our specialists can take over all of the necessary tasks for you in this regard.

Qualifications and re-qualifications

We offer you all qualifications and re-qualifications that are required for safely operating your systems. These form part of FAT, SAT, D1, IQ and OQ.

The benefits for you

- Available around the clock
- Advice, maintenance and repair
- Replacement part management
- Provision of legal evidence
- Qualification and re-qualification

weisstechnik®

Our solutions are deployed around the world in research, development, production and quality assurance of numerous products. Our experts from 21 companies are at your service in 14 countries, ready to provide support to ensure high operational reliability of your systems.

Weiss Umwelttechnik is one of the most innovative and significant manufacturers of environmental simulation systems. With these testing systems, we can simulate all climatic conditions around the globe and beyond, under accelerated conditions. Whether temperature, climate, corrosion, dust or combined shock testing: We have the proper solution. We supply systems in all sizes, from standard versions up to customised, process-integrated facilities - for high reproducibility and precise test results.

Vötsch Industrietechnik, a subsidiary of Weiss Umwelttechnik, offers a wide product portfolio in the field of heating technology. With an experienced team of engineers and designers, we develop, plan and produce high-quality and reliable heating technology systems for virtually any field of application. Products include heating/drying ovens, clean room drying ovens, hot-air sterilisers, microwave systems and industrial ovens. The portfolio reaches from technologically sophisticated standard versions to customised solutions for individual production operations.

A further Weiss Technik company, Weiss Klimatechnik, also offers reliable climate solutions wherever people and machinery are challenged: in industrial production processes, hospitals, mobile operating tents or in the area of IT and telecommunications technology. As one of the leading providers of professional clean room and climate solutions, we deliver effective and energy-saving solutions. Our experts will guide you from the planning to the implementation of your projects.

Weiss Pharmatechnik, a subsidiary of Weiss Klimatechnik, is a competent provider of sophisticated clean room and containment solutions. The product range includes barrier systems, laminar flow facilities, security workbenches, isolators and double door systems. The company emerged from Weiss GWE and BDK Luft- und Reinraumtechnik and has decade-long experience in clean room technology.

Weiss Pharmatechnik GmbH

Wiechmannsallee 3
27798 Hude/Germany
Phone +49 4484 189-0
contact@weiss-pharma.com
www.weiss-technik.info

Weiss Klimatechnik GmbH

cleanroom@wkt.com

Weiss Umwelttechnik GmbH

info@wut.com



Vötsch Industrietechnik GmbH
Heat Technology
info-wt@v-it.com



WPT E/1-01/062016