TECHNOLOGY AND ENVIRONMENT

Technologically outstanding solutions, quality and reliability are the basis of air quality control projects at Keller Lufttechnik. Our competent staff stands ready to assist you.

In order to best address your requirements we have established a customer-oriented organization that ensures you will always have a knowledgeable and experienced staff member at your disposal. In-depth knowledge of your application allows our specialists to develop individual, customized solutions for your air pollution control problems in your plant that will meet the quality standards of tomorrow.

Environmental protection plays a vital part in our approach. Our actions reflect this by our responsible and mindful attitude towards our environment.

With GREEN BALANCE Keller Lufttechnik GmbH + Co. KG commits to reliable, far-sighted treatment of all resources – to bring into line technological progress, operational issues and social targets in order to protect the environment.

Safeguarding the future
TRADITION AND INNOVATION

111 years ago, Keller Lufttechnik began as plumbing contractors. Today we are a global leader in air filtration technology.

The company was founded by Albert Keller in Stuttgart-Uhlbach in 1903. Following the complete destruction of the factory in World War II, his son Otto Keller opened a factory for air pollution control and thermal process technology in Kirchheim unter Teck, in the foothills of the Swabian Jura. In 1952, Heinz-Dieter Keller assumed the reins of the company and established Keller Lufttechnik’s current range of products.

In 1992, the next generation took over. The tradition of the family-owned company is now carried on by Horst and Frank Keller.

Today, Keller Lufttechnik is a world-wide technology company specializing in the capturing and separating of a variety of air pollutants, as well as in the reduction of emissions in industrial applications. Our wide range of services includes design, engineering, manufacturing, delivery, and installation of individual units and complete systems for almost all industrial needs.
WE OFFER SUITABLE SOLUTIONS.

AIR FILTRATION SYSTEM SOLUTIONS

Industrial production processes such as mechanical machining, thermal processes, painting, or finishing processes, can create a variety of airborne pollutants.

Airborne substances differ in their quality and quantity as well as in their physical and chemical nature. This results in different demands or means of separating these substances from the airflow.

The selection and design of the correct air filtration system depends mainly on such factors as airflow velocity, its direction, the emission rate which is created by the machining process, and the dispersal rate of the dust or aerosols. Only with systematic planning can we achieve optimum separation results such as maximum work safety, clean breathable air, as well as operational safety and environmental protection on the very highest levels.

Key knowledge and experience in a variety of industrial processes gained over the years by our engineering staff, and series production of our units ensure individualized air filtration system solutions.
DRY SEPARATION
Procedure for very fine dusts which are created during machining processes, weighing, blending or other processes. Separation mostly by textile filters such as Y-filters which achieve high separation efficiency at a low power demand.

WET SEPARATION
This method is utilized mainly for the separation of explosive, combustible, moist or sticky dusts – substances that cannot normally be separated or are difficult to separate in dry operating systems. Using the Venturi principle, our high-performance separators inject water into the airflow to create a fine water spray and eliminate air pollutants.

COOLANT AND OIL MIST SEPARATION
A multistage separation process cleans the contaminated air by means of washable wire mesh filter elements. The separation principle can be attributed to a combination of mass inertia, large contact surface, coalescence and diffusion.

TAILORED TO INDIVIDUAL REQUIREMENTS
“Air Filtration System Solutions” means that we provide our customers with a single source package, from thorough consulting and planning to project management, engineering and implementation of the technical solution, in keeping with our high quality standards.
PROVIDING CUSTOM SOLUTIONS FOR DIVERSE INDUSTRIAL APPLICATIONS

From decades of experience and from the new process technologies resulting from our research and development and in-house capabilities, Keller Lufttechnik is able to provide optimum filtration system solutions.

In keeping with our history as a technology-driven company, we have developed a wide range of proven products appropriate for various industries, so that we are in a position to offer the best possible solution, whether it be dry or wet operating dust collectors or coolant and oil mist separators.

By utilizing high quality filter elements that employ the latest technology, excellent separation results are achieved well within the parameters set by MAK¹, MEK², TRK³, and TA-Luft*, OSHA and EPA. Depending on individual requirements, the cleaned air can be re-circulated.

¹ maximum workplace concentration
² maximum emission concentration
³ standard technical values
* German clean air guidelines
## Iron and steel/Non-ferrous metal
- Scrubbers
- Lathes
- Die casting
- Spring grinding
- Hot-dip galvanizing
- Miling machines
- Shot-blasting
- Hardening shops
- Core manufacturing
- Cooling sections
- Laser machining
- Polishing machines
- Fettling shops
- Sand conditioning
- Grinding machines
- Melting furnaces (cupola, induction, ...)
- Welding processes
-Abrasive-blasting machines
- Thermal spraying
- Thermal cutting
- Transfer machines
- Machine tools (cooling lubricants)
- Machine tools (minimum quantity lubrication)
-De-scaling

## Chemical, pharmaceutical and food industries
- Biofiltration
- Genetic engineering
- Laboratory technology
- Painting
- Surface treatment
- Pharmaceutical production
- Pneumatic transport systems
- Drying plants
- Finishing
- Recycling
- Material sorting

## Plastics and rubber
- Rubber cylinder machining
- Plastics extrusion
- Tire buffing/retreading machines

## Electrical and electronic industries
- Electrical and electronic industry
- Electronic parts production
- Semi-conductor industry

## Waste disposal - Recycling
- Waste recycling
- Asbestos disposal
- Waste and hazardous waste recycling

## Building material, nonmetallic mineral processing
- Mining and tunnelling
- Drilling engineering
- Glass production
- Glass processing
- Ceramics production
- Kins
- Synthetic fiber processing
- Grinding

## Renewable energies
- Solar
- Wind power

## Miscellaneous
- Wood processing
- Coal treatment
- Coke plants
- Leather processing
- Print and paper industry
- Textile processing

### The separating technologies:
- dry separation
- wet separation
- coolant and oil mist separation
EXPERIENCE AND TECHNOLOGICAL DIVERSITY

The wide range of our separation technology and our separator systems make us an industry leader. With products that can be utilized in diverse applications, few companies are capable of offering such a comprehensive program.

QUALITY AND RELIABILITY

All of our filtration systems with their filter elements are economical, durable, and designed for ease of maintenance. Technological innovations and patents guarantee highest standards.

SERIES PRODUCTION AND PRODUCT FAMILIES

We will tailor a system to your specific air quality needs by utilizing our graduated model series from the individual product families. Our engineer specialists can supply advice and product support, whether it be units equipped with filter bags, pleated pocket-type filters, cartridges or the Y-filter element for fine and submicron dusts. Our AERO models provide the best system solutions for the exhausting or separation of coolant aerosols. For handling moist, explosive or combustible dusts, we offer our line of wet scrubbers with self-priming Venturi nozzles.
SEPARATION METHODS

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WE HANDLE EVERYTHING.

COMPREHENSIVE SERVICE OF YOUR SYSTEM

Our chief aim is to secure optimum productivity for our customers through our services. This includes initial planning, obtaining required permits, installation and final commissioning, followed by a complete after-sales service package for the life of the system.

Our service engineers are highly trained and qualified, with the expertise to provide competent technical advice to your advantage.

This lays a solid foundation for a long-term partnership.

INSTALLATION AND COMMISSIONING

Thorough planning of every aspect of all installation projects and detailed preparation ensure on-time completion according to schedule.

Our qualified technicians are knowledgeable about every aspect of Keller systems and their components, which ensures expert assembly of your air pollution control system, and reliable and cost-effective operation.

During the start-up phase a series of test runs and calculations are performed so that the system can be appropriately adjusted to the individual operating conditions.
AFTER-SALES SERVICE

Regular, systematic preventive maintenance guarantees a long service life and problem-free functioning of your air quality control systems. Potential malfunctions can be identified early to ensure operational reliability and to prevent costly repairs.

Our network of service centers guarantees prompt dispatching of a service technician.

SERVICE CONTRACT

With our service contracts you ensure that your systems receive fast, reliable and economical service, maximizing your productivity and lowering costs.

SPARE PARTS

We maintain an inventory of spare parts for many years so that necessary repairs can be performed in a timely manner.

CUSTOMER TRAINING

We regularly hold training workshops for our customers, either in our service center or at the customer’s site. During these sessions we educate our customers on proper functioning principles of Keller systems, and train them in procedures for basic preventive maintenance.

SERVICE FOR YOUR BENEFIT

Stay informed regarding all our services, such as:

- used systems
- instrumentation engineering
- tele-service
- 24-hour service
OPERATING WORLDWIDE...

...3 SUBSIDIARIES, 9 REPRESENTATIVE OFFICES AND 4 LICENSEES

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