

IPIC GSP

FAUDI

we keep work flowing



FILTRATION SOLUTIONS

Filtration Perfection





Technological advancement with tradition

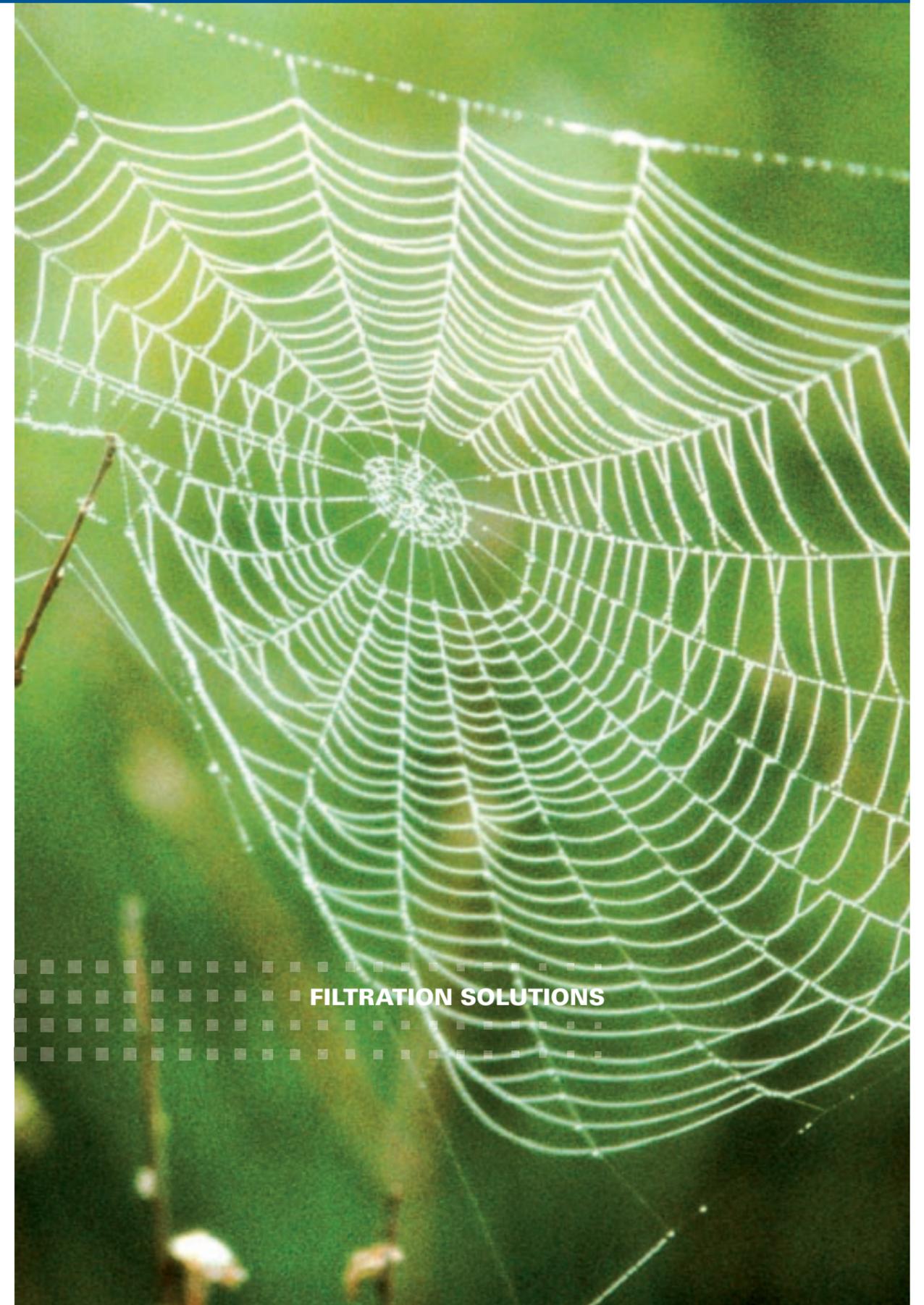
Web spinning spiders

Nothing can penetrate the web's subtly-woven snares. Using the artistically constructed nets, spiders sieve flying insects out of the air. Around 40,000 types of spiders construct different webs, be they chamber, canopy or radial nets – for every need, the suitable solution.

The FAUDI company is a global player, whose expertise lies in the sectors of filtration and separation of liquids and gases. In the 1920s, when innovative people were still called inventors, the Rheinmetall engineer Fritz Faudi optimised the cardan-shaft to such a degree that he practically reinvented it! In the field of engineering the new “Faudi hinge” was, as were many of his inventions, celebrated and praised world-wide. Faudi decided to use his talent as a basis for his own company, and founded the FAUDI Feinbau GmbH in 1938. In the years that followed he invented spectacular techniques in the field of filtration, making the company’s reputation famous throughout the world.

After his death, his wife fulfilled the couple’s wish, by founding the “Fritz & Margot Faudi Foundation” for sponsoring process engineering in pollution-control of soil, air and water, and the development of new energy resources. In 1968 she transferred her inherited share to the foundation, which still today, finances research projects at the Technical University of Darmstadt.

Responsibility for mankind and the environment, plus the desire to provide customers with state of the art technology can be recognised as the core philosophy of the company throughout its history.



FILTRATION SOLUTIONS



Meeting quality demands –
of our customers and the environment

Foliage

The most effective air filters are produced by Mother Nature. The leaves of trees for example filter carbon-dioxide, soot and spores from the air. On a sunny day, the foliage of a fully grown tree with an average of 60,000 leaves, can filter 36,000 cubic metres of air. The structure of the leaves are built like sponges, making their surface area 10 times larger. Such a tree can filter around 700 kilos of dust and particles out of the air in the period of a year.

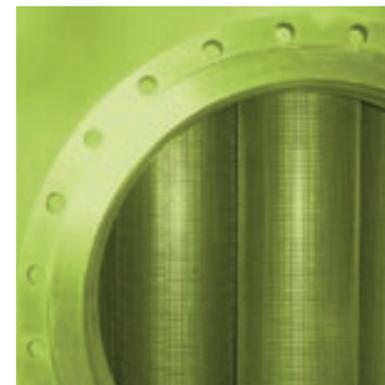
COOLANT

FAUDI identifies themselves with their German location. In the town of Stadtallendorf in the middle of Hessen, FAUDI concentrates their resources in the sectors of development, construction and production, service and distribution. Our customers want not only high quality equipment made in Germany, but also products that fulfil international regulations and certifications. The company is represented in all important regions, enabling prompt customer service throughout the world.

For FAUDI, quality means much more than long lasting products and failure free operation: "Total cost of ownership" (TCO) is an important factor in development

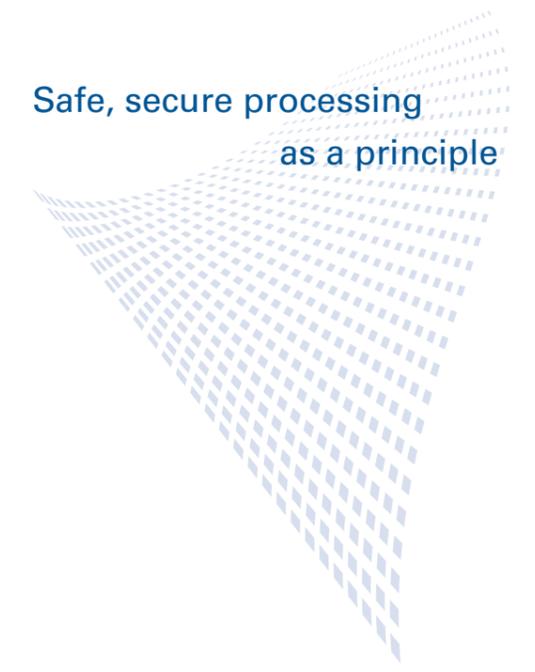
processes. FAUDI's strength lies in their patented filtration systems which use no additional filter aids. This considerably reduces waste and is not only economic and cost saving, but also becoming more and more important for the environment.

The processing cycles of FAUDI equipment are fully automatic, supporting and simplifying system operation. The sole use of high quality components in designing our products is the main reason why equipment made by FAUDI is reliable, long lasting and safe.





PROCESS



Safe, secure processing
as a principle



Versatility is our strength

With the development of aviation fuel filters in the 40s, FAUDI made an enormous contribution to safety in the field of aviation. Today, our coolant and petrochemical products ensure and enable smooth production in various sectors, i.e. in the oil, gas and chemical industries, in refineries and power plants, the automotive and metal processing sectors, and also in steelworks.

FAUDI equipment keeps production flowing

The higher the technical requirements, and the more complicated the systems are, the they may react to even the smallest disturbances. Water in oil can cause corrosion of equipment and work pieces. Pro-active filtration of solid matters in coolants prevents breakdowns and standstills and keeps production flowing.

Safe and secure with FAUDI

Not only the flow of the medium being filtered must be optimal, but the filtration system itself must always work optimally. FAUDI filtration systems have long life cycles, are reliable and need a minimum of maintenance, keeping to our motto: We keep work flowing!

Swamp plants

For private pools, sewage plants, or even contaminated ponds, reeds and bull rushes are an obvious, simple, but very efficient filtration system. The roots of the plants ensure good water permeability of the ground, deliver oxygen to the soil and encourage the growth of micro-organisms in the areas around the roots. These micro-organisms in turn reduce toxic pollutants.



Capable solutions –
based on experience

Baleen whale

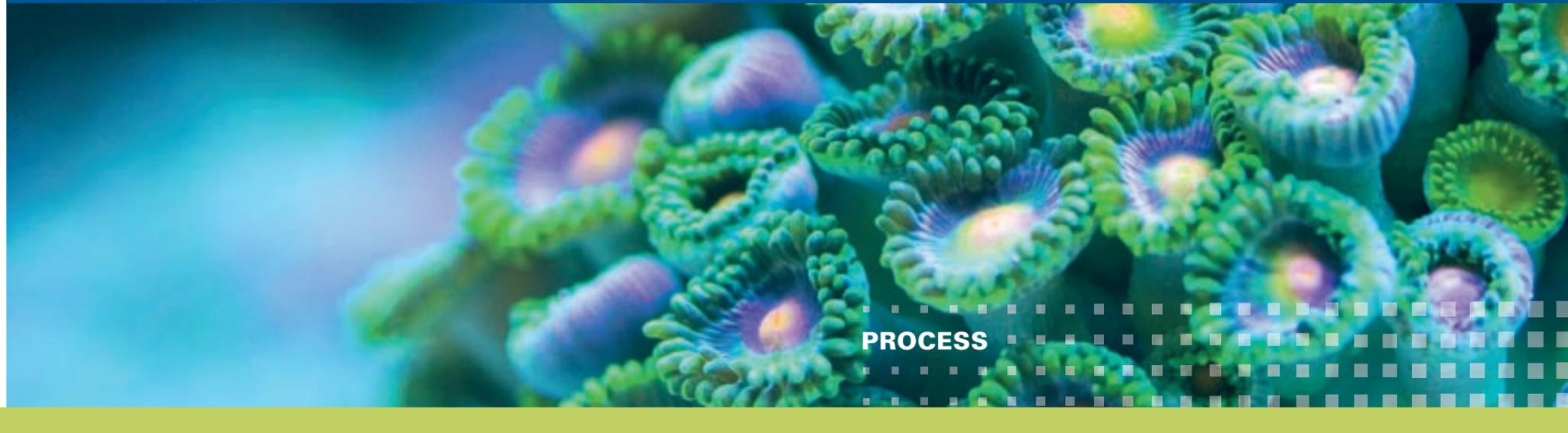
It may sound contradicting, but most giant whales satisfy their hunger with minute micro-organisms. The whale takes in an enormous amount of water, closes its jaws and pushes the water with its tongue through the baleen strips of whalebone, thus filtering the micro-organisms, which can then be swallowed and digested by the whale.

Custom-made solutions to meet your requirements
The main requirements of our customers are: the filtration of solid matters from gases and liquids, the separation of gas from liquids, or vice versa, and segregation during liquid or liquidation phases. The solutions are never the same, the individual details themselves define the problem to be solved. Nonetheless, FAUDI engineers need only to ask three questions as a basis for their systematic solution process:

- What exactly is your filtration task?
FAUDI uses a standard analysis process, where the solids content, particle size and dispersion, and phase separation are taken into consideration.
- Which retention rate is required?
FAUDI carries out filtration tests under laboratory conditions, controls the feasibility of the required task, calculates the necessary quality of the filtrate, and can then work on the optimal filtration solution.
- Which FAUDI technology is to be used to fulfil your individual requirements?
In our technical centre, or on the customer's site, FAUDI makes field trials under real-life conditions.

Only good listeners can give good advice
Whatever you are planning, our engineers are always pleased to talk about, and give their expert advice, so that the perfect solution can be found, together!





PROCESS

Our high opinion of service



Minimum maintenance with FAUDI
 The best service is the one you never need to call on. This is the basis of FAUDI's maintenance concept. Wear and tear, and material fatigue are taken into consideration from the very beginning. Utilizing state of the art technologies and materials is as important as the precise matching of equipment and process conditions.

Service on demand
 Development, assembly and installation is simply not enough. After the installation FAUDI customers can be sure that a systematic training of the employees on the job, as well as a flexible and prompt service will follow, no matter on which continent the equipment is situated. Spare parts on demand – we ensure a fast service which means a fast return to production!

Assembly and initial operating phase on site
 The ideal process from the planning phase, through to the start of production is a prerequisite for successful solutions. We co-ordinate and control assembly and in this way guarantee meeting the deadlines set for production start-up with your FAUDI filtration unit. We are there to assist you from the very beginning!

Coral reefs
The natural filtering of the air by forests and foliage on the surface of the earth is complemented by the natural filtering done by corals under the ocean surface. The inhabitants of the oceans live in colonies and are enormous natural filterers. However, it is also true that they react very sensitively to constantly increase marine pollution. If they do not live near the surface their main source of nourishment is gained by filtering minute plankton, nutrients and trace elements found in the strong currents of the ocean waters.

