

# FILconcept®



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You have the case of application, we take care for the best possible air filtration unit.

Planning a reliable air filtration unit means the case of application must be carefully analyzed. A variety of technical aspects must be taken into account. FILconcept – the ILT project service comprehensively supporting you in this process.

With FILconcept® you are on the safe side.

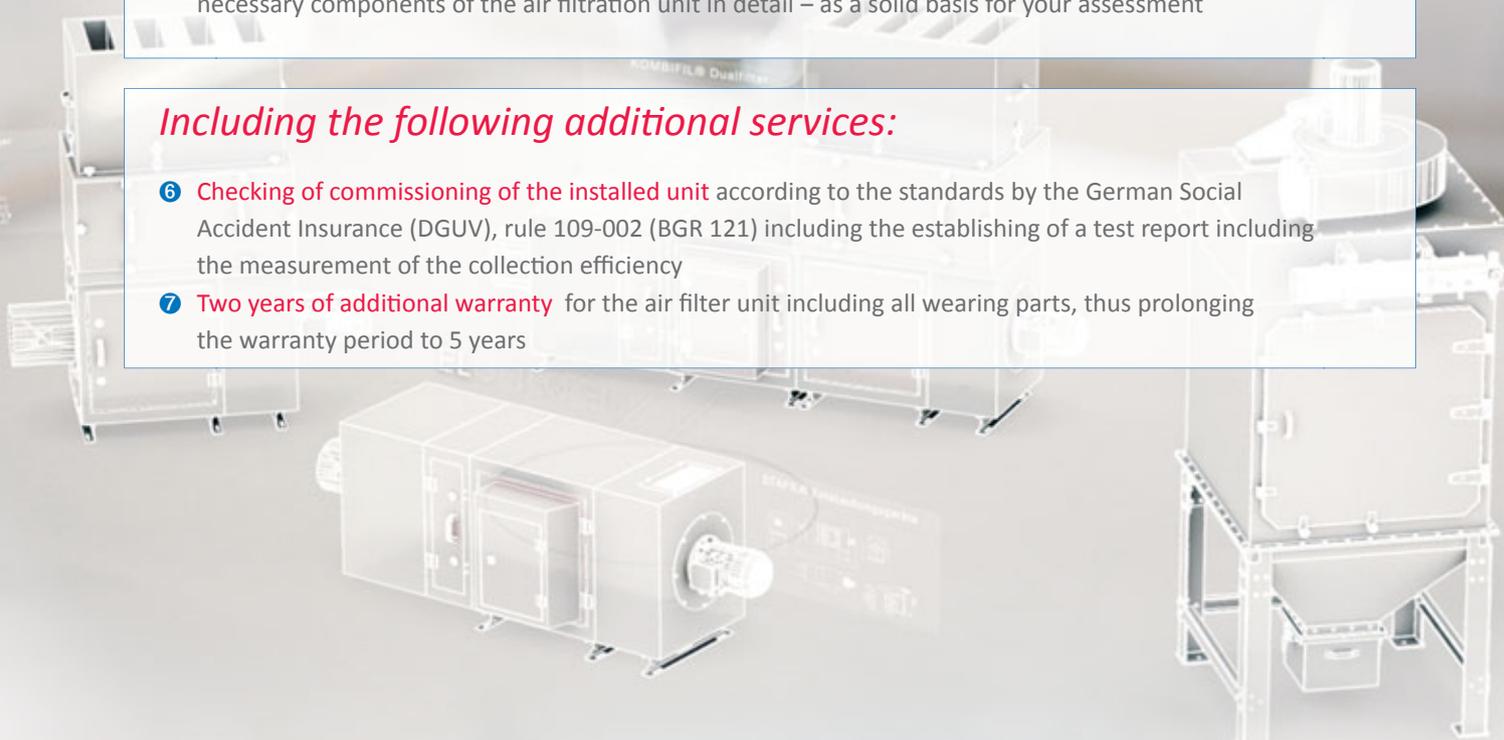
## *This is what we do for you:*

We take over all conceptional preparations and compliant-to-rules commissioning of your air filtration system – according to the relevant regulations and according to your wishes. With functional guarantee.

- 1 Analysis of the case of application - upon request even on-site in your works
- 2 Identification of a concept optimally adapted to your application
- 3 Preparation of a basic concept in accordance with your wishes and conditions on site
- 4 Measurement on site, if necessary
- 5 Preparation of a detailed requirements specification sheet describing the case of application and the necessary components of the air filtration unit in detail – as a solid basis for your assessment

## *Including the following additional services:*

- 6 **Checking of commissioning of the installed unit** according to the standards by the German Social Accident Insurance (DGUV), rule 109-002 (BGR 121) including the establishing of a test report including the measurement of the collection efficiency
- 7 **Two years of additional warranty** for the air filter unit including all wearing parts, thus prolonging the warranty period to 5 years



# An optimal decision for purchase can only be taken after thorough analysis of the case of application.

During the procurement of air filtration systems numerous aspects and demands must be taken into account. Reaching from the decision about the optimal functioning to the consideration of the follow-up costs. We give you a profound basis of decision-making exactly adapted to your utilization and taking into account all its aspects – including cost/benefit considerations.

## 3 good reasons for engineering by ILT:

### *Cost-optimized procurement*

- Careful analysis of the case of application on site
- Observation of operating and follow-up cost
- Avoiding of misinvestments
- Achieving your corporate objectives

### *Reduction of general expense*

- Relief of your employees
- Optimization of your procurement processes
- Solutions with immediate visible return
- Protection of your competitiveness

### *Operational liability*

- Preparation of a detailed specification book
- Solutions perfectly adapted to the case of application auf in accordance with current regulations
- Comprehensive warranties



In modern production surroundings air filtration units are an indispensable component. You have a decisive share in reaching the high quality production demanded in modern markets. By means of an optimally adapted air filtration unit not only numerous regulations are fulfilled but foremost, your overhead cost are significantly reduced:

**THIS IS THE WAY YOU WILL EFFECTIVELY SAVE A LOT OF MONEY.**

Taking into account all necessary aspects during planning and conception of an air filtration unit is a prerequisite to achieve this target.

Only air filtration units which are optimally adapted to their application will meet all requirements.

#### *Cost minimization*

- Saving of coolants
- Reduction of faulty manufacture
- Reduction of machine downtime
- Air-Conditioning- / Heating costs
- Reduction of sick leave
- Renovation costs
- Maintenance costs
- Reduction of operating costs

#### *Production and product quality*

- Value preservation of investment goods
- Optimized thermal expansion
- Constant production quality
- Reduction of fire load
- Improved cleanliness
- Simplification of environmental and production audits by your customers

#### *Production regulations*

- Adherence to limit values in the air
- Handling of coolants
- Regulations of employer's liability insurance association (health protection in the workplace, prevention and adherence to environmental health and safety regulations)

#### *Statutory regulations*

- Vocational and legal safety regulations
- Emission protection
- Work protection
- Ordinance on Hazardous Substances
- Liability claims for environmental pollution

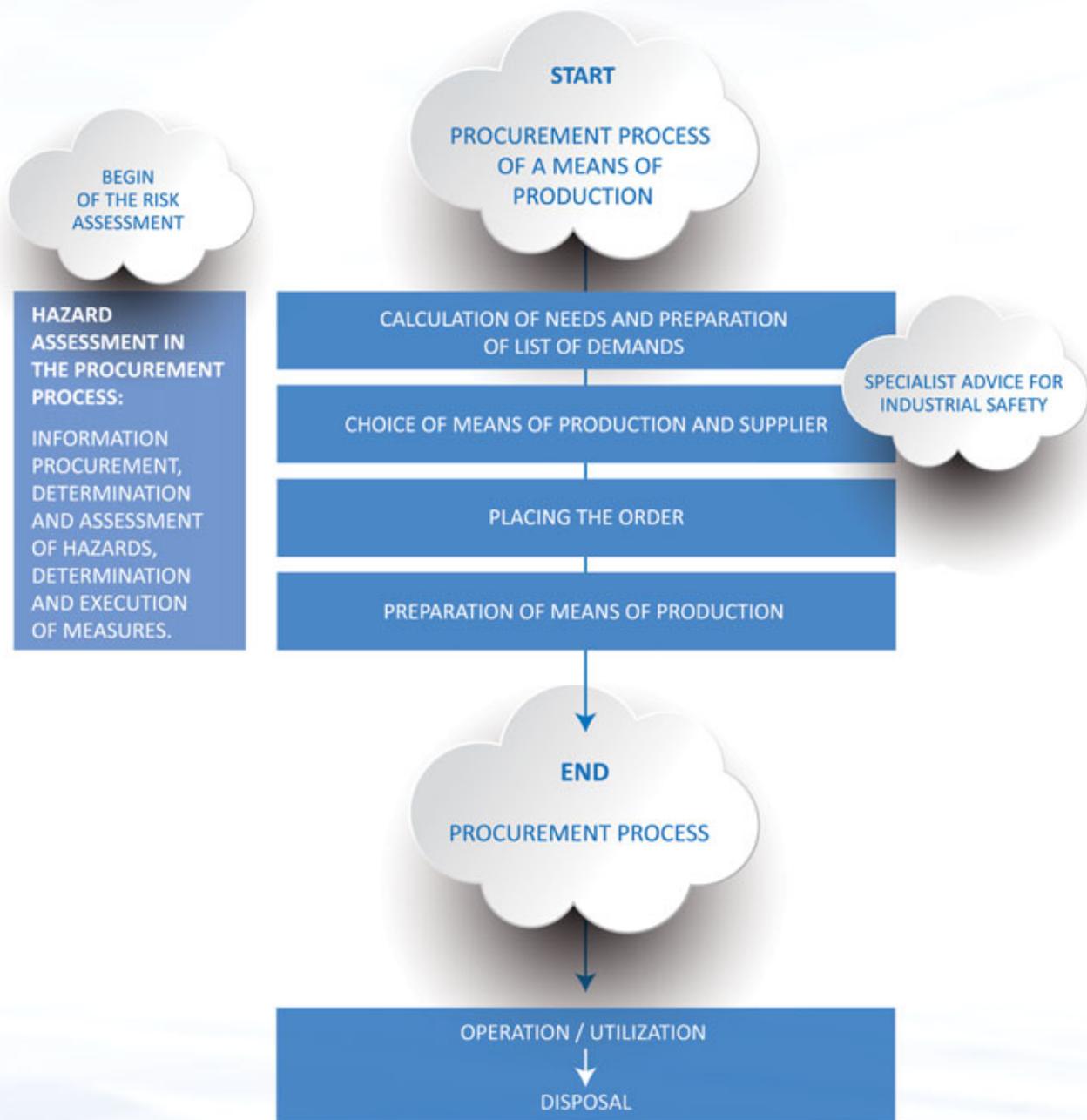


*Lost in legal terms?*

*The utilization of air filtration units is subject to extensive regulations.*

*The correct conception of an air filtration unit is obligatory.*

An air pollution control system is an important and, most often, safety relevant technical equipment. Therefore, it is of utmost importance to carry out risk assessment and develop a requirements specification sheet already in the process of purchasing. We support you this process: After careful analysis of the case of application in your works we prepare a functional specification comprising all demands regarding the air filtration unit. Thus, faultless documentation of your procurement is guaranteed.



FALSE INVESTMENTS ARE AVOIDED WITH FAULTLESS PROJECTING. WE SUPPORT YOU DURING ALL STEPS OF THE PROCUREMENT PROCESS.

# Your benefit with FILconcept®:

- Careful advice, delivery, assembly and checking of commissioning according to the standards by the German Social Accident Insurance (DGUV), rule 109-002 (BGR 121):  
**All from one source.**
- Avoiding of misinvestments by comprehensive advice.
- Taking over of project responsibility by ILT:  
including functional guarantee.

**Electrostatic precipitator, wet separator, filtration separator, de-duster...**

Do you know which influence these functional procedures have on your cost structure?

*The operating cost are to be found in the details – we help you making details visible.*

Do you know the differences in operating cost for filtering separators and electric filters?

Here is an example for two types of devices with 2 400 m<sup>3</sup>/h operating for the separation of emulsion mist (10% oil share):

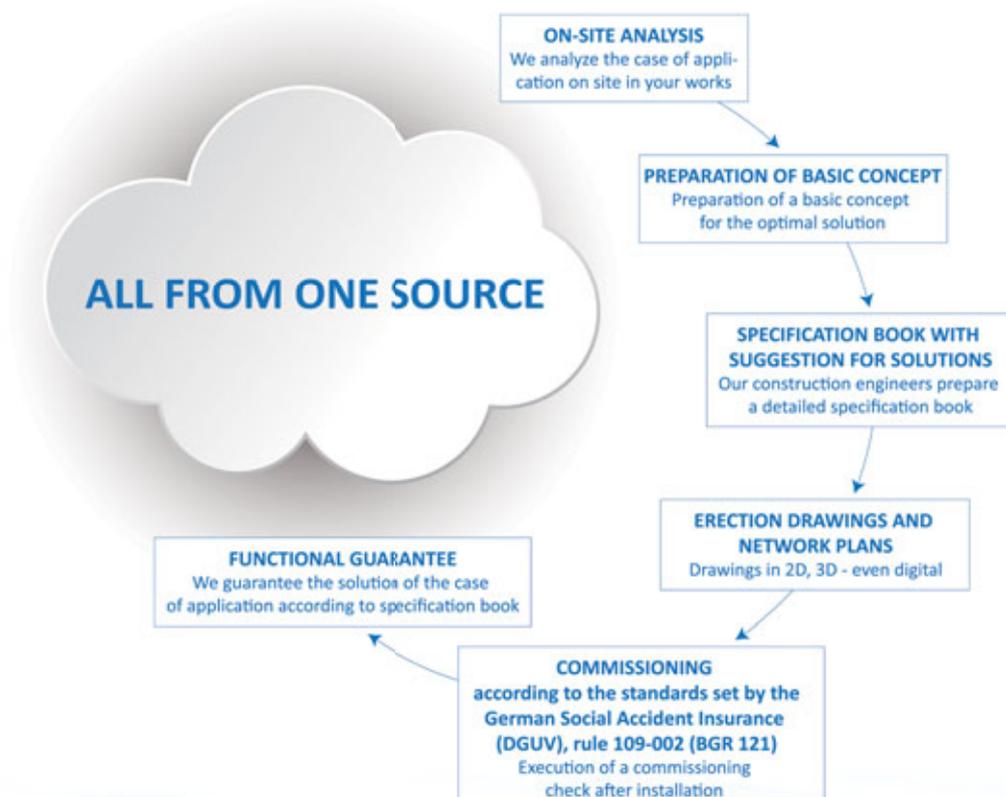
		Mechanical Filter	Electrostatic Filter
<b>EXCEPTIONS</b>	Operating time in h/year (3 shifts, 8 h, 220 days)	5 280	5 280
	Motor performance in kW	1.5	0.75
	Average loading	60 %	60 %
	Average filter service life in h	2 500	1 500
	Costs of spare filter elements (average) per set	350 €	0 €
<b>COSTS OVER OPERATING TIME</b>	Costs of filter elements (3 shifts, 8 h, 220 days)	739 €	0 €
	Manpower costs, maintenance/cleaning	42 €	172 €
	Disposal costs, consumption and cleaning material	106 €	528 €
	Power consumption at 12 ct/kWh	570 €	285 €
<b>Total operating costs per year</b>		<b>1 457 €</b>	<b>986 €</b>

### Analysis on-site in your works

We analyze the case of application for your air filtration unit on-site in your works. Here, the special conditions in your production, your production flow and all technical details which must be taken into consideration are noted. Following this, a technical basic concept is prepared and agreed with you. Based on your case of application we determine the most suitable technical function principle and the plant system (individual suction, de-central suction system or central unit). In this basic concept we of course consider the optimum relation between investment sums and operating costs.

## FILconcept® project service of ILT:

### From the first analysis in your works to commissioning: A clean solution.



ILT Industrie-Luftfiltertechnik was established in 1983. The family-owned company in its second generation is specialized in air filtration units and air filtration devices for industries. In Germany, ILT is one of the market leaders in the field of customer-oriented systems for air pollution control. Our own production and distribution as well as service structures guarantee custom-made solutions from one source: regardless of whether the suction volume amounts to 100 or 100 000 m<sup>3</sup>/h. On the basis of a patented modular system functional air filtration units for all industries are produced – exclusively made in Germany. Air filter units by ILT are used in all industrial branches: worldwide.



**ILT Industrie-  
Luftfiltertechnik**

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