



Air and gas filters



Oil mist separators



Liquid filters



Level measurement



Reference book

**Products and solutions for industrial filtration,
separation and level measurement technology.**

January 2021



COGA®: contec products in use

Application: **Manufacture of wind turbines**

Customer: Enercon GmbH

contec product: **Vacuum filter type 447**

Challenge: The exhaust air is enriched with fine, stable oil aerosol.

contec solution: Oil-free exhaust air from oil-sealed vacuum pumps through the use of coalescence filter elements. 99.99% of the aerosols are separated with absolute safety, low counter-pressure, extremely long service life and low operating costs.



Application: **Carbon/sulfur analyzer CS 800**

Customer: ELTRA GmbH

contec product: **Single-use filter DIF-BN-50K**

Challenge: Gas detectors and valves on the analyzer require pure gas to determine carbon and sulfur in samples.

contec solution: The single-use filter with a filter element made of micro glass fiber with PVDF binder (Kynar) and a separation rate of 99.99% at 0.1 μm keeps contaminants, such as dust, away from the detectors and valves.





COGA®: contec products in use

Application: **Measuring gas analysis**
 Customer: Eltherm GmbH
 contec product: **Inline filter housing type SL 127-201 to accommodate different filter elements made of elements such as stainless steel or glass fiber**

Challenge: Heating the filter housing up to 200 °C to prevent condensation and falsification of the measured values.

contec solution: The heated filter housing can be connected as a separate module in front of heated measuring gas lines or analyzers. In the case of heavily contaminated measuring gases, several filter housings can also be connected in series. The filter cleans the measuring gas to be transported from dust and particles. The heating prevents condensation of the measuring gas or falsification of the measured values. The filter module is also integrated directly in a heated measuring gas line.



Typical areas of application:

- Separation of particles, dusts, aerosols, droplets
- Elimination of vapors, disruptive gas components, drying of gases
- Separation of oil, condensate and solids from compressed air
- Separation of oil mist from the exhaust air of oil-lubricated vacuum pumps and tank systems
- Filters to protect gas analysis systems, pumps, blowers, fans etc.
- Filters, adsorbents and catalysts for the preparation of reference gases in gas analysis
- Processing of process gases

Delivery program:

- Intake and exhaust air filters
- Particle and coalescence filters
- Fine and coarse filters
- Depth and surface filters
- Bypass filter
- High pressure and high temperature filters
- Adsorbents and cartridges
- Catalysts and zero air generators
- Chemically highly resistant filters
- Quick-change filter
- Single-use filter for hose lines
- Water barrier filter
- Heated filters
- Zero air generators

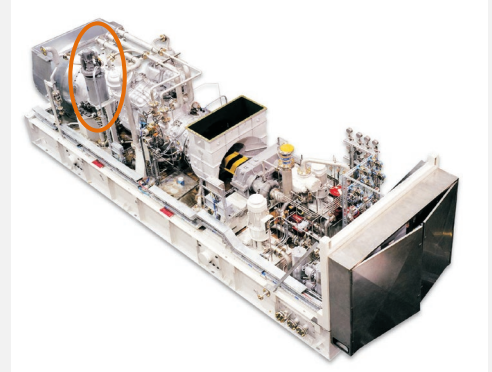


COMS®: contec products in use

Application: **Mechanical engineering, gas turbine**
Customer: MAN SE
contec product: **Oil mist separator**

Challenge: Avoidance of smoke, leakage and recycling of lubricating oil in a gas turbine. Generation of a slight negative pressure in the lubricating oil system.

contec solution: The COMS ensures an adjustable, continuous negative pressure in the turbine's lubricating oil tank and separates 99.98% of the aerosols at 0.1 μ droplet size; residual oil content below 0.1 mg/m³.



Application: **Mechanical engineering, oil console**
Customer: Gesellschaft für Oeltechnik mbH
contec product: **Oil mist separator**

Challenge: Avoidance of smoke, leakage and recycling of lubricating oil in a gas turbine. Generation of a slight negative pressure in the lubricating oil system.

contec solution: The COMS ensures an adjustable, continuous negative pressure in the lubricating oil tank of the oil console and separates 99.98% of the aerosols at 0.1 μ droplet size; residual oil content below 0.1 mg/m³.



Application: **Manufacture of phenol and acetone**
Customer: INEOS Phenol USA
contec product: **Oil mist separator 300/935**

Challenge:

contec solution:





COMS[®]: contec products in use

Application: Building construction, Media Tic Building in Barcelona

Customer: Cloud 9/Enric Ruiz Geli
contec product: Oil mist separator

Challenge: The building is covered with ETFE film. The membrane cushions used there consist of two layers filled with nitrogen and act as a solar filter. Oil-based fog fluid is used. In high concentrations, there is a risk of explosion and slipping; blowing into the atmosphere cannot be unfiltered.

contec solution: The system consisting of a compressed air compressor, fog machine and oil mist separator installed on the building roof, blows the fog into the cushion. The oil mist separator sucks off the aerosol mist that is pumped into the air cushions filled with nitrogen.



5

Application: Fluid grinding of injector components

Customer: Sonplas GmbH
contec product: Oil mist separator

Challenge: Extraction of the fine grinding mist when rounding injector components with flow and spray pattern inspection.

contec solution: The COMS sucks off the grinding mist and separates 99.98% of the aerosols at 0.1 μ droplet size; residual oil content below 0.1 mg/m³.



Typical areas of application:

- Lubricating oil tanks of turbines
- Gas and steam turbines
- Turbo compressors and turbomachinery
- Gas and diesel engines
- Vacuum pumps
- Large compressors
- Crankshaft gears
- Generators
- Other systems with oil systems
- Rotary machines



COLF: contec products in use

Application: **Chocolate production**
 Customer: Weinrich GmbH
 contec product: **Edge filter CSF 700 FD**

Challenge: Viscous chocolate mass should be cleaned with a self-cleaning filter system before filling. This has so far been achieved with open filtration.

contec solution: The edge filter with flange cover and integrated magnetic separator is very easy to maintain and can be integrated into the existing trace heating through the heating jacket.



Application: **Production of bitumen products**
 Customer: Rasco Bitumentchnik GmbH
 contec product: **Edge filter**

Challenge: Retention of unwanted clumps in the highly viscous bitumen and their simultaneous crushing as well as tool-free disassembly of the filter element at full operating temperature.

contec solution: The bitumen mass is filtered through the edge filter with a hinged lid and internal spring-loaded coupling. The filter is equipped with a heating jacket, so that tool-free maintenance of the filter is possible at full operating temperature and to prevent hardening of bitumen.



Typical areas of application:

- Water supply systems
- Microfiltration
- Food and beverage industry
- Sewage treatment plants
- Dams, reservoirs, cooling towers and well equipment
- Surface technology
- Electronics industry
- Photo industry
- Food industry
- Pharma
- Cosmetics
- Solvents

Media:

- Heavy, viscous and gel-like media such as bitumen, chocolate, lacquers, polyurethane, etc.
- Aqueous media such as water, acids, alkalis, oils, emulsions, ultrapure water, river water, cooling water and process water etc.



COLM: contec products in use

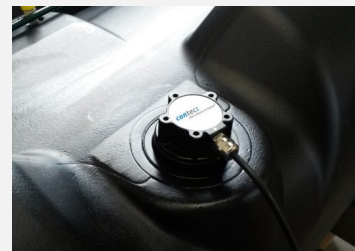
Application: Transport refrigeration in refrigerated and commercial vehicles

Customer: Schmitz Cargobull AG

contec product: Tank sensor type TL350

Challenge: Ensuring an uninterrupted refrigeration chain, creating an overview of the fill level of the aggregate tank, and detection of diesel theft.

contec solution: The capacitive, electronic solid-state sensor enables the exact measurement and visualization of the fill level in a separate diesel tank. The sensor calibrates itself automatically when changing the medium. The integrated alarm function prevents breakdowns and load damage.



Typical areas of application:

- Telemetry systems
- IBC container
- Engines and engine cooling systems
- Mobile and stationary tanks
- Diesel units
- Refrigerated and commercial vehicles
- Construction machinery and vehicles
- Motorsport vehicles

Delivery program:

- Capacitive level sensors (solid state)
- Capacitive level switches (solid state)
- Electromechanical solutions with resistance and voltage signal or switching point
- Float switches for vertical or horizontal installation
- Mechanical level indicators
- Temperature switches