

Dedusting of asphalt mixing plants

with newest future-oriented filter technology



Asphalt mixing plants

As a rule, asphalt mixing plants consist of

- Mineral material storage, filler silo and asphalt granulate storage
- Pre-dosing unit
- Drum dryer
- Dedusting (drum dryer)
- Hot screening
- Loading

Asphalt mixing plants have the task of producing an asphalt mixture from the various components corresponding to a previously determined recipe. The asphalt mix (mineral materials, bitumen and additives) are dried in a drum dryer after pre-dosing and heated up to a processing temperature of 160 - 190°C. The dried and hot mineral materials are conveyed by a bucket-elevator to the screening-station having left the drum dryer. The ready mixture is either loaded direct onto trucks or fed to intermediate storage (asphalt mix silo). The drum dryers as well as peripheral installation sections are dedusted via a filtering separator. The product retrieved from the dedusting plant is fed back into the process.

1. Complete new installation.



Operational data

In continuous operation, filter resistance lies well below 8 ihPa. The compressed air volume for bag filter cleaning is adapted to the necessary requirement for energy reasons. Our emissions values lie safely under the values demanded by the legislator. Plants supplied by us have a residual dust content of 5 mg/n3 i.N.

Two units are detailed here.

1. Complete new plant with operating volume flow of 110,000 m³/h in operation with filter temperature at 170 C°.

Fig.1

2. Conversion of an existing filter with the Intensiv-Filter Coanda System. Here the volume flow amounted to 75,000 m³/h in operation at 170°C.

Figs. 2 to 6



2. Conversion of Wibau filter



3. Bag floor being fitted



4. Assembly on site of the complete filter head

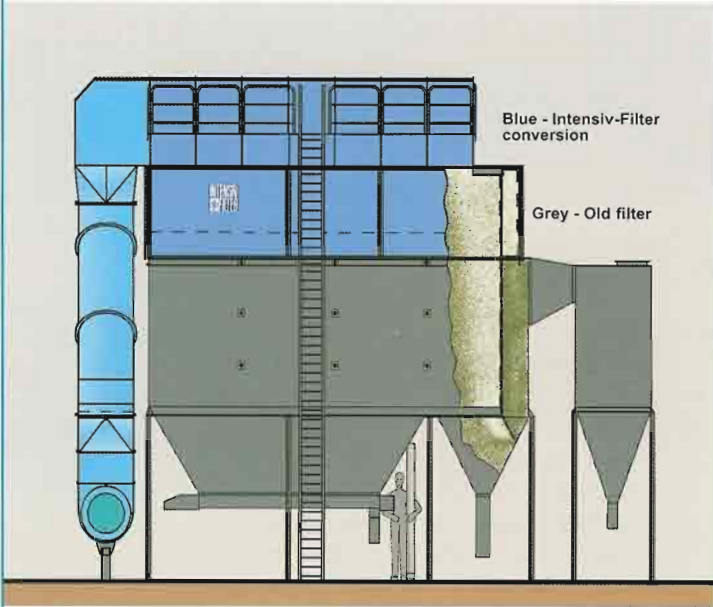


5. The Intensiv-Filter unit prior to assembly



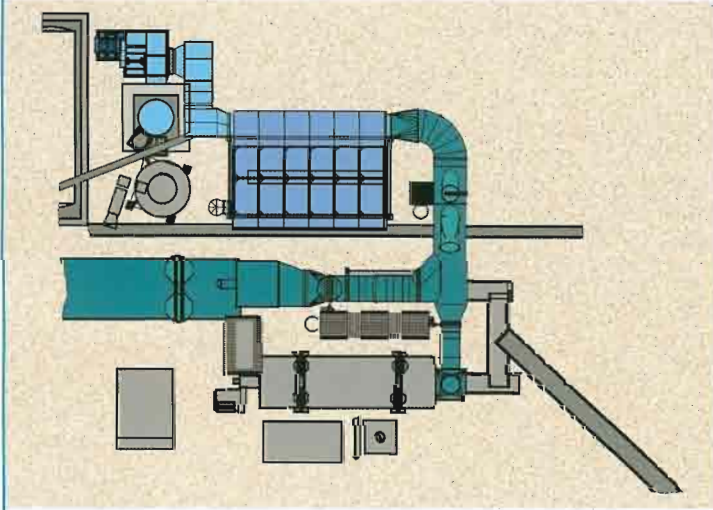
6. Finalised conversion

Mighty solutions for tiny particles.



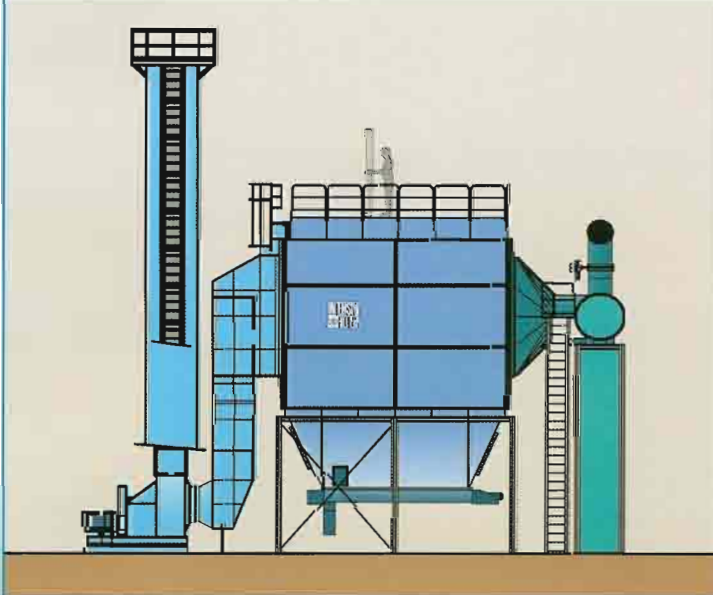
Conversion of a filter in an asphalt mixing plant

The conversion of an old filter in the Netherlands by Intensiv-Filter meant that the plant operator could operate a reduced-cost but new-quality filter at the same location. In order to reduce costs for the operator, a complete cleaning system with the proven and patented Coanda-System from Intensiv-Filter was installed on the existing centre section. With the new plant the residual dust content is guaranteed at 5 mg/m³ and as such lies below the values demanded by legislation.



The modular construction

The flexible use of our reliable Filter components ensures you economic and reliable production of your asphalt product. Capable filter units ensure the future of companies in the asphalt sector. We develop today for the demands and needs of tomorrow.



Newbuild

Of course you can access design, build and erection of complete units. We design our dedusting plants according to your needs and available space. Whatever your emissions problems look like, our specialists will solve them for you and with you.



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