

LTG Prefilter VFA / VFB

Prefilter Type VFA / VFB

To filter out the coarse particles from large air streams, it is best to use an appropriate prefilter screen. Its characteristics are:

- **high air permeability**
- **exact adaptation to the material to be separated by using different mesh sizes**
- **good separation of various size particles**
- **low maintenance**

The LTG AEROB Prefilters Type VFA and VFB are static, self-cleaning screens with tangential air inlet at the top. They can be used within an air volume range of 5,000 - 50,000 m³/h (3,000 - 30,000 cfm). The robust design offers the highest degree of reliability and safety.

Type VFA is supplied without an enclosure, whereas Type VFB has its own housing.

Functional Description

The LTG AEROB Prefilters Type VFA and VFB basically consist of an upper and a lower housing section. The space in between is sealed off to the outside by a cylindrical filter screen. The air enters tangentially through the upper section of the housing. A rotating airflow carries the fibers to the bottom on the inside of the filter screen. Dust particles in the air stream exit through the filter screen from the inside to the outside at the bottom of the filter.

The separated particles are stripped off through a suction connection either continuously or intermittently. The LTG AEROB Prefilters VFA and VFB have no moving parts.

Cleaning is done by using only the dynamic forces of the moving air.

Applications

The LTG AEROB Prefilters Type VFA and VFB are most effective for the extraction of air streams with a high content of fiber and particles of varying materials, sizes and shapes.

Application in various industrial sectors:

- **textile industry**
non-woven industry
wood working industry
paper industry
cellulose industry
tobacco industry

LTG AEROB Prefilters type VFA and VFB are especially effective
in combination with an LTG fine filter.

Advantages

- **regenerative filter unit**
choice of continuous or intermittent suction
no pressure fluctuations in the suction system
when using continuous cleaning
adjustable inlet connection for maintaining proper
velocity of design air quantity
no moving parts, and therefore practically no
cleaning or maintenance required
compact construction
easy changing of filter media
connection to vacuum system possible
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[»» Spare Parts Prefilter VFA, VFB \(PDF\)](#)

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