

## Dedusting project

### Dedusting of hypoallergenic baby food

The dedusting of conveying systems in a production process for hypoallergenic baby food is carried out with pocket filters type INFA-JET AJN 204. Taking into account the products to be de-dusted all parts of the filter in contact with the product and in contact with the conveying air were made in stainless steel. Because of the high hygienic specification even the filter pocket support frames in stainless steel are also made in a special design. The filter media are manufactured in food safe needle felt with laminated PTFE-diaphragm. In view of the so-called hygienic design of „easy cleanable“ plants the filters have no sharp edges or hollow profiles and the filter housings are glass bead blasted at the outside.

Besides the sterile construction also the Atex regulations for explosion protection had to be considered for the filter design. For some filters a pressure shock resistance of 1.0 bar g was demanded. The pocket filters are designed for a volume flow of 25 m<sup>3</sup>/min each, with an air-to-cloth ratio of 1.25 m<sup>3</sup>/m<sup>2</sup>\*min. Cleaning of the filter pockets is started by the fully automatic control by differential pressure.

#### Technical data

Filter type		AJN 204 in „hygienic design“
Volume flow	[m <sup>3</sup> /h]	1,500
Air-to-cloth ratio	m <sup>3</sup> /m <sup>2</sup> *min	1.25
Filter material		Polyester needle felt with laminated PTFE diaphragm
Filter area	[m <sup>2</sup> ]	20

