

## Dedusting project

### Special design of INFA-MICRON MKR

Two cassette filters type INFA-MICRON MKR 4/20-4/20 and MKR 2/20-2/20 were built for dedusting a pharmaceutical plant in the USA. Due to safety reasons, the customer specified an explosion suppression system for the filter, which was supplied on site. The filters therefore have the following special equipment:

- Fully welded housing with single-chamber cleaning and raw / clean gas duct
- Additional nozzles for explosion detectors and explosion suppression bottles
- Limit switches for filter cassette doors (open / close) and dust collecting bins (connected / removed)

Further special equipment is:

- Safe-change system for filter cassettes and dust collecting bins
- Filter cassettes with frames made of stainless steel, filter classes EU 13 (1st stage) and EU 15 (2nd stage)
- Nozzles for DOP test and nozzles for leakage test of filter cassette gaskets
- Limit switches for dirty gas inlet dampers and dampers above the dust bins
- 2 capacitive level switches at each dust bin (high / high-high)
- Filter control unit, including fan control and interlock with explosion suppression control panel
- Each filter cassette fitted with its own differential pressure transmitter

All electric and electronic components were UL-listed and certified to NEMA-4.

Factory acceptance test of the MKR cassette filter (FAT)



- Dust collecting bin with two level switches (yellow / red)
- Limit switches (signal: bin locked at hopper or not)
- Pressure shock resistant damper with limit switches
- Safe-change system

