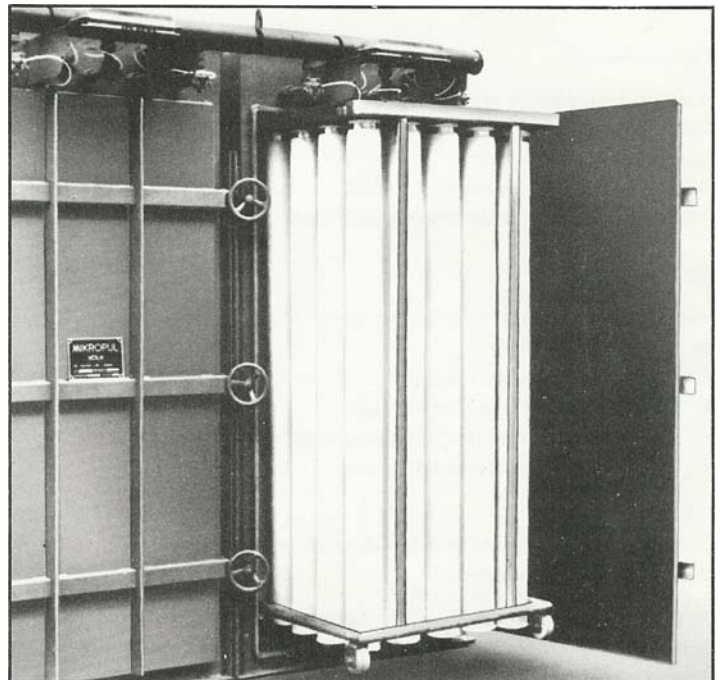


## **Mikro-Pulsaire®**

### **Quick Replacement Filter**

#### ***High Performance Dust Collector for frequent Product Changes***

- Allows quick exchange of filter bags within minutes
- All inner surfaces are plane, easy to access and to clean
- Automatic bag cleaning by short pressurized air pulses, based on the proven Mikro-Pulsaire principle
- Clean gas contents of less than 5 mg/m<sup>3</sup> at particle sizes lower 1 µm possible
- Minimum maintenance requirements, no moving parts, high reliability
- Less space requirements and low power consumption

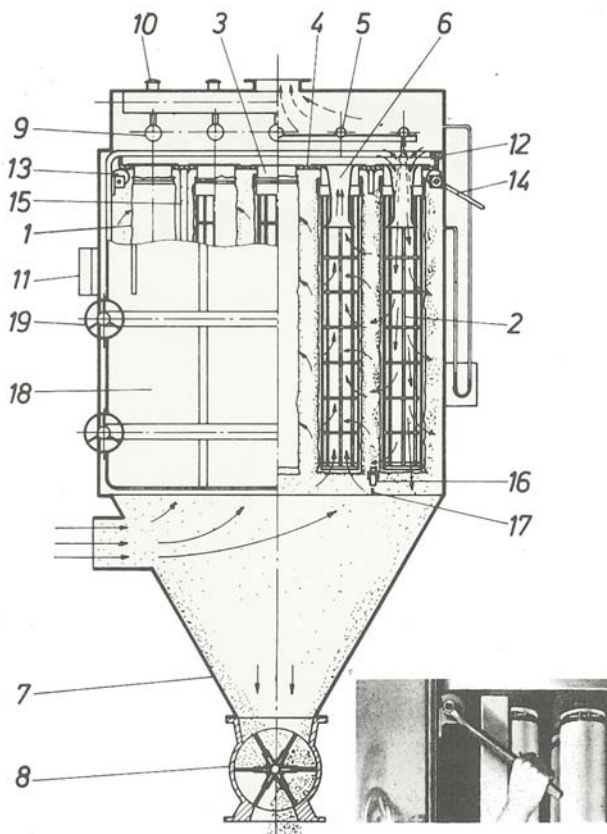


DB-Patent Nr. 2028899

#### **Applications**

Mikro-Pulsaire Quick Replacement Filters are ideally suitable as aspiration and off gas treatment filters, for grinding, milling or mixing systems or pneumatic conveying, transport and bag filling plants as well as for product recovery tasks, for example after driers.

- Colours and Pigments
- Resins
- Plastics
- Cosmetics
- Food
- Pharmaceuticals
- Crop protection



Adjusting of eccentric shaft (13)

**Principle of Function**

The filter bags (1) are supported by wire cages (2) and are fastened by clamps into the tube sheet (4). Dust laden air enters the filter below the bags. A fan pulls the gas stream through the bags, leaving the dust on the bag surface.

The bag cleaning is carried out by very short pulses of pressurized air through pipes (5) into the venturimeters (6). Working like an injector, secondary air is pulled through the venturimeters. The blast spreads down the entire inner bag surface. The dust on the outer surface is dislodged into the hopper (7) and discharged by a rotary air lock (8). The membrane valves (9) are actuated by electromagnetic valves (10) via adjustable control unit (11).

For quick bag replacement, the tube sheet can be pulled out. The clean gas chamber is sealed with an all around gasket (12), which is pressed to the tube sheet with 2 adjustable eccentric shafts (13). As long as these are in the "not tight" position, the tube sheet can be easily moved in or out. A wrench (14) is used to turn the eccentric shafts. The tube sheet with the bags lies on a support (15) with 4 wheels (16) on scorpers (17).

The filter housing features a door (18) for a convenient exchange of the complete tube sheet and an easy cleaning of contaminated inner parts. Three handwheels (19) provide a gas tight door closing.

The picture shows a Mikro ACM grinding system with a Mikro-Pulsaire Quick Replacement Filter RAK 60/2-6. The system is used for grinding of various resins in different colours. For altering production to a different colour, the tube sheets are pulled out, placed on special racks and are taken off the scaffold by a fork lifter. Within 20 minutes, the inside of the filter housing is cleaned with water or steam jet and new tube sheets and bags are inserted.

As bin mount units with hopper placed through a ceiling, tube sheet access is even easier by pulling out the bag rack on the floor without fork lifter.

**Technical Data:**

- Steel or stainless steel materials
- Operating pressure range +/- 0,1 bar
- Pressure shock resistant up to 2,5 bar
- Operating temperature up to 240°C
- Various filter media

