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## PATRONSKI FILTER PF

Prašni zrak vstopa v filter s spodnje strani skozi lijak. Z vstopom v lijak se iz zraka izločijo večji prašni delci. Delno očiščen zrak zatem vstopa v filterske patrone z zunanje strani. S prehodom skozi patrone se zrak očisti in pride v zgornji čistozačni del filtra. V tej komori na vrhu filtra se nahajajo Venturi šobe in sistem cevi za dovod komprimiranega zraka s katerim se čistijo patrone. Patrone se čistijo kontinuirano med delovanjem filtra po dve naenkrat v intervalih nastavljivih z elektronskim programatorjem. Perioda čiščenja je odvisna od prašnega zraka, željenega efekta čiščenja, propustnosti patron itd. Prah pada v zbirni lijak pod patronami. Iz zbirnega lijaka se glede na velikost filtra prah izloča kontinuirano preko polžnega transporterja in zvezdastega dozatorja (večji filtri), zvezdastega dozatorja (manjši filtri) oziroma občasno s pomočjo ročne izpustne lopute (najmanjši filtri).

## DUST COLLECTOR TYPE PF - Cartridge type dust collector

Cartridge type dust collector function is on the base of dry filtration principle.

Contaminated air enters the hopper at the base and flows upwards. Simple deflector is located at the entrance which forces heavy dust particles to fall down to the hopper.

The dusty air is then forced to flow upwards and to pass through the cartridge filters. Fine dust particles are collected on the outside surface of the cartridge, while clean air passes through the venturies and goes out to the atmosphere through the outlet duct which is connected to the fan.

The filtering media is made out of special poliester paper and is located in the inside part of the perforated cover. The paper filter has an undulating form which enables a bigger filtering area while having a small and compacted size.

Compressed air for cleaning the cartridges enters the ventury at the top. Due to its high velocity it sucks secondary air from the surroundings and thus causes an additional stream of air for flushing. An adjustable electronic timer controls the cycle of cleaning. Solenoid operated diaphragm valves are opened in sequence to introduce high pressure air into venturies above the cartridges. The direction of the stream of air for flushing is in reverse direction to that of the filtration system. In the same time, two cartridges are in cleaning phase, the other cartridges in the unit continue their filtering function. By sequencing the pulse-jet cleaning process, high dust loading can be handled without shutting-down the collector.

Accumulated particles fall into the hopper at the base, of collector. Hopper is emptied with screw conveyor (only for bigger dust collectors) and rotary lock.

Dedusted air should be dry and cold, without sparks or hot particles.

Cartridge dust collector is made out of parts that are very easy to assemble. Standard features include air tight steel construction and screwed connections, fully sealed doors and fittings, pneumatic and electric installations... All the filter elements are bolted together in one compact unit.