

## Suction filter units

# **PILOTOP**

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## MACHINE & EQUIPMENT



Machine & Equipment

## Suction filter units DTP

### Two-stage suction filter unit

The two-stage suction filter unit is a device that, with its technological solution, provides maximum efficiency and suction efficiency of up to 99 %. It finds its place in workplaces that produce waste impurities during their activity, especially in the woodworking industry when extracting sawdust, shavings and dust during machining, in the machine industry for extracting grinding dust, impurities and dust from firing centers and other similar operations where it is necessary clean residual and dusty dirt.



### Performance series of extraction units

Type	DTP100	DTP200	DTP300	DTP400
Fan power input (400V/50Hz)	1,5 kW	2,2 kW	4,0 kW	5,5 kW
Filtration suction power (m3/hr)	1800	3550	5600	7200
Quantity of filter bags	2	4	6	8
Filter area of the bag (m2)	1,6	3,5	4,8	6,6
Suction inlet (quant/diam-mm)	2/100	3/100	4/125	4/150
Collection container, cyclone	65 l	100 l	200 l	280 l
Collection container, filter	20 l	25 l	38 l	45 l
Machine dimension (LxWxH-mm)	1650x800x1600	1900x900x2100	2400x900x2350	2550x1000x2350
Total weight of the machine	90 kg	135 kg	165 kg	190 kg

# Description of the two-stage filter unit



- 1. Suction inlet with regulating flap**, connection points for connecting suction hoses with regulating ones flaps for closing and adjusting individual suction branches.
- 2. Control panel**, central control of the filter unit, fitted with a main switch, central disconnecter and frequency converter. Power and intensity are set using a frequency converter suction. The unit can be supplemented with a remote control.
- 3. Cyclone separator**, centrifugal dirt separator
- 4. Textile filtration**, textile filters made of FINET PES antistatic material
- 5. Collection container for coarse dirt**, collection container for dirt from the cyclone
- 6. Collection container for micro particles**, collection container for impurities from textile filters

## Suction filter units DTP

**The two-stage central exhaust filter unit DTP is an assembly that consists of:**

- steel structure with rolling wheels for easy handling and with a brake for fixation against movement
- exhaust transport fan, placed on flexible silent blocks to eliminate noise
- connecting pipe
- cyclone separator
- filter separator
- textile antistatic filter
- central control panel
- collection container of the cyclone
- collection container for the filter separator

### Description of the machine

In the upper part of the filter unit, there are connection entry points, which are fitted with shut-off flaps for regulating individual inputs. The high-performance exhaust transport fan sucks in dirt and dust particles from one or several workplaces at the same time. This is regulated by the closing flaps and by adjusting the intensity of the exhaust fan using a frequency converter. The impurities are first separated in a cyclone separator and are taken to a collection container. Residual dust is further transported through the pipe to the second stage of filtration, which is provided by textile filter bags made of antistatic material, and residual dust and impurities are removed to the second collection container. The collection container of the cyclone is on wheels for easy handling and, depending on the type of suction filter unit, can hold from 50 l to 180 l. The second collection container is smaller and in the form of a pull-out box. This filtration process achieves maximum separation of absorbed dirt with an efficiency of up to 99 %. The assembly is controlled from the central panel, it can be supplemented with a remote control, electric control of the regulating flaps, an indicator of the filling of the collection containers and an automatic knocking of the filter bags.



# Contact

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