

OC-1 – cyclone separator



Application

OC-1 cyclone separator is meant for cleaning the air from non-abrasive dust of particle size above $5\mu\text{m}$, both dry and viscous. The application is appropriate for fibrous, wood-, cellulose-based particles. On the other hand, do not use it for quartz-, corundum dusts. One of the applications is the removal of dusts, arising during the polishing of stainless steel, where emission of fibrous mixture as abrasive particles from the polishing discs and polishing pastes are observed. Device dimensions provide possibility of dust separation efficiency within 95–99%. The appliance is not equipped with an extraction fan. The fan ought to be placed at the vacuum side of the installation, as a first filtration stage. Further, the partially cleaned air should be directed to the filtering unit of higher class, as a device equipped with a suction fan.

Structure

The appliance is constructed of a cylindrical steel housing with a conic cyclone inside, with a revision cover. In the bottom part is located a waste container, with a discharge door to remove the accumulated waste. The connections are located in the upper part of the separator. Non-abrasive dusts are the construction target

of the OC-1 separator, of light-weight construction of zinc-coated steel, of not significant thickness of 1 mm, reducing the manufacturing costs (in comparison with the heavy cyclone separators of 3–4 mm sheet thickness). OC-1 separators can be both of indoor and outdoor application. They ought to be fixed by 4 anchor bolts to the floor.

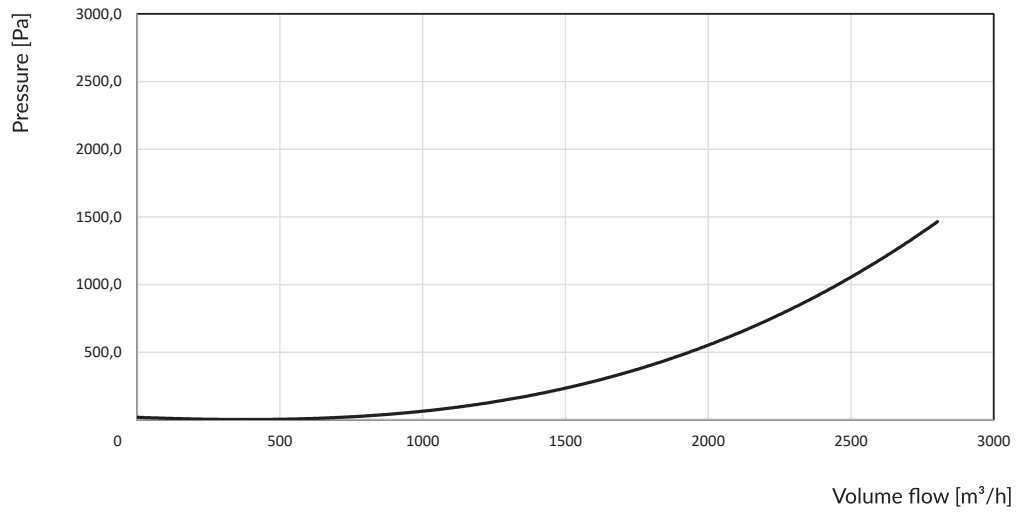
Operational Use

The inlet connection (of the cyclone) ought to be connected via 200 mm duct, whereas its outlet connection with 250 mm duct. Whereby, the inlet ought to be equipped with a conduit supplying the polluted air. The outlet connection should be integrated with the extraction fan, or with the subsequent filtering unit. It is important to empty systematically the waste container.

Technical Data

Type	Part No.	Recommended volume flow [m ³ /h]	Capacity of the waste container [dm ³]	Weight [kg]	Diameters of the connections [mm]	
					inlet	outlet
OC-1	802O23	2000-2700	200	90	200	250

Flow Charts



Dimensions

