



**PNEUMATIC CONVEYING
DEDUSTING
VENTILATION**

RAYMAN spol. s r. o.

www.rayman.cz

**DUSTING TRAP OD
from filter hoppers and precipitators**

Dusting trap is determined to displace dust captured in canal hoppers of filters or precipitators to coherent conveying or storage equipment. It is convenient also for highly abrasive dusts. Dusting trap operates continuously or cyclically, when is put



into operation after creating enough amount of dust in hopper. Outlet collar of trap could be located according to needs in its middle or at one of its edges. In bottom of trap are placed aerating pads. Profitable is combination of dusting trap with fluid conveyor and flow feeder. Solution of dusting trap is copyrighted by utility design (U) CZ 17 961 U1

Unique construction design of dusting trap and none movable parts ensure high conveying capacity, operating reliability, wear resistance and very long lifetime.

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For aerating dusting trap and pneumatic conveying subserve sources of conveying air with overpressure min. 30 kPa (preferably blowers) or exceptionally high pressure ventilators. Conveying medium could be used also another, e.g. nitrogen or inert gas.

Temperature of conveyed material can be to + 150 °C, or to + 200 °C, according to wish also higher. Ambient air temperature is not restricted.

Accessories of dusting trap represent material closure (manually or automatically operated), resource of conveying air (preferably blower) and system of pneumatic conveying for longer distances (flow or vessel feeder).

Main build proportion

Dusting traps are produced in dimensional range according to width outlet collars of filter hoppers, i. e. in widths 200, 250, 315, 350 and 400 mm, in atypical design in other widths; lengths are according to lengths of canal hoppers by agreement with filter designer. Dimensions of outlet collar are possible DN 200 or DN 250, or another (also square) according to wish.

Basic technical data

Max. operational temperature of conveyed material	150 °C or 200 °C
Conveying air consumption	according to conditions determines designer
for continuous operation	50 – 200 m ³ .h ⁻¹ .m ⁻²
for discontinuous operation	average for 0,4 m ³ .h ⁻¹ .m ⁻²
Max. operational overpressure of conveying air	0,03 - 0,6 MPa

