

DEPURECO . .

# Depureco FILTER HOPPER 800



A **pre-separator** is installed upstream of the main filter unit (DV AIR / DV AIR WB) and catches coarse particles **before** they reach the main filter's cartridges. This significantly extends the main filter's life, reduces pressure drop in the system and saves compressed air for the pulsejet cleaning. The Depureco FILTER HOPPER 800 is a **passive pre-separator with an open discharge flange** (non-ATEX) for central vacuum systems. The unit has a **cartridge filter class M** (180,000 cm<sup>2</sup> antistatic polyester), inlet Ø130 mm on the vacuum unit side and Ø100 mm on the vacuum spot side, discharge Ø250 mm. The discharge is an open flange and **requires a separate DISCHARGE SYSTEM** downstream (rotary valve, butterfly or big-bag frame -- see accessories page). SP-Reverse jet pulsejet cleaning is **included**. The unit is **passive** and **must be mandatorily combined with a vacuum unit** (CVS Z22 or CVS ROOTS Z22). Footprint 800 x 800 mm, height 2227 mm. Note: **not ATEX-certified**.

## APPLICATIONS

- Upstream pre-separator for central vacuum systems with larger dust volumes
- Open discharge Ø250 mm -- requires separate DISCHARGE SYSTEM downstream
- Combined with CVS Z22 or CVS ROOTS Z22 vacuum unit + DV AIR/DV AIR WB main filter
- Cartridge filter class M (180,000 cm<sup>2</sup>) -- high surface for lower pressure drop
- SP-Reverse jet cleaning included -- for continuous operation
- Suited to continuous discharge via rotary valve, butterfly or big-bag frame
- Non-ATEX -- for non-explosive dust environments

# Technical specifications

<b>ATEX marking</b>	-
<b>Internal / external zone</b>	- / -
<b>Motor type</b>	Ingen motor -- passiv pre-separator; luftflow leveres af tilknyttet sugeaggregat
<b>Filter class</b>	M class
<b>Filter type</b>	Patronfilter klasse M (180.000 cm <sup>2</sup> antistatisk polyester, EN 60335-2-69 / IFA-BGIA M-PES)
<b>Primary filter</b>	Patronfilter (antistatisk polyester), 180.000 cm <sup>2</sup> total
<b>Cleaning system</b>	SP-Reverse jet pulsejet-rens (trykluft-drevet, differenstryk-styret) -- **inkluderet**
<b>Collection system</b>	No collection (separate filtration and collection unit required)
<b>Material</b>	Lakeret staal-kabinet
<b>IP class</b>	-
<b>Voltage</b>	-
<b>Dimensions (L x W x H)</b>	800 x 800 x 2227 mm

# Questions and answers

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## What is a pre-separator and why use one?

A pre-separator is a passive filter unit placed between the suction point and the main filter unit. Its role is to **catch the coarse particles first**, so the main filter unit (e.g. DV AIR or DV AIR WB) only has to handle the fine residual dust. This gives three concrete benefits: (1) the main filter's cartridges last longer (less load), (2) pressure drop in the plant is lower and more constant (less pulsejet cleaning needed), and (3) the bulk of the dust is already collected at the pre-separator level where it is easier to handle. The catalogue is explicit: pre-separators **must be mandatorily combined with a suction unit** (CVS Z22 or CVS ROOTS Z22).

## What is Depureco FILTER HOPPER 800, and how does it work in practice?

Depureco FILTER HOPPER 800 is a passive pre-separator with cartridge filter class M (180,000 cm<sup>2</sup> antistatic polyester). Discharge is via an **open Ø250 flange** and requires a separate DISCHARGE SYSTEM downstream (rotary valve, butterfly or big-bag frame -- see our accessories page). This configuration suits larger dust volumes where automatic, continuous discharge is required. The vacuum unit's air flow enters via the Ø130 mm inlet (on the vacuum unit side) or Ø100 mm (on the vacuum spot side) and passes through the cartridge filter area. SP-Reverse jet pulsejet cleaning is **included** on this model.

## Why cartridge filter over star filter at this size?

Cartridge filters have significantly higher filter surface area per volume than star filters -- this gives lower air velocity over the filter face, lower pressure drop and longer life at the same dust load. For this reason, the catalogue chose a cartridge filter at this size (and on all non-bin variants), where flow and dust volume are expected to be greater. SP-Reverse jet pulsejet cleaning is **included** on this model to keep the filter clean under continuous operation.

## Is Depureco FILTER HOPPER 800 ATEX-certified?

No. The catalogue lists this family of pre-separators WITHOUT ATEX marking -- they are thus non-ATEX and must not be used in explosive atmospheres (Zone 20/21/22). If your plant requires ATEX operation, the pre-separator solution must be specifically engineered (and combined with DV AIR Z22 / DV AIR WB Z22 as the main filter). The antistatic polyester media reduces electrostatic buildup but does not replace ATEX type approval.

# Contact and advisory

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