

DEPURECO . .

# Depureco FILTERING PRE-SEPARATOR 800 WB



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 FILTERING PRE-SEPARATOR 800 WB is a **passive pre-separator with integrated 175 L painted steel container** (non-ATEX) for central vacuum systems. The unit has a **cartridge filter class M** (110,000 cm<sup>2</sup> antistatic polyester), inlet Ø130 mm on the vacuum unit side and Ø100 mm on the vacuum spot side. Dust is collected directly in the integrated 175 L container, which can be emptied manually or via an automatic option -- **no separate discharge system needed**. SP-Reverse jet pulsejet cleaning is **included** at this size. 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 smaller dust volumes
- Integrated painted steel container -- no separate discharge system needed
- Combined with CVS Z22 or CVS ROOTS Z22 vacuum unit + DV AIR/DV AIR WB main filter
- Cartridge filter class M (110,000 cm<sup>2</sup>)
- SP-Reverse jet cleaning included
- Turn-key for simple duty cycles -- manual or automatic container emptying
- 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>Container</b>	175 L
<b>Filter class</b>	M class
<b>Filter type</b>	Patronfilter klasse M (110.000 cm <sup>2</sup> antistatisk polyester, EN 60335-2-69 / IFA-BGIA M-PES)
<b>Primary filter</b>	Patronfilter (antistatisk polyester), 110.000 cm <sup>2</sup> total
<b>Cleaning system</b>	SP-Reverse jet pulsejet-rens (trykluft-drevet, differenstryk-styret) -- **inkluderet**
<b>Collection system</b>	Detachable container
<b>Material</b>	Lakeret staal-kabinet, 175 L malet staal-beholder
<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 FILTERING PRE-SEPARATOR 800 WB, and how does it work in practice?

Depureco FILTERING PRE-SEPARATOR 800 WB is a passive pre-separator with cartridge filter class M (110,000 cm<sup>2</sup> antistatic polyester). It has an **integrated 175 L painted steel container** where the collected dust falls directly -- no separate discharge system needed, the customer empties the container manually or via an automatic option. 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 FILTERING PRE-SEPARATOR 800 WB 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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**Product page:** [particulair.eu/ex-vac/en/atex-dust/filtering-pre-separator-800-wb/](http://particulair.eu/ex-vac/en/atex-dust/filtering-pre-separator-800-wb/)

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