

DEPURECO . .

Depureco DV AIR WB



The Depureco DV AIR WB is a **filter unit with integrated 175 L container** (non-ATEX) for central vacuum systems. The unit has **4 class M cartridge filters** (340,000 cm² antistatic polyester) with **SP-Reverse jet pulsejet cleaning**, max recommended airflow 1700 m³/h, inlet Ø130 mm. Unlike the open DV AIR variant, WB has a **175 L painted steel container**, so **no separate discharge system is required** -- dust is collected directly in the container, which can be emptied manually or via automatic replacement. The unit is **passive** and **must be mandatorily combined with a vacuum unit**. Filter inspection door and fixed frame included. Footprint 1185 x 1195 mm, height 2850 mm, weight 380 kg. Note: this variant is **not ATEX-certified** -- for Zone 22 operation, use the DV AIR WB Z22 variant (with stainless-steel container).

APPLICATIONS

- Central filter unit with integrated 175 L container (non-ATEX)
- Combined with CVS Z22 or CVS ROOTS Z22 vacuum unit
- Max 1700 m³/h airflow with 4 class M cartridges
- SP-Reverse jet pulsejet cleaning for continuous operation
- Turn-key alternative to DV AIR: integrated dust collection without separate discharge system
- Suited to non-explosive dust environments with smaller dust volumes and simple duty cycles

Technical specifications

ATEX marking	-
Internal / external zone	- / -
Motor type	Ingen motor -- passiv filter-enhed; luftflow leveres af tilknyttet sugeaggregat
Airflow	1700 m ³ /h
Container	175 L
Filter class	M class
Filter type	4 patroner klasse M (340.000 cm ² antistatisk polyester, EN 60335-2-69 / IFA-BGIA M-PES)
Primary filter	Patronfilter (antistatisk polyester), 340.000 cm ² total
Cleaning system	SP-Reverse jet pulsejet-rens (trykluft-drevet, differenstryk-styret)
Collection system	Detachable container
Material	Lakeret staal-kabinet, 175 L malet staal-beholder
IP class	-
Voltage	-
Dimensions (L x W x H)	1185 x 1195 x 2850 mm
Weight	380 kg

Questions and answers

Is DV AIR WB ATEX-certified?

No. This variant is non-ATEX and must not be used in explosive atmospheres. For Zone 22 operation, choose DV AIR WB Z22 (A1219/EX) -- it is identical in performance but carries ATEX approval II 3D Ex h IIIB T140 Dc and has a stainless-steel container instead of painted steel.

What is the difference between DV AIR and DV AIR WB?

DV AIR is a **filter unit without container** -- it has an open Ø250 mm flange downstream and requires a separate DISCHARGE SYSTEM (rotary valve, butterfly, big-bag frame etc.) for dust collection. DV AIR WB ('With Bin') instead has an **integrated 175 L container** directly below the filter, so dust is collected in-situ and no separate discharge system is needed. WB is 'turn-key' for smaller dust volumes and simple duty cycles (empty the bin manually or via automatic discharge), while DV AIR is for larger continuous flows where automatic discharge is required.

Why does Depureco DV AIR WB require a separate vacuum unit?

Depureco DV AIR WB is a **passive filter unit** -- it has no motor and cannot draw air itself. Its role is to clean the air from a connected vacuum unit (CVS Z22 side-channel or CVS ROOTS Z22) through 4 class M cartridges (340,000 cm² antistatic polyester). Air flow comes from the vacuum unit, passes through the cartridges, and the deposited dust is cleaned by the SP-Reverse jet pulsejet system and falls into the integrated 175 L container. The catalogue note is explicit: 'DV AIR must be mandatorily combined with a suction unit'.

How does the SP-Reverse jet filter cleaning work?

SP-Reverse jet is an automatic pulsejet cleaning system. Compressed air pulses (typically 5-6 bar) are fired into the cartridges from the back in short intervals -- this releases the dust cake from the surface, and it falls into the hopper and onwards into the integrated 175 L container. Cleaning is differential-pressure driven (starts when pressure drop exceeds threshold, stops when it drops back), so the filter always keeps its efficiency without over-cleaning or wasted air.

Contact and advisory

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