

DEPURECO . -

Depureco DV AIR 1100



The Depureco DV AIR 1100 is a **filter unit for central vacuum systems** (non-ATEX) -- delivered **WITHOUT** integrated container and **WITHOUT** integrated discharge system. The unit has **7 class M cartridge filters** (595,000 cm² antistatic polyester) with **SP-Reverse jet pulsejet cleaning**, max recommended airflow 2700 m³/h, inlet Ø150 mm, discharge Ø250 mm. Fixed frame with 4000 mm height. The unit is **passive** -- it has no motor and **must be mandatorily combined with a vacuum unit** plus a **DISCHARGE SYSTEM** of your choice for dust discharge. Filter inspection door is included from the factory. Footprint 1500 x 1500 mm, weight 528 kg. Note: this variant is **not ATEX-certified** -- for Zone 22 operation, use the DV AIR 1100 Z22 variant.

APPLICATIONS

- Central filter unit in larger vacuum systems without ATEX requirements
- Combined with CVS Z22 or CVS ROOTS Z22 vacuum unit + optional DISCHARGE SYSTEM
- Max 2700 m³/h airflow with 7 class M cartridges
- SP-Reverse jet pulsejet cleaning for continuous operation without manual filter cleaning
- Suited to non-explosive dust environments (metalworking, heavy production, chemical process without ATEX classification)

Technical specifications

ATEX marking	-
Internal / external zone	- / -
Motor type	Ingen motor -- passiv filter-enhed; luftflow leveres af tilknyttet sugeaggregat
Airflow	2700 m ³ /h
Filter class	M class
Filter type	7 patroner klasse M (595.000 cm ² antistatisk polyester. EN 60335-2-69 / IFA-BGIA M-PES)
Primary filter	Patronfilter (antistatisk polyester). 595.000 cm ² total
Cleaning system	SP-Reverse jet pulsejet-rens (trykluft-drevet, differenstryk-styret)
Collection system	No collection (separate filtration and collection unit required)
Material	Lakeret staal-kabinet
IP class	-
Voltage	-
Dimensions (L x W x H)	1500 x 1500 x 4000 mm
Weight	528 kg

Questions and answers

Is DV AIR 800 / 1100 ATEX-certified?

No. This variant is non-ATEX and must not be used in explosive atmospheres. For Zone 22 operation, choose DV AIR 800 Z22 (A1221) or DV AIR 1100 Z22 (A1240), which are identical in performance but carry ATEX approval II 3D Ex h IIIB T140 Dc.

What does Depureco DV AIR 1100 do, and why does it require a separate vacuum unit?

Depureco DV AIR 1100 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 7 class M cartridges (595,000 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. The catalogue note is explicit: 'DV AIR must be mandatorily combined with a suction unit'. The discharge (2700 max recommended airflow) leaves the filter unit via the Ø250 mm flange and must be routed to a DISCHARGE SYSTEM (rotary valve, butterfly, big-bag frame etc.) for final dust collection.

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 to the connected discharge system. 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. An SP cleaning system control option can be added for automatic management.

Which vacuum units can DV AIR be combined with?

The recommended matches are the CVS Z22 range (3D ATEX side-channel blower) and the CVS ROOTS Z22 range (3D ATEX Roots pump). The choice depends on your system's vacuum needs and duty profile: side-channel gives moderate vacuum (200-380 mBar) at various flows, while Roots holds constant high vacuum (490 mBar). The max recommended flow on this unit is 2700 m³/h -- choose a vacuum unit with matching or lower flow to stay within the filter's capacity. We help with sizing based on pipe lengths, take-off points and dust characteristics.

Contact and advisory

PARTICULAIR

Particulair

Højtoften 12

2690 Karlslunde, Denmark

CVR: 34129894

Phone: (+45) 70 23 12 03

E-mail: sales@particulair.com

Web: particulair.eu

Product page: particulair.eu/ex-vac/en/atex-dust/dv-air-1100/

SMARTER THINKING • BETTER WORKING

This datasheet is generated deterministically from Particulair product data. Prices and availability provided on request. All specifications subject to change without notice.