

AVC ATEX Vacuum Collectors

*"For a Cleaner, Safer and Eco Friendly
Working Environments"*



Pharmaceuticals



Chemical
Processing



Food & Agriculture



Metal Casting
Industry



Laser Cutting &
Powder Coating



Mining / Heavy
Industry Dust
Collection

**INDUSTRIAL
VACUUM
COLLECTORS
FOR CLEAN,
CONTINUOUS
PERFORMANCE**



HMI/PLC - IIoT Integration



Double Butterfly
Valve

**ATEX Certified
Terminal Boxes!**



airprocontrol.com





AVC ATEX Vacuum Collectors

High-Performance Industrial Vacuum Solutions for Explosive Environments

The **AVC ATEX Vacuum Collectors** are purpose-built to ensure exceptional safety and operational efficiency in industries facing high dust and explosion risks. Engineered to meet stringent EN and NFPA standards, they combine robust construction, innovative filtration technology, and intelligent automation for reliable, high-performance operation.

Key Features:

- **Durable Construction:**

Designed with 5 mm HRP St37 steel (stainless steel options available).
Tangential cyclone inlet ensures effective separation of coarse particles, protecting the filters.

- **Advanced Filtration:**

CARTEX Cartridge Filters: Electroconductive, flame-retardant media
Open pleat design enhances filtration efficiency and prevents blockages.
Continuous use at up to 80/120°C for demanding environments.

- **Automatic Jet Pulse Cleaning:**

Differential pressure monitoring ensures optimal cleaning efficiency and filter longevity.

- **Explosion Protection:**

Domed explosion vents crafted from 304 stainless steel.

Certified per ATEX and NFPA 68, customized for specific Kst values.

- **IIoT Integration:**

Real-time monitoring and predictive maintenance via APCIoT cloud service.
Advanced HMI/PLC control for seamless automation and data analysis.

- **Easy Maintenance:** Tool-free filter replacement and quick-access service doors minimize downtime.



HMI/PLC - IIoT Integration



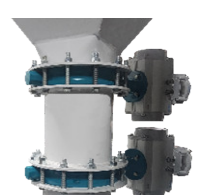
Terminal Box



Remote Control



Level Sensor



Double Butterfly Valve

Customizable Options:

- **Dust discharge mechanisms:** dust bins, butterfly valves, continuous liner discharge, and more.

- **BIBO Safe Change Filter System:** Contamination-free filter replacement.

Profinet-enabled HMI controls for real-time system monitoring.



Explosion Vent



Flameless Vent



Heat, Fire, Explosion Detection



Explosion

Applications:

Engineered for industries with dust explosion risks, including:

- Pharmaceuticals
- Chemical processing
- Food & agriculture
- Laser cutting & powder coating
- Mining, textiles, and more

CARTEX Cartridge Filters - High-Performance Filtration Media

- **Media Materials:** Fiberglass, Cellulose Synthetic, PTFE, BICO Polyester
- **Efficiency:** F9 @ EN 779, ISO 16890/MERV 15 to H14 @ EN1822, ISO 29463
- **Durability:** Conductive, Corrugated, Flame-Retardant, Nano-Coated, Flame Retardant (F1 DIN 53438) and suitable for upto continuous use at 80°C or 120°C.



CN-F9-FR

Corrugated FR
NANO Coated
Cellulose Blend



CN-F9-FR-EX

Corrugated FR Carbon
Impregnated
NANO Coated Cellulose
Blend



PN-F9-FR

Corrugated FR
NANO Coated Polyester



PN-F9-FR-EX

Corrugated FR Aluminium
NANO Coated Polyester



PT-HO-F9-FR-

Corrugated FR
Omniophobic
Conductive PTFE



APC CODE CHART

Dust Collector Type	Airflow	Width	Length	Height	Weight	Filters	CN Filtration Area	PN Filtration Area
AVC-EX-1	1.250 m³/h	1140 mm	1140 mm	4370 mm	810 mm	1 Pc	30 m²	21 m²
AVC-EX-2	2.500 m³/h	1500 mm	1500 mm	4500 mm	1050 mm	2 Pcs	60 m²	42 m²
AVC-EX-4	5.000 m³/h	1700 mm	1700 mm	5000 mm	1450 mm	4 Pcs	120 m²	84 m²

Why Choose AVC ATEX Vacuum Collectors?

The AVC ATEX Vacuum Collectors provide unmatched safety, advanced automation, and reliable dust and particle collection for hazardous environments. Their customizable features and compliance with global standards make them the ideal choice for industries prioritizing safety and efficiency.

INDUSTRIES

PHARMA

COMPOSITE

METAL-LASER/PLASMA

METAL-WELDING

CHEMICAL

FOOD

RUBBER

GLASS

PAPER

TEXTILE

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