

ADC ATEX Dust Collectors

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



Pharmaceuticals



Chemical
Processing



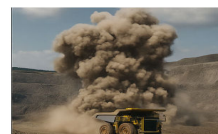
Food & Agriculture



Metal Casting
Industry



Laser Cutting &
Powder Coating



Mining / Heavy
Industry Dust
Collection



HMI/PLC - IIoT Integration



Double Butterfly
Valve

Key Features



Robust
Construction



Explosion
Protection



High-Performance
Filtration



IIoT
Integration



Automatic Jet
Pulse Cleaning



Easy
Maintenance

ATEX Certified Terminal Boxes!





ADC ATEX Dust Collectors

Advanced Dust Collection Solutions for Explosive Environments

The ADC ATEX Dust Collectors deliver unparalleled performance and safety in environments prone to dust explosions. Designed to meet stringent EN and NFPA standards, these systems combine cutting-edge cartridge filter technology with intelligent automation, ensuring clean air, extended filter life, and operational efficiency.

Key Features:

- **Robust Construction:** Durable body made from 5 mm HRP St37 steel (stainless steel optional) with a grill inlet to protect filters from large particles.
- **High-Performance Filtration:** Vertically installed CARTEX cartridge filters with open pleat design for blockage prevention.
- **Automatic Jet Pulse Cleaning:** Energy-efficient, ATEX-certified system with differential pressure monitoring for intelligent cleaning cycles.
- **Explosion Protection:** Stainless steel explosion vents tailored for specific Kst values, certified per ATEX and NFPA 68.
- **IIoT Integration:** Real-time monitoring and predictive maintenance through APCIOT cloud service.
- **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 Suppression



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-EX

Corrugated FR
Omniophobic
Conductive PTFE



APC CODE CHART

Dust Collector Type	Airflow	Width	Length	Height	Weight	Filters	CN Filtration Area	PN Filtration Area
ADC-EX-1	1.250 m³/h	1340 mm	780 mm	2790 mm	556 kg	1 Pc	30 m²	21 m²
ADC-EX-2	2.500 m³/h	1880 mm	780 mm	2930 mm	750 kg	2 Pcs	60 m²	42 m²
ADC-EX-4	5.000 m³/h	1880 mm	1300 mm	4520 mm	1030 mm	4 Pcs	120 m²	84 m²
ADC-EX-6	7.500 m³/h	2550 mm	1300 mm	4520 mm	1380 mm	6 Pcs	180 m²	126 m²
ADC-EX-8	10.000 m³/h	1880 mm	2510 mm	4520 mm	2100 mm	8 Pcs	240 m²	168 m²
ADC-EX-10	12.500 m³/h	3290 mm	1600 mm	4520 mm	2460 mm	10 Pcs	300 m²	210 m²
ADC-EX-12	15.000 m³/h	2550 mm	2800 mm	4520 mm	2780 mm	12 Pcs	360 m²	252 m²
ADC-EX-16	20.000 m³/h	2840 mm	2820 mm	4520 mm	4220 mm	16 Pcs	480 m²	336 m²
ADC-EX-18	22.500 m³/h	2550 mm	4300 mm	4520 mm	4240 mm	18 Pcs	540 m²	378 m²
ADC-EX-20	25.000 m³/h	3140 mm	3290 mm	4520 mm	4270 mm	20 Pcs	600 m²	420 m²
ADC-EX-24	30.000 m³/h	2550 mm	5660 mm	4520 mm	5720 mm	24 Pcs	720 m²	504 m²
ADC-EX-30	37.500 m³/h	2550 mm	6960 mm	4520 mm	7150 mm	30 Pcs	900 m²	630 m²
ADC-EX-36	45.000 m³/h	2550 mm	8120 mm	4520 mm	8580 mm	36 Pcs	1.080 m²	756 m²
ADC-EX-40	50.000 m³/h	2930 mm	6750 mm	4520 mm	10600 mm	40 Pcs	1.200 m²	840 m²

Why Choose ADC ATEX Dust Collectors?

With its innovative design, compliance with global safety standards, and advanced automation features, the ADC ATEX Dust Collector is the ultimate solution for maintaining a safe, clean, and efficient workspace.

INDUSTRIES

PHARMA

COMPOSITE

METAL-LASER/PLASMA

METAL-WELDING

CHEMICAL

FOOD

RUBBER

GLASS

PAPER

TEXTILE

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