



Airpocket Pro ATEX

Product Range





Features





Applications





Filter Class

ePM2.5



KEY FACTS

- Filter series compliant wih the European directive ATEX 2014/34/EU
- Particle filtration and gas adsorption in one filter element
- Removes odors and harmful gases

DESIGN

Multi-layered media, tailored-sewn into pockets with sealed, conical spacer seams for an optimal V-shape. A galvanized steel frame provides rigidity.

APPLICATIONS

For special air conditioning and ventilation systems in food, chemical and pharmaceutical industries, where demanding requirements for explosive atmospheres need to be met.



The filters used in the application areas are electrically conductive and comply with the European ATEX directive 2014/34/EU for products used in explosive atmospheres.

Airpocket Pro ATEX

PERFORMANCE DATA

Article No.	Filter Class	Dimensions	Pockets	Flow Rate	Pressure Drop*	Energy Consumption	Energy Class
	ISO 16890	mm		m³/h	Pa	kWh/year	2019
800391047759	ePM2.5 65%	592 x 592 x 635	8	3,400	120	1,801	D
800391053878	ePM2.5 65%	490 x 592 x 635	6	2,800	120		
800391053879	ePM2.5 65%	287 x 592 x 635	4	1,700	120		
800391053880	ePM2.5 65%	287 x 287 x 635	4	850	120		
800391053882	ePM2.5 65%	592 x 490 x 635	8	2,800	120		
800391053883	ePM2.5 65%	592 x 287 x 635	8	1,700	120		

^{*} Pressure drop tolerance ± 10%

SPECIFICATION

Recommended air flow	Flow rate ± 15 %	Recommended final pressure drop	250 Pa (max. 450 Pa)
Heat resistance	< 30 °C (Peak 50 °C)	Moisture resistance	< 60 % (max. < 90 %)
Regenerable	No	Incinerable	No

OPTIONS

Header depth	25 or 20 mm
Gasket	EPDM flat gasket

ZONE AUTHORIZATION

Filters are authorized, depending on their filtration classes, for use in the following zones with the listed flammable substances.

Substance	Zone	Explosion Group	
Dust	Zone O, Zone 1, Zone 2	IIIA – Flammable lints and floccuation IIIB – Isolating, non-conductive dust	
Gases	Zone 20, Zone 21, Zone 22	IIA – Diesel, petrol, ethane, etc IIB – Town gas, ethylene, etc	

Aircube / Nanoclass Cube N Pro ATEX

Product Range





Features







Applications





Filter Class





ePM1



KEY FACTS

- Suitable for high air volumes up to 4,000 m³/h
- Compact, space-saving design
- Large active media area
- Ideal for robust industrial applications
- High temperature stability up to 120 °C
- Filter series tested according to EN 13501-1:2010 as E d0

DESIGN

V-shaped pleated cells with special thread separators to ensure even spacing of the pleats. Metal casing with an integrated handle for ease of installation.

APPLICATIONS

Fine dust and HEPA filtration for process applications in HVAC and clean room systems with high air flow rates.



The filters used in the application areas are electrically conductive and comply with the European ATEX directive 2014/34/EU for products used in explosive atmospheres.

Aircube & Nanoclass Cube N Pro ATEX are certified according to EN 13501-1:2010 in flammability class E and droplet formation class d0.

Aircube / Nanoclass Cube N Pro ATEX

PERFORMANCE DATA

Article No.*			Filter Class	Dimensions	Flow Rate	Pressure Drop**
		EN 1822	ISO 16890	mm	 m³/h	Pa
800494050848	Aircube N Pro ATEX		ePM1 55%	610 x 610 x 292	4,000	160
800494050850	Aircube N Pro ATEX		ePM1 80%	610 x 610 x 292	4,000	170
800514050852	Nanoclass Cube N Pro ATEX	E11		610 x 610 x 292	3,400	190
800514000002	Nanoclass Cube N Pro ATEX	H13		610 x 610 x 292	4,000	290
800514027851	Nanoclass Cube N Pro ATEX	H14		610 x 610 x 292	3,400	270

^{*} Catalogue items are constructed with stainless steel frames and feature a gasket on the dirty side.

SPECIFICATION

Recommended air flow	Flow rate ± 20 %	Recommended final pressure drop	450 Pa (Aircube), 600 Pa (Nanoclass Cube)	
Heat resistance	Max. 120 °C	Moisture resistance	100 % rel. humidity	
Regenerable	No	Incinerable	No	
Fire classification	E d0 according EN 13501-1:2010			

OPTIONS

Frame material	Stainless steel; galvanised steel
Gasket	EPDM flat gasket 1 or 2 sides; U-profile gasket 1 or 2 sides

ZONE AUTHORIZATION

Filters are authorized, depending on their filtration classes, for use in the following zones with the listed flammable substances.

Substance	Zone	Explosion Group
Dust	Zone 0, Zone 1, Zone 2	IIIA – Flammable lints and floccuation IIIB – Isolating, non-conductive dust
Gases	Zone 20, Zone 21, Zone 22	IIA – Diesel, petrol, ethane, etc IIB – Town gas, ethylene, etc IIC – Hydrogen, acetylene, etc

^{**} Pressure drop tolerance ± 10%

Airsquare / Nanoclass Square Pro ATEX

Product Range





Features





Applications





Filter Class





KEY FACTS

- Various dimensions and extrusion types
- High-quality, anodized aluminum frame with stainless steel grid protection
- Filter series tested according to EN 13501-1:2010 as E d0

DESIGN

Pleated cells with state-of-the-art hotmelt spacing technology to ensure even spacing of the pleats. Stainless steel grid protection with dry sealing.

APPLICATIONS

Fine dust and HEPA filtration for process applications in HVAC and clean room systems.



The filters used in the application areas are electrically conductive and comply with the European ATEX directive 2014/34/EU for products used in explosive atmospheres.

Airsquare & Nanoclass Square N Pro ATEX are certified according to EN 13501-1:2010 in flammability class E and droplet formation class d0.

Airsquare / Nanoclass Square Pro ATEX

PERFORMANCE DATA

Article No.			Filter Class	Dimensions	Flow Rate	Pressure Drop*
		EN 1822	ISO 16890	mm	m³/h	Pa
800424050859	Airsquare Pro ATEX FC		ePM1 55%	610 x 610 x 70	2,000	90
800424050858	Airsquare Pro ATEX FC		ePM1 80%	610 x 610 x 70	2,000	140
800524051158	Nanoclass Square Pro ATEX FC	E11		610 x 610 x 70	600	80
800424050122	Nanoclass Square Pro ATEX FC	H13		610 x 610 x 70	600	95
800424050863	Nanoclass Square Pro ATEX FC	H14		610 x 610 x 70	600	105

^{*} Pressure drop tolerance ± 10%

SPECIFICATION

Recommended air flow	Flow rate ± 20 %	Recommended final pressure drop	450 Pa (Airsquare) 600 Pa (Nanoclass Square)
Heat resistance	Max. 70 °C	Moisture resistance	100 % rel. humidity
Regenerable	No	Incinerable	No
Fire classification	E d0 according EN 13501-1:2010		

OPTIONS

Extrusions	Various extrusion types available
Gasket	1 or 2 sides

ZONE AUTHORIZATION

Filters are authorized, depending on their filtration classes, for use in the following zones with the listed flammable substances.

Substance	Zone	Explosion Group
Dust	Zone 0, Zone 1, Zone 2	IIIA – Flammable lints and floccuation IIIB – Isolating, non-conductive dust
Gases	Zone 20, Zone 21, Zone 22	IIA – Diesel, petrol, ethane, etc IIB – Town gas, ethylene, etc IIC – Hydrogen, acetylene, etc



