





Summary

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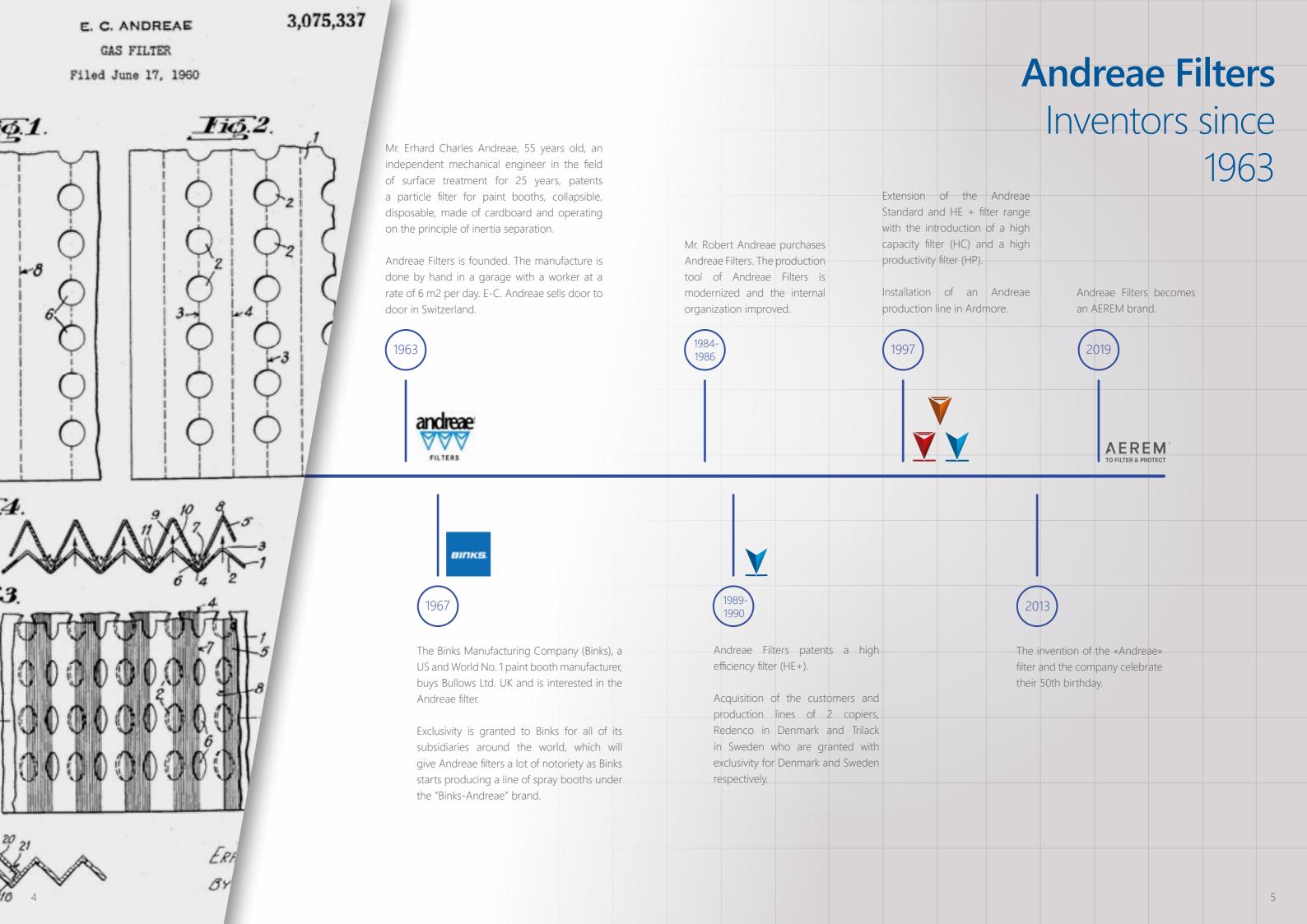








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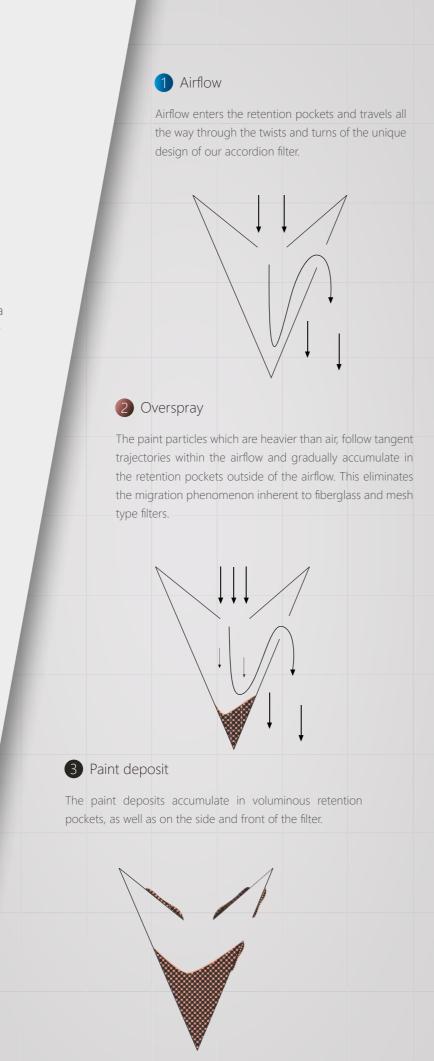
Separation by Inertia How does it work?

Filtration is not restricted to capturing particles with a succession of wider to smaller meshed apertures. Our ingenious filters use another principle: separation by

The migration phenomenon is common when slowdrying coatings are used in combination with mesh or fiberglass filters. This happens when the airflow pulls out particles previously trapped in the mesh or fiberglass. Consequently, the once deposited particles will again migrate throughout the system. However, with the Andreae Filter Separation by Inertia principle, the paint particles stay trapped in the retention pocket outside of the airstream.

Airflow loaded with paint particles (overspray) will suffer several radical changes in direction. These paint particles, heavier than air, follow tangent trajectories within the airflow. Thus, paint particles which accumulate in our retention pockets, outside of the air stream, allow the airflow to exit the filter virtually free of any overspray. As a result, our renowned high holding capacity filters hold up to 5 times more than common mesh filters.

Consequently, the static pressure within the booth increases slowly. This has two main advantages; the spray booth stays cleaner longer and the airflow around the coated parts stays uniform throughout the life of the filters.

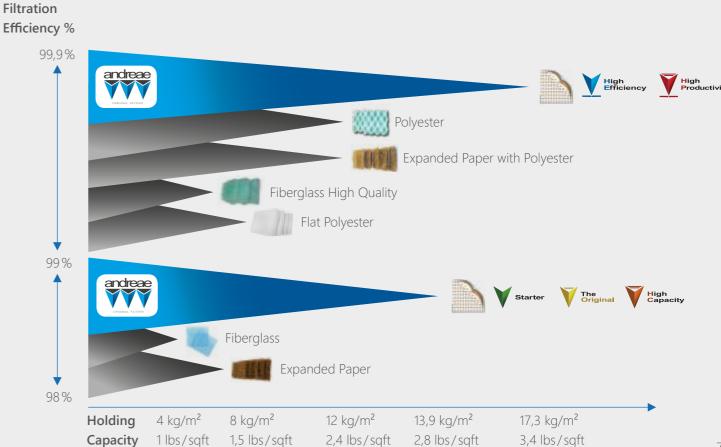




Why choose Andreae Filters?









Which Filter is Best for your Application?







The Andreae Starter is a low intensity filter intended for least demanding spray booth operations. Developed with the same expectation level as the Original Andreae filters, the Starter is made with 2 layers of "kraft" paper, punched, pleated and glued together. This product is ideal for a casual use of the spray booth and a great way to start with the Andreae filters range.

Performances

Load Efficiency

YYYY YYYY lacquers

Y Y Y Y Y Y Y Y High solids

Y Y Y Y Y Y Y Y Y Y Polyester Bi-Components



Load [kg/m²] [lbs/sqft]

Lacquers High Solids Polyester

10kg/m² 12kg/m² 13kg/m²

2lbs/sqft 2,5lbs/sqft 2,5lbs/sqft

Efficiency [%]

Lacquers High Solids Polyester 93.10% 98.20% 97.80%

Recommended Air Velocity:

0.5 to 1 m/s

Pressure drop at/by:

Max. recommended pressure drop:

128 pa (possible up to 256)









ıre Ex

on Limiter Re

Reference Filter

Since over 50 years now, the Andreae Original has been the reference filter on the market. It remains the most universal and common filter in use. Our Original is made with 2 layers of heavy "kraft" paper, punched, pleated and glued together with 2 built-in extension limiters. Thanks to these limiters, the maximum load capacity is guaranteed. The Original is the filter for all paint types.

Performances

Load Efficiency

Y Y Y Y Y Y Y Y Iacquers

YYYY High solids

Y Y Y Y Y Y Y Y Y Polyester Bi-Components

Load [kg/m²] [lbs/sqft]

Lacquers High Solids 10kg/m² 12kg/m² 2lbs/sqft 2,4lbs/sqft

s Polyester 13kg/m² tt 2,5lbs/sqft

Efficiency [%]

Lacquers High Solids 93.10% 98.20%

Polyester 97.80%

Recommended Air Velocity:

0.5 to 1 m/s

Pressure drop at/by:

0.5 m/s 20 pa

0.75 m/s 30 pa

40 pa

1.0 m/s

Max. recommended pressure drop:

128 pa (possible up to 256)

10









The Andreae HC Original Filter has a loading capacity up to 5 times higher than any other filter type on the market. Its unique structure allows for more paint deposit areas and a more even and in depth paint loading. The HC is made with 2 layers of heavy "kraft" paper, punched, pleated and glued together with additional large paper strips on the front to offer a higher load capacity.

Performances

Efficiency Load

Y Y Y Y Y Y Y Y

lacquers

Y Y Y Y Y Y Y Y



High solids

Y Y Y Y Y Y Y Y

Polyester Bi-Components



Polyester

 $13,9 kg/m^2$

2,8lbs/sqft

Polyester

98.20%







Rigid Structure

Polyester Layer

The Andreae HE Original Filter will bring a filtration efficiency near 100% while keeping the high loading capacity of the Andreae Original filter. The HE is made with 2 layers of heavy "kraft" paper, punched, pleated and glued together completed with a polyester layer on its back increasing its filtration efficiency.

Performances

Efficiency Load

lacquers *** * * * * * * * * ***

High solids **Y Y Y Y Y Y Y Y**

Y Y Y Y Y Y Y Y Polyester Bi-Components

Load [kg/m²] [lbs/sqft]

High Solids Lacquers $9 kg/m^2$ 12,2kg/m² 1,85lbs/sqft 2,4lbs/sqft

Polyester 14,7kg/m² 2,9lbs/sqft

Efficiency [%]

Lacquers High Solids Polyester 97.90% 99% 99.40%

Recommended Air Velocity:

0.5 to 1 m/s

Pressure drop at/by:

0.75 m/s 0.5 m/s 1.0 m/s 21 pa 32 pa 42 pa

Max. recommended pressure drop:

128 pa (possible up to 256)

Lacquers

93.90%

Lacquers

13,7kg/m²

2,7lbs/sqft

0.5 to 1 m/s

Recommended Air Velocity:

Load [kg/m²] [lbs/sqft]

High Solids

 $14,7 kg/m^2$

2,9lbs/saft

Efficiency [%]

High Solids

98.30%

Pressure drop at/by:

0.75 m/s 0.5 m/s 1.0 m/s 42 pa 21 pa 32 pa

Max. recommended pressure drop:

128 pa (possible up to 256)

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The Andreae HH Original filter has a higher filtration efficiency while keeping low airflow resistance. This means the filter lasts longer, ensuring a reduction in maintenance costs. The HH is made out of 2 layers of heavy "kraft" paper punched, pleated and glued together, completed with a fiberglass layer increasing both the filter's holding capacity and filtration efficiency.

Performances

Load Efficiency

lacquers **YYYY YYY**

High solids *** * * * * * * * * ***

******** Polyester Bi-Components













Polyester Layer

The Andreae HP Original filter combines the performances of the High Capacity and the High Efficiency filters. The HP is made with 2 layers of heavy "kraft" paper punched, pleated and glued together, completed with a polyester layer and additional large paper strips. It is the bestin-class choice for demanding spray booth operations.

Performances

Load Efficiency

lacquers **Y Y Y Y Y Y Y Y**

High solids **Y Y Y Y Y Y Y Y**

*** * * * * * * * * *** Polyester Bi-Components

Load [kg/m²] [lbs/sqft]

High Solids Lacquers 13,7kg/m² 16,2kg/m² 2,7lbs/sqft 3,2lbs/sqft

17,3kg/m² 3,4lbs/sqft

Polyester

Polyester

99.70%

1.0 m/s

Efficiency [%]

Lacquers High Solids 98.50% 98.80%

Recommended Air Velocity:

0.5 to 1 m/s

Pressure drop at/by:

0.5 m/s 0.75 m/s 21 pa 32 pa

42 pa

Max. recommended pressure drop:

128 pa (possible up to 256)

| Jau | įky/ | 1 | [ID2/ | sqitj | |
|-----|------|---|-------|-------|--|
| | | | | | |

High Solids Polyester Lacquers 11kg/m² $15 kg/m^2$ 13kg/m² 2,2lbs/sqft 4,7lbs/sqft 5,4lbs/sqft

Efficiency [%]

High Solids Polyester Lacquers 97% 98.50% 98.50%

Recommended Air Velocity:

0.5 to 1 m/s

Pressure drop at/by:

0.5 m/s 0.75 m/s 1.0 m/s 20 pa 30 pa 40 pa

Max. recommended pressure drop:

128 pa (possible up to 256)

| | | | Не | ight | Lei | nght | Su | rface | |
|--------------------|------------|-------------|--------|----------|-------|------------------------------|------|-------|--|
| Which Filter | | 40gg) | - City | 'llgu | 4 | ^{√6} E ^X | 43 | sd. | Š |
| is available in | | AF101 | 100 | 40 | 10 | 32′ 6″ | 10 | 108 | 26 |
| | 5 | AF701 | 75 | 29 1/2 | 13,5 | 43′ 9″ | 10 | 108 | 35 |
| your region? | Brown | AF801 | 90 | 36 | 9,14 | 30 | 8,35 | 90 | 24 |
| | | AF901 | 90 | 36 | 11,15 | 36′ 1/2″ | 10 | 108 | 29 |
| | | AF103 | 100 | 40 | 10 | 32′ 6″ | 10 | 108 | 26 |
| X | V4 (1.5) | AF703 | 75 | 29 1/2 | 13,5 | 43′ 9″ | 10 | 108 | 35 |
| Starter | White | AF803 | 90 | 36 | 914 | 30 | 8,35 | 90 | 24 |
| | | AF903 | 90 | 36 | 11,15 | 36′ 1/2″ | 10 | 108 | 29 |
| | | AF102 | 100 | 40 | 10 | 32′ 6″ | 10 | 108 | 24 3.3 2.4 2.1 2.1 2.1 3.3 2.2 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 |
| | | AF702 | 75 | 29 1/2 | 13,5 | 43′ 9″ | 10 | 108 | 35 |
| | Ignifugé | AF802 | 90 | 36 | 9,14 | 30 | 8,35 | 90 | 26 35 24 29 26 35 24 29 |
| | | AF902 | 90 | 36 | 9,144 | 30 | 10 | 108 | |
| | | AF111 | 100 | 40 | 10 | 32′ 6″ | 10 | 108 | 26 |
| | D | AF711 | 75 | 29 1/2 | 13,5 | 43′ 9″ | 10 | 108 | 35 |
| | Brown | AF811 | 90 | 36 | 9,14 | 30 | 8,35 | 90 | 24 |
| | | AF911 | 90 | 36 | 11,15 | 36′ 1/2″ | 10 | 108 | 29 |
| | | AF113 | 100 | 40 | 10 | 32′ 6″ | 10 | 108 | 26 |
| | | AF713 | 75 | 29 1/2 | 13,5 | 43′ 9″ | 10 | 108 | 35 |
| The | White | AF813 | 90 | 36 | 914 | 30 | 8,35 | 90 | 24 |
| Original | VVIIIC | AF913 | 90 | 36 | 11,15 | 36′ 1/2″ | 10 | 108 | 29 |
| | | Pads: AF213 | 50 | 20 | 50cm | 20″ | 0,25 | 2,8 | 1. |
| | | Pads: AF413 | 50 | 20 | 63cm | 25″ | 0,3 | 3,5 | 1 |
| | Ignifugé . | AF112 | 100 | 40 | 10 | 32′ 6″ | 10 | 108 | 26 |
| | | AF712 | 75 | 29 1/2 | 13,5 | 43′ 9″ | 10 | 108 | 35 |
| | | AF812 | 90 | 36 | 9,14 | 30 | 8,35 | 90 | 24 |
| | | AF912 | 90 | 36 | 11,15 | 36′ 1/2″ | 10 | 108 | 29 |
| | Brown | AF121 | 100 | 40 | 8 | 26′ 1/4″ | 8 | 86 | 2 |
| | | AF721 | 75 | 29′ 1/2″ | 10,75 | 35′ 1/4″ | 8 | 86 | |
| | | AF921 | 90 | 36 | 9,14 | 30 | 8,35 | 90 | |
| | | AF123 | 100 | 40 | 8 | 26′ 1/4″ | 8 | 86 | |
| High Efficiency | White | AF723 | 75 | 29′ 1/2″ | 10,75 | 35′ 1/4″ | 8 | 86 | 28 |
| | | AF923 | 90 | 36 | 914 | 30 | 8,35 | 90 | |
| | | Pads: AF223 | 50 | 20 | 50cm | 20" | 0,25 | 2,8 | |
| | | Pads: AF423 | 50 | 20 | 63cm | 25″ | 0,3 | 3,5 | |
| | | | | | | | | | |
| | | AF133 | 100 | 40 | 8 | 26′ 1/4″ | 8 | 86 | |
| High Capacity | White | AF733 | 75 | 29′ 1/2″ | 10,75 | 35′ 1/4″ | 8 | 86 | |
| | | AF933 | 90 | 36 | 9,14 | 30 | 8,35 | 90 | 24 |
| | | AF143 | 100 | 40 | 8 | 26′ 1/4″ | 8 | 86 | 2 |
| High Productivity | White | AF743 | 75 | 29′ 1/2″ | 10,75 | 35′ 1/4″ | 8 | 86 | |
| | | AF943 | 90 | 36 | 9,14 | 30 | 8,35 | 90 | |
| | | AF153 | 100 | 40 | 8 | 26′ 1/4″ | 8 | 86 | 2 |
| High | White | AF753 | 75 | 29′ 1/2″ | 10,75 | 35′ 1/4″ | 8 | 86 | 28 |
| 16 | | AF953 | 90 | 36 | 9,14 | 30 | 8,35 | 90 | 24 |

| | | | Wobe | EUrope | neico | rejico so |
|----------|--------------------|----------|----------|-----------|----------|---|
| | Moge | kaster | nto Nes | Selv 704A | bu. Son | Aneico Apaclneo |
| | AF101 | ٧ | ¥ | | ¥ | Y |
| | AF701 | Y | Y | | | |
| Brown | AF801 | ¥ | | | | ¥ |
| | AF901 | ¥ | ¥ | | <u> </u> | ¥ |
| | AF103 | ¥ | Y | | | ¥ |
| | AF703 | Y | Y | | | |
| White | AF803 | Y | ¥ | | | ¥ |
| | AF903 | ¥ | ¥ | | <u> </u> | ¥ |
| | AF102 | | Y | | | · · |
| | AF702 | | Y | | | |
| Ignifugé | AF802 | | | | | |
| | AF902 | | | | | |
| | Filters per Pallet | 60 | 60 | | 60 | 60 |
| | AF111 | ¥ | Y | | | |
| | AF711 | ¥ | Y | | | |
| Brown | AF811 | ¥ | Y | | | |
| | AF911 | ¥ | Y | | | |
| | AF113 | ¥ | Y | ٧ | Y | ¥ |
| | AF713 | Y | Y | | | <u> </u> |
| N. 11 | AF813 | Y | Y | ٧ | Y | Y |
| White | AF913 | · Y | · | • | <u> </u> | <u>,</u> |
| | Pads: AF213 | | | ٧ | Y | <u>, </u> |
| | Pads: AF413 | | | Y | | <u> </u> |
| | AF112 | | Y | · | <u> </u> | |
| / | AF712 | | · | | | |
| Ignifugé | AF812 | | Y | | | |
| | AF912 | | Y | | | |
| | Filters per Pallet | 60 | 60 | 60/56 | 60 | 60 (pads: 56) |
| | AF121 | ¥ | ¥ | | | (pads: 56) |
| Brown | AF721 | Y | ¥ | | | |
| | AF921 | ¥ | Y | | | |
| | AF123 | | · | Y | Y | ¥ |
| | AF723 | | · | | | <u> </u> |
| White | AF923 | · Y | · | Y | Y | Y |
| | Pads : AF223 | • | | Y | · | <u> </u> |
| | Pads: AF423 | | | Y | <u> </u> | · |
| | Filters per Pallet | 56 | 56 | 56 | 56 | 56 |
| | AF133 | ¥ | Y | ٧ | Y | Y |
| White | AF733 | ¥ | Y | | | |
| | AF933 | Y | Y | ٧ | Y | Y |
| | Filters per Pallet | 60 | 60 | 60 | 60 | 60 |
| | AF143 | ¥ | Y | ٧ | ¥ | ¥ |
| White | AF743 | ٧ | Y | | | |
| | AF943 | Y | Y | ٧ | Y | ¥ |
| | Filters per Pallet | 60 | | 56 | 56 | 56 |
| | AF153 | ¥ | Y | ٧ | ¥ | Y |
| White | AF753 | ٧ | ¥ | | | |
| | AF953 | ٧ | Y | ٧ | ¥ | ¥ |
| | Filters per Pallet | 52 | | 56 | | 52 |

Channel Frame Installation



Exhaust frame construction



1 Cut filter length to fit frame opening:

Count marks to length the frame opening and cut. (i.e. 10 ft wide frame opening, count 10 marks and cut on the 10th mark; i.e. 3 m wide frame opening, count 9 marks and 6 pleats, then cut).

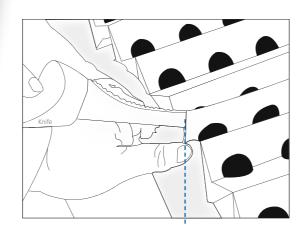
To cut, slide knife under pleat (and polyester if cutting the HE). After knife is in position, firmly grasp the filter and lift knife.

Gather filter:

Filter into a tight accordion for easy transport. Slide filter into frame, white side facing toward spray gun. Release.

Tuck first and last pleats:

Behind clips on each end of exhaust frame.



You will cut through two paper layers (plus syntetic material in the High range). Pinch the pleats on either side beneath the knife for additional control while cutting.

Option A L-shape clip Option B S-shape clip

Do not over-extend the filter.

Over-extension reduces arrestance efficiency and filter life.

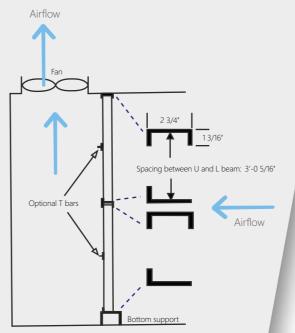
Three simple elements constitute the Andreae Filter frame:

1 An L-shaped channel is positioned at the side and bottom of the frame to create the filter stand support.

Inner Dimensions: Height 1" (2.54 cm), Depth 2.75" (7 cm), Length as required

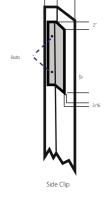
- 2 The side clips secure the first and last filter pleat in place and seal the exhaust wall
- (3) A U-shaped channel is positioned upside down to create the upper part of the frame. This seals the top of the filter and prevents the filter from falling forward when the ventilation is turned off.

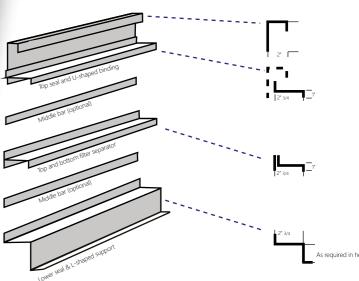
Inner Dimensions: Height 1.2" (3 cm), Depth 2.75" (7 cm), Length as required











Andreae Filters are held in place by an inverted U-beam on top and an L-beam on bottom. If the booth has several rows of filters, each row is installed on top of the adjoining beam.

The T-bar is installed mid-height for additional support. No grid is necessary if the access to the exhaust plenum is open.

The inner dimensions between the U and L beams must be sized ~0.75 in larger than the actual filter height to allow room for the filter to slide into the frame.

The Pad Frame Installation

Andreae Wire Supports is necessary for the installation of Andreae pad size filters: 20×20 inch and 20×25 inch $(50 \times 50 \text{ cm})$ and $50 \times 63.5 \text{ cm}$).

An initial adjustment of the wire supports are required for proper fit. Over bend wires to allow 1/8 in (0.32 cm) gap between wire support arm and frame wall. This is a one-time adjustment.

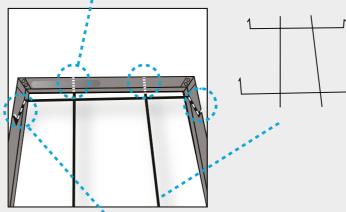


The pad filter support Installation



Front view cell frame

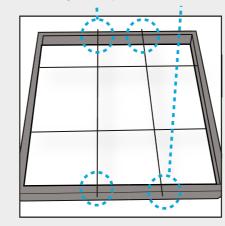
Straight tines behind the filter frame



Wire support grid into filter frame

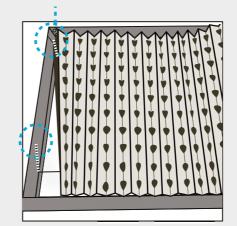
Back view cell frame

Four straight tines positioned behind the filter frame



Front view cell frame

Filter is held between the bent tines and the filter frame.



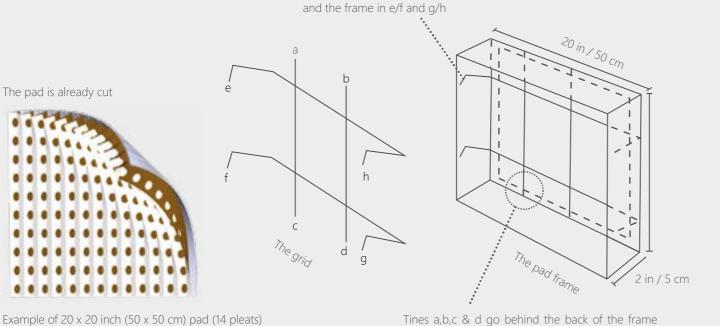
- 1 Insert two straight tines behind the filter frame. (Frame shown depicts a cell opening in an existing spray booth exhaust bank.)
 - The straight tines will run vertically, up and down but can be positioned horizontally.
- You may insert either the top or bottom pair, it does not matter which end is inserted first.
- 2 Push the wire support grid into filter frame, sliding grid up or down so that the remaining two straight tines can also be positioned behind the filter frame.
- 3 Once all four straight tines are behind the frame, slide the support to center it within the frame. It is not necessary to position the support perfectly.

Rear view of filter frame showing all four straight tines positioned behind the filter frame. These may overhang the frame more on one end or the other, depending on how well the support is centered within the frame.

It is not necessary to perfectly center the wire support.

4 Secure Andreae Filter within frame: tuck first rear pleat of the filter between bent tines and filter frame.

The tines will puncture the polyester backing of the filter when installing the Andreae High Efficiency Filter, but this does not affect the filter's performance.



Insert pleat i & j between the grid

One time installation

to secure wire support while removing loaded filter

If you are changing from other media, we will provide Andreae Filter Supports free of charge.

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AEREM® TO FILTER & PROTECT

OUR MISSION

Every day, we focus on our customers and partners needs. Each relationship is built as a privileged partnership, based on professionalism, understanding and mutual trust. Optimizing their experience and delivering always performant, environmentally friendly quality products easy to dispose of is our commitment.

The industrial filtration sector, like all industries, is constantly evolving, whether in terms of technical improvement, environmental standards or mentality. Despite these changes, our mission since 1963 is to develop, manufacture and supply high quality filtration products for spray booths, maintain the operator or robot in a clean environment and enhance the spray booth productivity.

AEREM is above all a work of men and women united around the world for the success of the Group. They all share the same values in a solidarity and caring climate.

OUR VISION

Our Group's ambition is to affirm our position by becoming an international multi-brand company in the global finishing industry with a wide variety of renowned and innovative filtration products.

OUR VALUES



ENVIRONMENT

Protecting the environment is the responsibility of everyone. Thus AEREM uses recycled raw materials in all of its products. Our sharply tuned and performant production processes allow low waste and low energy consumption.



PROTECTION

We seriously consider the need to protect the operator and provide a secure work environment through our products and services. This is why our filters are free of polluting or toxic products. They can be stored, handled and incinerated or landfilled safely.



RESPECT & INTEGRITY

We treat others with respect and comply with all internal and external norms and regulations.

We strive to always act with transparency and honesty.



CUSTOMER CARE

Because all our customers are important to us, our priorities is to support them in their projects and build and maintain a long-term partnership to be able to bring the answers adapted to each need.

Over 900 distributors around the world trusted us.



MULTICULTURALISM

Aerem is a selfie of multiculturalism and diversity. Our teams are made of men and women of different languages, cultures and origins. It is in this spirit of openness and diversity that we seek to build a partnership with you.

Please, visit the toolbox section on our website for all your technical questions:

www.andreaefilters.com



AEREM LOCATIONS WORLDWIDE



AMERICAS



CANADA

5000 Rue Hickmore Saint-Laurent, QC H4T 1K6 Tel: +1 514-375-7100 Customers.ame@aerem.com



SWITZERLAND

Rue du Jeu de L'Arc 15 CH - 1207 Genève Tel: +41 21 869 93 63 Customers.eur@aerem.com

ASIA-PACIFIC



SINGAPORE

22 Gemmill Lane #03-01 Singapore 069257 Tel: +65 6922 7800 Customers.api@aerem.com



USA

422 2nd Ave NW Ardmore, OK 73401 Tel: +1 866 263 7323 Customers.ame@aerem.com



POLAND

ul. Lubczyńska 6 F PL - 70-895 Szczecin Tel: +48 91 884 90 00 Customers.eur@aerem.com



HONK-KONG

20th Floor, Euro Trade Center 21-23 Des Voeux Road Central Tel: +852 2824 8156 Customers.api@aerem.com

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www.aerem.com

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