

COLUMBUS ROLLS AND PC PLEAT

More layers, more capacity, more air!



LINDLARSEN
Optimizing your production



Columbus Industries, Inc.
Filtration Group

WILTEC

Wiltec Filter APK

Save now! Request the **free** Filter Check

The smallest changes in your process can significantly disrupt your filter management. If your filtration process does not change accordingly, this will have very adverse effects on:

- › Total filter costs per year
- › Waste and energy costs
- › Maintenance costs
- › Production capacity
- › The end result of your product
- › Safety of your staff

To ensure that your current situation is completely up to date, we would be happy to visit you for a no-obligation and free Filter Check. We check your filtration process on the ten most important points. With a clear report you will immediately find out whether you are working in the most efficient way. Do our filter specialists identify areas for improvement? We will then give you a no-obligation filter recommendation!



Request the
free Filter
Check



Work smarter and safer

with Columbus

Every coating process is unique and constantly changing. Costs rise, production processes and hours are changing. Your assortment, production volumes, spraying techniques and equipment or coatings are changingz . You have to meet stricter environmental requirements, train new employees and keep up with sustainable and technological developments.

You probably go along with all these changes effortlessly. But does your filtration process changes also accordingly? With the right paint collection filters you can produce optimally and reduce your costs!

How this works exactly? You can read it in this brochure. Do you have any questions? Let us know! We are happy to help you.



Job van den Elzen
Filter specialist

The power of Columbus

More layers, more capacity, more air!

The power of the Columbus filter medium lies in the unique structure with a large number of filter layers. Thanks to an optimal depth loading, all layers are fully utilized. This ensures an extremely high holding capacity and efficiency. The Columbus filter, available in rolls and as PC Pleat, guarantees optimum airflow in every paint booth during the entire lifespan of the filter.

1 LESS WASTE & ENERGY COSTS



2 MORE PRODUCTION CAPACITY



3 LESS PRODUCTION REJECTS



4 LOWER FILTER COSTS



5 LOWER MAINTENANCE COSTS

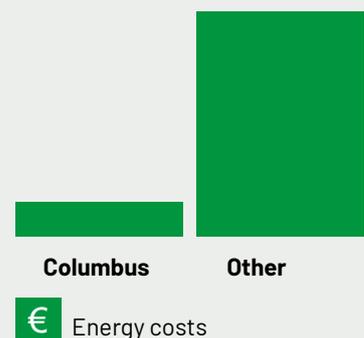


6 SAFER WORK ENVIRONMENT



Green and safe

Due to low resistance, your energy consumption will be reduced, contributing to lower CO² emission. The filters are produced using recycled paper of the highest quality available. Because of this, Columbus is able to guarantee a long lifespan and minimal environmental impact. Only 2% of the original volume remains during waste incineration. Furthermore, the Columbus filter complies with the statutory fire precautions and safety regulations (F1-certified). In addition, they are the only of their kind to meet the statutory requirements as set in AI-19! ***This means a sustainable and safe working environment!***

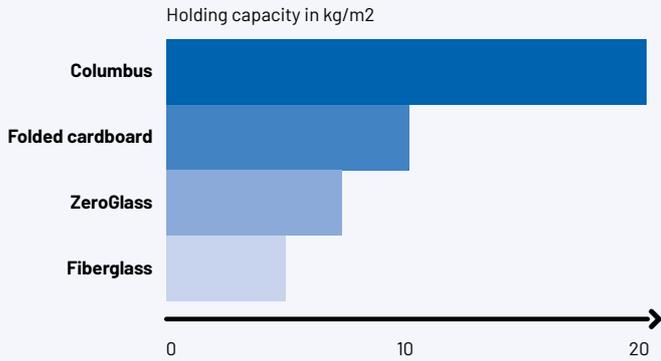


Columbus

Other

€ Energy costs

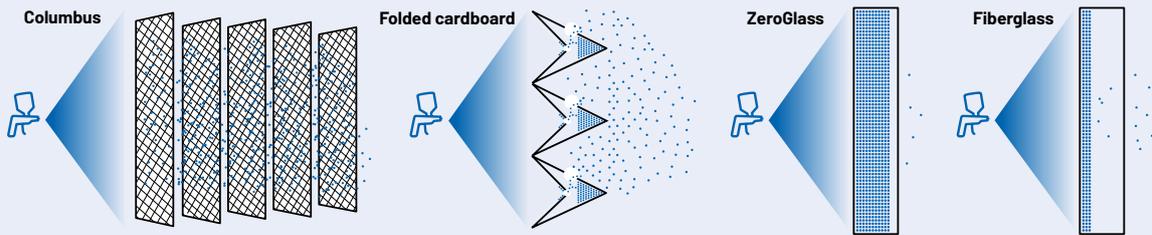
High holding capacity



The power of the Columbus filter medium lies in the unique structure with a large number of filter layers. Thanks to an optimal depth loading, all layers are fully utilized, which ensures an extremely high holding capacity.

This means you need to replace your filters much less often.

High efficiency



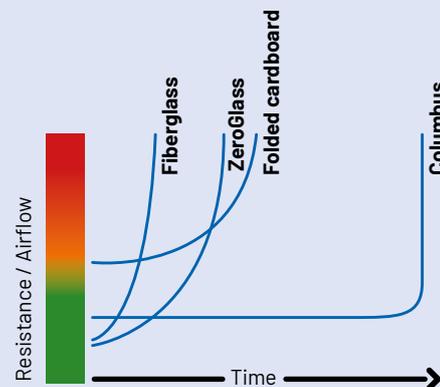
The unique structure of the Columbus filter does not only ensure an extremely high holding capacity, but also a 96% to 98% filter efficiency. The Columbus filters, which are fitted with a synthetic rear layer, ensure efficiencies of up to 99,9%!

This means that the filter captures all paint particles and no paint will end up in the ventilation duct, the fan or the environment.

Optimal air management

The Columbus filter guarantees a perfect airflow in any paint booth. The unique structure of the layers ensures that throughout the entire lifespan of the filter, the airflow remains consistently optimal.

This means that your spraying environment will always be in perfect condition.

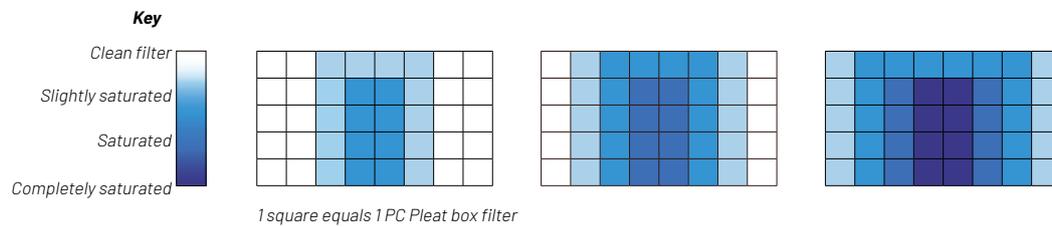


Columbus PC Pleat



The 5 advantages

Wiltec combines the advantages of the Columbus filter medium with the advantages of modular exchange in PC Pleat. PC Pleat is a box filter made from high-quality recycled cardboard containing the successful Columbus filter medium. Due to the unique structure and composition of various degrees of fineness, PC Pleat has the highest holding capacity and efficiency of all box filters. This is guaranteed to improve your paint booth!



1

Modular exchange

You can exchange the PC Pleat modularly. This means that the filter wall is divided into smaller compartments that can be changed separately. A spraying wall is most heavily loaded with overspray in the middle. By switching modularly, you only change the parts whose filters are fully saturated.

That means a huge saving on filter costs.

1. Remove the tape



2. Remove the saturated PC Pleat



**Modular exchange
in 4 easy steps**

3. Place a new PC Pleat



4. Tape the new PC pleat



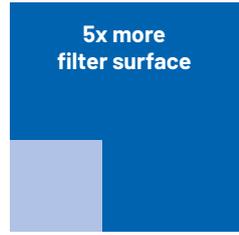
2

More holding capacity

PC Pleat has an extremely high holding capacity and can hold up to 144 kg/m² of paint overspray. Due to the unique design of PC Pleat, a spray wall with PC Pleat has 5 times more filter surface than a spray wall with filter mats. The extremely high holding capacity translates directly into a very long lifespan.

That means: more production capacity due to less frequent filter changes!

144 KG/M²



5x more filter surface



Directly applicable



Anti-run off technologie



Less exchanges

3

Quicker exchange

PC Pleat is the most user-friendly box filter on the market. Because the PC Pleat is ready-made, it can be used immediately and the anti-run off technology prevents overspray from running down, which prevents pollution in your cabin. Because it is possible to integrate an after-filter into the PC Pleat, only 1 filter needs to be changed instead of 2 filters.

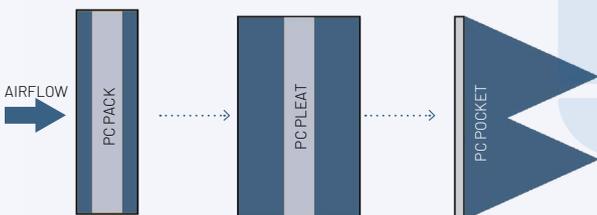
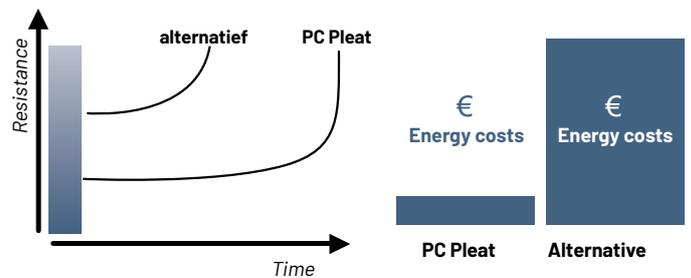
That means: shorter production stops and more production time.

4

Energy efficient

The initial resistance of PC Pleat is up to 5 times lower than any other box filters in the market. A low resistance immediately results in a low energy consumption. The low resistance also creates an optimal airflow, which ensures that the overspray is well extracted, which reduces the risk of rejecting products.

That means: much lower energy costs and much less rejection.



5

Always the right efficiency

There are many different types of paints and adhesives & glues. For each type, a different filter or combination of filters is most suitable. With the complete range of Columbus PCP products we can always make the right combination for you. This way, all types of paint or adhesive & glue can be captured with the right efficiency.

That means: always the right filter for the best result.

Columbus Filter rolls

A selection of the assortment

The Columbus filter rolls assortment has five best sellers. These variants can provide the best results. The optimal filter combination is determined by many factors and depends on your work and situation. Our filter specialists are happy to advise you on site!



All filter rolls are available in the size you require



Columbus CI-Standard filter (CI-S)

06.600...

06.6001106

CI-Standard 1,06 x 12 m

06.6002...

Custom-made mats

- Consists of six layers baffled filter paper
- Particularly suitable for dry paints, adhesives & glues, fillers, epoxies, primers, urethanes and stains
- Material: recycled paper
- Recommended airflow: 0.5 - 1.5 m/s
- Initial pressure drop: 3.7 - 24.9 Pa
- Final pressure drop: 100 Pa
- Paint holding capacity: up to 13.6 kg/m²
- Filter efficiency: up to 98.5%
- Inflammability: F1 according to DIN53438

Columbus CI-High Capacity filter (CI-HC)

06.601...

06.6011106

CI-HC 1,06 x 10 m

06.6012...

Custom-made mats

- Consists of eight layers baffled filter paper
- Particularly suitable for dry paints, adhesives & glues, fillers, epoxies, primers, urethanes and stains
- Material: recycled paper
- Recommended airflow: 0.5 - 1.5 m/s
- Initial pressure drop: 3.7 - 23.6 Pa
- Final pressure drop: 100 Pa
- Paint holding capacity: up to 21.77 kg/m²
- Filter efficiency: up to 99%
- Inflammability: F1 according to DIN53438

The most
commonly used
Columbus filter!



Columbus CI-Eurosupra II filter (CI-ESII)

06.603...

06.6031106

CI-Eurosupra II 1,06 x 12 m

06.6032...

Custom-made mats

- Consists of five layers baffled filter paper and one synthetic layer
- Synthetic backing layer ensures the best efficiency with dry paints
- Particularly suitable for dry paints, adhesives & glues, fillers, epoxies, primers, urethanes and stains
- Material: recycled paper with synthetic backing layer
- Recommended airflow: 0.5 - 1.5 m/s
- Initial pressure drop: 9.8 - 62.3 Pa
- Final pressure drop: 100 Pa
- Paint holding capacity: up to 10.52 kg/m²
- Filter efficiency: up to 99.5%
- Inflammability: F1 according to DIN53438



Highest efficiency with dry paints!

The perfect combination of highest efficiency and holding capacity



Columbus CI-High Capacity Eurosupra II filter (CI-HCSII)

06.604...

06.6041106

CI-HCS II 1,06 x 10 m

06.6042...

Custom-made mats

- Consists of seven layers baffled filter paper and one synthetic layer
- Synthetic backing layer ensures the best efficiency with dry paints
- Particularly suitable for dry paints, adhesives & glues, fillers, epoxies, primers, urethanes and stains
- Material: recycled paper with synthetic backing layer
- Recommended airflow: 0.5 - 1.5 m/s
- Initial pressure drop: 9.8 - 62.3 Pa
- Final pressure drop: 100 Pa
- Paint holding capacity: up to 17.06 kg/m²
- Filter efficiency: up to 99%
- Inflammability: F1 according to DIN53438

Columbus CI-High Capacity 5 filter (CI-HC5)

06.613...

06.6131106

CI-HC5 Sd 1,06 x 10 m

06.6132...

Custom-made matsn

- Consists of five layers baffled filter paper
- Particularly suitable for dry paints, adhesives & glues, fillers, epoxies, primers, urethanes and stains
- Material: recycled paper
- Recommended airflow: 0.5 - 1.5 m/s
- Initial pressure drop: 3.7 - 23.6 Pa
- Final pressure drop: 100 Pa
- Paint holding capacity: up to 21.77 kg/m²
- Filter efficiency: up to 99%
- Inflammability: F1 according to DIN53438



Columbus PCP

A selection of the assortment



The Columbus PCP assortment consists of three main variants. These variants can provide the best results separately and in combination with each other. The optimal filter combination is determined by many factors and depends on your work and situation. Our filter specialists are happy to advise you on site!



PC Pack

PC Pack is a box filter manufactured with the successful Columbus Industries filter medium. This cassette consists of several layers of high-quality recycled paper with a gap for extra holding capacity. Due to the unique structure and the various degrees of fineness, this filter is suitable both as a main filter and as a pre-filter.

PC Pack MC + HC

06.6PCP21505015 CI-PC-Pack MC+HC 500 x 500 x 150 mm

- › Filter medium: Mega Capacity + High Capacity
- › Initial pressure drop: 3.7 – 23,6 Pa
- › Final pressure drop: 500 – 600 Pa
- › Holding capacity: up to 22 kg per m²
- › Efficiency: 85% – 99%

Advantages: Perfect balance between high holding capacity and high efficiency

PC Pack MC + MC

06.6PCP22505015 CI-PC-Pack MC+MC 500 x 500 x 150 mm

- › Filter medium: Mega Capacity + Mega Capacity
- › Initial pressure drop: 3.7 – 23.6 Pa
- › Final pressure drop: 500 – 600 Pa
- › Holding capacity: up to 22 kg per m²
- › Efficiency: 85% – 99%

Advantages: High holding capacity!

PC Pack MC + LD

06.6PCP23505015 CI-PC-Pack MC+LD 500 x 500 x 150 mm

- › Filter medium: Mega Capacity + Large Diamond
- › Initial pressure drop: 3.7 – 23.6 Pa
- › Final pressure drop: 500 – 600 Pa
- › Holding capacity: up to 22 kg per m²
- › Efficiency: 85% – 99%

Advantages: High efficiency guaranteed!

**Increases
the lifespan of
every filter**



**Extremely
high holding
capacity!**

PC Pack 10-10

06.6PCP20505020V2 CI-PC-Pleat MC-SD 486 x 486 x 200 mm

- › Filter medium: Columbus
- › Initial pressure drop: 3.7 – 23.6 Pa
- › Final pressure drop: 500 – 600 Pa
- › Holding capacity: up to 22 kg per m²
- › Efficiency: 85% – 99%

Advantages: Extremely high holding capacity!

PC Pleat

PC Pleat is a box filter manufactured with the successful Columbus Industries filter medium. This filter medium consists of several layers of high-quality recycled paper. Due to the unique V-shape and the perfect composition of various degrees of fineness, this filter has the right balance between efficiency, lifespan and costs. An optimal air management is guaranteed during the lifespan of the filter.



PC Pleat MC

06.6PCP22505030 CI PC-Pleat MegaCap 486 x 486 x 285 mm
06.6PCP22505050 CI PC-Pleat MegaCap 486 x 486 x 485 mm

- Filter medium: Mega Capacity
- Initial pressure drop: 10 Pa
- Final pressure drop: 1000 Pa
- Holding capacity: up to 36 kg per PC Pleat
- Efficiency: 70% – 90%

Advantages: Extremely high holding capacity!

PC Pleat HC

06.6PCP11505030 CI PC-Pleat HighCap 486 x 486 x 285 mm
06.6PCP11505050 CI PC-Pleat HighCap 486 x 486 x 485 mm

- Filter medium: High Capacity
- Initial pressure drop: 17 Pa
- Final pressure drop: 1000 Pa
- Holding capacity: up to 36 kg per PC Pleat
- Efficiency: >98%

Advantages: Very high holding capacity in combination with high efficiency!

Most used PC Pleat for the paint booth

PC Pleat HC Supra HE

06.6PCP1150503N2 CI PC-Pleat Supra HE 486 x 486 x 285 mm
06.6PCP1150505N2 CI PC-Pleat Supra HE 486 x 486 x 485 mm

- Filter medium: High Capacity Supra HE
- Initial pressure drop: 25 Pa
- Final pressure drop: 1000 Pa
- Holding capacity: up to 36 kg per PC Pleat
- Efficiency: 98,9% – 99,9%

Advantages: Extremely high efficiency!

Best performance when using Clear Coat

PC Pleat HC Supra II

06.6PCP1150503N1 CI PC-Pleat Supra II 486 x 486 x 285 mm
06.6PCP1150505N1 CI PC-Pleat HC ESII 486 x 486 x 485 mm

- Filter medium: High Capacity Supra II
- Initial pressure drop: 19 Pa
- Final pressure drop: 1000 Pa
- Holding capacity: up to 36 kg per PC Pleat
- Efficiency: 98.9% – 99.9%

Advantages: Perfect balance between high holding capacity and very high efficiency

PC Pleat HC R35

06.6PCP1150503N3 CI PC Pleat HC R35 486 x 486 x 285 mm
06.6PCP1150505N3 CI PC Pleat HC R35 486 x 486 x 485 mm

- Filter medium: High Capacity R35
- Initial pressure drop: 25 Pa
- Final pressure drop: 1000 Pa
- Holding capacity: up to 36 kg per PC Pleat
- Efficiency: 98.9% – 99.9%

Advantages: Extremely high efficiency!

PC Pocket

PC Pocket is a synthetic after-filter manufactured with the Columbus Industries Supraloft® filter medium. This filter medium is constructed progressively. This implies that the filter consists of several layers of high-quality polyester with an optional impregnated final layer. The structure and properties of this medium ensure that an extremely high efficiency can be achieved with these after-filters.



PC Pocket Green

06.6PCP91505036 CI PC Pocket Green 495 x 495 x 360 mm

- Filter medium: Supraloft® SL-100PSG
- Start pressure drop: 15.2 Pa
- Final pressure drop: 175 Pa
- Holding capacity: up to 6 kg per m²
- Efficiency: 99.13%

Advantages: High efficiency!

With the PC pockets guaranteed no bypass

PC Pocket Orange

06.6PCP92505036 CI PC Pocket Orange 495 x 495 x 360 mm

- Filter medium: Supraloft SL-1000NT
- Initial pressure drop 8.7 Pa
- Final pressure drop: 350 Pa
- Holding capacity: up to 6 kg per m²
- Efficiency: 99.4%

Advantages: Extremely high efficiency!

With impregnated layer for extra efficiency