



FNEW GENERATION 3D FILTERS

FOR SPRAYING IN INDUSTRIAL ENVIRONMENTS

collection and CAPTATION

YIELD PRODUCTIVITY ENERGY + + -

AN EYE ON

*"In addition to our 25 years of experience in the business, it is our expertise and development of the*

THE FUTURE

*processes that set us apart from our competitors",*

declares Stéphane Cardo, CEO of IFT.

"Our in-depth understanding of all the overspray collection processes and techniques allows us to adapt to all the requirements and specifics of each industry. We are therefore able to assist in drawing up specifications and develop filtration solutions that insure the right balance between ergonomics and affordability. We not only do we protect the operators working in the booths, we also protect the Environment by insuring high filtration efficiency".

#### SUSTAINABLE SOLUTIONS ARE OUR PRIORITY

"IFT's goal is to use sustainable and affordable solutions to provide the most effective and thorough capture of oversprays and other fine particles such as varnishes, lacquers, paints, powders, etc. Our PC CUBES range comes with built-in risk prevention, waste reduction and energy savings." "

#### LES PRE-FILTRES

#### Les filtres autonomes

#### Les combinaisons optimisées

essential pre-filter

PAINT COLLECTOR

PACK CUBE

- > **Modular construction, maximum collection**
- > **Guaranteed low pressure drop in use**
- > **Composition: Cardboard and multiple layers of fire-proofed, pierced and slit and expanded kraft paper**

04

PC PACK

CUBE The

ons :

PC PACK CUBE (front and back)



PC PACK CUBE 150

**486 X 486 X 150 mm**

PROPERTIES **Dimensi**

Volume flow rate :

**3 600 m<sup>3</sup>/m<sup>2</sup>/h**

Weight when new : 0,8 kg  
Saturated weight : up to 20 kg

Initial pressure drop : 26 Pa

Maximum pressure drop : 500 Pa - 600 Pa

Holding capacity : Up to 80 kg/m<sup>2</sup>

Efficiency : 70% - 90%

Applications : All sectors of activity.  
Paints, lacquers, powders, UV, coatings

Advantages : COLUMBUS INDUSTRIES high technology. Low pressure drop over service life. 30 % energy savings.

INDUSTRIAL FILTRATION TECHNOLOGIES // THE PRE-FILTERS



#### 1<sup>ST</sup> FILTRATION LEVEL SATURATION

QUANTITY OF PAINT SPRAYED: 12.5 kg/h

COMPARISON BETWEEN PC PACK AND CONVENTIONAL FILTER

EXTRA HOURS OF PRODUCTION (CUMULATIVE) GAINED BY

COMBINING PC PACK + EUROSUPRA HC2M

7 14 21 28 35 42 49 56 63 70 77 84

Number of shifts (1 shift = 8 hours of production) <sup>1 2 3 4 5</sup>

Years

PC PACK

CONVENTIONAL FILTER Filter replacement Legend Filter saturation

05

## THE PC PACK CUBE IN DETAIL

Mega capacity (14 layers)

Large (1 layer)

06

# PC PLEAT

# CUBE An

optimized

pre-filter PAINT

> Very long service life

> Low pressure drop over service life

COLLECTOR PLEAT

> Composition : Cardboard and multiple

CUBE

layers of fire-proofed, pierced and slit and expanded kraft paper

PC PLEAT CUBE (front and back)

PC PLEAT CUBE 500 **486 X 486 X 485**

PC PLEAT CUBE 300

**486 X 486 X 285 mm**

mm



PROPERTIES **Dimensions :**

Volume flow rate :	4 500 m3/m2/h	4 800 m3/m2/h
Weight when new :	1,2 kg	1,8 kg
Saturated weight :	up to 20 kg up to 20 kg	
Initial pressure drop :	12 Pa	10 Pa
Maximum pressure drop :	800 Pa - 1 000 Pa	800 Pa - 1 000 Pa
Holding capacity :	Up to 80 kg/m2 Up to 80 kg/m2	
Efficiency :	70 % - 90 %	70 % - 90 %
Applications :	coatings All sectors of activity.	
Paints, lacquers, powders, UV,		

**Advantages :** COLUMBUS INDUSTRIES high technology. Low pressure drop over service life. 30 % energy savings.

PC PLEAT CUBE (front and back)



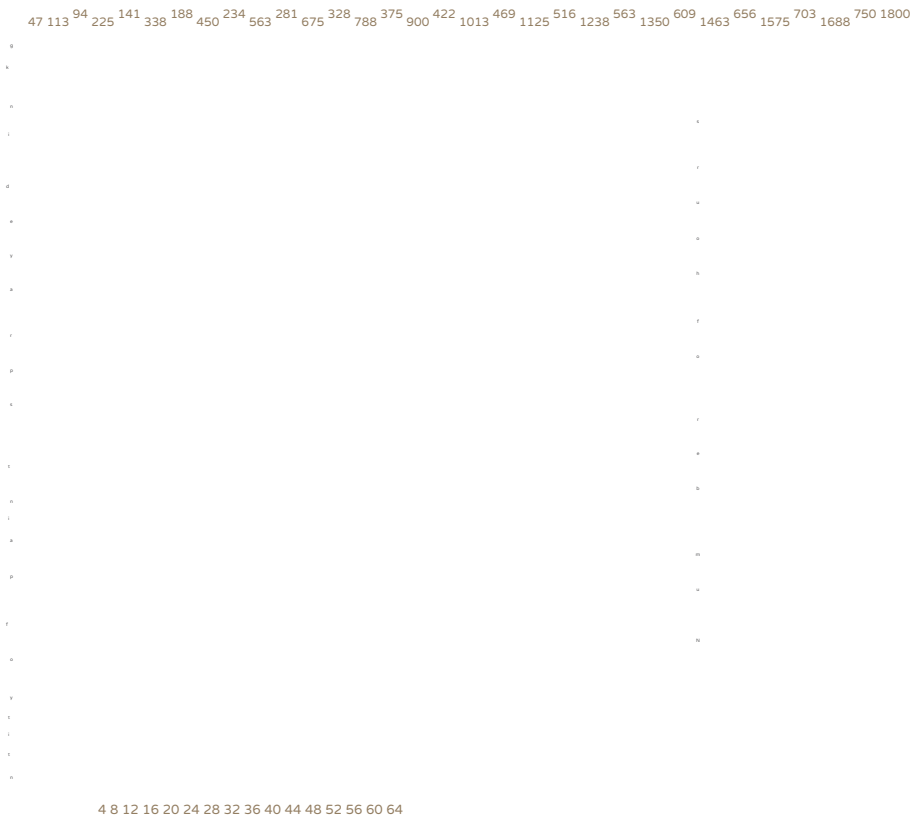
**1<sup>ST</sup> FILTRATION LEVEL SATURATION**

QUANTITY OF PAINT SPRAYED: 2.8 kg/h

COMBINING PC PLEAT + EUROSUPRA HC2M

COMPARISON BETWEEN PC PLEAT AND CONVENTIONAL FILTER

**EXTRA HOURS OF PRODUCTION (CUMULATIVE) GAINED BY**



Number of shifts (1 shift = 8 hours of production) 1 2 3 4 5

Years



Mega capacity (4 layers)

THE PC PLEAT CUBE IN DETAIL 07

High capacity (1 layer) Large (1

layer)

# PC PLEAT HR

Optimum filtration capacity

high efficiency PAINT COLLECTOR CUBE

> **High Holding capacity and very fine**

**filtration thanks to its structure, providing**

**unparalleled service life**

> **Guaranteed low pressure drop in use**

> **Composition: Cardboard and multiple**

**layers of fire-proofed, pierced and slit and**

**expanded kraft paper**

PC PLEAT HR (front and back) PC PLEAT



HR 300

<b>Dimensions :</b>	<b>486 X 486 X 285 mm 486 X 486 X 485 mm</b>	
<b>Volume flow rate :</b>	<b>4 500 m3/m2/h</b>	<b>4 800 m3/m2/h</b>
<b>Weight when new :</b>	<b>1,2 kg</b>	<b>1,8 kg</b>
<b>Saturated weight :</b>	<b>up to 20 kg up to 20 kg</b>	
<b>Initial pressure drop :</b>	<b>14,9 Pa</b>	<b>13 Pa</b>
<b>Maximum pressure drop :</b>	<b>800 Pa - 1 000 Pa</b>	<b>800 Pa - 1 000 Pa</b>
<b>Holding capacity :</b>	<b>Up to 80 kg/m2 Up to 80 kg/m2</b>	
<b>Efficiency :</b>	<b>80 % - 95 %</b>	<b>80 % - 95 %</b>
<b>Applications :</b>	<b>coatings All sectors of activity.</b>	
<b>Paints, lacquers, powders, UV,</b>		
<b>Advantages :</b>	<b>pressure drop over service life. 30 % energy savings.</b>	
<b>COLUMBUS INDUSTRIES high technology. Low</b>		

PC PLEAT CUBE (front and back)



**1<sup>ST</sup> FILTRATION LEVEL SATURATION**  
**1<sup>ST</sup> FILTRATION LEVEL SATURATION**

QUANTITY OF PAINT SPRAYED: 2.5 kg/h

QUANTITY OF PAINT SPRAYED: 2.5 kg/h

COMPARISON BETWEEN PC PLEAT HR AND CONVENTIONAL FILTER

COMPARISON BETWEEN PC PLEAT HR AND CONVENTIONAL FILTER

**EXTRA HOURS OF PRODUCTION (CUMULATIVE)**

**EXTRA HOURS OF PRODUCTION (CUMULATIVE)** GAINED BY COMBINING PC

PLEAT HR + EUROSUPRA HC2M

GAINED BY COMBINING PC PLEAT HR + EUROSUPRA HC2M

41 113 81 225 122 338 163 450 203 563 244 675 284 788 325 900 366 1013 406 1125 447 1238 488 1350 528 1463 569 1575 609 1688 650 1800

IN DETAIL

Small (2 layers)

09

High capacity (3 layers)

Large (2 layers)

## PC PLEAT HF

A complete standalone filter PAINT

COLLECTOR CUBE High-level

filtration

**> This filter has been designed to collect**

**the finest particles without impairing**

**service life**

**> Guaranteed low pressure drop in use**

**> Composition: Cardboard and multiple**

**layers of fire-proofed, pierced and slit and**

**expanded kraft paper - Polyester and/or**

**recycled fibres** <sup>10</sup>

PROPERTIES

HF 300

<b>Dimensions :</b>	<b>486 X 486 X 285 mm 486 X 486 X 485 mm</b>	
<b>Volume flow rate :</b>	<b>4 500 m3/m2/h</b>	<b>4 800 m3/m2/h</b>
<b>Weight when new :</b>	<b>1,2 kg</b>	<b>1,8 kg</b>
<b>Saturated weight :</b>	<b>up to 20 kg</b>	<b>up to 20 kg</b>
<b>Initial pressure drop :</b>	<b>19,9 Pa</b>	<b>18 Pa</b>
<b>Maximum pressure drop :</b>	<b>800 Pa - 1 000 Pa</b>	<b>800 Pa - 1 000 Pa</b>
<b>Holding capacity :</b>	<b>Up to 80 kg/m2 Up to 80 kg/m2</b>	
<b>Efficiency :</b>	<b>90 % - 99 %</b>	<b>90 % - 99 %</b>
<b>Applications :</b>	<b>coatings All sectors of activity.</b>	
<b>Paints, lacquers, powders, UV,</b>		
<b>Advantages :</b>	<b>pressure drop over service life. 30 % energy savings.</b>	
<b>COLUMBUS INDUSTRIES high technology. Low</b>		

PC PLEAT CUBE (front and back)



**1<sup>ST</sup> FILTRATION LEVEL SATURATION**

**1<sup>ST</sup> FILTRATION LEVEL SATURATION**

QUANTITY OF PAINT SPRAYED: 8-9 kg/h

QUANTITY OF PAINT SPRAYED: 8-9 kg/h

COMPARISON BETWEEN PC PLEAT HF AND CONVENTIONAL FILTER

300

COMPARISON BETWEEN PC PLEAT HF AND CONVENTIONAL FILTER

1688

281

**EXTRA HOURS OF PRODUCTION (CUMULATIVE)**

**EXTRA HOURS OF PRODUCTION (CUMULATIVE) GAINED BY COMBINING PC**

PLEAT HF + EUROSUPRA HC2M

GAINED BY COMBINING PC PLEAT HF + EUROSUPRA HC2M

1800

1463	
244	
1350	
225	788
	131
1238	
206	
	675
1125	113
188	
1013	563
169	94
1575	900
263	
	450

CONVENTIONAL FILTER Filter replacement Legend THE PC PLEAT

338  
56

### HF IN DETAIL

High capacity (3 layers) Large (2 layers)

225  
38  
19

Small (2 layers)

113

2 4 6 8 10 12 14 16 18 20 Number of shifts (1 shift = 8 hours of production)

Supra synthetic (1 layer)

PC PLEAT HF

# COMBINATION A

IDEAL FOR HEAVY AND WET OVERSPRAY

*Spray painting over 10 kg/hour*

1st Niveau 2nd Niveau 3rd Niveau

Pre-filtrATION FILTRATION THIN FILTRATION



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PC PLEAT HR 300  
PC PACK CUBE 150

BAG R-35



mm - Recycled

Saturated weight Until 20 kg

Saturated weight Until 20 kg

Composition

polyester fibres (color: green)

Initial pressure drop 26 Pa	Volume flow rate 3 600 m <sup>3</sup> /m <sup>2</sup> /h	Initial pressure drop 14,9 Pa	Holding capacity Until 80 kg/m <sup>2</sup>	Weight when new 0,8 kg	capacity 6 kg/m <sup>2</sup>
Maximum pressure drop 500 Pa - 600 Pa	Efficiency 70 % - 90 %	Maximum pressure drop 800 Pa - 1 000 Pa	Efficiency 80 % - 95 %	Initial pressure drop 15,2 Pa	Efficiency 99,13 %
		Volume flow rate 4 500 m <sup>3</sup> /m <sup>2</sup> /h		Maximum pressure drop 175 Pa	Holding
		high technology.			8 (G4 - M5)
Applications Paints, lacquers, powders, UV, coatings All sectors of activity.		Applications Paints, lacquers, powders, UV, coatings All sectors of activity.		COLUMBUS INDUSTRIES high technology. MERV (U.S. Standard) Advantages	Exclusive technology : SMART EFFECIENCY™ by COLUMBUS INDUSTRIE®
COLUMBUS INDUSTRIES					
Advantages	Low pressure drop over service life.	Advantages	Low pressure drop over service life.	High efficiency/Long service life	

IN SECTION

3D view

IN SECTION

flat view

***Custom captation for your  
spray painting.***

IDEAL FOR HEAVY AND WET

OVERSPRAY

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COMPACT

3D view

flat view 13

**The optimized  
combination by IFT**

COMPACT

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S

Filters

# COMBINATION B

IDEAL FOR light and dry overspray

*Spray painting over 10 kg/hour*

1st Niveau 2nd Niveau 3rd Niveau

PrE-filtrATION FILTRATION THIN FILTRATION



P  
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T  
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3  
7

PC PLEAT HR 200

Dimensions 486 x 486 x 205 mm

Weight when new 0,9 kg

PC PLEAT HF 300

Dimensions 486 x 486 x 285 mm

Weight when new 1,2 kg

BAG R-37

Dimensions 490 x 490 x 350 mm 25

mm - Recycled

Saturated weight Until 20 kg

Saturated weight Until 20 kg

Composition  
impregnated polyester fibres (color:  
orange)

Initial pressure  
drop 20,1 Pa

Maximum  
pressure drop 800 Pa - 1 000 Pa

Volume flow rate 4 150 m<sup>3</sup>/m<sup>2</sup>/h

Holding capacity  
Until 80 kg/m<sup>2</sup>

Efficiency 80 % - 95 %

Initial pressure  
drop 19,9 Pa

Maximum  
pressure drop 800 Pa - 1 000 Pa

Volume flow rate 4 500 m<sup>3</sup>/m<sup>2</sup>/h

Holding capacity  
Until 80 kg/m<sup>2</sup>

Efficiency 90 % - 99 %

Weight when new 0,8 kg

Initial pressure  
drop 8,7 Pa

Maximum  
pressure drop 350 Pa Holding

capacity  
6 kg/m<sup>2</sup>

Efficiency 99,4 %

Applications Paints, lacquers, powders,  
UV, coatings All sectors of  
activity.

COLUMBUS INDUSTRIES  
high technology.

Applications Paints, lacquers, powders, UV, coatings All  
sectors of  
activity.

COLUMBUS INDUSTRIES  
high technology.  
MERV  
(U.S. Standard) Advantages

10 (M5-M6)

Exclusive technology : SMART EFFECIENCY™ by  
COLUMBUS INDUSTRIE®

Advantages

Low pressure drop over service life.

Advantages

Low pressure drop over service life.

High efficiency/Long service life

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**IN SECTION**

**IN SECTION**

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3D view

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flat view

**COMPACT**

**The optimized  
combination by IFT**

**Filters**

***Custom captation for your  
spray painting.***

IDEAL FOR HEAVY AND WET

OVERSPRAY

flat view

# COMBINATION C

IDEAL FOR LIGHT AND WET OVERSPRAY

*Spray painting over 10 kg/hour*

1st Niveau 2nd Niveau 3rd Niveau

Pré-filtrATION FILTRATION THIN FILTRATION



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Dimensions 486 x 486 x 150 mm

PC

Weight when new 0,8 kg

1  
2

Dimensions 486 x 486 x 285 mm

POCHES R-35

Weight when new 1,2 kg

Dimensions 490 x 490 x 350 mm 25

mm - Recycled

1  
2

PC PACK CUBE

T

PC PLEAT CUBE

300

T  
PC



Saturated weight Until 20 kg

Saturated weight Until 20 kg

Composition  
polyester fibres (color: green)

Volume flow rate 3 600 m<sup>3</sup>/m<sup>2</sup>/h

Initial pressure drop 12 Pa

Holding capacity Until 80 kg/m<sup>2</sup>

Maximum pressure drop 800 Pa - 1 000 Pa

Efficiency 70 % - 90 %

Volume flow rate 4 500 m<sup>3</sup>/m<sup>2</sup>/h

Weight when new 0,8 kg

Holding capacity Until 80 kg/m<sup>2</sup>

Initial pressure drop 15,2 Pa

Efficiency 70 % - 90 %

Maximum pressure drop 175 Pa

capacity 6 kg/m<sup>2</sup>

Efficiency 99,13 %

8 (G4 - M5)

**Applications** Paints, lacquers, powders, UV, coatings All sectors of activity.

**Applications** Paints, lacquers, powders, UV, coatings All sectors of activity.

COLUMBUS INDUSTRIES  
high technology.  
MERV (U.S. Standard) Advantages

Exclusive technology : SMART EFFECIENCY™ by COLUMBUS INDUSTRIE®

COLUMBUS INDUSTRIES

**Advantages**  
Low pressure drop over service life.

**Advantages**

Low pressure drop over service life.

High efficiency/Long service life

IN SECTION

3D view

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flat view

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IN SECTION

*Custom captation for your  
spray painting.*

IDEAL FOR HEAVY AND WET

OVERSPRAY

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COMPACT

3D view

flat view 17

The optimized  
combination by IFT

Filters

COMPACT

A  
O  
A  
-  
A  
E



# HANDLING

## LA MANUTENTION

### CONTEXTE D'UN MUR FILTRANT VERTICAL

#### IN A VERTICAL FILTRATION WALL

*New generation of intelligent, high-performance filters.*

*Nouvelle génération de filtres intelligents, performants.*

*Suitable for all types of booth, easy to store.*

*Adaptés à toute configuration de cabines, faciles à stocker.*

*Easy to handle, no lifting equipment or special installations required. Faciles à manipuler, sans*

*nécessité d'équipements ou d'installations spécifiques.*

**1**

**2**

Use a box cutter to cut the kraft paper Couper de désolidariser les cubes.

au cutter les joints en kraft afin seals and free up

the cubes.

Remove the kraft tape from the units to be changed.

**3**

**4**

Remove the cubes that are saturated with paint and need replacing.

#### EASY INSTALLATION

Replace the spent cubes with new ones in the requisite areas.

operation quickly and selectively.

The loaded cubes can thus be replaced one-at-a-time when required to cater for those areas with the highest paint loads, and without any risk of exposure to the waste contained within the cube.

ACHIEVE 30%  
ENERGY SAVINGS **with the New**  
**Generation**  
**FILTRATION CUBES**

MAKE  
MAINTENANCE EASIER **with quick and**  
**easy**  
**user servicing**  
PROTECT  
THE ENVIRONMENT **(in compliance with**  
**ISO 14001 and EU Standards)**

+

+

ENSURE QUALITY OF PRODUCTION  
**by maintaining**  
**constant efficiency**  
GUARANTEE THE SAFETY  
OF OPERATIVES  
**(CARSAT H&S requirements)**

REDUCE COSTS OF

PRODUCTION

**by reducing your  
maintenance times**

See our complete range

on our website at:

[www.ift-filters.com](http://www.ift-filters.com)

[www.ift-filters.com](http://www.ift-filters.com)

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