CEAN

filtration devices

SYBAG®

PLEATED FILTER BAGS

in polyester, polypropylene, meta-aramid and PPS



Product range catalogue

Long service life and effective cleaning

A larger filtration area enables up to 50% greater operating capacity and improves extraction performance: increased suction, lower pressure drop and reduced emissions.



FILTER BAG SUPPORT CAGE

Compatible with standard filter bag support cages

SYBAG FLANGE

Elastomer flange with patented Snap Ring system. Also available in fabric with a snap ring or other attachment systems.

FILTER FABRIC WITH OVER 50% MORE SURFACE AREA

NO EXTERNAL BANDS (patented), for better cleaning and dust release



CLEANING & COMPATIBILITY

SYBAG bags are cleaned using the same settings and methods as conventional round filter bags.

SYBAG is 100% compatible with your plant: no changes to the filtration system are required.

The same needlefelts as conventional filter bags. Service life and performance depend on the operating conditions.

End caps and flanges incorporate elastomer parts rated up to 90 °C. For high-temperature applications, please provide the operating conditions.

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CEAN filtration devices

Filter media and applications

Air permeability in L/(m²·s), by nominal fabric weight

Material and application	350 g/m²	450 g/m²	550 g/m²	Properties
Water-repellent polyester **135 °C** Dry dust: cement, minerals and general industrial applications.	250 - 350	180 - 250	130 - 180	Economical, general-purpose medium. Water-repellent treatment.
Antistatic, water-repellent polyester **135 °C** Handling, mixing and dosing with electrostatic charges; traces of moisture.	220 - 320	160 - 230	110 - 160	Conductive grid for static charges. Water-repellent treatment.
Polyester + PTFE membrane **150 °C** Fine dust: food, pharmaceutical, mixing and silo venting.	60 - 100	40 - 80	30 - 60	Very high-efficiency surface filtration.
Polypropylene **max 80 °C** Low-temperature processes. Good chemical and solvent compatibility.	220 - 300	150 - 220	100 - 150	Maximum chemical resistance at low temperatures.
Meta-aramid **195 °C** Hot, dry dust collection; abrasive dust.	200 - 300	150 - 200	100 - 160	High industrial temperatures.
PPS **185 °C** Hot, humid gases where chemical resistance is required.	220 - 300	160 - 240	110 - 180	High-temperature acidic fumes.

Indicative applications. Available fabric weights: 350, 450 and 550 g/m². Check process chemistry, humidity and complete filter limits. Antistatic media require assessment of the entire system.

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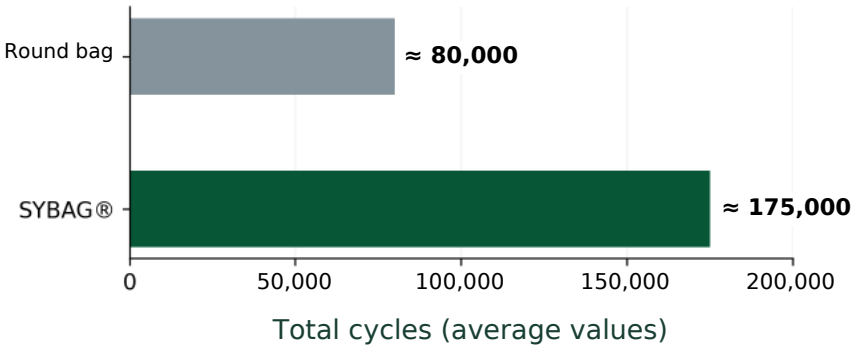
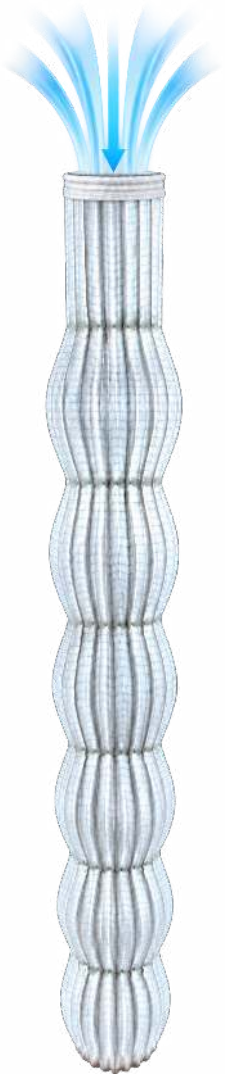
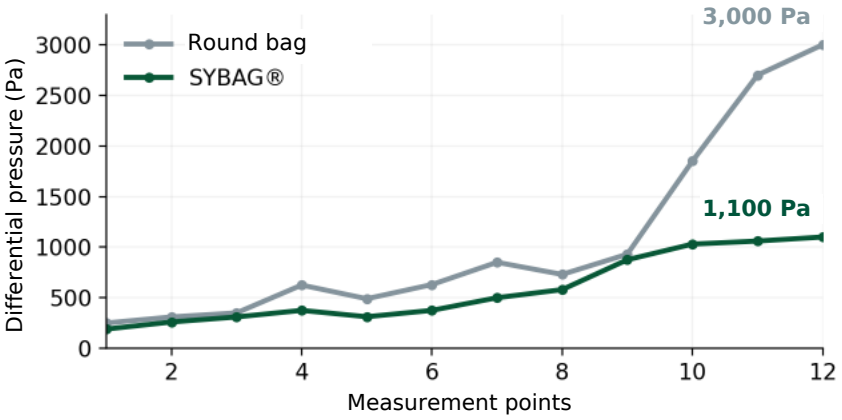
PERFORMANCE COMPARISON

More operating cycles





Differential pressure



Test duration and conditions in accordance with ISO 11057:2011.

The image illustrates effective pulse-jet cleaning. The pleated geometry allows greater expansion and improved dust release. Videos are available at www.ceanfiltri.it/sybag

SYBAG®

CEAN filtration devices

WHY CHOOSE SYBAG®

NEW INSTALLATIONS

A larger filtration area allows more compact systems or shorter bags than the round version, subject to correct sizing.

RETROFITTING

Replace conventional bags to optimise existing systems. Check attachments, support cages and the cleaning system.

UP TO 40% FEWER BAG REPLACEMENTS

Longer service life can reduce maintenance over time under the same operating conditions.

LOWER COSTS, GREATER UPTIME

- ✓ Lower replacement and installation costs
- ✓ Lower energy costs thanks to a lower pressure drop
- ✓ Fewer used bags to dispose of
- ✓ Less production downtime
- ✓ High, consistent performance over time



Potential benefits must be verified on the plant. System size and bag length depend on airflow, dust, upward gas velocity and the cleaning system.

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MODEL
SY1

Filter bag with patented flange and custom support cage

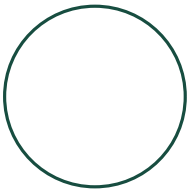


SY1



Cage for model SY1

ROUND BAG



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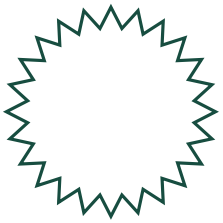
SYBAG



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AVAILABLE FILTER MEDIA

Filter medium	g/m²	T max °C
Water-repellent polyester	350 - 450 - 550	135
Antistatic, water-repellent polyester	350 - 450 - 550	135
Polyester + PTFE membrane	350 - 450 - 550	150
Polypropylene	350 - 450 - 550	80

50% more filtration area than the equivalent round filter bag

SYBAG uses the same needlefelts as conventional filter bags.

Top fixing for tube sheet holes from 100 to 220 mm. The cage is reusable.

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MODEL
SY2

Elastomer flange · patented Snap Ring

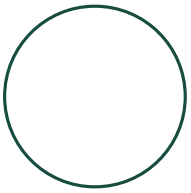


SY2



With standard cage

ROUND BAG



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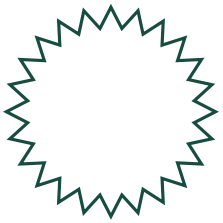

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SYBAG uses the same needlefelts as conventional filter bags.

Compatible with round bag cages, subject to attachment type and dimensions.

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MODEL
SY3

Fabric Snap Ring attachment

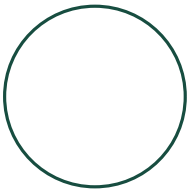


SY3



With standard cage

ROUND BAG



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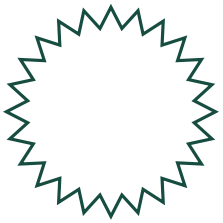

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Compatible with round bag cages, subject to attachment type and dimensions.

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MODEL
SY5

Double flange - flange gasket

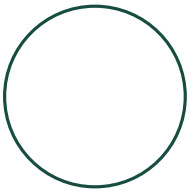


SY5



With standard cage

ROUND BAG



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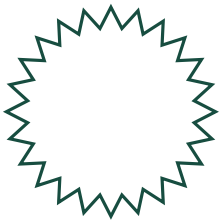

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50% more filtration area than the equivalent round filter bag

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Compatible with round bag cages, subject to attachment type and dimensions.

SYBAG®

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MODEL
SY6

Felt-edged flange

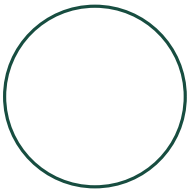


SY6



With standard cage

ROUND BAG



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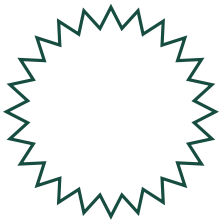
SYBAG



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Compatible with round bag cages, subject to attachment type and dimensions.

SYBAG®

CEAN filtration devices

MODEL
SY7

Cuff for bayonet cages or below-tube-sheet fixing



SY7

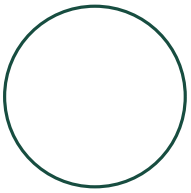


Bayonet



Below-tube-sheet fixing

ROUND BAG



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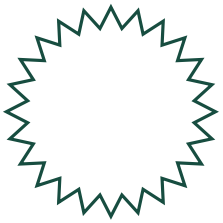
SYBAG



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Compatible with round bag cages, subject to attachment type and dimensions.

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MODEL
SY8

Flange with rubber gasket

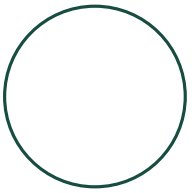


SY8



With standard cage

ROUND BAG



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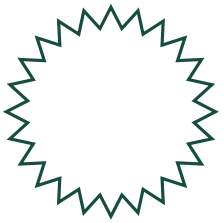

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50% more filtration area than the equivalent round filter bag

SYBAG uses the same needlefelts as conventional filter bags.

Compatible with round bag cages, subject to attachment type and dimensions.

HIGH TEMPERATURE

Meta-aramid and PPS





Available as SY3 with Snap Ring attachment and SY6 with a flange with an aramid or PPS felt edge.

Meta-aramid

Dry heat and abrasive dust.
Abrasion: excellent.
Alkalis: good; acids: limited.

PPS

Hot, humid gases where chemical resistance is required.
Acids, alkalis and abrasion: very good.

FILTER MEDIA PROPERTIES

Filter medium	g/m²	T max °C
Meta-aramid	350 - 450 - 550	195
PPS	350 - 450 - 550	185

Available fabric weights: 350, 450 and 550 g/m².

SYBAG uses the same needlefelts as conventional filter bags.
Compatible with round bag cages. Check the temperature limits of the complete filter, humidity and process chemistry.

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FILTER BAG SIZING

Information required to select and check the SYBAG filter bag

1. MOUNTING AND DIMENSIONS

Mounting type ☐ Above tube sheet ☐ Below tube sheet

Required cage / attachment type

Tube sheet hole diameter D [cm]

Required length L [cm]

2. FILTER MEDIUM

☐ Polyester ☐ Polypropylene ☐ Meta-aramid ☐ PPS

Fabric weight [g/m²] ☐ 350 ☐ 450 ☐ 550

Required treatments

☐ Water-repellent ☐ Antistatic ☐ PTFE membrane

3. AVERAGE FILTRATION AREA CALCULATION

S avg [m²] = D [cm] × L [cm] × 0.00052

D = tube sheet hole diameter (pleated bag outside diameter), in cm.
L = filter bag length, in cm. Resulting average surface area in m².

4. FILTRATION VELOCITY CHECK

Airflow Q [m³/h]: _____

Number of bags N: _____

Total area S tot [m²]: _____

S tot = N × S avg

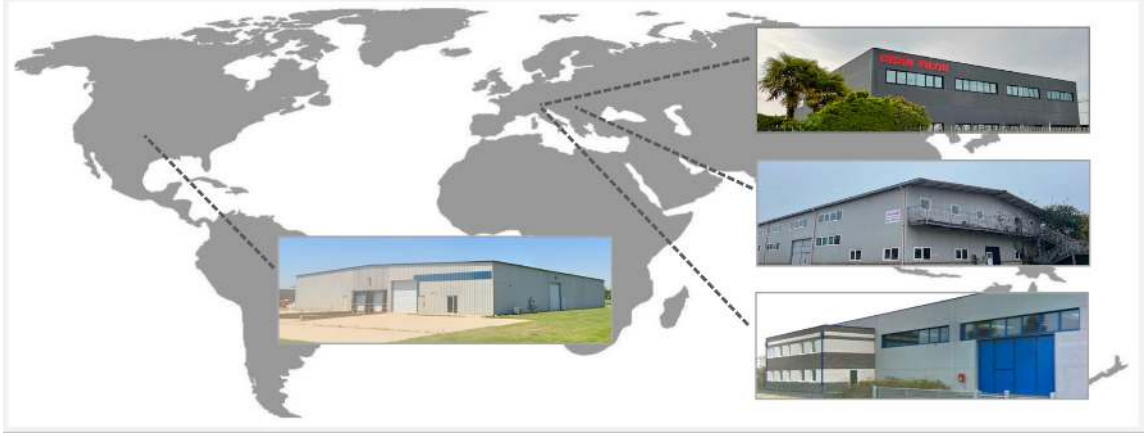
v [m/min] = Q / (60 × S tot)

v = _____ m/min

CEAN FILTRI · sales@ceanfiltri.it

Shared expertise.
A world of filtration.

CEAN designs and manufactures filter elements to protect people’s health, processes and equipment. From dust collection and air treatment to liquid and gas filtration, we develop solutions for different needs with one approach: selecting the right filter for the application.



Italy · Romania · United States of America

Over 45
years in business

Over 3,000
products manufactured

3
companies worldwide

Investment in production, flexible manufacturing and testing in our in-house laboratory enable us to help equipment manufacturers and users select materials, geometries and attachment systems.

Filter cartridges, bags and panels

A range for collecting dust and fumes in industrial processes. Cylindrical and custom-made cartridges, panels and bags suit a variety of configurations, from new installations to replacement of existing filter elements.





Materials and designs for every application

Synthetic media, nanofibres and membranes, with specific treatments where required by the process. Flanges, end caps, meshes and gaskets are selected to suit the mounting method and operating conditions.

The range also includes high-temperature versions and custom solutions for major industrial dust collection systems.

Clean air.
Process protection.

From commercial and industrial ventilation to environments requiring high air purity.





Prefiltration and high efficiency

Panels, compact elements and HEPA filters form a product family for air treatment and process protection. Selection takes into account the required efficiency, airflow and available space.

Special applications

Solutions for the food and pharmaceutical industries, activated carbon molecular filtration and oil mist separation. Materials and configurations are specified according to the contaminants present.

Dedicated filtration. Continuous operation.

Gas turbines

Filter elements to protect turbine intake air. The range includes cartridges for compressed-air cleaning systems and compact static filters, with media selected to suit the environment and the required filtration level.



Cleaning machines

Cartridges and panels for vacuum cleaners and sweepers, for commercial and industrial use. Shapes, gaskets and attachments ensure a proper fit in the machine and reliable system sealing.



Fluid quality.
Equipment protection.

Filter elements and housings for technical and industrial applications and water treatment.





A complete family of solutions

Cartridges, filter bags and housings, including stainless steel versions, separate impurities from liquids and gases. Applications include chemical processes, solvent and dye filtration, cooling systems and heat exchanger protection.

Selection starts with the fluid, flow rate, material compatibility and the process filtration requirements.

A complete range.
A partner by your side.

From media selection to replacement filters, CEAN helps equipment manufacturers, distributors and users define the right filtration solution.

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Air filtration · Dust collection · Liquids and gases