



## Paintstar MB

Shelf/modular system  
with Paintblock filters

**HÖCKER<sup>®</sup>**  
**POLYTECHNIK**

*Always one idea ahead*

# Longer filter life with the PaintStar MB paint spray mist extraction system

**The filters for paint spray mist extraction must be able to “breathe” freely to ensure optimum surface quality. Regular filter changes are therefore an important task in any spray booth or spray wall. Every filter change costs money in consumables and downtime in the paint shop.**

There now is a new filter system on the market that significantly extends the filter life and so reduces downtime and promises consistently good spray mist extraction performance.

The PaintStar shelf system for Paintblock filter elements provides solutions for the most common applications:

- Installation options for spray booths
- Stand-alone spray booths
- Retrofit options for older spray walls

Each of these small easy-to-use, compact filter cubes contains a sophisticated primary and secondary filter. One Paintblock provides up to 10 m<sup>2</sup> filter area per 1 m<sup>2</sup> front face area of the filter wall. The elaborate design inside the cube is cleverly devised and increases the capacity to catch the paint spray by up to tenfold. The result is a powerful, low-maintenance and cost-effective filter system.



This allows the paint shop to focus more on delivering the perfect paint results. And when it does become necessary to replace the filter blocks, the Höcker PaintStar shelf system makes it child's play.

Höcker Polytechnik has designed an easy-to-install shelf system specifically for these filter elements. The PaintStar shelf system for filter cubes allow you to slide the filter cubes into the wall in newly installed paint walls and spray walls or to operate them as non-recessed against the wall. All these options facilitate the recommended replacement of the filter cube inside the spray wall. This allows the filter life to be fully exhausted.

Of particular interest is the PaintStar shelf system that breathes new life into outdated filter technology, such as spray walls with folding carton or filter mat systems. This allows even the high-maintenance and cost-intensive, water-sprinkled spray walls to be easily upgraded. Höcker's retrofit modernisation not only works with PaintStar spray walls but can also be installed in systems from other manufacturers. The filter shelf is simply installed in front of the existing spray wall and the user immediately benefits from all the advantages that the Paintblock principle brings with it.

In certain circumstances underfloor extraction units can also be converted to use the new filter cubes. Here again, less frequent, faster and more ergonomic filter changes are the positive result.

# The Paintblock principle

The Paintblock is primary and secondary filter solution rolled into one. The various multiple layers of non-combustible paper having different openings and so increasing degrees of separation bind up to 99.5% of the paint mist. The structure is of a progressive design and the medium itself serves as a paint accumulator. The formation of a filter cake on the top is effectively inhibited. The ratio of the effective filter surface area to the front face area may be up to 10:1.



The patent-pending structure as well as the spacers registered as utility model guarantees that the paint spray does pass through the Paintblock unfiltered. Depending on the application, the Paintblock can be equipped with different media. This makes the Paintblock versatile for use in many different applications. Special structures are also available without any loss of filter capacity or performance.

## Why Paintblock?

### Increase the filter capacity

Capacity up to 100 kg/m<sup>2</sup>

### Reduce energy costs

Only 8 Pa initial pressure loss

### For wet or dry coating

Paintblocks are always moisture resistant

### Uneven filter load

Simply replace individual sections

### Enhances the extraction performance

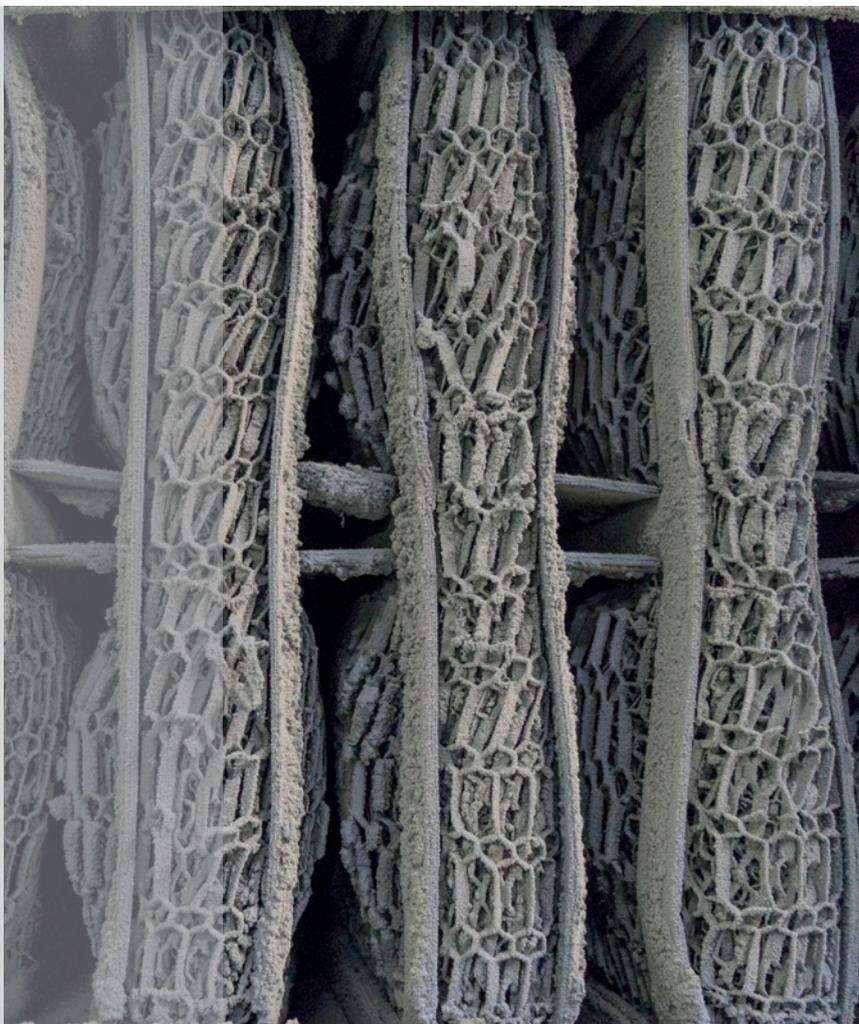
Up to 4,000 m<sup>3</sup>/h per m<sup>2</sup> possible

### Reduce the fire risk

Filter material B1

### Easy waste disposal

Sorted by type = waste incineration





## PIPGRAS spray booth system on a Paintblock basis

Regardless whether it is a small compact spray booth or extra-extra-large booth for bulky items, the paint spray mist must be gotten rid of!

The Höcker PIPGRAS spray booth system is also available with Paintblock filter elements – naturally.

The spray booth experts from Höcker Polytechnik will happily develop a specially tailored concept for your company that includes a whole bunch of smart energy-saving features.

Paint spray mist extraction in  
large component coating with  
Paintblock filter elements.



# Paintstar MB

## Spray wall meets Paintblock

The popular PaintStar spray walls are of course also available in a version with Paintblock filter elements.

And this is how easily it is done:

- Build spray wall
- Connect extraction system
- Slide in filter blocks
- Mask gaps
- Done!

PaintStar MB spray wall  
with 3D front structure (optional)



Practical example:  
PaintStar MB spray wall  
in a joinery shop



## More suction power for your “old” spray booth

Has your spray booth been in operation for many years and do you have enough space for painting and coating? Are you actually happy with your painting and coating technology? Is the only shortcoming the unsatisfactory extraction of the paint spray mist or the high cost of maintenance? A new, modern paint booth still does not pay off for you in the short term, though?

A Paintblock retrofitting will enable you to quickly and easily improve the performance of your system and permanently reduce operating costs. Please talk to us about it. We do an analysis of the actual status directly on site and design a customised future-proof solution for everyday use based on a Paintblock system – with low investment costs.



### Before the retrofit:

Two conventional spray walls (Fig. I.) with folding carton filters and downstream fleece filters. The suction power is very weak and frequent filter changes interrupt the paint shop activities.

### After the retrofit:

The old filter system was dismantled and the PaintStar shelf system (Fig. U.) for Paintblock filter elements was installed in just two hours. The existing extraction system is retained and is now working much more efficiently.



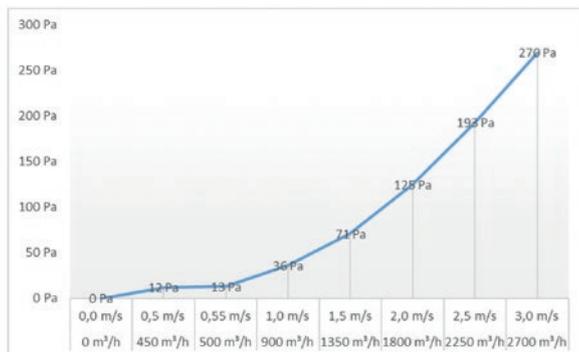
# Technical information



## Paintblock 300 Magenta

Installation depth:	300 mm
Dimensions (WxHxD):	490 x 490 x 300 mm
Nominal volume flow rate:	500 m <sup>3</sup> /h ~ 0,55 m/s
Initial pressure drop @ 500 m <sup>3</sup> /h:	13 Pa
Recommended final pressure drop:	500 Pa
Empty weight:	1720 g
Separation rate:	≤ 98 %
Ø Paint absorption capacity:	10 kg

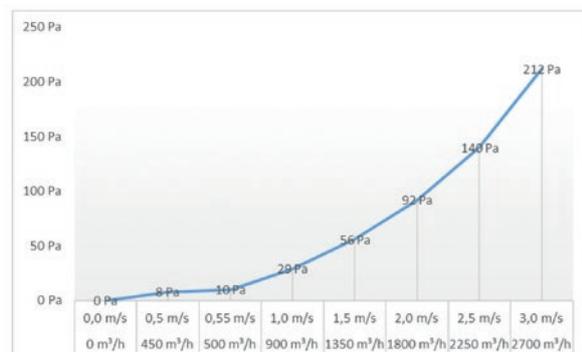
Pressure drop/airflow rate\*:



## Paintblock 500 Magenta

Installation depth:	500 mm
Dimensions (WxHxD):	490 x 490 x 500 mm
Nominal volume flow rate:	500 m <sup>3</sup> /h ~ 0,55 m/s
Initial pressure drop @ 500 m <sup>3</sup> /h:	10 Pa
Recommended final pressure drop:	500 Pa
Empty weight:	2640 g
Separation rate:	≤ 98 %
Ø Paint absorption capacity:	15 kg

Pressure drop/airflow rate\*:



## Paintgrid 4.0L

If large quantities of paint are generated on a regular basis, the Paintgrid "sacrificial filter" considerably extends the service life of the Paintblock filters. Two Paintgrid pre-filters are usually combined with one Paintblock 300 filter.

Dimensions (WxHxD):	490 x 490 x 100 mm
Nominal volume flow rate:	500 m <sup>3</sup> /h ~ 0,55 m/s
Initial pressure drop @ 500 m <sup>3</sup> /h:	7 Pa
Recommended final pressure drop:	500 Pa
Empty weight:	450 g
Separation rate:	≤ 70 %
Ø Paint absorption capacity:	5 kg

\* This information is regularly checked for completeness and correctness and can be changed at any time without prior notice.



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