



Clear Quality

Paint mist exhaust wall with wet separator
and PolyFloat water treatment system



HÖCKER®
POLYTECHNIK

Always one idea ahead



Optimizes finishes. Protects the environment.

Brilliant results. The finish quality of your work is your calling card. Paint mist exhaust systems help you to optimize finishes and protect your employees from harmful substances. The PWSL water-sprinkled paint mist exhaust system from Höcker Polytechnik guarantees a very high degree of separation (98%) even for large amounts of overspray.

Flexible solution. The high-performance ventilator of the PWSL series is integrated into the wall, explosion-proof, and is driven by fan belts. The air capacity can be adjusted to fit the ventilator performance curve and motor capacity. The compact structure makes it possible to plan standard spray walls even in structures with low ceilings.

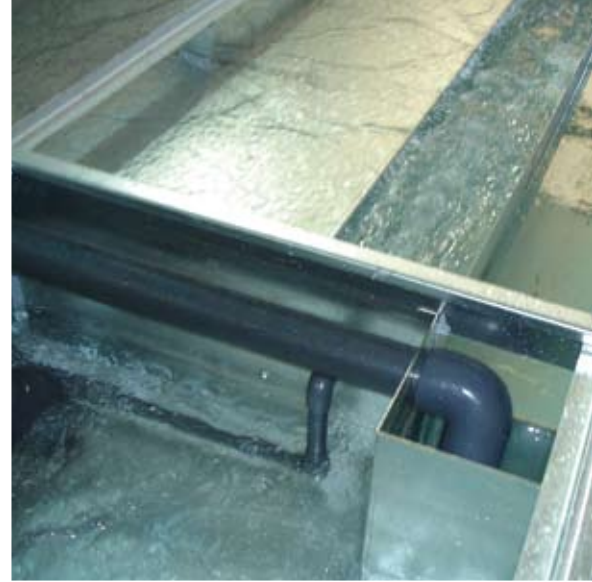
Water flow. A standard semi-automatic paint sludge remover is integrated into the galvanized water bath. The flocculated and detackified paint residue is treated with a coagulator so that it floats to the surface, where it is collected in a collecting basket.

Fresh air in the spraying chamber.

Breathe deeply. Since the air is suctioned out of the room by the paint mist exhaust wall during painting, it is important that the spray chamber is supplied with fresh air. The PLZ fresh air supply devices from Höcker Polytechnik can be connected to an existing hot water line. The warm fresh air created by the air supply device is fed into the spray chamber through the air supply ceiling via vents with appropriate filter pads. Depending on the operating requirements, there are standard air supply devices with capacities from 4,500 to 23,000 m³/h.



Specific water lines and integration into the PWSL water-sprinkled paint mist exhaust wall. Spray walls or booths from other manufacturers can also be integrated easily.



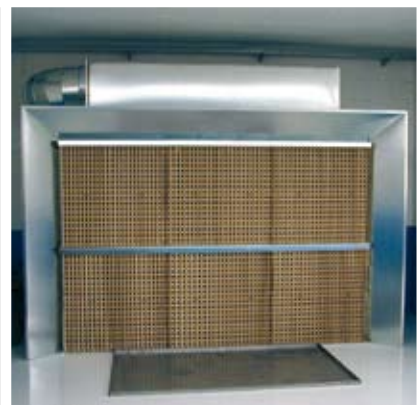
Cleaning with a system.

Automatically clean. As a special accessory for the PWSL water-sprinkled paint mist exhaust wall – but also for spray walls or cabins from other manufacturers – Höcker Polytechnik developed the PolyFloat fully automatic paint sludge disposal system.

PolyFloat water treatment systems are automatic cleaning systems for separating paint overspray from water-sprinkled spray-painting facilities and machinery. Using the optimal dosage of a suitable coagulation agent can extend the life of the circulation water to more than twelve months. You save disposal costs and protect the environment.

One for all. PolyFloat is optimally suited for various paint systems and for water-soluble paints as well. Depending on the size of the building, up to four spraying systems can be connected simultaneously. And in offline operations with bypass water circulation, up to eight spray walls or booths can be integrated.

Or do you prefer dry? For many trade and industrial purposes, a conventional dry exhaust wall is still the ideal solution for effectively collecting and filtering spray mist. From the compact exhaust table PaintStar T – the most cost-effective solution for smallest uses – to the dry exhaust walls of the PaintStar series, PaintStar U for underground exhaust to PaintStar M for individual uses, Höcker Polytechnik has the right solution for every need. Low investment costs, low follow-up costs, good painting results.



Quality that has been washed.

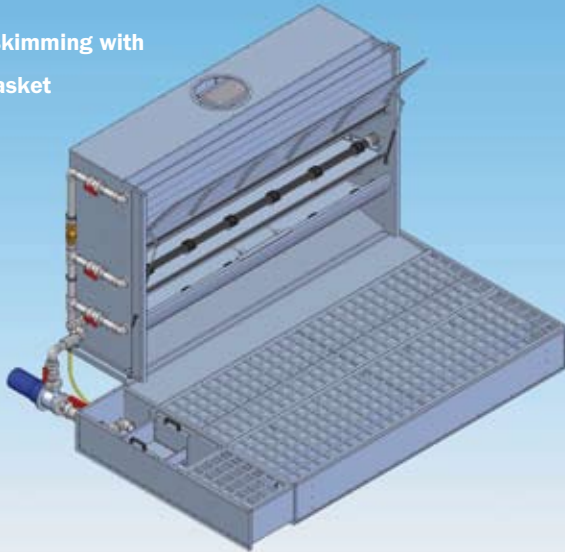
PWSL – Water-sprinkled paint mist exhaust wall with paint sludge disposal system

The high technical standard of Höcker Polytechnik systems is apparent in the PWSL water-sprinkled spray mist exhaust wall. The technical instructions on air quality control, workplace ordinances, work protection and accident prevention regulations, the current state of technology, and last but not least, fire safety regulations make high demands on spray mist exhaust walls and require a competitive level of quality.

Depending on the model, the (explosion-proof) high-performance radial ventilator is either built into the wall or placed outside and driven by fan belt. The air capacity can be adjusted to the ventilator performance curve and motor capacity. Thanks to the compact construction, the standard spray walls can be integrated even in areas with low ceilings.

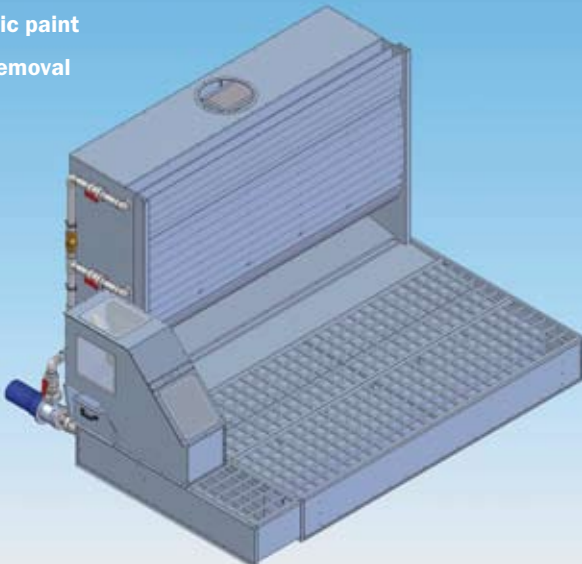
A standard paint sludge cleaning system is built into the galvanized water bath. The flocculated and detackified paint residue is floated to the surface using a suitable coagulation agent and then goes to a collecting basket, where it can be easily removed. The entire water circulation is supplied by an externally installed, explosion-proof centrifugal pump and the individual water flows can be adjusted or cut off by valves.

**Manual skimming with
a filter basket**



The PWSL 3020 of galvanized steel plate with a sludge basket for manual removal of the paint coagulate (for external ventilator). Also available in stainless steel with a stainless steel grid (optional). All paint mist exhaust walls with wet separator from Höcker Polytechnik are equipped with the easy-to-use foldout deflector plate for easy cleaning and changing of the spray jets.

**Automatic paint
sludge removal**



For paint that can be reliably floated using coagulation agents, integrated semi-automatic paint sludge removal is a cost-effective and space-saving solution.

**A stainless steel model must
be selected for water-soluble
paint.**



All benefits at a glance

- Optimal exhaust capacity and intensive paint mist rinsing
- Very high degree of separation of over 98%
- Interior high-capacity radial ventilator
- Low maintenance – foldout front plate
- Fire and explosion-proof drive elements
- Added automatic paint desludging also available for an additional charge
- A dosage pump for the coagulation agent and an automatic water level regulator can be provided at an extra charge
- High-capacity explosion-proof exterior centrifugal pump
- Long life of sprinkling water due to automatic desludging
- Health protection for your employees
- Know-how from over 30 years of experience from Höcker Polytechnik
- Walls with lateral water-sprinkling available

Type	Work area width x height in mm	Air capacity m ³ /h free flowing		Motor ex. kW		Exhaust pipe ø in mm	Water pump	
		Type 1	Type 2	Type 1	Type 2		capacity m ³ /h	motor ex. kW
PWSL 2020	2000 x 2000	5500	7000	1,5	2,0	350	30	1,85
PWSL 2520	2500 x 2000	7000	9000	2,0	2,5	400	30	1,85
PWSL 3020	3000 x 2000	9000	11000	2,5	3,6	450	30	1,85
PWSL 3520	3500 x 2000	9000	11000	2,5	3,6	450	30	1,85
PWSL 4020	4000 x 2000	2 x 5500	2 x 7000	2 x 1,5	2 x 2,0	2 x 350	40	2,5

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Clean technology.

PolyFloat – Separator system for water treatment and paint sludge removal

PolyFloat water purification systems from Höcker Polytechnik are used for separating paint from water and automatically removing paint sludge. They increase the life of the water in paint mist extraction walls with wet separation considerably and thus save disposal costs and protect the environment.

PolyFloat can be used for all major paint systems and can be connected to up to four spray systems simultaneously depending on the size. For so-called offline operation with bypass water circulation, only one water treatment system is needed for up to eight spray walls or booths. This means lower investment, less space required, and considerably lower maintenance costs.

PolyFloat uses a specially developed process using the flotation principle, which floats even the heaviest paint coagulates up to a density of approx. 2 kg/m^3 thus guaranteeing thorough automatic cleaning of the water. By means of a directed water and air conduction technique in the spray system – for example the very long flotation zone in the purification system – the paint sludge is floated to the surface and is continuously skimmed off by a pneumatic skimmer into a filter sack container or transfer container.

The paint coagulate is then optimally drained using filter sacks and the filter water is fed back into the system. This means a considerable saving of purification and disposal costs. Use of the correct coagulation agent and optimal dosage can lengthen the life of the circulation water to more than 12 months. In some cases, water life can be up to several years.

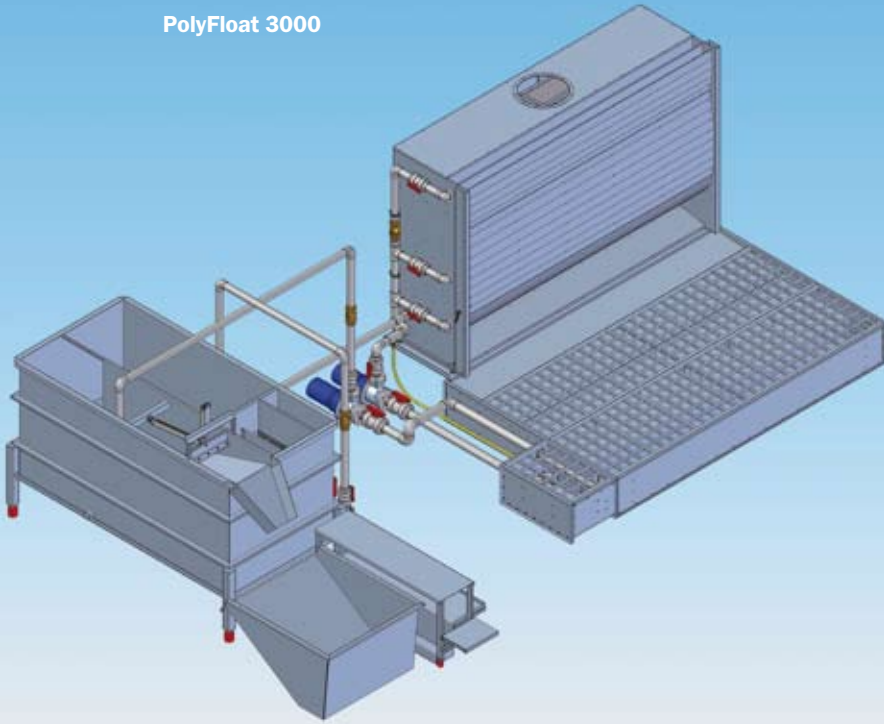


Long slow-down and flotation zone for optimal flotation of coagulated paint residue and clear water.

All advantages at a glance

- Central treatment and removal system for several spray systems: lower investment, less space required, and considerably lower maintenance costs
- The paint booth or spray table stay clean longer, water life is increased considerably: lower treatment and disposal costs and more productivity
- Suitable for various paint systems and optimal for water-soluble paints as well: lower costs for chemicals and security for your investment and future
- Spray walls or booths from other manufacturers can be easily integrated

PolyFloat 3000



PolyFloat 3000 with removal of paint sludge in a jute bag.

Water-sprinkled paint mist exhaust wall PWSL-N 3020 of stainless steel with extended water bath and PolyFloat 3000 stainless steel treatment system – the luxury model of water-sprinkled systems. Depending on operating width and percentage of overspray, the PolyFloat system can be used to treat water from up to four exhaust walls.

Technical specifications	PolyFloat 3000	PolyFloat 1500
Max. number of spray walls (offline)	4 (8)	2 (4)
Installation site (Models for ex. zone 1 or 2 on request)	Anywhere outside of the explosion zone	Anywhere outside of the explosion zone
Water circulation	30 to 120 m ³ /h	15 to 60 m ³ /h
Water volume	Approx. 2,5 to 3 m ³	Approx. 1,2 to 1,5 m ³
Length x width x height (incl. container)	3750 x 1609 x 2010 mm	2950 x 1609 x 2010 mm
Compressed air connection	4 to 6 bar	4 to 6 bar

The total power requirement for the pumps depends on the number of spray systems connected and amounts to approximately 1.5 to 3 kW. Errors and technical modifications reserved.



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Extract from our list of references

Al Reyami Office Dubai, UAE · Alcom, BEL · Almet AG, GER · Arabian Packaging Dubai, UAE · ASCO Industries, BEL · Bachmeyer Ladenbau, GER · Beeck Küchen, GER · BHS Corrugated, GER · Bien Haus AG, GER · Bikar Metalle, GER · Bilfinger & Berger, GER · Blitz Print Kiev, UKR · BMW Group Munich, GER · Boehringer Ingelheim, GER · Bogfran Möbel, POL · Bolderaja, LAT · Cleanaway, GER · Daimler Chrysler AG, GER · Data Industries, USA · Delta Usinages, FRA · Detech S.A., SUI · Deutsche Bahn AG, GER · Dekker Hout, NEL · Dilikas, LTU · Dobergo Büromöbel, GER · Dreyer & Hillmann Hobelwerke, GER · Dublin Institute of Technology, IRE · Dula Werke, GER · Duropack AG, GER · Egger Elemente, GER · Elastoform Möbelfabrik, GER · Elastogran Kunststoffe, GER · Emirate Deers, UAE · Eurowell, GER · Fine Irish Pine, IRL · FMD Möbel GmbH, GER · Frank Druck, GER · Frisia Möbelteile, GER · Garant Türen und Zargen, GER · GKU Alcan, GER · Gulf Timber Factory, UAE · Häcker Küchen, GER · Handwerkskammer Aachen, GER · Handwerkskammer Osnabrück, GER · Heckewerth Holzwerkstoffe, GER · Heitz Furniere, GER · Herlitz Berlin, GER · Hohenhausen Soltau, GER · Holz-BG Köln, GER · Holzfachschule Bad Wildungen, GER · Holzfachschule Melle, GER · Holzma Calw, GER · Homag AG Schopfloch, GER · Horvath, HUN · Hymer Caravan, GER · Jaquar Ltd., IND · JVA Aachen, GER · JVA Geldern, GER · Karibu Bremen, GER · Klemz Isolierstoffe, GER · KIMADO, JPN · Klompenshower, NEL · Kosche Profilmantelungen, GER · Kurekss, LAT · Kusch & Co., GER · Latvia Finieris Group, LAT · Lefevre, BEL · Lerom, RUS · Lottner AG, GER · Maghreb Emballage, ALG · Majid Wood Industries, UAE · Mannesmann Demag, GER · Marquardt Küchen, GER · Meubi Trend, NEL · Neufarm Türenwerk, GER · Nolte Leisten u. Parkett, GER · Obeikan Group Riyad, KSA · Oberhessisches Holzwerk, GER · OBI Baumärkte, GER · Pelipal Quickset Möbel, GER · Peri Schalungsbau, GER · Plywood Factory Archangelsk, RUS · Poppensieker & Derix, GER · Potteau Labo, BEL · Quality Kitchens, IRL · Reuter Möbelwerkstätten, GER · Rollwood Holztechnik, GER · Salzgitter Magnesium Technologie, GER · SBA Furniture Group, LTU · Schrader Ladenbau, GER · Schwörer Fertighäuser, GER · Seibel & Weyer, GER · Seitz Kunststoffe, GER · SIA Konto, LAT · SIA Troja, LAT · Siemens AG, GER · Simona Kunststoffe AG, GER · SITA Suez, GER · Visagineo linija (SBF furniture), LAT · Stark Verlag, GER · Storaenso, FIN · Storebest Ladenbau, GER · Stork Fokker, NEL · Swatch Group, SUI · Tarkim, NEL · Theuma Türen, BEL · Towa Industry, JPN · Tru Wood, USA · Verems SIA, LAT · Verisett AG, SUI · Viking Windows, EST · Visagino linija (SBF Furniture), LAT · Visy Paper, USA · WDR Köln, GER · Wella AG, GER · Zenker Haus, GER

More than 40,000 systems in over 40 years – globally.

- Countries with Höcker Polytechnik reference systems

