

Paint spray mist extraction efficient and economic



Schuko

FAW water-rinsed
paint spray mist
extraction wall

Schuko

FEP paint sludge
separator

- Optimum painting results by efficient air flow
- Uniform water film to improve overspray absorption
- Energy-saving by two-stage motor
- Long life
- Easy to maintain
- Easy cleaning by removable rinsing panels
- Low water volume to reduce sludge deposits
- No disturbing rivets or screws on the rinsing panels
- Optimum water guidance by 3° sloping rinsing panels

System

The spray mist hitting the water-rinsed deflector surface of the extraction wall is immediately absorbed by the water film and directed into the separating system. In the second cleaning stage the exhaust air stream becomes added with the aid of spray nozzle water drops. The water drops ties the particles of pigment up. Some coagulating agent (deadhering agent) must be added to the water contained in the separating system to remove the solvents from the solid matter of the surface material in a simple way. The separating system based on a vacuum works reliably, is easy to clean and can be run without any high efforts.

Design

The entire paint spray mist extraction wall, the water tank and the deflectors are made of stainless steel all designed as a self-supporting structure. The fan, provided with a vibration damper, is located on top of the housing and can be horizontally swivelled 4 x 90° to obtain the best exhaust air discharge position. The scope of supplies includes a first extraction surface extension of 250 mm. Further extensions to enhance the extraction performance are easy to retrofit. The standard position of the pump is on the left.

Safety

This system meets the legal regulations and the requirements of the health and safety executive as well as of the employers' liability insurance association. The requirements of BGI 740 - Spray booths and equipment - have been taken into full consideration in all points. All motors, of both the fans and the water pumps, are of Atex-conform design and have been PTB- certified by the Physikalisch-Technische Bundesanstalt (German Federal Physical and Technical Institute) in Braunschweig.

Energy saving

This is what we make easy for you. Each paint spray mist extraction wall can be supplied with an explosion-proof, pneumatically actuated energy-saving flap. While the spray gun is being kept in a specific holder, for example, during any setting-up the exhaust air flow will be stopped. This will avoid unnecessary heat loss. By a fresh-air supply unit from Schuko, you can compensate the air quantity removed from the working room. The air freely sucked in from outside is dedusted, warmed up and the blown out through a duct system provided with filter mats.



Paint sludge separator mit incl. a pneumatic stripper and two paint sludge collecting baskets with afterfilter mats inserted. Firmly integrated into the water circulation of the paint spray mist extraction wall, it separates solid matter from the recirculating water and returns the cleansed water to the tank. **FEP model** for paint such as of NC or DD type containing solvents. Paint sludge separators for water-dilutable paint (**FEP-W model**) are also available.



Cleaning the paint spray mist extraction wall
With the aid of the double suction cup which comes with the paint spray mist extraction wall, you can take off the rinsing panels in no time. After that, the inside of the extraction wall can simply be cleaned with the aid of a high-pressure cleaner.

Specifications/Performance Parameters

FAW paint spray mist extraction wall								
FAW model	Item no.	Dimensions height x width [mm]	Exhaust air tube dia. [mm]	Exhaust air fan capacity [m³/h] free discharge	Ex-proof motor 1,400 rpm 400 V [kW]	Water pump capacity [m³/h]	Ex-proof motor [kW]	Weight [kg]
20/20	516 000	2,000 x 2,000	350	6,500	2.5	51.0	2.50 ex	640
20/25	516 100	2,000 x 2,500	400	7,200	3.6	51.0	2.50 ex	700
20/30	516 200	2,000 x 3,000	400	8,900	3.6	51.0	2.50 ex	790
20/35	516 300	2,000 x 3,500	450	11,000	5.0	52.0	4.00 ex	920
20/40	516 400	2,000 x 4,000	2 x 350	13,000	2 x 2.5	52.0	4.00 ex	1,120
20/45	516 500	2,000 x 4,500	2 x 400	14,400	2 x 3.6	52.0	2 x 4.00 ex	1,320
20/50	516 600	2,000 x 5,000	2 x 400	17,800	2 x 3.6	52.0	2 x 4.00 ex	1,520

When the paint spray mist extraction wall is provided with a paint sludge separator, the pumps will change as follows:

FAW model	pump [kW] sludge separator
20/20	1.5 ex*
20/25	2.5 ex*
20/30	2.5 ex*
20/35	2.5 ex*
20/40	2.5 ex* *The pumps can vary
20/45	2.5 ex* because it depends on the
20/50	2.5 ex* local circumstances

Please observe the BGI 740 requirements as well as the requirements and regulations of the health and safety executives, the employers' liability insurance association and the fire prevention rules. We are ready to assist you in solving your specific problems. Please feel free to ask our technical field service team for advice without obligation.

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