

Surface treatment and Electroplating

Dimensioning, production, delivery and assembly of combined exhaust and supply air systems for electroplating machines

Consisting of the following components:

- Bathroom edge extraction boxes,
- trolley extraction systems,
- exhaust air purification with separators and scrubbers,
- centrifugal fans, silencers,
- air and condensate-tight air control units,
- exhaust air chimneys
- Supply air systems for the replacement of extracted acidic and alkaline vapours with direct, substance-separated heat recovery from the warm exhaust air,
- Fresh air intake with change-over dampers for summer and winter operation,
- Central supply air units with filters, heating coils,
- fans and silencers
- Piping systems for low-flow distribution of the supply air in the production hall,
- Complex control technology for volume flow and temperature control

Reference companies:

- Nehlsen-BWB-Flugzeug-Galvanik Dresden GmbH & Co.KG
- Pieper Oberflächentechnik Hermsdorf GmbH
- Saxonia Edelmetalle GmbH Halsbrücke
- Saxonia Galvanik GmbH Halsbrücke
- Schkeuditzer Metallveredelung GmbH
- Metallveredelung Döbeln GmbH
- TSG Troeger Surface Group GmbH & Co. KG
- Technologie-Zentrum für Oberflächentechnik und Umweltschutz Leipzig GmbH
- Innovent e.V. Technologieentwicklung Jena
- Sächsische Metall- und Kunststoffveredelung GmbH Oberlungwitz
- ZINQ Lausitz GmbH & Co. KG

Semiconductor industry and Photovoltaics

Dimensioning, production, delivery and assembly of process exhaust air systems for the extraction of aggressive, acidic air from manufacturing processes for semiconductor cells and pharmaceutical manufacturing processes.

Consisting of the following components:

- Air- and condensate-tight pipe, duct and moulded parts,
- hand- and motor-adjustable dampers,
- radial fans,
- silencers and sound insulation capsules,
- Exhaust air chimneys as blow-out above the roof

Reference companies:

- cleanpart Dresden GmbH
- X-Fab Dresden GmbH & Co. KG
- JENOPTIK Optical Systems GmbH

Room air technology for Laboratories

Dimensioning, production, delivery and assembly of exhaust air systems for laboratories in institutes, educational establishments, hospitals, technology centres and clean rooms.

Consisting of the following components:

- air- and condensate-tight pipe, duct and moulded parts,
- hand- and motor-adjustable dampers,
- silencers from connection to laboratory furniture,
- fire dampers and volume flow stabilisers,
- fans and exhaust air ducting above the roof, sound-absorbing enclosures
- Supply air systems for replacing the extracted acidic and alkaline vapours,
- Control technology for monitoring and regulating the volume flows

Reference companies:

- ZeHS (Zentrum für effiziente Hochtemperatur-Stoffwandlung)
TU Bergakademie Freiberg
- ITI (Institut für Topologische Isolatoren)
Julius-Maximilians-Universität Würzburg
- DZNE (Deutsches Zentrum für Neurodegenerative Erkrankungen)
Dresden (Helmholtz-Gemeinschaft)
- Zentrum für Innovationskompetenz (ZIK) B CUBE (Center for Molecular Bioengineering)
Technische Universität Dresden
- ABX - advanced biochemical compounds GmbH Radeberg
- DESY (Deutsches Elektronen-Synchrotron) Photon Science
Hamburg (Helmholtz-Gemeinschaft)
Forschungsabteilung CXNS - Centre for X-ray and Nano Science
- Swissbit Germany AG
- Fraunhofer-Institut für Photonische Mikrosysteme IPMS Dresden
- Helmholtz-Zentrum Dresden - Rossendorf e. V.
- Abluftanlagen in Schulen

Supply of exhaust fans

Dimensioning, manufacture and delivery of fans for exhaust air systems.
Also with speed-, pressure-, volume flow- and time-dependent controllable EC motors.

Fans for indoor installation

- Radial fans VRE
- Duct fans VRK
- Special fans

Fans for outdoor installation (e.g. living space ventilation)

- Roof fans VRR and VRV
- Radial fans VRE
- Duct fans VRK
- Special fans

Reference companies:

- BMW FIZ Future München
- Uniklinik Hamburg Eppendorf
- University College Hospital London Großbritannien
- Apple Banta in Hollyhill Irland
- BASF Schwarzheide GmbH
- Wohnungssanierung Halle/Dessau
- Paulaner Brauerei Gruppe GmbH & Co. KGaA München