



## Process air systems



**BerlinerLuft.**



## Process air systems

Under the process air systems product group BerlinerLuft offers a range of parts, components and systems that are specifically tailored to industrial requirement profiles. These are manufactured and delivered either as standard solutions or as special equipment tailored to individual requirements in compliance with relevant standards and regulations.

BerlinerLuft. group develops, manufactures and markets products and components for process air engineering. Our products are used in the field of industrial plant manufacturing and also in building services.

Based on long-standing experiences and an ongoing dialog with our customers products from BerlinerLuft. are continually optimised and refined.

The companies of the BerlinerLuft group are subject to the quality management according to ISO 9001. Internal and external audits additionally accompany design, production and sales processes. Product-specific certification programmes assure the high quality requirements regarding hygiene, energy efficiency and safety.

The following companies and branches within the BerlinerLuft. group are specialists for process air products and systems:

- BerlinerLuft. Ventilatoren und Geräte GmbH for air conveying – fans
- BerlinerLuft. Komponenten und Systemtechnik GmbH, eastern branch, Dresden for air conduction, air regulation and sound-absorbing systems
- BerlinerLuft. Komponenten und Systemtechnik GmbH, eastern brunch, Munich for air conduction, ventilation towers and chimneys

BerlinerLuft. group is very involved in recognised associations such as

- Herstellerverband Raumlufotechnischer Geräte e. V. (association of ambient air unit manufacturers)
- VDMA Verband Deutscher Maschinen und Anlagenbauer e. V. (association of german machine and plant engineering)
- RAL Gütegemeinschaft Kulissenschalldämpfer e. V. and engages in the discussion and creation of new standards and norms (quality association of splitter silencers).





## Process air systems

### Air ventilation



The air ventilation product group encompasses a spectrum of fans for conveying, filtering, moistening and drying of air and flue gases.

#### Product range:

- Radial fans sucking from one or two sides, volumetric flow rate up to 300.000 m<sup>3</sup>/h
- Fans without housing, freewheeling impellers, volumetric flow rate up to 250.000 m<sup>3</sup>/h  
Design variant: welded industrial design
- Drives: direct-driven, driven by belts and couplings
- Materials: standard sheet steel, stainless steel, low-wear steel, creep-resistant steel
- Surface finishes: plastic powder coating, hot-dip galvanising, special coatings such as non-stick coatings, rubber coatings
- Certified acc. to ATEX directives for the zones 1, 2, 21, 22, with GOST certificate, ship variants, pressure shock resistant

Special fans for specific industrial requirements such as conveying of chips, fibres or similar solid matters

- with swinging-out impeller
- movable for drying plants in agriculture



with coupling drive radial fan



Slide-in fan for air circulation for fixed wall mounting



Special fan RET5



## Prozesslufttechnik

### Air conduction



The air conduction product group encompasses all components for the installation of complete air ducts.

Product range:

Square air ducts according to DIN EN 1507 and VDI 3803

- Low-pressure ducts +1000 /-500 Pa
- Medium-pressure ducts +2000 /-750 Pa
- High-pressure ducts +6000 /-2500 Pa
- C+ Duct, folded energy-saving duct
- Round air ducts, folded and welded

Depending on application, these products can be manufactured using standard sheet steel, galvanised steel, stainless steel, aluminium or FAL (hot-dip aluminised sheet metal).



C+Duct . energy-saving duct



System ducts



Welded pipes



## Process air systems

### Inlet/exhaust air conduction



This product range encompasses the whole spectrum of inlet/exhaust air conduction.

#### Product range:

- Deflector hoods, folded and welded
- Roof hoods, folded and welded
- Blow-out and intake bends, folded and welded
- Intake structures
- Lamella towers
- Exhaust air chimneys

Depending on application, these products can be manufactured using standard sheet steel, galvanised steel, stainless steel, aluminium or FAL (hot-dip aluminised sheet metal).

Apart from these products, we manufacture application-specific parts using all commercial materials in compliance with relevant standards and regulations.



Exhaust air and smoke extraction chimneys at Munich airport



Lamella tower with flat roof



Deflector hood



## Process air systems

### Air regulation



The air regulation product group encompasses components for controlling, regulating and monitoring air flows within an air conduction system.

#### Product range:

- Louver dampers
- Louver damper for bypass regulation
- Reducing and shut-off dampers



Louver damper



Louver damper for bypass regulation



Reducing damper, split damper blade, central bearing lubrication



## Process air systems

### Sound insulation systems



The sound insulation systems product group encompasses products for the reduction of noise emissions within ventilation systems and production processes. AKUSWIN®, a silencer rating program from BLKS, is used to calculate the components to be used.

#### Product range:

- Duct silencer, folded
- Duct silencer, welded, industrial design
- Circular silencer, folded
- Circular silencer, welded, industrial design
- Sound enclosures
- Noise absorber boxes
- Noise absorber hoods



Splitter silencer



Circular silencer, rigid, with core (industrial design)



Sound enclosure



## Process air systems

### References

The extract from our track record reflects our challenging projects at home and abroad and is representative for a variety of commercial and industrial applications.

- Daimler AG Kassel, rear axle enamelling line
- Volvo Umea (Sweden)
- Dresden airport
- Athens airport (Greece)
- AMD Dresden
- Infineon Dresden
- VW Mosel
- AUDI Ingolstadt
- Daimler AG Düsseldorf
- AUDI Neckarsulm, hall A 18
- VW Slovakia Bratislava, 1. configuration level
- VW Poznan
- Daimler Chrysler Sindelfingen, Maybach priming line
- VW Slovakia Bratislava, body washing line
- BMW Dingolfingen, fineness line + filler lines
- VW Wolfsburg, configuration level 2
- Daimler AG Rastatt
- BMW Leipzig, top coat line + cleanrooms
- SEAT Martorell (Spain)
- Renault Valladolid (Spain)
- DAF (Belgium)
- Opel Rüsselsheim (Finess Linie)
- AUDI Ingolstadt (capacity extension of line 3)
- Philipp Morris Berlin
- Knauf Riga
- Knauf Iphofen



**BerlinerLuft.**  
Unternehmensgruppe

Herzbergstraße 87-99  
D-10365 Berlin, Germany  
Phone +49 30/55260  
Fax +49 30/55262211

e-mail:  
infobl@berlinerluft.de  
www.berlinerluft.de