

Movement by Perfection



The Royal League in ventilation, control and drive technology



Coupling Fan

A series for when you need top safety and quality requirements



The industrial coupling Fan series is manufactured in system design and is freely configurable so that it is suitable for every application and all areas of use. Both the system design and individual custom designs satisfy the required high quality level according to current ISO standard – according to the specification of the user and all important parameters. Optimum results in the area of application can be achieved by combining the individual modules in a uniform total product.

Different modules enable the best operating point. We can plan the desired fan down to the smallest detail by choosing our impeller variants from low and medium to high pressure. The modules are individually adapted to the user's process conditions, including sound and heat insulation as well as wear and corrosion protection.

In addition, we rely constantly on new and further developments with the aid of state-of-the-art software for strength calculation to assure the high quality standard and further improve process reliability on site.

We also offer service of course: from installation to commissioning and regular maintenance.



94/9 EG ATEX – We use this new EU directive for all devices, components and protective systems intended for use in potentially explosive atmospheres.

Our explosion-proof fans are designed, produced and tested in compliance with ATEX 94/9 EG-, 1999/9 and are therefore suitable for operation in zones 1 and 2 as well as 21/22.



One-stop system solutions

Coupling machine

- Wheel types: Low pressure, medium pressure and high pressure
- Temperature: -40 to +500 °C
- Materials: St. 37 to 1.4835/78
- Motor sizes: 180 M to 315 L (22 to 315)
2, 4, 6, 8-pole
- Nominal sizes: NW 400 to 2000
- Coating types: wet varnish, powdered
- Clutch: N-Eupex or Rupex



Accessories

- Ex-protection zone (2G/3G) as well as 21/22
- Sealing concepts: Stuffing box/shaft seal
1/2-fold with inert gas connection
- Vibration damper: Rubber, spring damper, viscous damper
- Block bearing: Monoblock or single pedestal bearing unit
- Base frame: U-section
- Vibration monitoring
- Autom. relubricating unit
- Soundproof hood / insulation / soundproof booth



The right impeller for every operating point



Operating points (examples)

- 6,000 m³/h stat. 25,000 pa
- 5,000 m³/h stat. 40,000 pa
- 250,000 m³/h stat. 6,000 pa
- Efficiency: > 80 %

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