



Movement by Perfection



The Royal League in ventilation, control and drive technology



Cpro ZAmid®

High-performance centrifugal impeller

Cpro ZAmid® Technology

Extremely light, extremely stable, extremely durable,
extremely quiet and extremely efficient

The new high-performance centrifugal impeller, the **Cpro ZAmid®**, stands up to all challenges – be they high operational temperatures, or special requirements in cleanroom or other air-conditioning applications.

The high-performance composite material **ZAmid®**, developed using the latest insights, makes the impeller significantly lighter than those made of steel - and offers superior mechanical properties. **ZAmid®** provides new opportunities for system runtimes, enables lower power consumption and leads to a drastic reduction in noise.

Flow engineering marvel with three-dimensional blade geometry

Another effective technical feature of the **Cpro ZAmid®** is the three-dimensional blade geometry which produces ideal flow characteristics with exceptional results. **Cpro ZAmid®** is manufactured using a one-shot injection-moulding process in a highly complex injection-moulding machine, resulting in no welded joints. This highly technical process ensures the highest system reliability.

The new high-performance composite material **ZAmid®** is extremely stable, non-corroding, colour-stable, and is 100% recyclable.



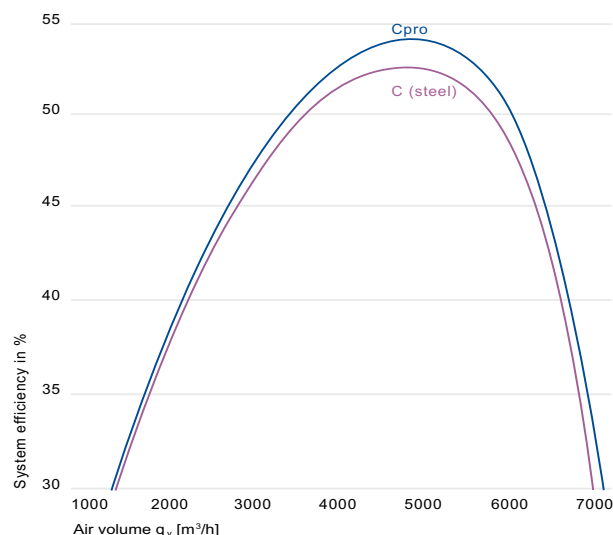
Profit from

Cpro ZAmid® Technology

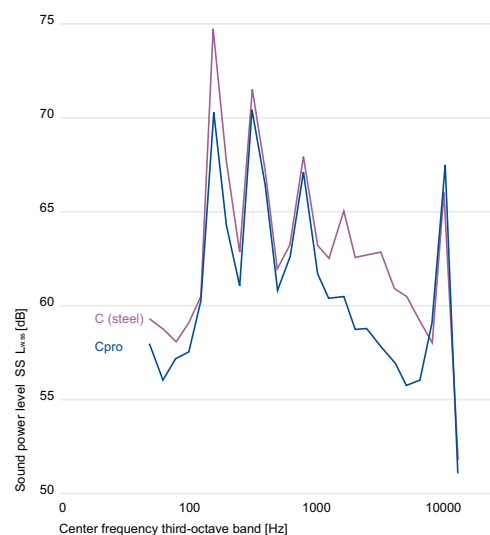
Innovation at a glance

- Significant weight reduction, which reduces motor bearing loads and increases the system service life
- Drastic reduction in noise generation
- Significant increase of the impeller efficiency, which reduces the absorbed power
- Reduced power consumption
- Up to 15% energy savings during operation
- Significant CO² reduction
- Improved mechanical properties, comparable with steel

Extreme advantages – ZAmid versus steel



Cpro vs. C (steel), frame size 450, $P = 1,2 \text{ kg/m}^3$, 4-pole



Cpro vs. C (steel), frame size 450, Spektrum SS, $P_{af} = 450 \text{ Pa}$



- No weld seams
- High peripheral velocities up to 70 m/s
- Can be combined with various types of motors
- Tonal noise reduction up to 5 dB
- Suitable for operational temperatures from -20°C to +80°C, comparable with steel impellers
- Corrosion-free
- No toxic gas emissions
- Colour-stable



The strengths of
Cpro ZAmid®
lie in the details -
e.g. the exceptional blade
geometry



Pure innovation

Cpro ZAmid®Technology with the latest Ziehl-Abegg motor technology

The combination of the innovative ECblue and PMblue motor control technology with the **Cpro ZAmid®Technology** high-performance centrifugal impeller promises unbeatable performance. Starting with the impressive efficiencies of over 90%, the modern motors, in combination with the **Cpro ZAmid®**, attain unsurpassed aerodynamics. In synergy with the newly developed **Cpro ZAmid®** impeller, that results in maximum efficiency and minimum energy consumption during use. ECblue, PMblue and **Cpro ZAmid®** are trademarks of Ziehl-Abegg AG, and stand for Premium Efficiency, putting them in the most environmentally friendly class with the greatest energy-savings potential. The innovative technologies even now exceed the EU minimum efficiency threshold regulations which will come into effect in 2015.

The Royal League

