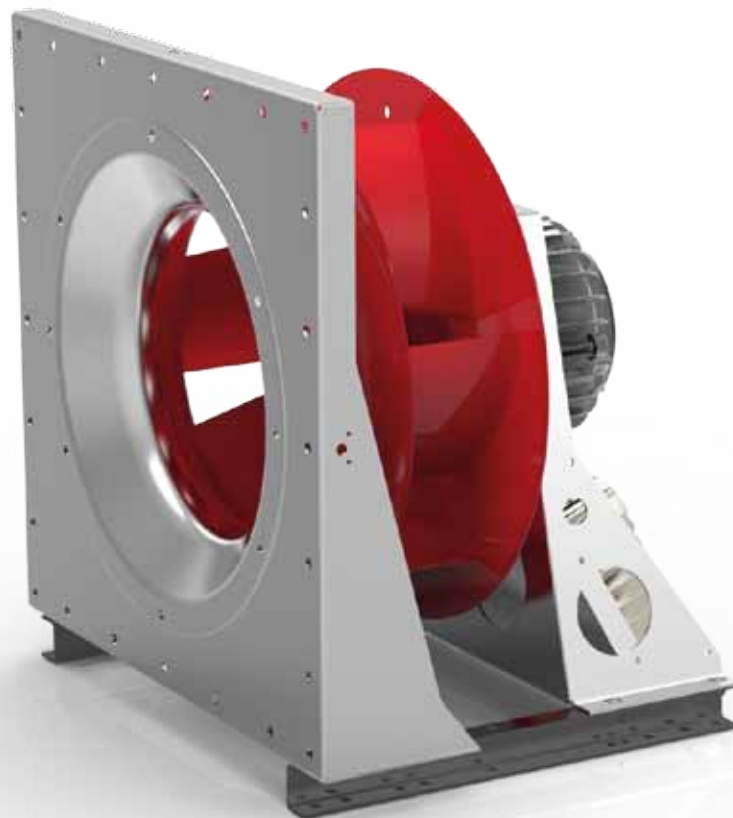


RLM Evo

Maximum efficiency for plug fans



AIRTREND Ltd.
Predstavništvo u Beogradu
Kumanovska 14
11000 Beograd
Tel: 011 3836886, 3085740
Faks: 011 3444113
e-mail: gobrid@eunet.rs
web: www.airtrend.rs

NICOTRA || **Gebhardt**

fan|tastic solutions

Extremely economical and quiet

Fans must always reach ever higher system efficiencies. This means: more output with less energy. Binding requirements for this have been determined in the ErP Directive (Energy-related Products)

The new generation of Nicotra Gebhardt fan modules already now reaches motor efficiencies up to IE5 – far beyond the specifications required in the future.

Put plainly, this means: using Nicotra Gebhardt fan modules equips you for the future today – so that you benefit in three ways: Improved efficiency and lower energy costs – and product compliance with the standards of tomorrow.

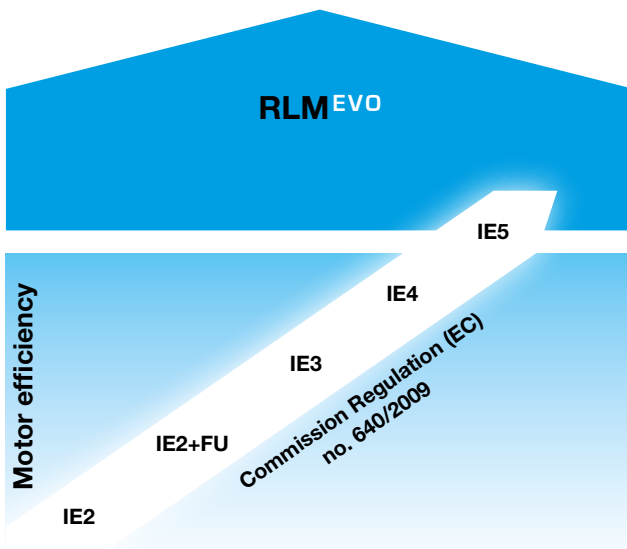
We have accelerated impeller technology with the Evo series, the new generation in our plug fan range. The result: More efficiency and reduced turbulent conditions. And that is highly effective as the Evo series ensures:

- **lower energy consumption**
- **lower costs**
- **lower noise levels**

Nicotra Gebhardt – the professionals in profiling

Nicotra Gebhardt is the first port of call for profiled impeller blades. We brought the first hollow section airfoil blades onto the market in 1975. Since then we have been achieving the absolutely best efficiencies in our fans in every application.

Our engineers and technicians use the latest simulation programmes to develop and test new designs. You can rely on the knowledge and experience of specialists.



The plus factors of the Evo Generation

■ Unparalleled system efficiency for plug fans

The Evo series sets a new standard in efficiency. No other plug fan reaches higher system efficiency.

■ Innovative blade and impeller shaped for highest efficiencies

The entire shape of the impeller was optimised using a real turbulence profile for the blades. This ensures that the impeller reaches as yet unparalleled high efficiency and takes the top position in aerodynamics.

■ Optimal pressure and turbulence conditions

The re-designed impeller shape makes optimal pressure and minimised turbulence conditions in the impeller possible. The inclined leading edge of the blade builds pressure more evenly minimising entry and exit losses.

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■ Economical permanent magnet (EC) motors

The permanent magnet and EC motors used by Nicotra Gebhardt are significantly more economical and efficient than conventional drives. They reach efficiencies up to IE5 and lower the energy consumption of the fan by up to 50% in the partial load range.

■ Much quieter

Thanks to their new design the blades and the impeller run with less noise. The entire fan is thus much quieter.

■ Easy to integrate

Despite their improved performance figures, the Evo series have the same external dimensions and significant operational data as earlier generations of plug fans. They can therefore be easily and quickly exchanged in existing systems or integrated in available machine concepts.

■ Easy maintenance

Thanks to the construction method and direct drive the Evo series is practically maintenance-free.

RLM Evo E6 series for installation in air handling units

- Internal rotor motor efficiency grade IE5
- Horizontal installation
- Impeller size 280 – 900
- Max. motor power 18kW
- Controlled with integrated electronics

- Internal rotor motor efficiency grade IE5
- Horizontal installation
- Impeller size 250 – 900
- Max. motor power 18kW
- Controlled with frequency inverter

- Internal rotor motor efficiency grade IE3
- Horizontal installation
- Impeller size 280 – 1250
- Max. motor power 45kW
- Controlled with frequency inverter



RLM Evo E3 series for ceiling or floor installation

- Internal rotor motor efficiency grade IE5
- Vertical installation
- Impeller size 280 – 710
- Max. motor power 6,5kW
- Controlled with integrated electronics

- Internal rotor motor efficiency grade IE5
- Vertical installation
- Impeller size 280 – 710
- Max. motor power 7,5kW
- Controlled with frequency inverter

- Internal rotor motor efficiency grade IE3
- Vertical installation
- Impeller size 280 – 710
- Max. motor power 11kW
- Controlled with frequency inverter

