

PFP (RLE)

The compact lightweight



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The ultra compact PFP completes the Nicotra Gebhardt offer

Beyond the existing RLE range NG group has decided to develop an additional range of permanent magnet external-rotor motor (EC) plug fans.

The PFP with outstanding combination of efficient drive system and aerodynamics is the ideal solution for medium-pressure applications. The PFP completes the offer of existing low pressure and high pressure high efficiency fans.

All fan applications can now find the perfect solution within Nicotra Gebhardt product range.

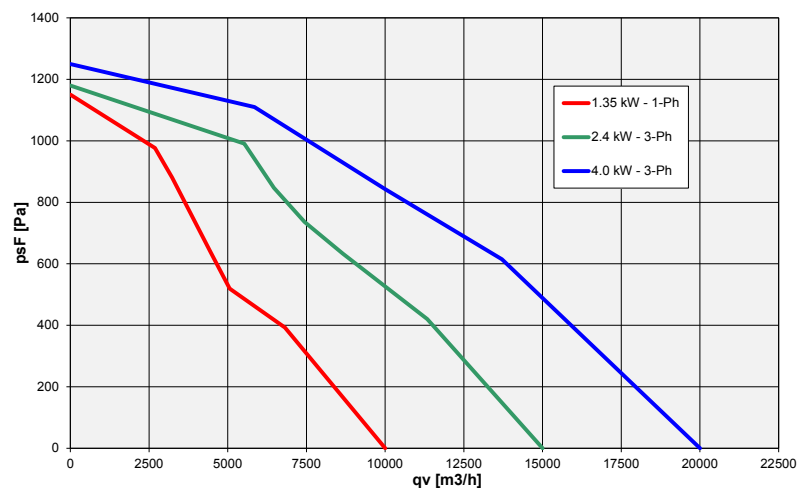
The new impeller is specifically selected for optimum performance in the PFP application:

- Lightweight high-efficiency aluminium impeller.
- Optimised for medium pressure applications.
- Reduced losses due to motor influence.
- Low interference loss with fan enclosure.

The drive system of the PFP fans is one more new development built on the success of DDMP experience.

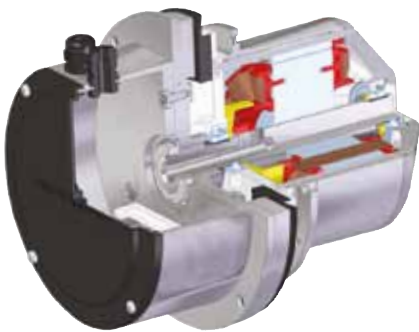


PFP range - Planned expansion of the performance envelope



The new motor combines a numbers of outstanding features:

- Compact external-rotor motor.
- Aerodynamically optimised.
- High efficiency motor with neodymium magnets.
- Integrated controller.



The new advanced controller characteristics:

- All the single-phase models comply with EMC requirements for class C1; three-phase models shall comply with the EMC requirements for class C2 (emissions) / C3 (immunity).
- Can operate in PID mode, adjusting fan speed to keep the measurement of a system parameter to the desired value, via 2 analogue inputs, and an external transducer.
- Operation at constant flow-rate can be achieved using the PID mode and a pressure transducer, connected with the pressure probe provided on the inlet nozzle.
- speed control via external voltage signal.
- ModBus / RS485 serial interface.
- 10V and 24V power supply for external transducers.
- Master & slave mode, for stable operation in parallel.

PFP range 2018

Size	280	315	355	400	450	500	560	630
Motor								
1.35 kW / 1 Ph	In production							
2.4 kW / 3 Ph	Available 2018							
4 kW / 3 Ph				Available 2018				



Also available RLE Evo

- External rotor motor (EC)
- Controlled with integrated electronics
- Impeller siezes 250 - 630 mm
- Max. motor input 3.5 kW