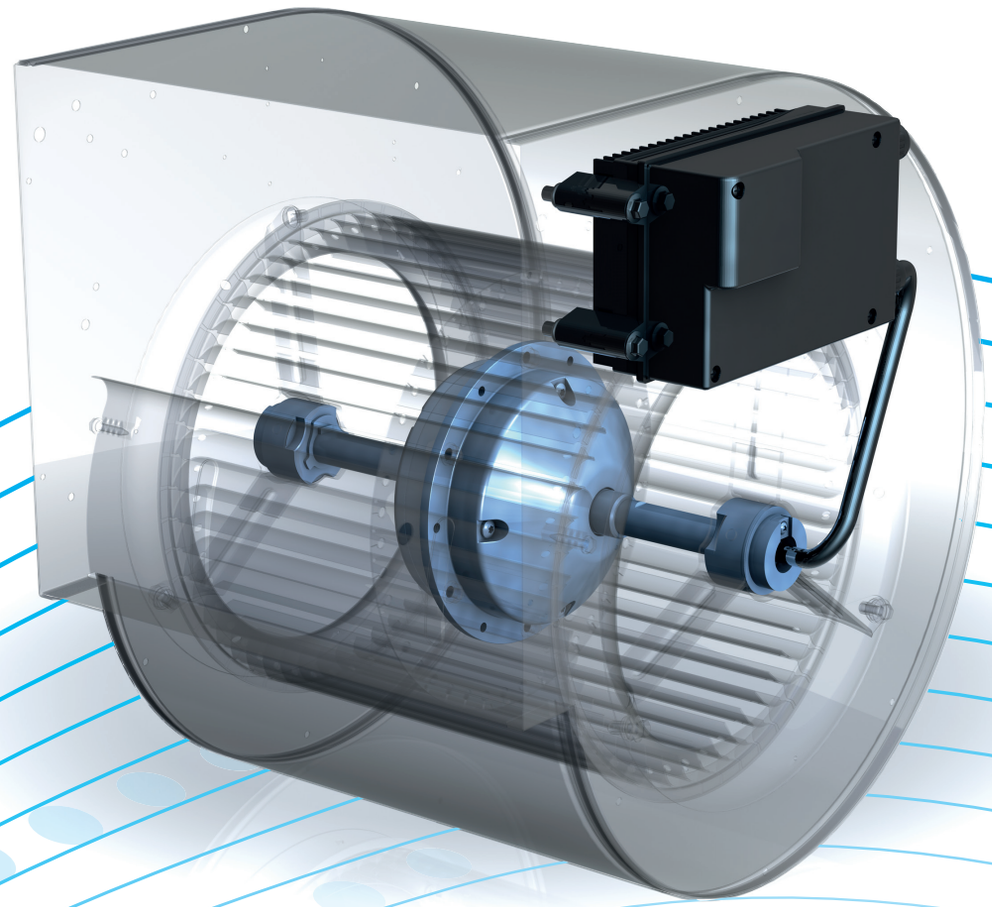
Issue 1 EN

DDMP

with integrated efficiency advantage



NICOTRA|Gebhardt

fan|tastic solutions

Time is money -
with the new DDMP you save year after year

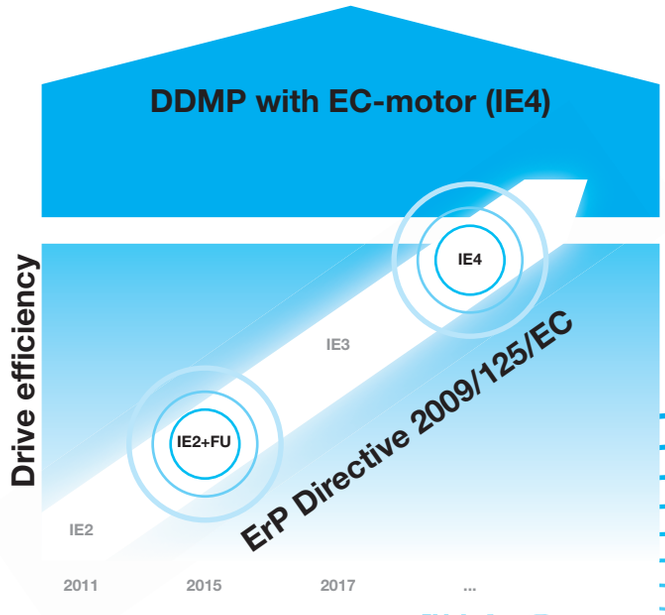
Fit for the future with EC-technology

In terms of energy efficiency Nicotra Gebhardt customers are ahead of the times. Our new direct driven centrifugal fan DDMP already exceeds the strict limits of the ErP Directive for 2015.

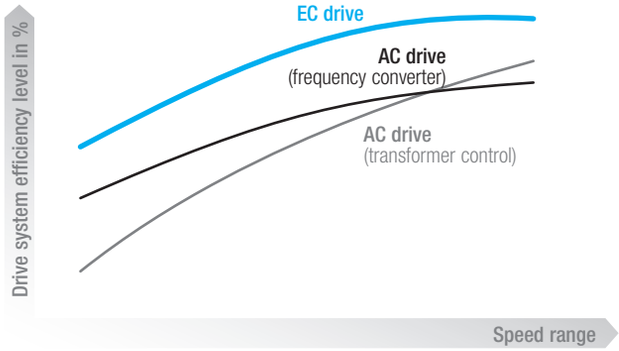
The new DDMP is now available with the particularly energy efficient compact EC-motor. These innovative motors achieve the highest efficiency and therefore cost less to operate than traditional AC motors in every application.

The EU's ErP Directive prescribes minimum levels of efficiency for electric motors. These levels of efficiency will be steadily increased in the coming years.

With the development of the new DDMP combined with the highly-efficient EC-motor we already exceed the requirements that will become compulsory in 2015 and 2017.

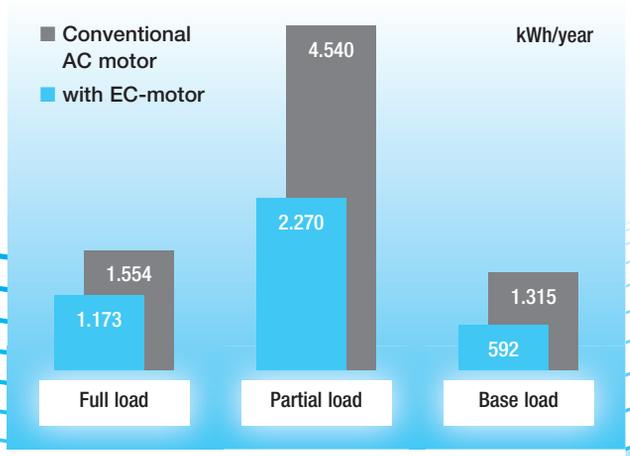


Comparison of the different levels efficiency



The EC-motor operates without slip losses and thus consumes significantly less power than conventional AC motors.

Important:
This applies for all speeds, i.e. even in partial-load operation!
The EC-motor therefore uses less power than the AC motor under all operating conditions and has a significantly higher level of drive system (motor and control) efficiency.



Up to 50 % of the power consumption of a fan can be saved (depending on the operating environment) by the use of EC-motors in place of AC motors.

Less €
per m^3/h air flow

For a brighter future - the new DDMP

The fundamental challenge for the development of the centrifugal fan DDMP is: how to drive fans with the lowest possible power consumption and the highest possible performance?

We would not be Nicotra Gebhardt if we had not long since discovered a solution for this challenge: the “magic word“ is EC-technology, which at the same times brings many other advantages:

- significantly lower environmental impact via
- a marked drop in power consumption, which in turns leads to
- an enormous reduction in operating costs.

High efficiency EC-motor and control unit

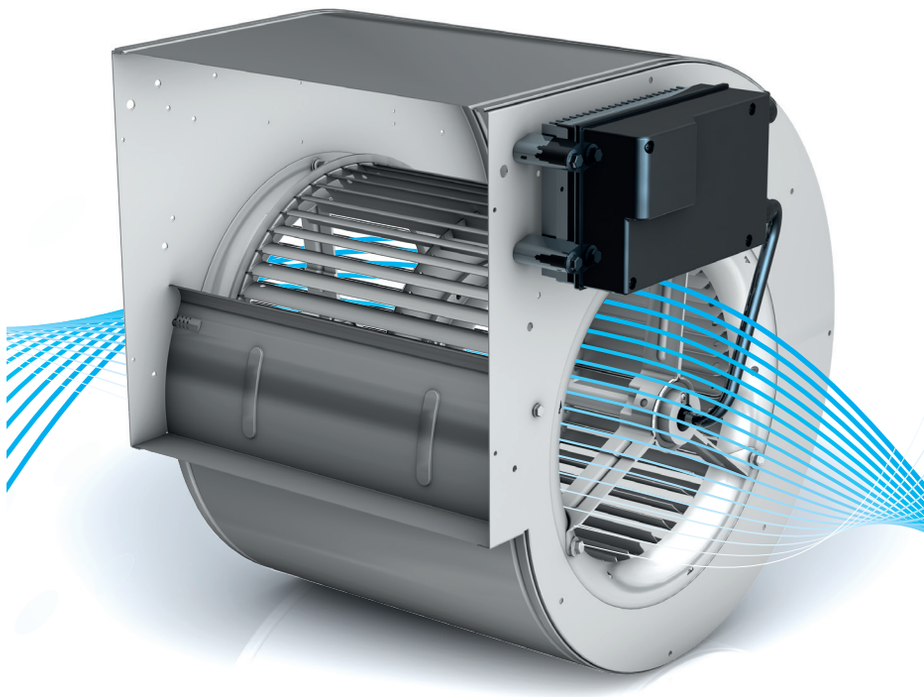
Energy saving concept
- new high efficiency EC-motor
- new compact and streamlined motor design
- high intensity neodymium magnets
- no obstruction of intake due to build-on control unit - less aerodynamic losses

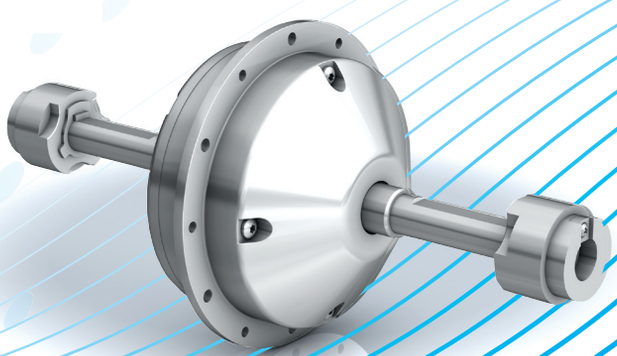
General features
- sensorless control
- simple installation due to plug and play
- IP 54 for complete drive
- designed for double inlet fans

Interface
- analogue interface for speed control
- full MODBUS interface compliancy

High efficiency direct driven centrifugal fan

- integrated solution
- top rating efficiency
- plug and play operation
- no configuration needed
- low sound level
- high reliability

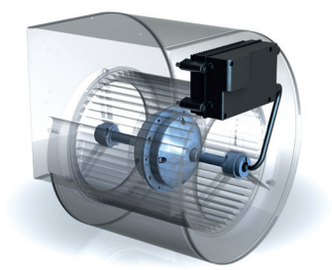




EC- and permanent magnet motors used in many applications

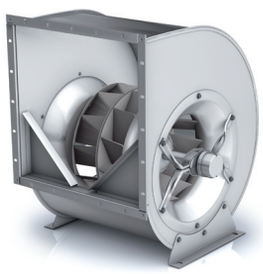
DDMP

Direct driven centrifugal fans DDMP
with EC-motor.



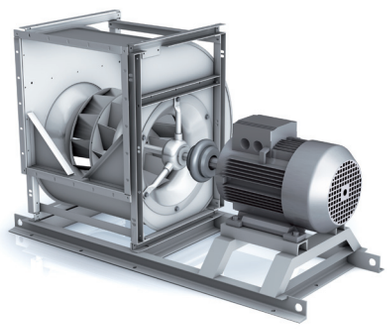
RZP

Direct driven centrifugal fans RZP
with EC-motor.



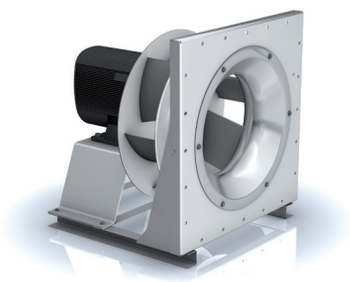
RZM

Direct driven centrifugal fans RZM
with permanent magnet motor.



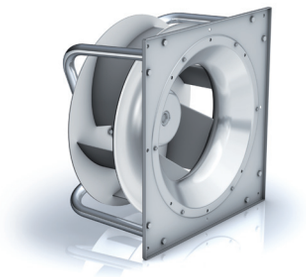
RLM EVO

Plug fans RLM Evo
with permanent magnet motor.



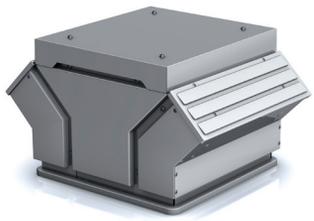
RLE EVO

Plug fans RLE Evo
with EC-motor.



RDA

Roof extract fans RDA
with EC-motor.



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EN-PB2-DDMP-1.0 – 1000-03/2014 – Printed in Germany by Schweikert Druck, Obersulm-Eschenau/Württ.