

DDMP

Quiet and compact efficiency



NICOTRA || **Gebhardt**

fan|tastic solutions

Time is money

Fit for ErP 2020

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

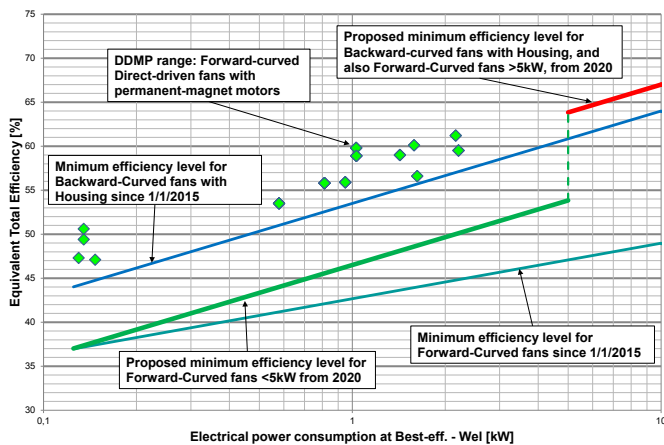
The new DDMP is driven by a particularly energy efficient compact EC-motor. These innovative motors achieve the highest efficiency and therefore cost less to operate than traditional AC motors in every application.

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

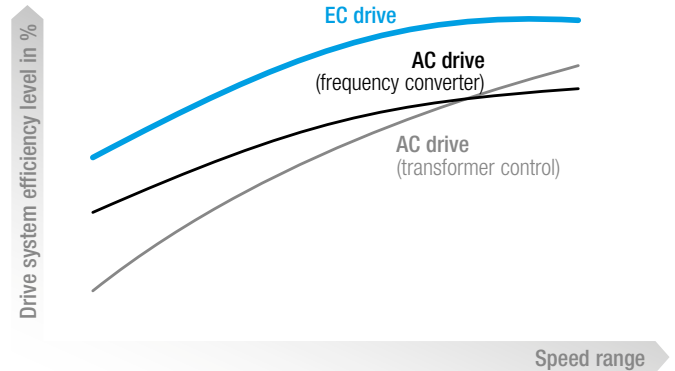
The new DDMP, with its high-efficiency EC drive system largely exceeds both the current and any proposed future requirement.



Fans rated according to their performance in installation type B



Comparison of the different levels of efficiency

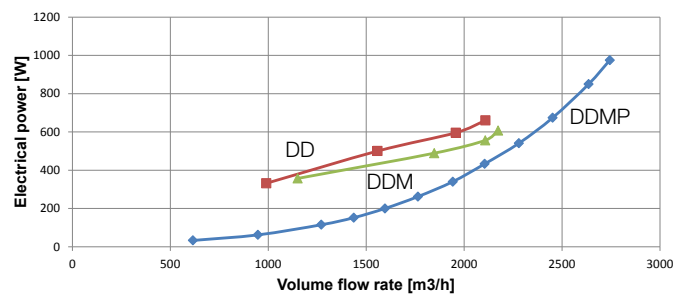


The EC-motor operates without slip losses and thus consumes significantly less power than conventional AC motors.

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.

Comparison energy consumption DD series



With the new DDMP you save year after year

The new DDMP - the advantages

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

- Compact solution
- Top rating efficiency
- Plug and play
- No configuration needed
- Low noise level
- High reliability
- EMC performance acc. to class C1 for all 1Ph versions, to class C2 for all 3-Ph versions
- Constant volume-flow-rate mode
- Master & slave mode, for stable operation in parallel

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 built-in control unit - reduced aerodynamic losses

General features

- Sensorless control
- Simple installation due to plug and play
- IP 54 for complete drive
- Designed for double inlet fans

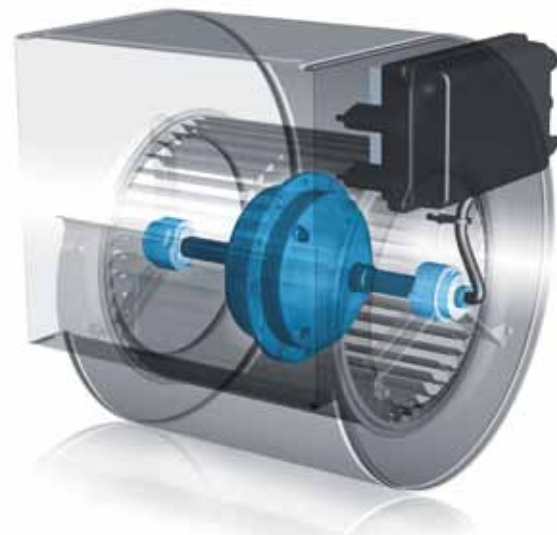
Interface

- Analogue interface for speed control
- Full MODBUS interface compliancy

High efficiency direct driven centrifugal fan

- Sizes*:
225/240 mm
7/7T to 12/12 inch
- Motor input power from 1.1 kW up to 2.6 kW
- Air volume up to 6000 m³/h
- Integrated electronics

* Smaller sizes with 200 W EC motor and small-power drive system upon request



DDMP inch-sized range 2018

Size	225/240 metric	7-7T	7-9T	7-7	7-9	8-7T	8-9T	9-7	9-9	10-8	10-10	12-9	12-12
Motor													
1 kW / 1 Ph	In production											Available 2018	
2 kW / 1 Ph	In production									Available 2018			
2,4 kW / 3 Ph	In production									Available 2018			

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