

DDMP

QUIET AND COMPACT EFFICIENCY



TIME IS MONEY

FIT FOR ERP 2020

In terms of energy efficiency, Nicotra Gebhardt® fan customers are ahead of the times. Our new direct driven centrifugal fan DDMP performs significantly beyond the strict minimum requirements of the ErP Directive.

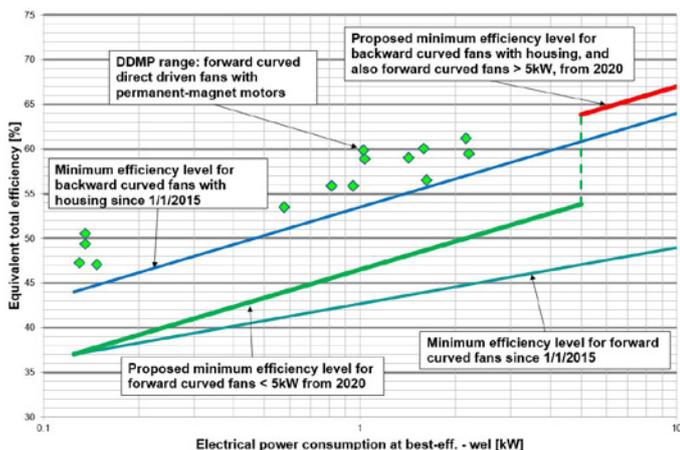
The new DDMP is driven by a particularly energy-efficient compact EC motor. These innovative motors achieve the highest efficiency and therefore cost less to operate than traditional AC motors in every application.

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

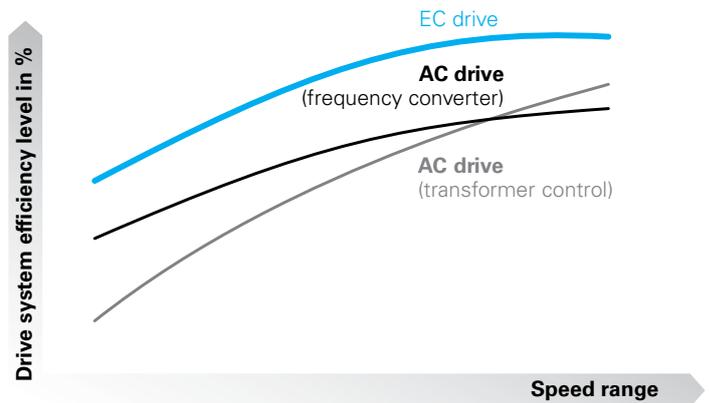
The new DDMP, with its high-efficiency EC drive system, largely exceeds both the current and any proposed future minimum efficiency requirement.



FANS RATED ACCORDING TO THEIR PERFORMANCE IN INSTALLATION TYPE B



COMPARISON OF THE DIFFERENT LEVELS OF EFFICIENCY

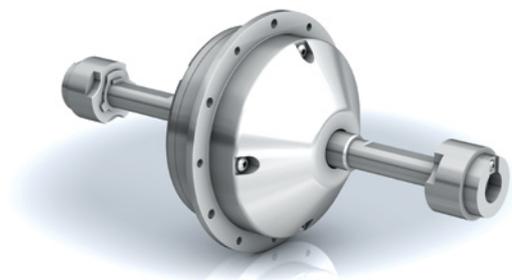
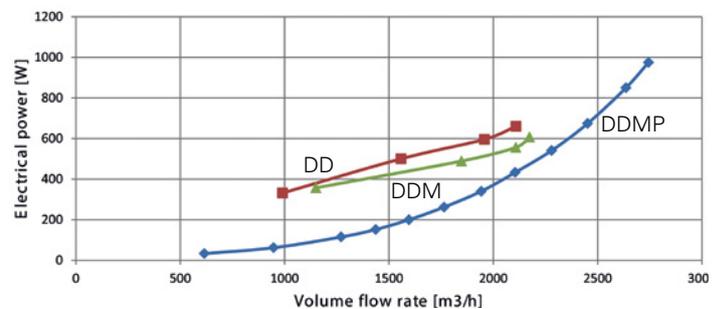


The EC motor operates without slip losses and thus consumes significantly less power than conventional AC motors.

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 compared to other conventional forward curved fans with scroll
- 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

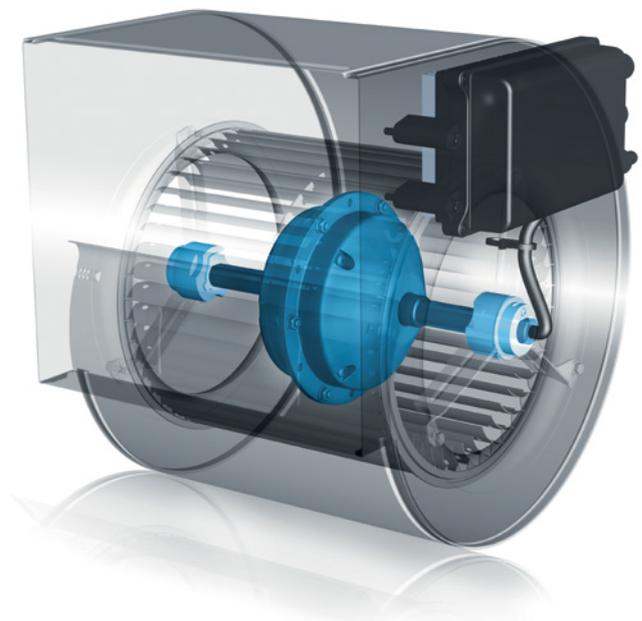
DDMP INCH-SIZED RANGE

Motor \ 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
1 kW / 1 Ph	In production												
2 kW / 1 Ph									In production				
2,6 kW / 3 Ph									Available 2018				

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 are available upon request.



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APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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