NICOTRA Gebhardt®

A REGAL REXNORD BRAND

DDMP

QUIRET AND COMPACT EFFICIENCY

RegalRexnord™

TIME IS MONEY

FIT FOR FUTURE

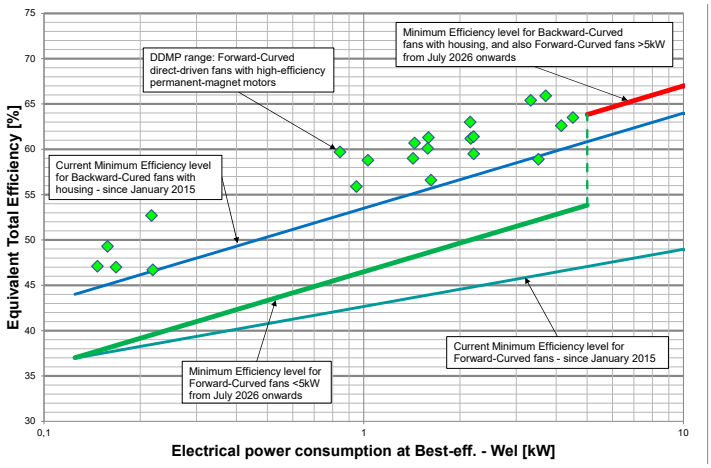
In terms of energy efficiency, Nicotra Gebhardt® fan customers are ahead of the times. Our new direct driven centrifugal fan DDMP performs significantly beyond the strict minimum requirements of the ErP Directive.

The new DDMP, with its high-efficiency EC drive system, largely exceeds both the current and future minimum efficiency requirements from reg. 327/11/EC and Reg. 2024/1834/UE.

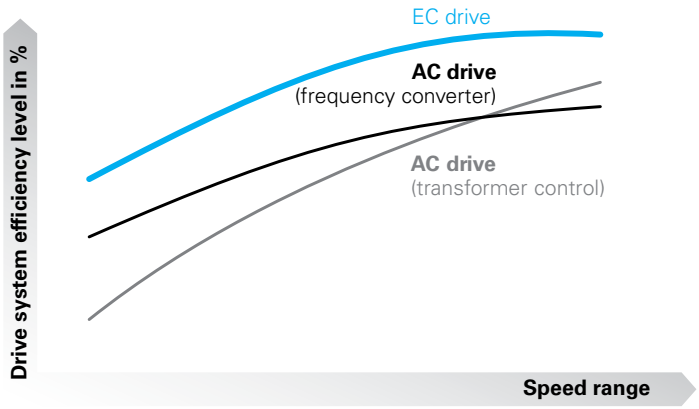
The EU's ErP Directive prescribes minimum levels of efficiency for fans. These minimum levels of efficiency will be steadily increased in the coming years.

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

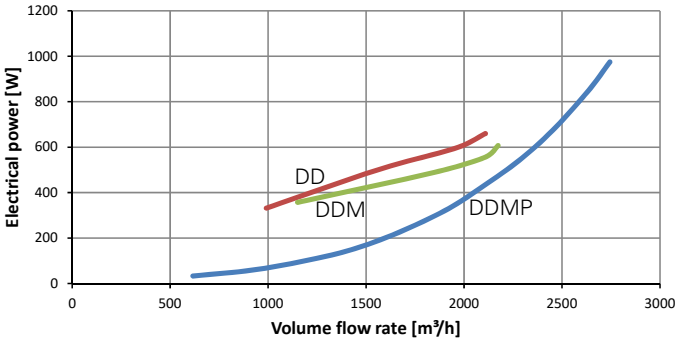


The EC motor operates without slip losses and thus consumes significantly less power than conventional AC motors.

IMPORTANT:

This advantage in efficiency (from both the motor and control) is large at nominal performance, but is even larger at part-load, where most fans operate for the majority of their running time. For this reason EC-driven fans provide a huge reduction of the yearly-averaged power consumption, in comparison with AC motors. Due to the higher power density, EC-drives may also pack more power into the same fan size, giving the opportunity to achieve fan performance levels significantly higher than allowed by AC-drives.

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 either class C2 or C1 for 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 in accordance with IE5
- 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 18/18 inch
- Motor input power from 1.1 kW up to 5.9 kW
- Air volume up to 12000 m³/h
- Integrated electronics

DDMP INCH-SIZED RANGE

Drive* \ 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	15/11	15/15	18/13	18-18
1 kW / 1 Ph	In production																
2 kW / 1 Ph									In production								
2,6 kW / 3 Ph									In production								
5,5 kW / 3 Ph												In production					

**Power values shown are the nominal power of the driver unit installed; the actual maximum power consumprion may change between different fan sizes.*

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