

# RDP

The efficient all-rounder



**NICOTRA** || **Gebhardt**

fan|tastic solutions

# The efficient all-rounder

## The new alternative to the classical belt-driven RDH

The fifteen year success of our RDH belt driven fans is now combining with the more recent success of the high-efficiency drive system developed for DDMP products.

A new lightweight aluminium impeller is the additional innovation of this project.

RDP is a single drop-in unit, integrating fan, motor and power-control unit.



## RDP is reducing all customer costs:

### 1) Lower purchase cost.

- Design optimized for mass production.
- No need for base frame, belt drive and protective guard.

### 2) Lower installation and setup costs.

- No further assembly operation.
- Plug and play electronics don't need configuring.

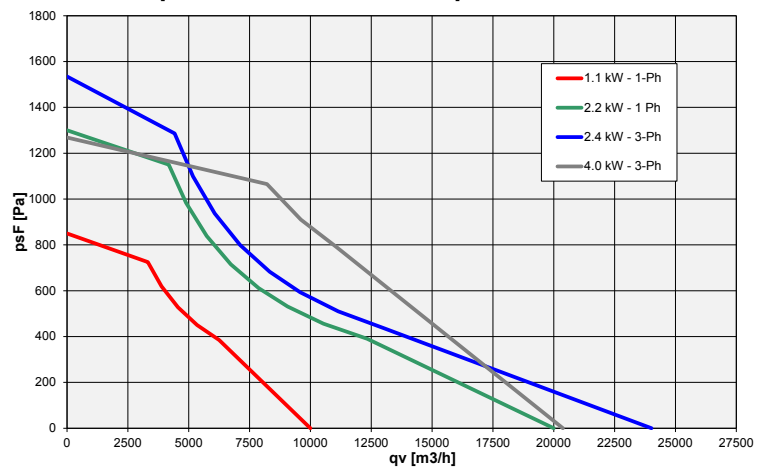
### 3) Low operational cost.

- IE5 EC direct-drive motors.
- No belt losses.
- Streamlined motor installation for optimum aerodynamics.

### 4) Low maintenance cost.

- No need for 6-monthly belt maintenance.
- Long-life maintenance-free bearings .

## RDP range - Planned expansion of the performance envelope



## Technical features

- All fan components are specifically designed to achieve the best integrated product.
- “one-piece” integrated solution.
- Top rating efficiency.
- Plug and play operation.
- No configuration needed.
- Low noise level.
- High reliability.

## General features

- Sensor-less control.
- Simple installation due to plug and play.
- Complete drive system IP 54.
- Designed for double inlet fans.
- C1 EMC compliancy on all range.

## Interface

- Analogue interface for speed control.
- Daisy chain connectivity.
- Master-slave function.
- Full MODBUS interface compliancy.

## Energy saving concept

- New high efficiency permanent magnet motor.
- New compact and streamlined motor design.
- High intensity neodymium magnets.
- No obstruction of intake flow due to the control unit, which is fitted to the side-plate.
- Less aerodynamic losses.



## RDP range 2018

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

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