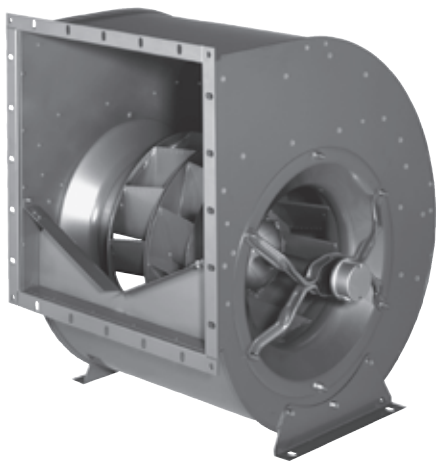




Highest system performance and best energy efficiency:  
The RZA rotavent serie

Economic, quiet and compact.  
Through the combination of two pioneering technologies - the aerodynamics of the rotavent impeller combined with energy efficient integral motors, Nicotra Gebhardt has developed a series of controllable direct drive centrifugal fans setting new standards for economy and quiet operation.

Your benefits:

A highly efficient system through the use of energy optimised components: fans, motors and frequency inverters, operating together in harmony.

- high efficiency
- low energy costs
- low noise
- compact and maintenance free fans
- flexible in its operation

We do it very precisely!

Or – Why you should not compare apples with pears!

Nicotra Gebhardt manufactures its centrifugal fans rotavent with tolerance class2 in compliance with DIN 24166. This gives you the necessary degree of security that you need when designing and planning ventilation installations.  
The tolerance class is also an important criterion for the objective comparison of fans. If you compare the price/performance ratio of two fans, you should also always take the tolerance class of each into account, only then do you avoid comparing “apples with pears”!



| Performance data               |                 | Deviations per tolerance class |       |       |
|--------------------------------|-----------------|--------------------------------|-------|-------|
|                                |                 | 1                              | 2     | 3     |
| Volume flow                    | q <sub>V</sub>  | 2.5 %                          | 5 %   | 10 %  |
| Pressure increase              | p <sub>F</sub>  | 2.5 %                          | 5 %   | 10 %  |
| Power consumption              | P               | +3 %                           | +8 %  | +16 % |
| Efficiency                     | η               | -2 %                           | -5 %  | -     |
| Sound power level (A weighted) | L <sub>WA</sub> | +3 dB                          | +4 dB | +6 dB |



**Nicotra Gebhardt RZA *rotavent***  
**The compact pioneering technology!**

**Optimal aerodynamics**

Low turbulence velocity for both inlet and discharge due to the large free cross section and minimal flow restraint of the impeller, an example of aerodynamics and performance of the *rotavent*.

**Acoustics**

Reduction of high frequency noise levels is just one of the advantages of the *rotavent*, together with optimised motors and frequency inverters.

Minimal sound levels due to low blade passing frequencies from the optimised impeller geometry of the *rotavent*. The impeller has obliquely inclined blades with trailing edges, and the throat plate is inclined opposingly.

**High efficiencies**

Nicotra Gebhardt fans of the RZA *rotavent* range are operating at high efficiency in wide area of the fan curve.

**Your benefits:**

- negligible sensitivity to built in disturbances
- minor pressure loss with free discharge operation
- smaller, yet greater energy performance

**Your benefits:**

- reduced size and costs of attenuation and silencers

**Your Benefits:**

- low running costs
- high efficiency

**The benefits of RZA *rotavent***

The high value and precisely manufactured components of *rotavent*, manufactured with most modern machinery for demanding tolerance standards, are the basis for a product range satisfying highest quality requirements.

| Version                                    | Description                                                                                                                                                                                                                                                 | Figure                                                                                |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>RZA 11-0225/-0560</b>                   | Lock formed scroll made of galvanised steel sheet, equipped with multi-position bolted brackets and discharge flange.<br>High performance impeller with backward curved true aerofoil blades, welded and coated.                                            |   |
| <b>The motors</b>                          | The motors are designed for high efficiencies with frequency inverter control, with inbuilt PTC-thermistors and aerodynamically optimised.<br><b>Benefits:</b><br>- improved economical operation<br>- high safety standard<br>- optimised motor protection |  |
| <b>The vibration free motor suspension</b> | The anti-vibration system, specially developed for this application, ensure smooth running of the unit without transmission of vibration to other parts of the installation or to the building.                                                             |  |
| <b>The easy connection</b>                 | through easy access to the metal connection box fitted to motor shaft.                                                                                                                                                                                      |  |
| <b>The trouble-free speed regulation</b>   | from 0 to 100 % by an efficient frequency inverter.<br><b>Benefits:</b><br>- high flexibility<br>- easy adaptation to varying operational conditions<br>- high efficiency at part load                                                                      |  |



**Оформить  
Заказ**