

RV 45 centrifugal fan

A quiet helper for medical technology and more.

ebmpapst

The engineer's choice



Dynamic air delivery for demanding applications:

The new RV 45 centrifugal fan guarantees a relaxing night's sleep. With its compact construction, highly dynamic pressurization performance and low operating noise, it is perfectly suited to the particular requirements of medical respirators. Precise closed-loop control of the pressure and air quantity enables it to support the body's own respiratory reflexes, which helps people who suffer from breathing interruptions while sleeping (sleep apnea). Alongside continuous positive airway pressure (CPAP) and automatic positive airway pressure (APAP), the RV 45 also supports two different pressure levels (Bi-PAP/bi-level PAP). At the same time, it features extremely efficient operation.

Due to its abundance of positive characteristics, the RV 45 is also suitable for a variety of industrial applications, such as fuel cells, smoke detection systems or packaging machinery.



Highly dynamic, extremely quiet.

Enjoy the following benefits:



Ingenious construction

- FDA-compliant materials: Completely harmless with regard to respiratory physiology
- Very compact thanks to new motor design
- Lightweight fan impeller for highly dynamic operation
- Extremely quiet and energy efficient
- External drive electronics required



High flexibility

- 12 or 24 V designs
- Voltage range: 8...30 VDC
- Main areas of application: Sleep therapy for sleep apnea devices (CPAP, APAP or Bi-PAP), secretion mobilization, industrial applications including fuel cells, smoke detection and packaging equipment
- Custom designs: Hall sensors and internal temperature sensor (NTC)



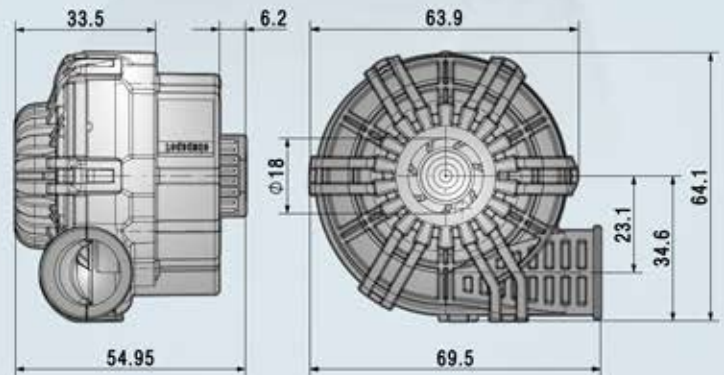
External drive electronics options

- Standard design for sensorless, available by ebm-papst
- Customer supplied sensorless or Hall sensor control



Impressive figures

- Compact dimensions: 64 x 64 x 55 mm
- Low weight: 135 g
- Low noise: 43.5 dB(A)
- Input power: 43 W
- Up to 420 l/min or 14.8 cfm
- Pressurization over 5,000 Pa (20 in. H₂O)
- Nominal speed: 40,000 rpm
- Temperature range: –20... to +70 °C



Dimensions in mm. Subject to technical changes.

