RV45

DC Centrifugal fan

ebmpapst

the engineer's choice

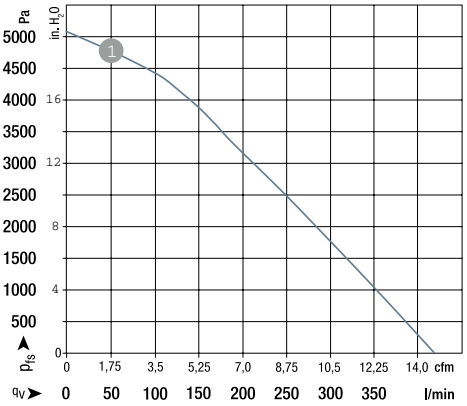
Highlights:

- Quiet-running: Exemplary noise level of just 49 dB(A)
- Very dynamic and top performance: Up to 100 rev/ms
- Static pressure increase of over 5,000 Pa.
- Intelligent design: Highly compact outer dimensions and weighs only 135 grams (4.8 oz)

Nominal data

Type	Item number	Air flow l/min	Air flow cfm	Nominal voltage VDC^{-1}	Voltage range * VDC	Sound pressure ** dB(A)	with Hall sensors / without Hall sensors	Power consumption W	Nominal speed rpm	Temperature range °C	Service life L_{10} (20°C) ebm-papst standard Hours	Service life L_{10} (T_{max}) ebm-papst standard Hours	Life expectancy L_{10}, IPC (25°C)	Characteristic curve
RV45-3/14	**9593505001**	410	14.5	24	7...30	49	■	43	40,000	-20...+70	22,500/7,500		50,000	❶
RV45-3/14S	**9593505002**	410	14.5	24	7...30	49	□	43	40,000	-20...+70	22,500/7,500		50,000	❶

* Depending on the customer's actuation electronics.
** Measured at 1,000 Pa and a distance of 1 m above the intake side.
Blower with hose and standard resistor with 4 mm inside diameter, a length of 40 mm and a 45° outlet angle.
All dimensions in mm.



Breathing device applications demand fans with highly dynamic characteristics. A high pressure is required at the start of the breathing sequence and a low pressure at the end. In practice, that means pressure fluctuations between 400 Pa and 2000 Pa. With a centrifugal impeller, the flow quantity and delivery pressure increase with increasing speed. The high nominal speed of 40,000 rpm thus produces dynamic power output – with a compact design.