

Max. 104 m<sup>3</sup>/h

# DC centrifugal fans

Ø 104 x 25 mm



- **Material:** Impeller: GRP<sup>1)</sup>
  - **Direction of air flow:** Axial: Intake,  
Centrifugal: Exhaust
  - **Direction of rotation:** Clockwise,  
looking towards rotor
  - **Connection:** via single wires AWG 22, TR 64
  - **Highlights:** Backward-curved impeller
  - **Weight:** 160 g
- **Possible special versions:**  
(See chapter DC fans - specials)
    - Speed signal
    - Go / NoGo alarm
    - Alarm with speed limit
    - External temperature sensor
    - Internal temperature sensor
    - PWM control input
    - Analog control input
    - Moisture protection
    - Degree of protection: IP 54

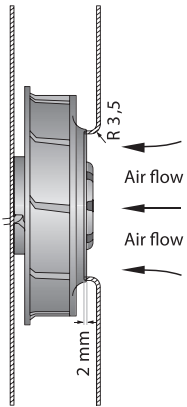
1) Fiberglass-reinforced plastic

Series REF 100  
VBS0104XUGBS

**Nominal data**

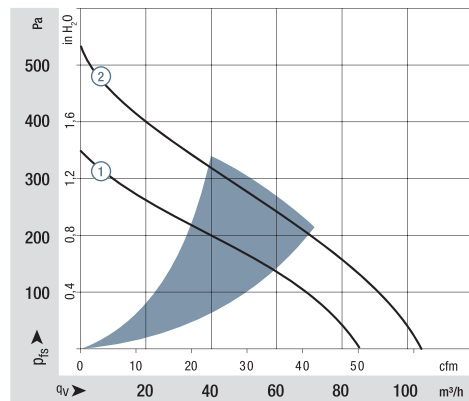
Type	Air flow		Nominal voltage	Voltage range		Sound power level	Sinter sleeve bearings Ball bearings	Power consumption	Nominal speed	Temperature range	Service life L <sub>10</sub> (40 °C) ebm-papst standard	Service life L <sub>10</sub> (T <sub>max</sub> ) ebm-papst standard	Life expectancy L <sub>10</sub> IPC (40 °C) see page 15	Curve
	m <sup>3</sup> /h	cfm		VDC	VDC									
REF 100-11/12	86	50.6	12	8...15	6.3	■	7.5	5 400	-20...+75	80 000 / 30 000	135 000	①		
REF 100-11/14	86	50.6	24	16...30	6.3	■	7.5	5 400	-20...+75	80 000 / 30 000	135 000	①		
REF 100-11/18/2	86	50.6	48	36...60	6.3	■	8.2	5 400	-20...+75	80 000 / 30 000	135 000	①		
REF 100-11/18 H	104	61.2	48	36...56	6.9	■	14.8	6 700	-20...+70	67 500 / 32 500	115 000	②		

Subject to change



The air flow and sound level of the centrifugal fans without external housing depend on their individual installation conditions.

The stated air flow and sound level were recorded under the following measurement parameters:  
Centrifugal fan mounted on a foundation plate 127 x 127 mm.  
Cover plate 127 x 127 mm, with an air inlet opening Ø 70 mm, arranged concentrically to the impeller.



Air performance measured according to: ISO 5801.  
Installation category A, with ebm-papst inlet ring without contact protection.  
Noise: Total sound power level L<sub>WA</sub> ISO 10302 measured on a hemisphere with a distance of 2 m;  
Sound pressure level L<sub>pA</sub> measured at 1 m distance from fan axis.  
The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.  
In the event of deviation from the standard configuration, the parameters must be checked after installation!  
For detailed information see <http://www.ebmpapst.com/general conditions>

