

S-Force

DC centrifugal fans

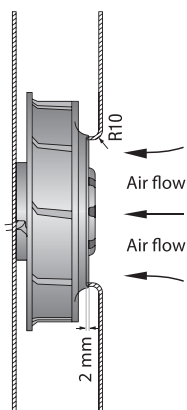
Ø 175 x 69 mm



- **Material:** Impeller: GRP¹⁾
- **Direction of air flow:** Axial: Intake,
Centrifugal: Exhaust
- **Direction of rotation:** Clockwise,
looking towards rotor
- **Connection:** Via single wires AWG 18, 20 or
AWG 22, TR 64, speed signal
and control input AWG 22
- **Highlights:** Highly efficient and smoothly
operating 3-phase fan drive
Backward-curved impeller
- **Weight:** 775 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
 - Multi-option control input
 - Moisture protection
 - Salt spray protection
 - Degree of protection: IP 54

1) Fiberglass-reinforced plastic

Series RER 175 TD													
Nominal data	Air flow	Air flow	Nominal voltage	Voltage range	Sound power level	Sinter sleeve bearings Ball bearings	Power consumption	Nominal speed	Temperature range	Service life L ₁₀ (40 °C) ebm-papst standard	Service life L ₁₀ (T _{max}) ebm-papst standard	Life expectancy L ₁₀ IPC (40 °C) see page 17	Curve
Type	m³/h	cfm	VDC	VDC	Bel(A)	 	Watts	rpm ⁻¹	°C	Hours	Hours		
RER 175-42/14/2 TDMLP	600	353	24	16...30	7.3		48	3 400	-20...+65	72 500 / 40 000	122 500	①	
RER 175-42/14/2 TDMP	865	509	24	16...36	8.2		110	4 800	-20...+65	70 000 / 40 000	117 500	②	
RER 175-42/18/2 TDMLP	600	353	48	36...57	7.3		46	3 400	-20...+65	72 500 / 40 000	122 500	①	
RER 175-42/18/2 TDMP*	865	509	48	36...72	8.2		110	4 800	-20...+65	70 000 / 40 000	117 500	②	
RER 175-42/18/2 TDP	980	577	48	36...72	8.5		166	5 400	-20...+65	60 000 / 32 500	102 500	③	
Subject to change * On request	Speed control range from 800 rpm ⁻¹ at 7% PWM up to nominal speed at > 90% PWM. Standstill at 0% PWM, maximum speed if control cable is interrupted.												

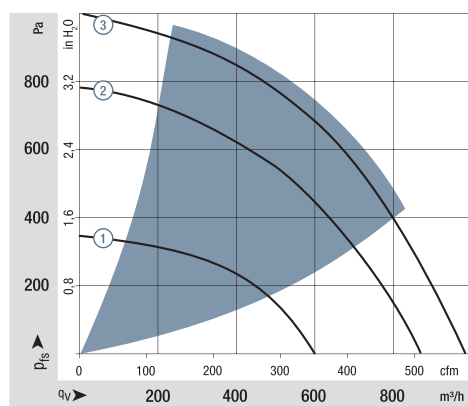


The air flow and sound level of the centrifugal fans without external housing depend on their individual installation conditions.

The stated air flow and sound level were recorded under the following measurement parameters:

Centrifugal fan mounted on a foundation plate
180 x 180 mm.

Cover plate 180 x 180 mm, with an air inlet opening $\varnothing$ 125.5 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_{WA} ISO 103002
measured on a hemisphere with a distance of 2 m;

Sound p
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

