

Max. 1250 m³/h
S-Force

DC centrifugal fans – RadiCal

Ø 221 x 71 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:** 940 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
 - Humidity protection
 - Salt spray protection
 - Degree of protection: IP 54

1) Fiberglass-reinforced plastic

Series RER 220 TD

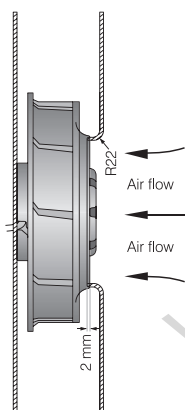
Nominal data

	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	m ³ /h	cfm	VDC	VDC	Bel(A)	■ / ■	Watts	rpm ⁻¹	°C	Hours	Hours	Hours	
RER 220-43/14/2 TDMO*	1063	625	24	16...36	tbd	■	110	3 000	-20...+55	65 000 / 45 000	110 000	110 000	①
RER 220-43/18/2 TDMO	1063	625	48	36...72	tbd	■	110	3 000	-20...+55	65 000 / 45 000	110 000	110 000	①
RER 220-43/18/2 TDO	1250	735	48	36...72	tbd	■	160	3 500	-20...+55	60 000 / 42 500	102 500	102 500	②

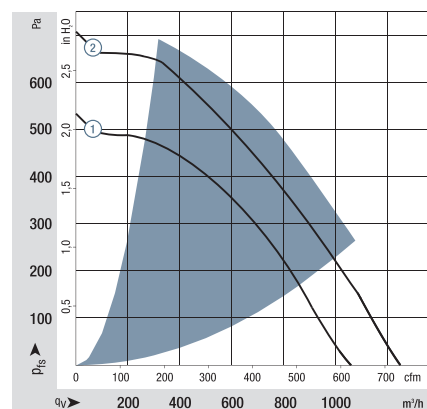
Subject to change

* On request

Speed control range from 800 rpm⁻¹ at 7% PWM up to nominal speed at > 90% PWM. Standstill at 0% PWM, Standstill 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 230 x 230 mm.
Cover plate 230 x 230 mm, with an air inlet opening Ø 155 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 LWA ISO 103002 measured on a hemisphere with a distance of 2 m.
Sound pressure level LpA 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>

