



Specification of: RGA 31-3540-4X-3G

Roof exhaust fans Gebhardt ergovent

Fan in explosion protected execution acc. to EU regulations 94/9/EG(ATEX). Category 3G (IIG c IIA T3) suitable for media temperatures of - 20 °C up to + 40 °C. Stylish cowl made of metal. Base frame of galvanised sheet steel for fitting to upstand, projecting well beyond the upstand in order to increase weatherproofing. Flange connection at intake acc. to DIN 24155-2 Protection grid at discharge High performance centrifugal impeller with backward curved blades fitted to the rotor of an integrated motor. Motor maintenance free, vibration isolated, and fully protected by PTC thermistors Fan speed controlled by voltage variation through transformer (Min. voltage 115 V) Performance data in according DIN 24166 tolerance class 2 (BS 848 Class "B").

Technical data of the fan acc. to ATEX: RGA 31-3540-4X-3G

ErP-directive not applicable

Description	Value Dimension
Specified duty point	
Air flow rate (V)	4496 m ³ /h
Static pressure rise (dp _{ra})	6 Pa
Actual duty point	
Installation acc. DIN 24163 Part 1	A
Reference density (Rho1)	1.15 kg/m ³
Medium temperature (t)	20 C
Air flow rate (V)	4501 m ³ /h
Static pressure increase (dp _{ra})	6 Pa
fan speed (n _v)	- min ⁻¹
Absorbed power (P ₁)	- kW
Current (I)	- A
Static system efficiency (ETA _{raS})	- %
Specific Fan Power (SFP-factor)	- W/(m ³ /s)
Nozzle calibration factor (K ₁₀)	- m ² /s/h
Differential pressure on nozzle (dp _D)	- Pa
Velocity at discharge area (c)	- m/s
Fan weight	27 kg
A-weighted sound power level discharge/intake LwA _{B/3}	78/78 dB
Unweighted octave sound power level	Octave mid frequencies ¹⁾ 63/125/250/500/1k/2k/4k/8k Hz 73/79/77/74/73/71/65/61 dB discharge LwOkt ₈ 83/89/79/75/68/66/59/56 dB intake LwOkt ₃
¹⁾ The octave sound power levels can be higher at octave bands at or close to blade passing frequency.	
Rated data	
Phase-Voltage-Frequency	3~400 D-50 V-Hz
Number of poles:	4
Motor rating (P _N)	- kW
Max. absorbed power (P _{1max})	0.49 kW
Rated motor speed (n _N)	1290 min ⁻¹
Rated motor current (I _N)	0.92 A
Capacitor (C)	- µF
Temperature range of conveying medium (t _{min} ... t _{max})	-20...40 C

Fan curve to RGA 31-3540-4X-3G



