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Twin Radial Blower DRG 600



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A U R O R A Konrad G. Schulz GmbH & Co. KG Tel.: 0 62 84 / 92 02-0 info@aurora-eos.com www.aurora-eos.com

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1. Safety advises

- The blower is principle maintenance- and service-free. If there is maintenance work to do, make sure it is to be carried out only when the motor is not running. In order to avoid injuries, the blower is to be separated from the current circuit.
- Make sure that maintenance work is only carried out by specialised personnel.
- Do not reach into the blower and never stick objects into it.
- Please do not get into contact with the resistor on the blower, if it has not completely cooled down.

Advice for installation and maintenance work:

The rules for the prevention of accidents as well as other recognises technical and labour medical security regulations must be observed.

2. Usage

The twin radial blower DRG 600 can be supplied as a basic version or as versions with more speed levels and are used for powerful usage in heaters.

3. Construction

3.1 Parts

The twin radial blower consists of the following parts

- motor and 2 radial wheels and inner rings = fan unit
- lower part, cover, outer rings
- Resistor with micro-temperature-fuse MTF, clip (versions with several speed level)
- cable set (versions with several speed level)

3.2 Material

All housing parts and the wheels are made out of plastic granulate polyamide PA6, 35% glass-fibrereinforcement. This material is UL-listed, has a high temperature-resistant and because of the glass-fibrereinforcement a high stability.

3.3 Speed control

The different blower speeds are achieved using a dropping resistor. The dropping resistor is a cemented ceramic resistor.

The blower is protected from overload and a possible burning danger with a micro-temperature- fuse (MTF) installed at the resistor.

Circuit diagramm for 3-speed version:



Caution! The vehicle side fuse protection of 7,5A at 24V or 15A at 12V has to be made by the customer.

3.4 Cable set

The used wires are unscreened low tensions wires with thin-wall isolation for road vehicles. FLRY with colour marking of wires according to DIN IEC 304.

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The air enters axial into the fan wheels, then the air will be radial turned round and leaves on the area vertical to the suction direction.

Note: the blower carbon brush is a wearing part. If the carbon brushes are outworn, defective or contaminated, the motor will not run or not in a suitable way.

At any service interval (depending on usage situation) the blower function has to be checked and the blower has to be changed, if necessary.

The check of the blower in a disconnected state:

- optical check on
 - physical damage on the housing, the air grille or the fan wheel
 - contamination, dust, corrosion and other, that impair the function
- stiffness

Then a function check is recommended

- abnormal noises
- uneven running
- fluctuating current consumption
- a decrease of air flow rate
- blower don't run under voltage any more

If one or more of these impairments apply, the blower function is not given any more and the blower has to be replaced.

During check pay attention to the necessary safety advises (chapter 1)

5. Technical data

	DRG 600
nominal voltage	12V/24V
test voltage	13V/26V
air discharge flow	620 m³/h
acceptable ambient temperature	-40℃ to +85℃
range	
weight	ca. 1,4 kg
isolation class	B acc. EN60335-1

	speed 1	speed 2	speed 3
V _{air} in m³/h	310	430	620
Pel in W	65	105	190
Lp in dB(A)	60	65	72,5

data without system resistance (free-blowing)

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6. Dimensions DRG 600:





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7. Installation

Hole pattern for DRG 600



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Installation instructions:

For reliable operation of the DRG, the maximum fan bracing of 1 mm are not exceeded. Provision shall be made for a suitably flat mounting surface.



to illustrate:



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8. Characteristic curve

