



FANS FOR RAILWAY



2012

High quality ECOFIT fans for Railway Applications

ECOFIT can offer a complete selection of fan solutions to railway OEM's as well as customised air movement products based on customer's specifications and requirements.

ECOFIT fan solutions are available in single or double inlet forward curved centrifugal blowers, backward curved motorised impellers and axial flow construction.

A wider range of railway specification products are also available from our Group with ETRI (compact frame axial fans and high performance fans) and Rosenberg (up to Ø1000mm for axials and Ø630 for centrifugal fans).

ECOFIT railway fan solutions feature:

Wide range of airflow

Low maintenance

Low noise levels

Wide range of operating voltages, including:

- Single phase or three phase - 230/400/480Volts 50/60Hz***
- DC Voltages - 24/48/72 or 110VDC***

Maximum efficiency

Speed controllability

Compact assemblies

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Range information

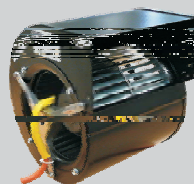
Double inlet forward curved centrifugal fans: GDS/GDF series

- forward curved double inlet centrifugal impeller (120 to 160mm)
- variable mounting positions possible
- air volumes up to 1.475 m³/h (868 cfm)
- total pressure increase up to 655 Pa (2.6 "WG)

Typical application:

Air conditioning of the passenger cabin
Electronics and components cooling

Railway fan example



2GDFt65 160x160L

Frequency and temperature range:
50 Hz: -40°C mini +70°C maxi
Airflow: 720 m³/h at 360 Pa
Weight: 6 Kg
Voltage: 400V
Input power: 244 Wa
Current: 0,4 A
Speed: 2225 Rpm

Backward curved motorised impeller: RRE series

- impeller with backward curved blades
- compact assembly
- easy to mount / low maintenance
- air volumes up to 1.905 m³/h (1.121 cfm)
- total pressure increase up to 830 Pa (3.3 "WG)

Typical application:

Air conditioning of the driver's cab
Electronics cooling



2RREt45 250x56R inverse

Frequency and temperature range:
50 Hz / 60Hz: -20°C mini +70°C maxi
Airflow: 700 m³/h at 280 Pa
Weight: 4,1 Kg
Voltage: 400V
Input power: 156 - 203 Wa
Current: 0,34 - 0,36 A
Speed: 2620 - 2865 Rpm

Single inlet forward centrifugal fans: GRE/GRF series

- forward curved single inlet centrifugal fan (120 to 180mm)
- variable mounting positions possible
- air volumes up to 785 m³/h (462 cfm)
- total pressure increase up to 910 Pa (3.65 "WG)

Typical application:

Air conditioning of the driver cabin
Electronics and components cooling



2GRFt65 180x52R

Frequency and temperature range:
50 Hz: -40°C mini +50°C maxi
Airflow: 450 m³/h at 380 Pa
Weight: 6,1 Kg
Voltage: 415V
Input power: 245 Wa
Current: 0,38 A
Speed: 1815 Rpm

Axial fans: VGV series

- mounted on reinforces ring
- compact assembly
- air volumes up to 2625 m³/h (1.545 cfm)
- total pressure increase up to 120 Pa (0.5 "WG)
- choice of airflow direction A or V, diameters 200, 250 and 300mm)

Typical application:

Air conditioning of the driver's cab
Electronics and components cooling



2VGVt45 250A

Frequency and temperature range:
50 Hz / 60 Hz: -20°C mini +70°C maxi
Airflow: 1500 m³/h at 85 Pa
Weight: 4,5 Kg
Voltage: 400V
Input power: 176 - 244 Wa
Current: 0,40 - 0,43 A
Speed: 2610 - 2845 Rpm

Special features:

Halogen free cable to multitude of standards
Stainless steel metric screws
Special stator encapsulation for $dV/dt < 2500V/\mu s$
Motor protected against humidity
Sealed ball bearings type 2RS (hybrid ball bearing on request)
TK Thermal protector with leads out of motor
IP55 motor protection
Reinforced inlet & finger guard



A key partner in ventilation solutions

ECOFIT was established in 1976 to design, manufacture and sell electric motors and fans. Standard products ranges offer is completed by solutions developed in partnership, either based on models, or using customer's specifications.

High quality fans

ECOFIT has been known for more than 35 years as a global leader in ventilation products, and carries on its tradition of excellence using innovative designs and materials to produce high quality fans and blowers, through its ISO 9001 certified manufacturing plant. Most of can be UL, CSA and CCC approved, according to the European directives, they comply with EMI and electrical safety standards.

An international presence

ECOFIT offers an international presence through its network of local offices distributors and representative offices in more than 50 countries. Complete list is available on our web site.

www.ecofit.com

Your local agency or distributor:



About Rosenberg...

Rosenberg is a competitive medium sized company with around 1400 employees worldwide.

During the last 30 years the Rosenberg group has been complemented in Europe by six additional works in France, Italy, Hungary, Czech Republic and Germany, in addition to the numerous subsidiaries and partners around the world.

Our aim is for high quality production backed by top class service for our customers. Thus a continuous flow of information and good cooperation between you, our dear customers, and us is most important, to jointly achieve a continuous evolution of our products and their quality.

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