

# ETRI®

## FANS FOR RAILWAY



2012

# ETRI fans for higher railway requirements

ETRI offer a complete selection of fan solutions for railway applications as well as customised air movement products based on customer's specifications and requirements.

ETRI fan solutions are available in axial flow construction, from 80mm square frame up to high performance Ø300mm

A wider range of railway specification products are also available from our Group including Ecofit (single or double inlet forward curved centrifugal blowers, backward curved motorised impellers and axial flow construction) and Rosenberg (up to Ø1000mm for axials and Ø630 for centrifugal fans).

## ***ETRI railway fan solutions feature :***

***Optimal airflow***

***Wide power range - Up to 640Wa***

***Low maintenance***

***Low noise levels***

***Wide range of operating voltages, including:***

- Single or three phase - 115/200Volts 400Hz***
- Single or Three phase - 250Volts 250Hz***
- Three phase - 230/400/480Volts 50/60Hz***
- DC - 24/48/72/110 Volts***

***Maximum efficiency***

***Speed controllability***

***Compact assemblies***

***Smooth operation***

# ETRI fans for higher railway requirements

## Range information

### Mixed flow DC frame axial fan

- reliable operation even under high conditions
- full resin-encapsulated winding & electronic pcb board
- compact assembly (Ø200 mm impeller)
- air volumes up to 1.000 m<sup>3</sup>/h (580 cfm)
- total pressure up to 950 Pa (3.8 "WG)

#### Typical application:

Electronics cooling

### High performance DC compact axial fans

- aluminium housing and plastic impeller (UL94 VO)
- optimised airflow
- optimised design for ultimate efficiency ratio airflow / noise
- compact assembly (Ø200 mm impeller)
- air volumes up to 965 m<sup>3</sup>/h (568 cfm)
- total pressure up to 960 Pa (3.86 "WG)

#### Typical application:

Power block cooling

### High performance AC axial fans: Ø300mm

- aluminium housing and impeller
- high pressure
- high reliability
- optimised design for ultimate efficiency ration airflow / size
- air volumes up to 2.160 m<sup>3</sup>/h (2.271 cfm)
- total pressure up to 1422 Pa (5.71 "WG)

#### Typical application:

Power block cooling

### DC tailor-made fan tray

- easily removal for maintenance
- 110VDC version
- railway specifications:
  - shock & vibration protected
  - railway specific connector

#### Typical application:

Cooling system within drivers cabin

## Railway fan example



200DW\*LM11000

200D series  
Voltage: 28, 48, 72 or 110V  
Temperature range: -30°C mini +60°C maxi  
Airflow: 750 m<sup>3</sup>/h at 280 Pa (0-10V control)  
Weight: 2,5 Kg  
Input power: 170 to 180 Wa  
Speed: 5000 - 5200 Rpm



63DBV01E6000

63DBV series  
Voltage: 28V  
Temperature range: -25°C mini +70°C maxi  
Airflow: 605 m<sup>3</sup>/h at 430 Pa  
Weight: 2,5 Kg  
Input power: 170 - 180 Wa  
Speed: 5000 - 5200 Rpm  
0-10V input control (constant speed)



97CJ116DC13

97CJ series  
Voltage: 220 - 380V three phase  
Frequency and Temperature range:  
50 Hz / 60Hz: -10°C mini +70°C maxi  
Airflow: 1200 m<sup>3</sup>/h at 600 Pa  
Weight: 17 Kg  
Input power: 300 - 350 Wa  
Speed: from 2850 to 3300 Rpm



Rack 1U - 110VDC

Voltage: 110VDC  
Frequency and Temperature range:  
-25°C mini +70°C maxi  
Airflow: 1000 m<sup>3</sup>/h at 90 Pa (6 fans at 110VDC)  
Weight: 5 Kg  
Input power: 40 Wa  
Current: 0,37 A

## Special features:

**CEI 11170 standard for fire and smokes on request**  
**Halogen free cable to multitude of standards**  
**Stainless steel metric screws**  
**Railway specification connectors on request**  
**Motor protected against humidity**  
**Ball bearings type RS or hybrid on request**  
**Motor protection to IP55 or IP65 on request**

# ETRI®

## **A key partner in cooling solutions**

ETRI's comprehensive fan line includes over 7000 fans which operate under a wide variety of voltages and frequencies. Thanks to extensive designing and testing equipment, our engineers are able to offer the best technical solution suitable to various applications, such as industrial, electronics, telecom, railway or military.

## **High quality fans**

ETRI has been known for more than 60 years as a global leader in cooling products, and carries on its tradition of excellence using innovative designs and materials to produce high quality fans and blowers, through its ISO 9002 certified manufacturing plant. Most of ETRI fans are UL, CSA approved, and according to the European directives, they comply with EMI and electrical safety standards. Certificates are available on request.

## **An international presence**

ETRI offers an international presence through its network of local offices (Europe & USA) distributors and representative offices in more than 50 countries. Complete list is available on our web site.

[www.etrinet.com](http://www.etrinet.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 clients. 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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