AC Axial Fans
We are proud to form a part of the ROSENBERG family:

Rosenberg Ventilatoren GmbH
Künzelsau, Germany

ECOFIT S.A.
Vendôme, France

- Technical Expertise & Application Engineering
- Outstanding Customer Service
- Design Flexibility & Custom Fan/Motor Equipment
- Stock Fans for Immediate Shipment
- Full Line of Accessory Products & Controls
- Value Added Fabrication

Visit ETRI on line at: www.etrinet.com

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AC Axial Fans

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<tr>
<th>Catalogue data</th>
<th>Page</th>
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<tbody>
<tr>
<td>Ø 80 x 25 mm</td>
<td>1</td>
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<tr>
<td>80 x 80 x 38 mm</td>
<td>2</td>
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<tr>
<td>92 x 92 x 25 mm</td>
<td>3</td>
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<td>120 x 120 x 38 mm</td>
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<tr>
<td>172 x 150 x 38 mm</td>
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<td>Ø 172 x 50 mm</td>
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The following data tables give the main characteristics of our standard fans; for detailed information or specific request, call our local sales team.

Les tableaux suivants indiquent les caractéristiques principales de nos ventilateurs standards ; pour des informations plus détaillées ou des demandes spécifiques, contactez nos équipes techniques et commerciales.
Catalogue data

In this AC Axial Fans catalogue, we offer models which are in general use. Our standard product range includes many other versions with variations in supply voltage and speed. Specific fans are available and can be made to customers specification. Our application engineers work constantly with our customers specification to offer the best fan selection. In this way, many special units are produced both for commercial and military applications. Our test laboratories in Vendôme (France) are available for customers to test their prototype equipment in order to determine the optimum cooling solution.

Further products catalogues:
- DC Axial Fans
- 400 Hz Fans
- High Performance Fans
- Accessories

All the datasheets are still available on the website: www.etrinet.com

AERODYNAMIC CURVES

The aerodynamic graphs are constructed using a test chamber and method described in CCT Standard 18.10. They are drawn up for an air density of 1.2 kg/m³.

**EXEMPLE OF CODIFICATION**

<table>
<thead>
<tr>
<th>Series code</th>
<th>Speed</th>
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<tr>
<td>125 XR 0 1 81 000</td>
<td></td>
</tr>
<tr>
<td>148 VK 0 2 81 000</td>
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</table>

Construction code: 0 = ball bearings; 5 = high temperature fan
2 = standard; 4 = speed sensor
Voltage: 81 = 208-240 V; 82 = 115 V; 8L = 24 V;
Design code: 000 standard version;
XXX = option (salt spray protection, tropicalization...)

**ELECTRICAL, AERODYNAMIC AND INDUSTRIAL DATA**

The following information can be found in the data tables:
* Nominal voltages
* Rated speed which is an approximate value of the fan speed operating at free air
* Power consumption and line current at free air
* Maximum static pressure corresponding to the pressure at no flow condition
* Maximum air delivery corresponding to airflow at no static pressure value
* Total noise level in decibels from the equilibrium curve at a measured 1 meter from the air inlet, the fan operating in free air.

**TOLERANCES**

The values shown in the data tables and the various curves have been measured from standard design equipment and should be considered nominal. Without particular specifications, we accept the tolerances given at the beginning of each catalogue. Drawings: without particular specifications, we accept a tolerance of ± 1 mm.
AC Axial Fans

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**Life expectancy**

L-10 LIFE AT 40°C: 80 000 hours

**Approvals**

CE RoHS

**AC Motor**

Electrical protection: impedance protected

Housing material: zamak

Impeller material: plastic UL 94 VO

Weight: 300 g

Bearing system: ball bearings

---

### Part Number Nominal voltage Airflow Noise level Nominal speed Frequency Phases Capacitor Input Power Nominal current Starting current Connection type Operating temperature

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal voltage</th>
<th>Airflow</th>
<th>Noise level</th>
<th>Nominal speed</th>
<th>Frequency</th>
<th>Phases</th>
<th>Capacitor</th>
<th>Input Power</th>
<th>Nominal current</th>
<th>Starting current</th>
<th>Connection type</th>
<th>Operating temperature</th>
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<tr>
<td>146DF0181000</td>
<td>208-240</td>
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<td>26</td>
<td>2500</td>
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<td>1</td>
<td>11</td>
<td>60</td>
<td>70</td>
<td>X</td>
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<td>70</td>
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<td>146DF0182000</td>
<td>115</td>
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<td>32</td>
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<td>50</td>
<td>60</td>
<td>X</td>
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<td>70</td>
</tr>
</tbody>
</table>

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**Additional versions:**

- Shock and vibration protected - salt spray protected - marine specifications - wide temperature range
- IP54: consult factory

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**Accessories:**

Refer to Accessories leaflet

**Accessories:**

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- ETRI is a trademark of ECOFIT
### AC Motor
- Electrical protection: impedance protected
- Housing material: zamak
- Impeller material: plastic UL 94 VO
- Weight: 400 g
- Bearing system: ball bearings

### Life expectancy
- L-10 LIFE AT 40°C: 80,000 hours

### Additional versions:
- Shock and vibration protected - wide temperature range
- IP54: consult factory

### Accessories:
- Refer to Accessories leaflet

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**AC Axial Fans**

**80 x 80 x 38 mm**

### Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal Voltage</th>
<th>Airflow</th>
<th>Noise Level</th>
<th>Nominal Speed</th>
<th>Frequency</th>
<th>Phases</th>
<th>Capacitor</th>
<th>Input Power</th>
<th>Nominal Current</th>
<th>Starting Current</th>
<th>Connection Type</th>
<th>Operating Temperature</th>
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<tbody>
<tr>
<td>126LH0182000</td>
<td>115 V (208-240V)</td>
<td>6 l/s</td>
<td>10 dB(A)</td>
<td>1350 RPM</td>
<td>50 Hz</td>
<td>1 µF</td>
<td>5 W</td>
<td>50 mA</td>
<td>60 mA</td>
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<td>-10°C to 70°C</td>
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<td>4</td>
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<td>126LJ0182000</td>
<td>115</td>
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</table>

- **Input Power:** Electrical protection: impedance protected
- **Nominal Current:** Housing material: zamak
- **Starting Current:** Impeller material: plastic UL 94 VO
- **Connection Type:** Weight: 400 g
- **Operating Temperature:** Bearing system: ball bearings

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**Accessories:**
- Refer to Accessories leaflet

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AC Axial Fans

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Approvals

Life expectancy
L-10 LIFE AT 40°C: 80 000 hours

AC Motor
Electrical protection: impedance protected
Housing material: zamak
Impeller material: plastic UL 94 VO
Weight: 395 g
Bearing system: ball bearings

Available with:
- Flying leads
- Speed sensor

Part Number Nominal voltage Nominal Airflow Noise speed Frequency Phases Capacitor Input Power Nominal current Starting current Connection type Operating connection Min.°C Max.°C


99XM0182000 115 15 25 1800 50 1 7 75 80 X -10 70

99XM0181000 208-240 12 32 2200 50 1 8 50 60 X -10 70

99XW0182000 115 14 35,5 2500 60 1 8 85 100 X -10 70

99XW0181000 208-240 12 32 2200 50 1 9 60 90 X -10 70

99XU0181000 208-240 18,5 42 3200 60 1 11 60 90 X -10 70

50Hz
- Flying leads
- Speed sensor

Additional versions:
Salt spray protected - shock and vibration protected - marine specifications - wide temperature range
IP54: consult factory

Accessories:
Refer to Accessories leaflet
**92 x 92 x 38 mm**

**Brushless DC Motor**
- Electrical protection: impedance protected
- Housing material: zamak
- Impeller material: plastic UL 94 VO
- Weight: 615 g
- Bearing system: ball bearings

**Available with:**
- Flying leads

**Life expectancy**
L-10 LIFE AT 40°C: 80 000 hours

**Part Number** | **Nominal voltage** | **Airflow** | **Noise level** | **Nominal speed** | **Frequency** | **Phases** | **Capacitor** | **Input Power** | **Nominal Current** | **Starting Current** | **Connection type** | **Operating temperature**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
113XN0182000 | 115 | 21 | 36 | 2850 | 50 | 1 | 10 | 140 | 270 | X | -10 70
113XN0181000 | 208-240 | 21 | 36 | 2850 | 50 | 1 | 11 | 75 | 140 | X | -10 70

**Additional versions:**
- Salt spray protected - shock and vibration protected - marine specifications - wide temperature range
- IP54: consult factory

**Accessories:**
Refer to Accessories leaflet

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### AC Axial Fans

**Approvals**

- CE
- UL
- RoHS

### Life expectancy

L-10 LIFE AT 40°C: 80,000 hours

### AC Motor

- Electrical protection: impedance protected
- Housing material: zamak
- Impeller material: plastic UL 94 VO
- Weight: 465 g
- Bearing system: ball bearings

### Available with:

- Speed sensor
- Connection type: leads

### Part Number | Nominal voltage | Airflow | Noise level | Nominal speed | Frequency | Phases | Capacitor | Input Power | Nominal current | Starting current | Connection type | Operating temperature
---|---|---|---|---|---|---|---|---|---|---|---|---
98XC0182000 | 115 | 16 | 32 | 1300 | 50 | 1 | 12 | 130 | 150 | Leads | X | -10 | 70
208-240 | 16 | 32 | 1300 | 50 | 1 | 14 | 80 | 90 | X | -10 | 70
98XY0182000 | 115 | 27 | 36 | 2100 | 50 | 1 | 12 | 70 | 90 | X | -10 | 70
208-240 | 27 | 36 | 2100 | 50 | 1 | 12 | 70 | 75 | X | -10 | 70
98XH0182000 | 115 | 31 | 41 | 2550 | 50 | 1 | 13 | 65 | 90 | X | -10 | 70
208-240 | 31 | 41 | 2500 | 50 | 1 | 13 | 65 | 80 | X | -10 | 70

**Additional versions:**

- Others speeds - Salt spray protected - Shock and vibration protected - Marine specifications - Wide temperature range
- IP54: consult factory

**Accessories:**

Refer to Accessories leaflet

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# AC Axial Fans

**120 x 120 x 38 mm**

**AC Motor**
- Electrical protection: impedance protected
- Housing material: zamak
- Impeller material: plastic UL 94 VO
- Weight: 725 g
- Bearing system: ball bearings

**Available with:**
- Flying leads
- Speed sensor

**Life expectancy**
- L-10 LIFE AT 40°C: 80,000 hours

**Part Number**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal voltage</th>
<th>Airflow (l/s)</th>
<th>Noise level (dB(A))</th>
<th>Frequency (Hz)</th>
<th>Phases</th>
<th>Capacitor μF</th>
<th>Input Power W</th>
<th>Nominal current mA</th>
<th>Starting current mA</th>
<th>Connection type</th>
<th>Operating temperature Min.°C Max.°C</th>
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<td>27.5</td>
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<td>50</td>
<td>1</td>
<td>9</td>
<td>110</td>
<td>125</td>
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<tr>
<td>141LV0181000</td>
<td>208-240</td>
<td>23.5</td>
<td>27.5</td>
<td>1600</td>
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<td>28</td>
<td>1700</td>
<td>60</td>
<td>1</td>
<td>9</td>
<td>55</td>
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<td>28</td>
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<td>12</td>
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<td>90</td>
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<td>-10 - 70</td>
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</table>

**Additional versions:**
- Salt spray protected
- Shock and vibration protected
- Marine specifications
- Wide temperature range
- IP54: consult factory

**Accessories:**
- Flying leads
- Speed sensor

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AC Axial Fans

Life expectancy
L-10 LIFE AT 40°C:
80 000 hours

AC Motor
Electrical protection: impedance protected
Housing material: zamak
Impeller material: plastic UL 94 VO
Weight: 725 g
Bearing system: ball bearings

Available with:
- Flying leads
- Speed sensor

Part Number | Nominal voltage | Airflow | Noise level | Nominal speed | Frequency | Phases | Capacitor | Input Power | Nominal current | Starting current | Connection type | Operating temperature
<table>
<thead>
<tr>
<th></th>
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<td>50</td>
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<td>135</td>
<td>145</td>
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<td>-10</td>
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<td>31</td>
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<td>16</td>
<td>180</td>
<td>260</td>
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<td>-10</td>
<td>70</td>
</tr>
</tbody>
</table>

Additional versions:
Dual voltage 115V - 230V - salt spray protected - shock and vibration protected - marine specifications - IP54: consult factory

Accessories:
Refer to Accessories leaflet

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**AC Axial Fans**

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**120 x 120 x 38 mm**

![Diagram of AC Axial Fan]

**AC Motor**
- Electrical protection: impedance protected
- Housing material: zamak
- Impeller material: plastic UL 94 V0
- Weight: 725 g
- Bearing system: ball bearings

**Additional versions:**
- Dual voltage 115V - 230V - other weight: 560g - aluminium housing - salt spray protected - shock and vibration protected - marine specifications - wide temperature range - IP54: consult factory

**Available with:**
- Flying leads
- Speed sensor

**Part Number**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal voltage</th>
<th>Airflow</th>
<th>Noise level</th>
<th>Nominal speed</th>
<th>Frequency</th>
<th>Phases</th>
<th>Capacitor</th>
<th>Input Power</th>
<th>Nominal current</th>
<th>Starting current</th>
<th>Connection type</th>
<th>Operating temperature</th>
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<td>180</td>
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<td>X</td>
<td>-10</td>
<td>70</td>
</tr>
</tbody>
</table>

**Accessories:**
- Refer to Accessories leaflet

**Approvals**

**Life expectancy**
- L-10 LIFE AT 40°C:
- 80 000 hours

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AC Axial Fans

Approvals

Life expectancy
L-10 LIFE AT 40°C:
80 000 hours

Specifications

Part Number | Nominal voltage | Nominal airflow (l/s) | Nominal noise level (dB(A)) | Nominal speed (RPM) | Frequency (Hz) | Nominal pressure (mmH2O) | Static pressure (InH2O) | Nominal current (mA) | Input power (W) | Starting current (mA) | Nominal current (mA) | Connection type | Operating temperature (°C)
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
125XR5182002 | 115 | 44 | 43 | 2800 | 50 | 1 | 16 | 200 | 310 | X | -54 | 100
125XR5181002 | 208-240 | 53 | 48 | 3200 | 60 | 1 | 15 | 180 | 260 | X | -54 | 100

Additional versions:
- Salt spray protected
- Shock and vibration protected
- Marine specifications
- IP54: consult factory

Accessories:
- Refer to Accessories leaflet

Brushless DC Motor
- Electrical protection: impedance protected
- Housing material: aluminium
- Impeller material: plastic UL 94 VO
- Weight: 560 g
- Bearing system: ball bearings

Available with:
- Flying leads
- Speed sensor

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### AC Motor
- Electrical protection: thermally protected
- Housing material: zamak
- Impeller material: plastic UL 94 VO
- Weight: 1.1 kg
- Bearing system: ball bearings

### Available with:
- Flying leads
- Speed sensor

### Part Number | Nominal voltage | Airflow | Noise level | Nominal speed | Frequency | Phases | Capacitor | Input Power | Nominal current | Starting current | Connection type | Operating temperature
<table>
<thead>
<tr>
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<td>270</td>
<td>590</td>
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<td>-10 70</td>
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### Additional versions:
Other weight: 830 g - Aluminium impeller - salt spray protected - shock and vibration protected - marine specifications - wide temperature range
IP54: consult factory

### Accessories:
Refer to Accessories leaflet

### ETRI
- http://www.etrinet.com
- e-mail: info@etrinet.com
- ETRI is a trademark of ECOFIT

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## Life expectancy

L-10 LIFE AT 40°C:
80 000 hours

## AC Motor

- Electrical protection: thermally protected
- Housing material: aluminium
- Impeller material: plastic UL 94 VO
- Weight: 880 g
- Bearing system: ball bearings

## Available with:

- Flying leads
- Speed sensor

### Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal voltage</th>
<th>Airflow</th>
<th>Noise level</th>
<th>Nominal speed</th>
<th>Frequency</th>
<th>Phases</th>
<th>Capacitor</th>
<th>Input Power</th>
<th>Nominal current</th>
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</tr>
</tbody>
</table>

### Additional versions:

- Salt spray protected
- Shock and vibration protected
- Marine specifications
- Wide temperature range
- IP54: consult factory

### Accessories:

Refer to Accessories leaflet
Technical guide

CHOOSING THE APPROPRIATE FAN WITH THE WORKING POINT

The combination of necessary airflow and static pressure gives a value which is called working point. It is now very easy to choose the appropriate fan by selecting a model in the catalogue, which curve meets the working point.

LIFE EXPECTANCY

The mechanical and electrical design, the choice of materials, and the high level of inspection give our fans excellent reliability. Special attention is given to bearings, both in design and production, i.e.: choice of bearings and lubricants, accurate machining, strict alignment, very careful balancing and inspection of 100% of finished fans. Life expectancy is calculated on a L-10 basis. The following curves describe the life expectancy of the fans at a given temperature, after which 90% of them are still operating.

OPTIONS

DEGREES OF PROTECTION - IP
ETRI supplies a full range of AC and BDC fans offering high level of protection against dust or water. Most of our standard models, and all our high performance fans are available with protection for use in specific conditions, up to IP55 environments.

SPEED SENSORS AND ALARM SIGNALS
Most ETRI DC and AC Fans feature a speed sensor that detects number of pulses per revolution, or a rotation detector (on/off signal) which indicates if the fan works correctly. These options are codified as follow:
Speed sensor: 3 - Eg.: 125XR0381000
Alarm: 4 - Eg.: 148VK0481000
ETRI provides also a full range of alarm boxes (relay and dry contact) to read directly the signal of the speed sensor or alarm output. For more information, refer to the Accessories leaflet.
About Rosenberg...  
Rosenberg is a competitive medium sized company with around 1400 employees worldwide. During the last 25 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.

Votre partenaire en ventilation  
ETRI vous propose une large gamme de ventilateurs répondant aux exigences les plus sévères pour des applications industrielles, électroniques, ferroviaires ou militaires. La gamme de produits standard est régulièrement complétée par des développements spécifiques réalisés sur cahier des charges.

La qualité de vos références  
ETRI propose une large gamme de ventilateurs répondant aux exigences les plus sévères pour des applications industrielles, électroniques, ferroviaires ou militaires. La gamme de produits standard est régulièrement complétée par des développements spécifiques réalisés sur cahier des charges.

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.

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.

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Tel: +33 (0)2 54 23 14 54  
Fax: +33 (0)2 54 72 22 73  
E-mail: info@etrinet.com

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.

Votre agence locale ou distributeur / Your local agency or distributor:

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Indian Trail, North Carolina 28079
Tel: +1-704/893-0883  
Fax: +1-704/882-0755  
E-mail: sales@rosenbergusa.com

A propos de Rosenberg...
Rosenberg est une entreprise performante à taille humaine qui emploie environ 1400 collaborateurs dans le monde entier. Durant ces 25 dernières années, le Groupe Rosenberg s’est développé en Europe avec 6 nouvelles implantations en France, Italie, Hongrie, République Tchèque ainsi qu’en Allemagne, en plus des nombreux partenaires et distributeurs déjà présents à l’échelle mondiale.

Notre objectif est d’assurer un très haut niveau de qualité de produits doublé d’un service clients irréprochable. De ce fait, maintenir une communication constante et une bonne coopération entre vous, nos chers clients, et nous, est la condition clé pour le développement de nos produits et de notre savoir-faire.

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