

Project-related information about required explosion- protected equipment

Please appoint your ATEX requirements to Elektror by means of using the questionnaire below.
We thank you very much for your completely filled in data.

Project-No.:	
Customer:	
Name / department:	
Date:	

1. General information

1.1	Are ignitable / flammable substances present (gases, vapours, mists, dusts)? (That is, is explosive atmosphere present?)	Yes	No
1.1.1	If yes, does the owner/system manufacturer have a zone definition for the areas with potentially explosive atmospheres? What is its (complete) definition? If no, the owner/system manufacturer first needs to determine and describe the zones. If yes, please include complete copy here!	Yes	No
<div style="border: 1px solid black; padding: 5px;">  NOTE! Elektror only delivers ATEX products for device group II as per directive 2014/34/EU. No mining or underground operation applications can be implemented with them. </div>			
1.1.2	For gases, vapours, mists: In which zone do you plan to install and operate the equipment? Is the same zone present inside and outside the unit or do they differ?	<u>Inside:</u> Zone 1 Zone 2	<u>Outside:</u> Zone 1 Zone 2
1.1.3	For dusts: In which zone do you plan to install and operate the equipment? Is the same zone present inside and outside the unit or do they differ?	<u>Inside:</u> Zone 22	<u>Outside:</u> Zone 22

1.2 Maximum temperatures

1.2.1	For gases, vapours, mists: Which temperature class is required?	T3 (max. 200 °C) T4 (max. 135 °C)
1.2.2	For dust: Which surface temperature prevails?	T135 °C T125 °C

1.2.3 What is the maximum ambient temperature?

°C

ATEX device range	max. temperature	min. temperature
ND, RD, HRD, S-LP, S-MP, S-HP	+40 °C	-20 °C

1.2.4 What is the maximum temperature of the medium?

°C

ATEX device range	max. temperature	min. temperature
ND, RD, S-LP, S-MP	+60 °C	-20 °C
HRD, S-HP	+40 °C	-20 °C

1.2.5 What is the relative humidity at the designated place of operation?

% r.F.

What is the height above sea level of the designated place of operation?

m.ü.NN

1.3 Explosion groups (information required for ATEX motors)

1.3.1 Which gas explosion group prevails?
DIN EN 60079-0 (VDE 0170-1)

IIB (includes IIA)

IIC (can be supplied in certain specific circumstances; request through product management)

1.3.2 Which dust explosion group prevails?
DIN EN 60079-0 (VDE 0170-1)

IIIC (includes IIIA and IIIB)

2. Installation types

2.1 Which installation type is required?

Installation type B:

Zone inside = zone outside, free intake, permanent connection on pressure end

Installation type B, not sealed

Installation type C:

Zone inside = zone outside, permanent connection on intake end, free blow-out on pressure end

Installation type C, not sealed

Installation type D, not sealed:

Zone inside = zone outside, permanent connection on intake and pressure end, not sealed

Installation type D, not sealed

Installation type D, sealed:

Zone inside ≠ zone outside, permanent connection on intake and pressure end, sealed

Installation type D, sealed

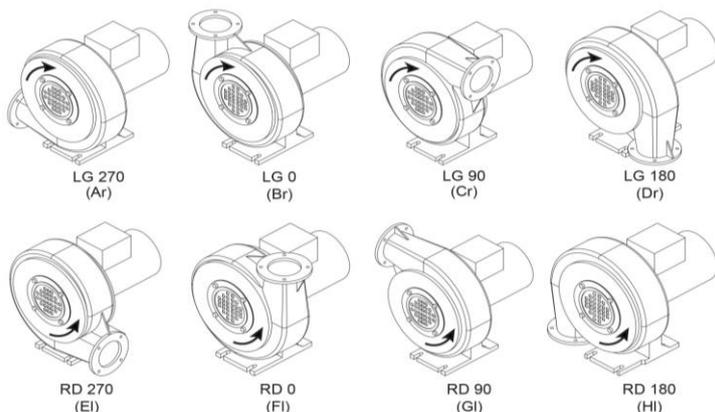


NOTE!

Sealed fans: 1 zone jump is permitted between inside and outside.

2.2 Which housing position prevails?

The following view represents the suction side.

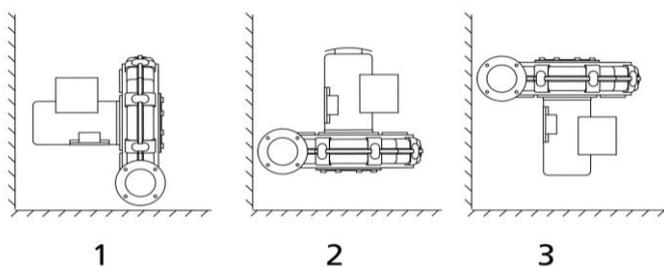


- | | |
|-------------|-------------|
| LG 270 (Ar) | RD 270 (Ei) |
| LG 0 (Br) | RD 0 (Fi) |
| LG 90 (Cr) | RD 90 (Gi) |
| LG 180 (Dr) | RD 180 (Hi) |

Please see the notes in our brochures available from www.elektor.com

Space for additional notes concerning the installation position:

2.3 Which shaft-motor position is required?



- 1 - Horizontal motor shaft position
- 2 - Vertical motor shaft position, motor above the impeller, motor fan guard with protective cover
- 3 - Vertical motor shaft position, motor underneath the impeller

Space for additional notes:

3. Materials data

3.1 Are abrasive, adhesive, corrosive, oxidizing, reducing or otherwise aggressive substances contained in the medium or in the surroundings? These may include non-ignitable substances.

Yes No

If yes, please describe these as detailed as possible. E.g. include the material data sheets.

Space for additional notes:

4. Operating point

<p>4.1 Please tell us the working point or the Elektror-type of the blower.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  NOTE! It is imperative you pay attention to the ventilation units below! </div> <p>In case you are using a pressure/vacuum side connection, please mark both boxes.</p> <p>Once you have chosen a device, please specify it here.</p>	<p>Volumetric flow rate: m³/h m³/min</p> <p>Static pressure rise: Pa</p> <p>Connection type pressure side vacuum side</p> <p>Type of Elektror blower:</p>
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4.2 Operation with frequency converter	Yes	No
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5. Quantity

Pieces per year	Quantity:
Pieces for project	Quantity:

6. Area validation

<p>6.1 In which country is usage planned? Is an operation of the Elektror product intended in a country abroad of the E.U.?</p>	Country of use:
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Hinweise

- Please address your ATEX inquiry directly to our Product Management,
Phone: **+49 711-31973-1111**
or via e-mail to **support@elektrotor.com**.
- Please decide on and define the zones, categories, ignition protection types, temperature classes, explosion groups, surface temperature, etc. and then cite them in your request to Elektrotor. Please understand that we are not authorised to take on the responsibility of determining the operating conditions at your location. Thank you for your cooperation.
- This project-related information provided by the customer primarily addresses the explosion protection aspects. Please add other information relevant for your inquiry, e. g. concerning the technical performance data. Tips concerning these are found in our brochures. Please also consider the ATEX-Help document under **www.elektrotor.com**.

Your personal data:

Company:

First name, Name:

Department:

Postal zip code / City:

Country:

Telephone:

E-Mail: