## Plug fan ER..C, ventilation unit GR..C

### Product overview

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<th>Size</th>
<th>Page</th>
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</thead>
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<td>Size 1120 - version 1R</td>
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### Description

- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

### Technical data

<table>
<thead>
<tr>
<th>Rated power $P_N$ [kW]</th>
<th>Type</th>
<th>Motor size</th>
<th>Fan curve no.</th>
<th>Rated speed $n_1$ [min⁻¹]</th>
<th>Rated current $I_1$ [A]</th>
<th>Max. speed $n_{max}$ [min⁻¹]</th>
<th>Max. frequency $f_{max}$ [Hz]</th>
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<tr>
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<td>2.28</td>
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* Identical performance data for ER..C and GR..C

### Basic version ER

<table>
<thead>
<tr>
<th>Rated power $P_N$ [kW]</th>
<th>Type</th>
<th>Article no.</th>
<th>$\bar{v}$ max.</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Type</th>
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<tr>
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<td>Installation position H</td>
<td>113732/H01</td>
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<tr>
<td>Article no.</td>
<td>Installation position Vu</td>
<td>113732/U01</td>
</tr>
<tr>
<td>Article no.</td>
<td>Installation position Vo</td>
<td>113732/O01</td>
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</table>

<table>
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<tr>
<th>Type</th>
<th>Article no.</th>
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<td>Installation position H</td>
<td>113733/H01</td>
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<tr>
<td>Article no.</td>
<td>Installation position Vu</td>
<td>113733/U01</td>
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<tr>
<td>Article no.</td>
<td>Installation position Vo</td>
<td>113733/O01</td>
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</table>

www.ziehl-abegg.com
Dimensions in mm

Plug fan ER in installation position H

<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>T</th>
<th>T1</th>
<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
<th>Spring vibration damper</th>
<th>Rubber dampers</th>
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<tbody>
<tr>
<td>0.55</td>
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<td>460</td>
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<td>316</td>
<td>39</td>
<td>224</td>
<td>56</td>
<td>142</td>
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<td>422</td>
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<td>266</td>
<td>69</td>
<td>142</td>
<td>MSN 4</td>
<td>30x30 / 55</td>
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<tr>
<td>1.10</td>
<td>ER22C-2DN.B7.1R</td>
<td>460</td>
<td>422</td>
<td>358</td>
<td>50</td>
<td>256</td>
<td>79</td>
<td>142</td>
<td>MSN 4</td>
<td>30x30 / 55</td>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position H

<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>Installation position H</th>
<th>Installation position Vu</th>
<th>Installation position Vo</th>
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<tr>
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<td>H1 418 mm</td>
<td>H1 410 mm</td>
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</table>
## Description

- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

## Technical data

### Rated power

<table>
<thead>
<tr>
<th>Pₙ</th>
<th>kW</th>
<th>Type</th>
<th>Article no.</th>
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<th>Type</th>
<th>Article no.</th>
<th>Max.</th>
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<td>130609/0F01</td>
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<td>GR25C-2DN.B5.1R</td>
<td>113734/H01</td>
<td>113734/U01</td>
<td>113734/O01</td>
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<td>130610/0F01</td>
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<td>1.50</td>
<td>ER25C-2DN.C7.1R</td>
<td>130611/0F01</td>
<td>29</td>
<td>GR25C-2DN.C5.1R</td>
<td>113736/H01</td>
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<td>2.20</td>
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### Rated power

<table>
<thead>
<tr>
<th>Pₙ</th>
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<th>Type</th>
<th>Article no.</th>
<th>Max.</th>
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</table>

* Identical performance data for ER..C and GR..C

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**ER25C, GR25C**

**Plug fan, ventilation unit**

**Motor IE2**

**Fan curve RH..C**

**Dimensions of explosion protected design**

**Page 88**

**Inlet guard**

**Page 109**

**Rubber dampers**

**Page 109**

**Spring vibration damper**

**Page 109**

**Flexible air intakes**

**Page 110**

**Frequency inverter Icontrol**

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**Sensors**

**Page 96**

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Plug fan ER..C, ventilation unit GR..C

Size 250

04/2011
**Dimensions in mm**

Plug fan ER in installation position H

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<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>T</th>
<th>T1</th>
<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
<th>Spring vibration damper</th>
<th>Rubber dampers</th>
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<tbody>
<tr>
<td>0.75</td>
<td>ER25C-2DN.B7.1R</td>
<td>460</td>
<td>439</td>
<td>330</td>
<td>61</td>
<td>252</td>
<td>80</td>
<td>158</td>
<td>MSN 4</td>
<td>30x30 / 55</td>
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<td>439</td>
<td>342</td>
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<td>296</td>
<td>63</td>
<td>158</td>
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<td>30x30 / 55</td>
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<td>464</td>
<td>362</td>
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<td>158</td>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position H

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<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>Installation position H</th>
<th>Installation position Vo</th>
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Plug fan, ventilation unit

ER28C, GR28C

Description

- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel
- Coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

<table>
<thead>
<tr>
<th>Rated power $P_n$ [kW]</th>
<th>Type</th>
<th>Motor size</th>
<th>Fan curve no.</th>
<th>Rated speed $n_0$ [min$^{-1}$]</th>
<th>Rated current $I_0$ [A]</th>
<th>Max. speed $n_{max}$ [min$^{-1}$]</th>
<th>Max. frequency $f_{max}$ [Hz]</th>
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<td>ER28C-2DN.B7.1R</td>
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* Identical performance data for ER..C and GR..C

Basic version ER

<table>
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<tr>
<th>Rated power $P_n$ [kW]</th>
<th>Type</th>
<th>Article no.</th>
<th>Notes</th>
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<td>ER28C-2DN.C7.1R</td>
<td>130606/0F01</td>
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Basic version GR

<table>
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<th>Article no.</th>
<th>Notes</th>
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<td>GR28C-2DN.E5.1R</td>
<td>113742/H01</td>
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</table>
Dimensions in mm

Plug fan ER in installation position H

Rated power | Type | T | T1 | T3 | T4 | T5 | T6 | Spring vibration damper | Rubber dampers
---|---|---|---|---|---|---|---|---|---
0.75 kW | ER28C-2DN.B7.1R | 460 | 455 | 350 | 61 | 302 | 63 | 174 | MSN 4 | 30x30 / 40
1.10 kW | ER28C-2DN.B7.1R | 460 | 455 | 362 | 59 | 308 | 65 | 174 | MSN 4 | 30x30 / 55
1.50 kW | ER28C-2DN.C7.1R | 460 | 460 | 350 | 80 | 306 | 82 | 174 | MSN 4 | 30x30 / 55
2.20 kW | ER28C-2DN.D7.1R | 460 | 505 | 320 | 110 | 342 | 81 | 174 | MSN 5 | 30x30 / 55
3.00 kW | ER28C-2DN.E7.1R | 570 | 543 | 468 | 59 | 428 | 64 | 174 | MSN 5 | 40x30 / 55

T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position H

Ventilation unit GR in installation position Vu/Vo

Rated power | Type | Installation position H | Installation position Vu | Installation position Vo
---|---|---|---|---
0.75 kW | GR28C-2DN.B5.1R | H1 443 mm | H1 450 mm | H1 443 mm
1.10 kW | GR28C-2DN.B5.1R | H1 443 mm | H1 450 mm | H1 443 mm
1.50 kW | GR28C-2DN.C5.1R | H1 468 mm | H1 475 mm | H1 468 mm
2.20 kW | GR28C-2DN.D5.1R | H1 493 mm | H1 500 mm | H1 493 mm
3.00 kW | GR28C-2DN.E5.1R | H1 531 mm | H1 538 mm | H1 531 mm

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Plug fan, ventilation unit

ER31C, GR31C

Description
- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel
- Coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

<table>
<thead>
<tr>
<th>Rated power $P_N$ [kW]</th>
<th>Type ER / GR*</th>
<th>Motor size</th>
<th>Fan curve no.</th>
<th>Rated speed $n_r$ [min$^{-1}$]</th>
<th>Rated current $I_r$ [A]</th>
<th>Max. speed $n_{max}$ [min$^{-1}$]</th>
<th>Max. frequency $f_{max}$ [Hz]</th>
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<tbody>
<tr>
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<td>80M</td>
<td>I</td>
<td>2825</td>
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<td>2950</td>
<td>52</td>
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</table>

* Identical performance data for ER..C and GR..C

Basic version ER

<table>
<thead>
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<th>Rated power $P_N$ [kW]</th>
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<th>Article no.</th>
<th>Type GR</th>
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Basic version GR

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<th>Installation position Vu</th>
<th>Installation position Vo</th>
<th>Type</th>
<th>Article no.</th>
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* Identical performance data for ER..C and GR..C

Dimensions of explosion protected design
- Page 88
- Page 96

Inlet guard
- Page 109

Rubber dampers
- Page 109

Spring vibration damper
- Page 109

Flexible air intakes
- Page 110

Frequency inverter Icontrol
- Page 92

Sensors
- Page 96
Dimensions in mm

Plug fan ER in installation position H

<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>T</th>
<th>T1</th>
<th>T2</th>
<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
<th>Spring vibration damper</th>
<th>Rubber dampers</th>
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<td>MSN 4</td>
<td>30x30 / 40</td>
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<td>525</td>
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<td>350</td>
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<td>460</td>
<td>75</td>
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<td>612</td>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position H

Ventilation unit GR in installation position Vu/Vo

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<th>Rated power</th>
<th>Type</th>
<th>Installation position H</th>
<th>Installation position Vu</th>
<th>Installation position Vo</th>
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<td>H1: 475 mm</td>
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<td>H1: 500 mm</td>
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<tr>
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<td>H1: 525 mm</td>
<td>H1: 513 mm</td>
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<td>H1: 551 mm</td>
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<td>4.00</td>
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<td>H1: 600 mm</td>
<td>H1: 612 mm</td>
<td>H1: 600 mm</td>
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</table>
Plug fan, ventilation unit
ER35C, GR35C

Description
- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel
- Coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

<table>
<thead>
<tr>
<th>Rated power P_n [kW]</th>
<th>Type ER / GR*</th>
<th>Motor size</th>
<th>Fan curve no.</th>
<th>Rated speed n [min⁻¹]</th>
<th>Rated current I [A]</th>
<th>Max. speed n_max [min⁻¹]</th>
<th>Max. frequency f_max [Hz]</th>
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* Identical performance data for ER..C and GR..C

Basic version ER

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Basic version GR

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Dimensions in mm

### Plug fan ER in installation position H

![](image)

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<th>Type</th>
<th>T</th>
<th>T1</th>
<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
<th>Spring vibration damper</th>
<th>Rubber dampers</th>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

### Ventilation unit GR in installation position H

![](image)

### Ventilation unit GR in installation position Vu/Vo

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<th>Type</th>
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<th>Installation position Vu</th>
<th>Installation position Vo</th>
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## Technical data

### Rated power

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<th>Motor size</th>
<th>Fan curve no.</th>
<th>Rated speed n&lt;sub&gt;s&lt;/sub&gt; min&lt;sup&gt;-1&lt;/sup&gt;</th>
<th>Rated current I&lt;sub&gt;n&lt;/sub&gt; A</th>
<th>Max. speed n&lt;sub&gt;max&lt;/sub&gt; min&lt;sup&gt;-1&lt;/sup&gt;</th>
<th>Max. frequency f&lt;sub&gt;max&lt;/sub&gt; Hz</th>
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* Identical performance data for ER..C and GR..C

### Basic version ER

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<th>Type</th>
<th>Article no.</th>
<th>Article no.</th>
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### Description

- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

---

### Technical data

<table>
<thead>
<tr>
<th>Rated power P&lt;sub&gt;n&lt;/sub&gt; kW</th>
<th>Type</th>
<th>Motor size</th>
<th>Fan curve no.</th>
<th>Rated speed n&lt;sub&gt;s&lt;/sub&gt; min&lt;sup&gt;-1&lt;/sup&gt;</th>
<th>Rated current I&lt;sub&gt;n&lt;/sub&gt; A</th>
<th>Max. speed n&lt;sub&gt;max&lt;/sub&gt; min&lt;sup&gt;-1&lt;/sup&gt;</th>
<th>Max. frequency f&lt;sub&gt;max&lt;/sub&gt; Hz</th>
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* Identical performance data for ER..C and GR..C

### Basic version ER

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Dimensions in mm

Plug fan ER in installation position H

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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position H

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Ventilation unit GR in installation position Vu/Vo

www.ziehl-abegg.com
Plug fan, ventilation unit

ER45C, GR45C

Description
- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel
- Coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

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<tr>
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<th>Type ER / GR*</th>
<th>Motor size</th>
<th>Fan curve no.</th>
<th>Rated speed nmin-1</th>
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* Identical performance data for ER..C and GR..C

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Dimensions in mm

Plug fan ER in installation position H

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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position H

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**Plug fan, ventilation unit**

**ER50C, GR50C**

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<th>Rated current $I_r$ [A]</th>
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* Identical performance data for ER..C and GR..C

---

**Description**

- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

---

**Basic version ER**

<table>
<thead>
<tr>
<th>Rated power $P_n$ [kW]</th>
<th>Type</th>
<th>Article no.</th>
<th>Fan curve no.</th>
<th>Rated speed $n_r$ [min$^{-1}$]</th>
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</thead>
<tbody>
<tr>
<td>1.50</td>
<td>ER50C-4DN.D7.1R</td>
<td>130575/0F01</td>
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<td>1400</td>
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<td>3.00</td>
<td>ER50C-4DN.E7.1R</td>
<td>130577/0F01</td>
<td>IV</td>
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</tr>
<tr>
<td>4.00</td>
<td>ER50C-4DN.F7.1R</td>
<td>130578/0F01</td>
<td>V</td>
<td>1440</td>
</tr>
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<td>5.50</td>
<td>ER50C-4DN.G7.1R</td>
<td>130579/0F01</td>
<td>VI</td>
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<tr>
<td>7.50</td>
<td>ER50C-4DN.H7.1R</td>
<td>130580/0F01</td>
<td>VII</td>
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**Basic version GR**

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<th>Article no.</th>
<th>Fan curve no.</th>
<th>Rated speed $n_r$ [min$^{-1}$]</th>
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<tbody>
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<td>GR50C-4DN.D5.1R</td>
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<td>113772/H01</td>
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</table>
Dimensions in mm
Plug fan ER in installation position H

![Diagram of plug fan ER in installation position H]

<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>T1</th>
<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
<th>Spring vibration damper</th>
<th>Rubber dampers</th>
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<tbody>
<tr>
<td>1.50 kW</td>
<td>ER50C-4DN.D7.1R</td>
<td>648</td>
<td>508</td>
<td>67</td>
<td>438</td>
<td>87</td>
<td>313</td>
<td>MSN 6</td>
<td>30x30 / 40</td>
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<td>2.20 kW</td>
<td>ER50C-4DN.E7.1R</td>
<td>686</td>
<td>582</td>
<td>59</td>
<td>454</td>
<td>109</td>
<td>313</td>
<td>MSN 6</td>
<td>30x30 / 40</td>
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<tr>
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<td>686</td>
<td>600</td>
<td>59</td>
<td>480</td>
<td>105</td>
<td>313</td>
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<td>30x30 / 40</td>
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<td>602</td>
<td>68</td>
<td>514</td>
<td>99</td>
<td>313</td>
<td>MSN 6</td>
<td>30x30 / 55</td>
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<td>99</td>
<td>598</td>
<td>85</td>
<td>313</td>
<td>MSN 7</td>
<td>30x30 / 55</td>
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<td>564</td>
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<td>40x30 / 55</td>
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<td>718</td>
<td>135</td>
<td>686</td>
<td>144</td>
<td>313</td>
<td>MSN 7</td>
<td>40x30 / 55</td>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position H

![Diagram of ventilation unit GR in installation position H]

<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>Installation position H</th>
</tr>
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<tbody>
<tr>
<td>Pn kW</td>
<td>Installation position H1</td>
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<tr>
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<td>GR50C-4DN.D5.1R</td>
<td>H1 628 mm</td>
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<tr>
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<td>GR50C-4DN.E5.1R</td>
<td>H1 666 mm</td>
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<tr>
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<td>GR50C-4DN.F5.1R</td>
<td>H1 715 mm</td>
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<tr>
<td>5.50</td>
<td>GR50C-4DN.G5.1R</td>
<td>H1 723 mm</td>
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<tr>
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<td>H1 761 mm</td>
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<td>H1 833 mm</td>
</tr>
</tbody>
</table>

Ventilation unit GR in installation position Vu/Vo

![Diagram of ventilation unit GR in installation position Vu/Vo]
Plug fan, ventilation unit

ER56C, GR56C

Description
- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel
coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>Fan curve no.</th>
<th>Rated speed</th>
<th>Rated current</th>
<th>Max. speed</th>
<th>Max. frequency</th>
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<tr>
<td>kW</td>
<td>ER / GR*</td>
<td>Motor size</td>
<td>n (min⁻¹)</td>
<td>I (A)</td>
<td>n (min⁻¹)</td>
<td>f (Hz)</td>
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<td>940</td>
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<td>100L</td>
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<td>ER56C-4DN.F7.1R</td>
<td>112M</td>
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* Identical performance data for ER..C and GR..C

Basic version ER

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<th>Type</th>
<th>Article no.</th>
<th>Installation position H</th>
<th>Installation position Vu</th>
<th>Installation position Vo</th>
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<td>max.</td>
<td>ER / C</td>
<td>Article no.</td>
<td>Articles no.</td>
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<td>113773/U01</td>
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<tr>
<td>2.20</td>
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<td>130569/0F01</td>
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<td>GR56C-4DN.E5.1R</td>
<td>113774/U01</td>
</tr>
<tr>
<td>3.00</td>
<td>ER56C-4DN.E7.1R</td>
<td>130570/0F01</td>
<td>84</td>
<td>GR56C-4DN.E5.1R</td>
<td>113775/U01</td>
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<tr>
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<td>ER56C-4DN.F7.1R</td>
<td>130571/0F01</td>
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<td>113778/U01</td>
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<td>130574/0F01</td>
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<td>GR56C-4DN.I5.1R</td>
<td>113779/U01</td>
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</tbody>
</table>

Basic version GR

<table>
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<tr>
<th>Rated power</th>
<th>Type</th>
<th>Article no.</th>
<th>Installation position H</th>
<th>Installation position Vu</th>
<th>Installation position Vo</th>
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<tr>
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<td>max.</td>
<td>ER / C</td>
<td>Article no.</td>
<td>Articles no.</td>
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<td>GR56C-6DN.E5.1R</td>
<td>113773/U01</td>
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<td>2.20</td>
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<td>130569/0F01</td>
<td>79</td>
<td>GR56C-4DN.E5.1R</td>
<td>113774/U01</td>
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Dimensions in mm

Plug fan ER in installation position H

<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>T1</th>
<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>Spring vibration damper</th>
<th>Rubber dampers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.50</td>
<td>ER56C-6DN.E7.1R</td>
<td>720</td>
<td>718</td>
<td>586</td>
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<tr>
<td>2.20</td>
<td>ER56C-4DN.E7.1R</td>
<td>720</td>
<td>718</td>
<td>600</td>
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<td>720</td>
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<td>50</td>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position H

<table>
<thead>
<tr>
<th>Rated power</th>
<th>Type</th>
<th>Installation position H</th>
<th>Installation position Vu</th>
<th>Installation position Vo</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.50</td>
<td>GR56C-6DN.E5.1R</td>
<td>H1 698 mm</td>
<td>H1 719 mm</td>
<td>H1 698 mm</td>
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<tr>
<td>2.20</td>
<td>GR56C-4DN.E5.1R</td>
<td>698 mm</td>
<td>719 mm</td>
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<tr>
<td>3.00</td>
<td>GR56C-4DN.E5.1R</td>
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<td>768 mm</td>
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<td>886 mm</td>
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</tr>
</tbody>
</table>
Plug fan, ventilation unit
ER63C, GR63C

Description
- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

<table>
<thead>
<tr>
<th>Rated power Pn kW</th>
<th>Type ER / GR</th>
<th>Motor size</th>
<th>Fan curve no.</th>
<th>Rated speed nN min⁻¹</th>
<th>Rated current IN A</th>
<th>Max. speed nmax min⁻¹</th>
<th>Max. frequency fmax Hz</th>
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</thead>
<tbody>
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<td>ER63C-6DN.E7.1R</td>
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<td>54</td>
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<td>2.20</td>
<td>ER63C-6DN.F7.1R</td>
<td>112M</td>
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<td>4.00</td>
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* Identical performance data for ER..C and GR..C

Basic version ER

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Dimensions in mm

Plug fan ER in installation position H

Ventilation unit GR in installation position H

Rated power | Type          | T   | T1  | T3  | T4  | T5  | T6  | T7   | Spring vibration damper | Rubber dampers
-------------|---------------|-----|-----|-----|-----|-----|-----|------|--------------------------|------------------
1.50         | ER63C-6DN.E7.1R | 720 | 758 | 606 | 64  | 526 | 84  | 384  | MSN 6                    | 30x30 / 40       
2.20         | ER63C-6DN.F7.1R | 728 | 807 | 608 | 72  | 576 | 68  | 384  | MSN 6                    | 30x30 / 40       
3.00         | ER63C-6DN.G7.1R | 880 | 815 | 684 | 66  | 648 | 66  | 384  | MSN 7                    | 30x30 / 40       
4.00         | ER63C-4DN.F7.1R | 720 | 807 | 602 | 88  | 556 | 93  | 384  | MSN 7                    | 30x30 / 40       
5.50         | ER63C-4DN.G7.1R | 880 | 815 | 680 | 80  | 646 | 79  | 384  | MSN 7                    | 30x30 / 55       
7.50         | ER63C-4DN.H7.1R | 880 | 835 | 704 | 90  | 670 | 90  | 384  | MSN 7                    | 30x30 / 55       
11.00        | ER63C-4DN.I7.1R | 880 | 925 | 650 | 195| 666 | 179 | 384  | SD 4                     | 40x30 / 55       
15.00        | ER63C-4DN.K7.1R | 880 | 980 | 608 | 237| 624 | 221 | 384  | SD 4                     | 40x30 / 55       

T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position Vo

Rated power | Type          | Installation position H | Installation position Vu | Installation position Vo
-------------|---------------|--------------------------|--------------------------|--------------------------
1.50         | GR63C-6DN.E5.1R | H1 | 738 | 759 | 738
2.20         | GR63C-6DN.F5.1R | H1 | 787 | 808 | 787
3.00         | GR63C-6DN.G5.1R | H1 | 795 | 816 | 795
4.00         | GR63C-4DN.F5.1R | H1 | 787 | 808 | 787
5.50         | GR63C-4DN.G5.1R | H1 | 795 | 816 | 795
7.50         | GR63C-4DN.H5.1R | H1 | 833 | 854 | 833
11.00        | GR63C-4DN.I5.1R | H1 | 905 | 926 | 905
15.00        | GR63C-4DN.K5.1R | H1 | 960 | 981 | 960

www.ziehl-abegg.com
Plug fan, ventilation unit

ER71C, GR71C

Technical data

- Rated power
- Type
- Motor size
- Fan curve no.
- Rated speed
- Rated current
- Max. speed
- Max. frequency

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<th>Type</th>
<th>Article no.</th>
<th>Fan curve no.</th>
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<th>I0 [A]</th>
<th>nmax [min⁻¹]</th>
<th>fmax [Hz]</th>
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* Identical performance data for ER..C and GR..C

Basic version ER

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Dimensions in mm
Plug fan ER in installation position H

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<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
<th>Spring vibration damper</th>
<th>Rubber dampers</th>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

Ventilation unit GR in installation position Vu/Vo

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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.
Description

- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

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<th>Type ER..C</th>
<th>Article no.</th>
<th>Fan curve no.</th>
<th>Rated speed n_1 [min^-1]</th>
<th>Rated current I_1 [A]</th>
<th>Max. speed n_max [min^-1]</th>
<th>Max. frequency f_max [Hz]</th>
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* Identical performance data for ER..C and GR..C

Basic version ER

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<th>Article no.</th>
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Basic version GR

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### Dimensions in mm

Plug fan ER in installation position H

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<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
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<th>Rubber dampers</th>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

### Ventilation unit GR in installation position Vu/Vo

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www.ziehl-abegg.com
Plug fan, ventilation unit
ER90C, GR90C

Description
- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel
- Coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

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<thead>
<tr>
<th>Rated power</th>
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<th>Motor size</th>
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* Identical performance data for ER..C and GR..C

Basic version ER

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Basic version GR

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**Dimensions in mm**

Plug fan ER in installation position H

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<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
<th>Spring vibration damper</th>
<th>Rubber dampers</th>
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<td>T4</td>
<td>T5</td>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

**Ventilation unit GR in installation position Vu/Vo**

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<th>Rated power</th>
<th>Type</th>
<th>Installation position Vu</th>
<th>Installation position Vo</th>
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<td>1230</td>
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www.ziehl-abegg.com
Plug fan, ventilation unit
ER10C, GR10C

Description
- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel
  - coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

<table>
<thead>
<tr>
<th>Rated power $P_n$ [kW]</th>
<th>Type</th>
<th>Motor size</th>
<th>Fan curve no. $n_1$ [min$^{-1}$]</th>
<th>Rated speed $n_1$ [min$^{-1}$]</th>
<th>Rated current $I_1$ [A]</th>
<th>Max. speed $n_{max}$ [min$^{-1}$]</th>
<th>Max. frequency $f_{max}$ [Hz]</th>
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* Identical performance data for ER..C and GR..C

Basic version ER

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Basic version GR

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* www.ziehl-abegg.com
### Dimensions in mm

Plug fan ER in installation position H

<table>
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<th>Rated power (kW)</th>
<th>Type</th>
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<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
<th>Spring vibration damper</th>
<th>Rubber dampers</th>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

---

Ventilation unit GR in installation position Vu/Vo

<table>
<thead>
<tr>
<th>Rated power (kW)</th>
<th>Type</th>
<th>Installation position Vu</th>
<th>Installation position Vo</th>
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Description

- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

<table>
<thead>
<tr>
<th>Rated power $P_n$ [kW]</th>
<th>Type ER</th>
<th>Motor size</th>
<th>Fan curve no.</th>
<th>Rated speed $n_r$ [min⁻¹]</th>
<th>Rated current $I_A$ [A]</th>
<th>Max. speed $n_{max}$ [min⁻¹]</th>
<th>Max. frequency $f_{max}$ [Hz]</th>
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Basic version ER

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Dimensions in mm

Plug fan ER in installation position H

T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.
Plug fan

ER11C.1R

Description

- Number of blades: 7
- Max. permissible media temperature: 40°C
- Min. permissible media temperature: -20°C
- Motor protection: PTC thermistor (PTC)
- Impeller: Welded sheet steel
- Coated / painted in RAL 5002 (ultramarine blue)
- ER-plug fan made as rugged bolted construction built with galvanised sheet steel
- Inlet ring for optimum impeller inflow with measurement device for determining flow rate

Technical data

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Basic version ER

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<th>Article no.</th>
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**Dimensions in mm**

Plug fan ER in installation position H

<table>
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<th>T</th>
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<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
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<td>760</td>
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<td>276</td>
<td>760</td>
<td>730</td>
<td>SD 8*</td>
<td>100x75 / 40*</td>
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T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

*6 dampers required
Plug fan ER..C
Explosion protected design

Description
RH..C centrifugal impellers and ER..C plug fans in explosion protected design (deliverable only as steel wheel) fulfill the requirements of the 94/9/EU directive (ATEX 95, former short designation ATEX 100a), in accordance with the device group II, device group 2G and 3G, explosion group IIB, and can be utilised in zone 1 and zone 2.

RH..C impellers
- Available in form sizes 250 to 1000
- The design corresponds to standard impellers, additionally with fixed hub, blades continuously welded on both sides, and electrically conductive special coating RAL 9005
- Inlet ring made of copper with measuring device

ER..C plug fans
- Available in form sizes 250 to 1000
- Speed controllable through a frequency inverter
- With three phase motor ignition protection class, Ex de IIC T4 pressure-proof housing; temperature monitoring through 3 PTC thermistors-temperature sensor in the motor winding and 1 PTC in the motor terminal box for disconnection IE1
- A type U-EK230E explosion-protected design triggering-device with the II (2) G 03 ATEX 3045 approval mark is needed as a safeguard.
- Flexible intake flanges in Ex-version according to ATEX 95 can be supplied
- Installation only allowed with horizontal motor shaft; motor feet on button

Application
RH..C impellers and ER..C plug fans in Ex-versions are not ready-for-use products but are conceived as components for air conditioning, ventilation, and exhaust air removal. They may only be put into operation when they are installed in accordance with their intended use and the safety has been ensured through protective devices in accordance with DIN EN ISO 13857, DIN EN 60529, and the required structural explosion-protective measures in accordance with DIN EN 14986. The fans correspond to the choice of materials in accordance with the filing at the BAM (Federal Institute for Materials Research and Testing), TGB (journal) no.: II-2851/2008 of the 94/9/EU directive (ATEX 95, former designation ATEX 100a).

Suitable system components

Triggering-device U-EK230E, Art. no. 382000

Measuring device for determining air volume
Rubber or spring dampers
Description of high-performance impeller
Standard version
Frequency inverter Icontrol
## Plug fans / centrifugal impellers

### Fan labeling

**Example**

<table>
<thead>
<tr>
<th>II</th>
<th>2</th>
<th>G</th>
<th>c</th>
<th>IIB</th>
<th>T4</th>
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</table>

### Labeling for prevention of explosions (ATEX 95)

**Device group**

- II

**Category**

- Zone 2

**Ex-atmosphere**

- Gas G

**Type of protection**

- Constructive safety c

**Explosion group**

- IIB

**Temperature class**

- T4

---

### Safety information:

The use of impellers and plug-fans in **Ex-versions** assumes that regarding material selection and dimensioning of the surrounding components, the planner, operator, or end user of the device or the system acts on their own authority in accordance with the state-of-the-art of technology for safety relevant requirements, for example according to DIN EN 1127-1, EN 13237, DIN EN 60079-10, DIN EN 60079-14, DIN EN 60079-17, DIN EN 13463-1 and especially according to DIN EN 14986.

The relevant assembly instructions L-BAL-019 can be downloaded from the download area of our website at www.ziehl-abegg.com.