Movement by Perfection

# Centrifugal fans

## for air handling units
## Edition 2011

**The Royal League** in **ventilation**, control and drive technology

ZIEHL-ABEGG

# Air with IQ

Air is inert by nature. Influences in nature such as temperature gradients start moving the air - but unfortunately, in a rather uncontrolled way and not always to people‘s advantage. In order to make air movement useful, we recommend our intelligent ventilation and control engineering solutions. They are not only effective and reliable but are also aimed at a multitude of specific requirements. As the world‘s leading system supplier of fans with matching control engineering, you will certainly be able to find fans for your sector and application in our product range. Educated minds don‘t leave anything to chance. Instead, they trust Ziehl-Abegg‘s extensive expertise.

# FANselect

Reach your goal easily, quickly, and without any complications! The world‘s most precise programme for fans and systems components. For more information log on to our website at www.fanselect.info




# Additional catalogues

Our extensive Axial Fan A01, Centrifugal Fan R01, Control Technology E01 and other catalogues are available on our www.ziehl-abegg.com website in the „Download“ area. We would be glad to send printed catalogues on request.

# Explanation of technical details

## ① ER45C, GR45C (example diagram)

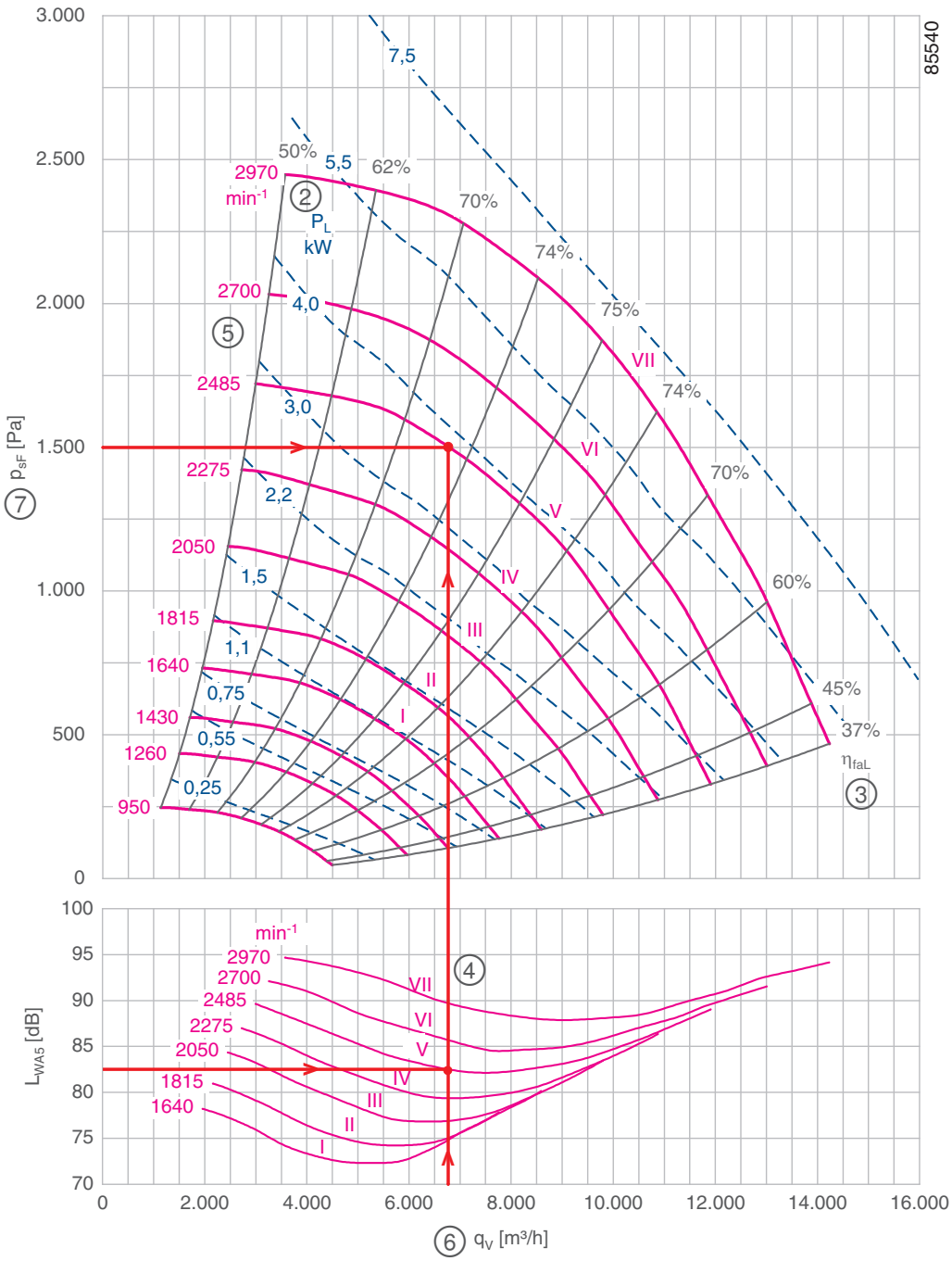



Diagram legend

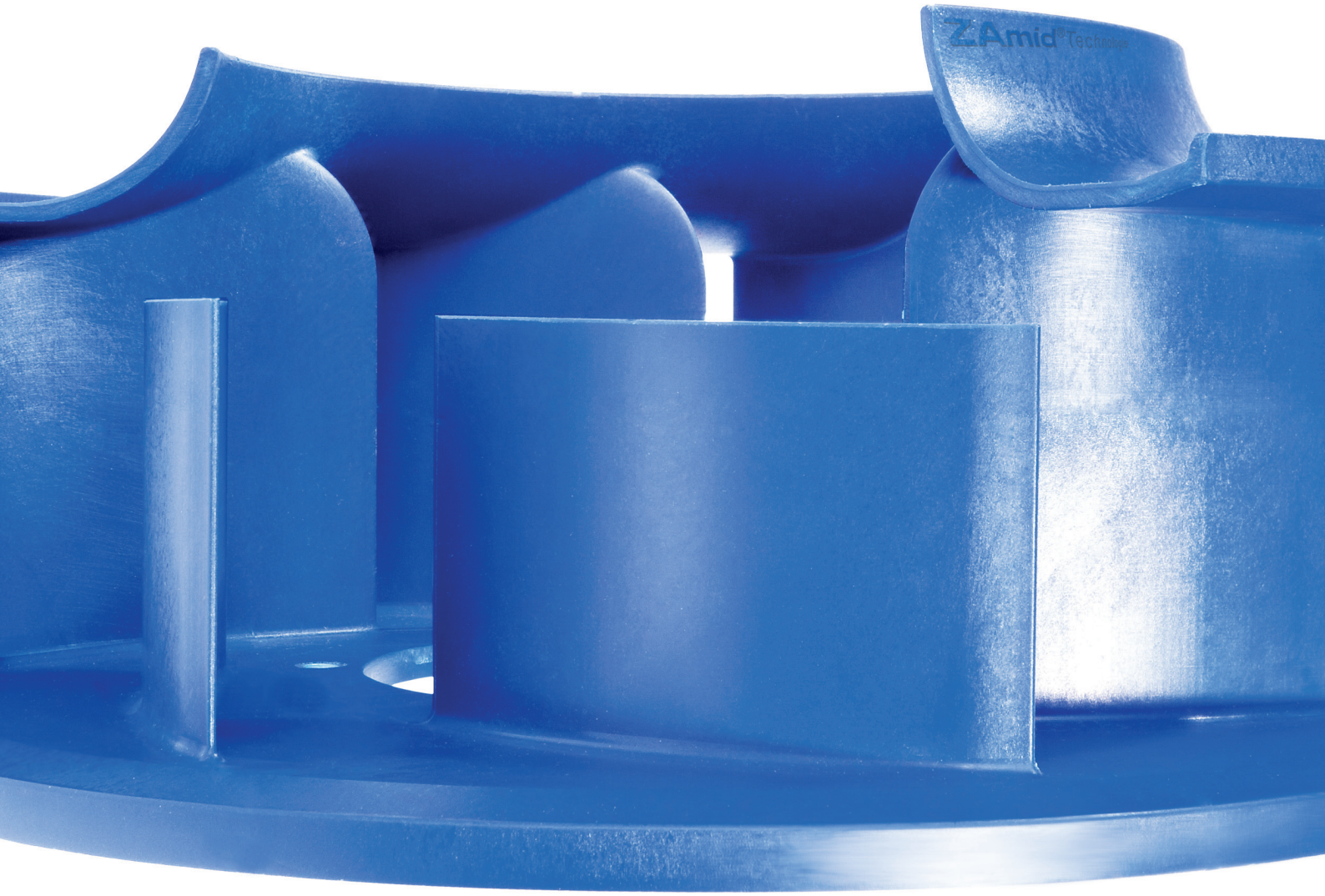
① Fan frame size
② $P_L$: Impeller power requirement in kW. Applicable is: $P_L = (q_V\ [m^3/s] \times p_{sF}\ [Pa]) / \eta_{faL}$
③ $\eta_{faL}$: Efficiency of the impeller based on the static pressure rise
④ $L_{WA5}$: A-weighted sound power level at the inlet in dB
⑤ n: Fan speed in $min^{-1}$
⑥ $q_v$:Volume flow in $m^3/h$
⑦ $p_{sF}$: Static pressure rise in Pa

All data based on measurement density rho ≈ 1.16 kg/m³.
The C-series performance characteristics were measured in the AMCA certified combination testbenches of Ziehl-Abegg AG according to DIN 24163 Part 2 and ISO 5801. The fan acoustics were determined during this with application of the enveloping surface method according to DIN EN ISO 3745 (Class 1) and ISO 13347-3.

# Pure innovation

# ZAmid® Technology

**ZAmid®** *Technology* is the name of our newly developed, high-performance composite material. The high-tech material is unbelievably light-weight yet strong and hard as steel. The result is a reduction in the overall weight of the fan while guaranteeing the greatest stability in handling and during subsequent processing. The new generation of Cpro**ZAmid®** fans, combined with our sophisticated development of an impressive, three-dimensional blade geometry, turns this fan into a marvel of flow engineering work of wonder. Cpro**ZAmid®** is cast in one piece, without any weld seams. This makes it ductile to the air and process-reliable in use. It is suitable for high peripheral speeds (70m/s, no restriction as compared to a steel impeller) and can withstand high centrifugal forces. Cpro**ZAmid®** is ideal for the same operational temperatures as a comparable steel impeller; has low tonal noise/reduced by up to 5 dB.



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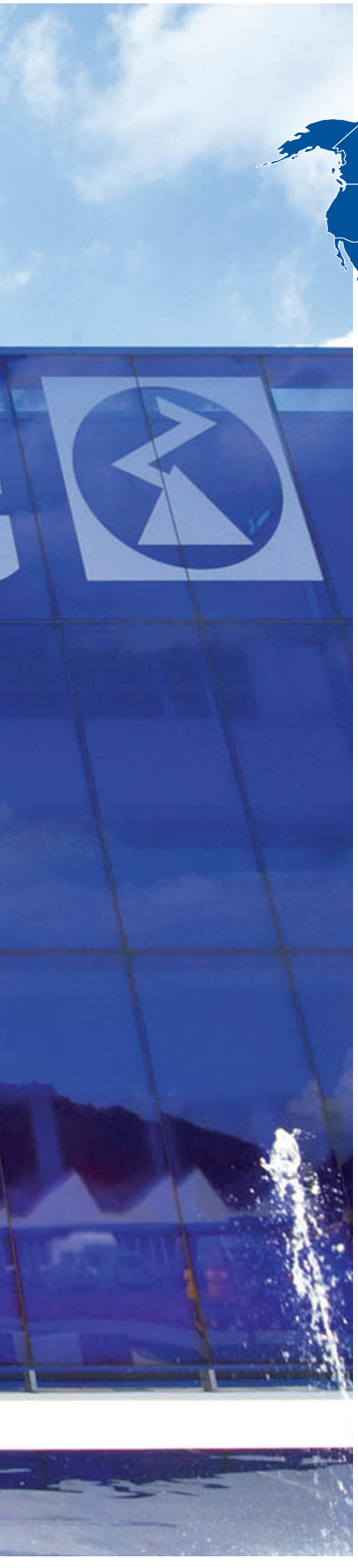
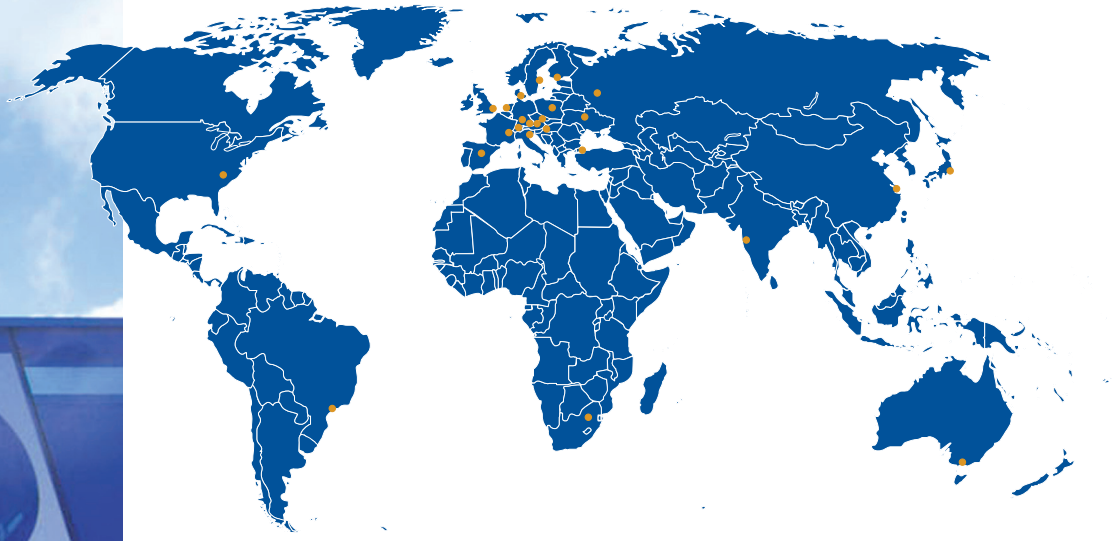
ZIEHL-ABEGG

# No one can get passed the Royal League





Ziehl-Abegg has stood for movement by perfection in the ventilation technology, control technology and drive technology sectors for more than 100 years. What started with the invention of the first external rotor motor by Emil Ziehl is now being carried on at the company‘s sites around the world. We are the pioneers, masterminds and developers of technologies for the future which more than satisfy all demands to preserve an environment worth living in and to meet all our customers‘ requirements and wishes.

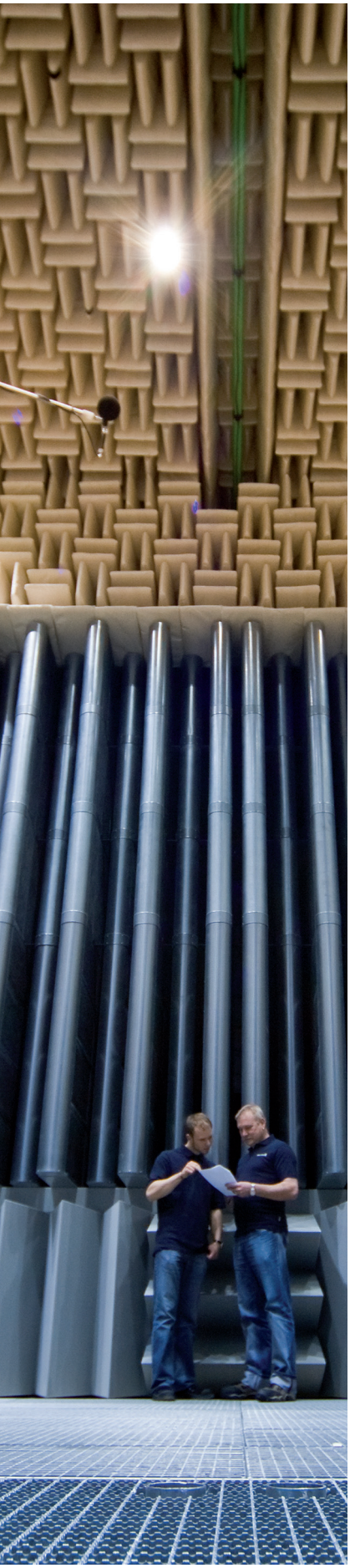
## Think ahead the future - discover ZIEHL-ABEGG

We look forward to seeing you in ventilation, control and drive technologies. Where ideas are the daily challenge and where the latest, outstanding technologies are developed.

Welcome to the best.

## Welcome to the Royal League

# From fans and motors to matching control technology

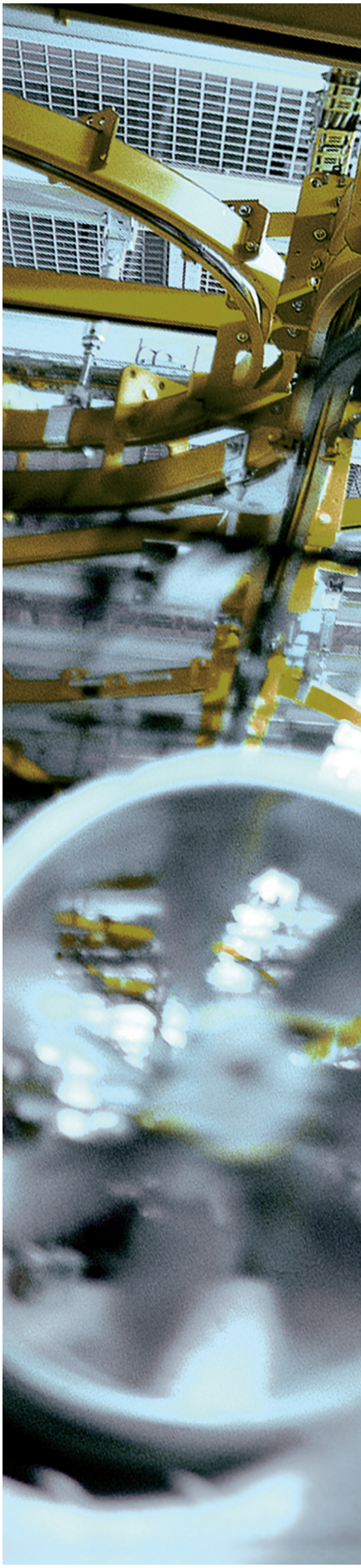


## Our unique selling point – your advantage

What is important to us is to correctly match our systems to your exact needs. Be it refrigeration, air conditioning, for use in your manufacturing processes or anywhere else - we reliably move air wherever it is required and at the right time. At the headquarters in Künzelsau more than 100 engineers and technicians work in one of the most modern technology centres of this kind.

We supply the highest quality standards with **the world's largest air and noise testbench for fans,** which can completely mask vibrations and external noises thus guaranteeing fan measurements of the highest class according to ISO and DIN. That is the reason Ziehl-Abegg products with the **Premium Quality** and **Premium Efficiency** are certified - that is the reason our products and services are in the Royal League.

The world's largest and most modern testbench for fans at the headquarters in Künzelsau

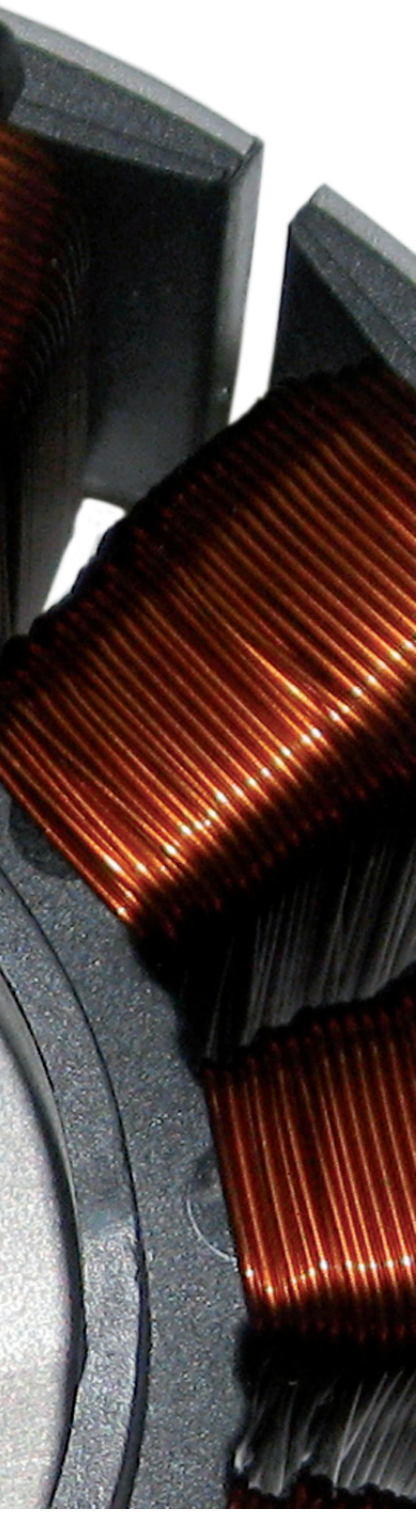


Picture on right:
Most modern production lines for fans with the highest demands in the world

# The Royal League of EC fans

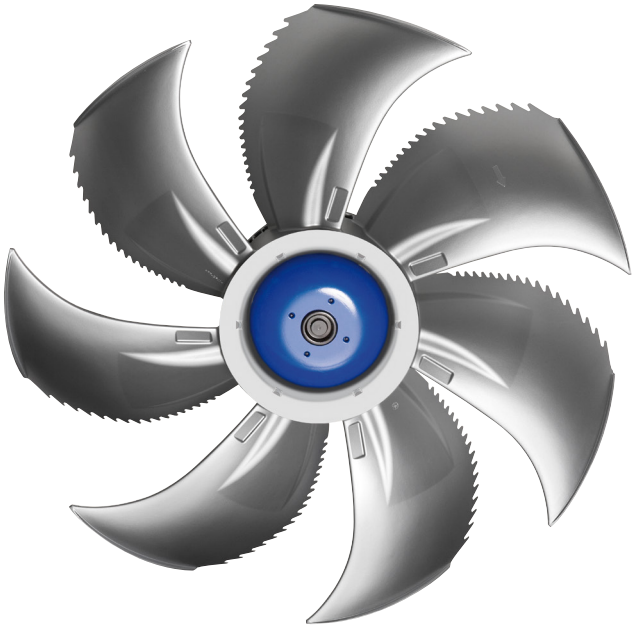
## So quiet, so efficient, so ECblue

Unifying the latest motor technology and innovative aerodynamics is unbeatable in its efficiency and definitely saves energy costs. The latest generation of axial fans with ECblue technology such as the FE2owlet is a genuine revolution. The toothed bionic profile of the rotor used here makes this fan nearly totally silent. We provide pure innovation with fans such as the Cpro centrifugal fan in new ZAmid® *Technology*. The high-performance composite material we developed is as hard as steel and guarantees, along with longer service lives, the reliable production of fans with newly developed blade geometry at the highest level. The unique rotor blades, combined with ECblue motors, achieve unsurpassed air dynamics, putting them into the top class of environmental friendliness with the highest energy-savings potential. When used in any application including process fans up to 600°, the highest volume flow rates provide extraordinary efficiency at extremely low noise levels.



ECblue motor technology


Maximum efficiency and minimum consumption
ECblue with the latest **ZAmid**®*Technology*
Centrifugal fans sector



Unique bionic profile FE2owlet,
combined with ECblue technology

ECblue – highest efficiency

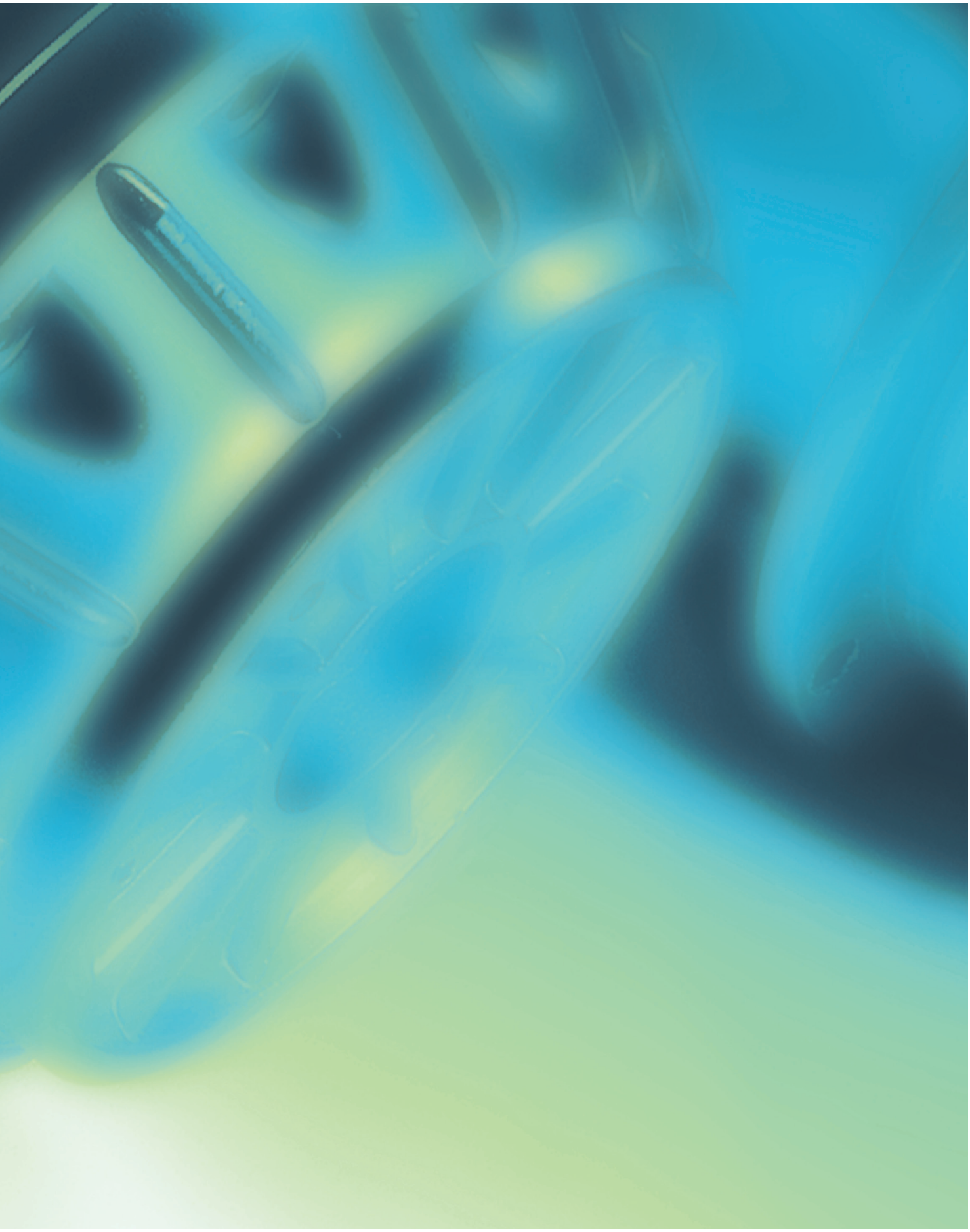
# The Royal League of AC fans


## So powerful, so insusceptible, so AC technology

In the AC motor technology sector, our development efforts are completely dedicated to the future. We now supply our modern fans combined with AC technology wherever unusual temperature ranges and materials are needed for demanding applications. The simple, and yet sturdily constructed, high-quality motor technology remains consistent even during exceptional demands. AC fans are used in many industrial sectors and in agriculture whenever absolute ruggedness and stability are the top priority. Intelligently used components such as the Ziehl-Abegg Fcontrol frequency inverters turn the combination of fans and AC motors into a modern, ecologically sound and efficient top-class performer. Our modern AC motors are maintenance-free and promise a secure investment in the future.

AC motor technology, robust in operation

Dummy



# Type key

## High-performance centrifugal impeller without motor with hub RH..Cpro / RH..C

Example **RH 45 C . C R / SM 20 . B 28**

| | |
|---|---|
| **Design** | |
| Centrifugal impeller | **RH** |
| **Impeller size** | |
| Impeller diameter 225mm | **22** |
| ... | **...** |
| Impeller diameter 1120 mm | **11** |
| **Series** | |
| **Index impeller blade external-diameters** | |
| Steel (C) | **1** |
| Steel (C) | **4** |
| ZAmid (Cpro) | **C** |
| **Direction of rotation viewed from inlet port** | |
| Clockwise (standard) | **R** |
| **Hub type** | |
| Clamping bush hub | **SM** |
| Fixed hub aluminium | **NA** |
| Fixed hub steel / grey cast | **NS** |
| **Hub size** | |
| **Inlet ring** | |
| Scope of delivery without inlet ring | **0** |
| Galvanised sheet metal with measuring device | **B** |
| Plastic coating with measuring device | **D** |
| Galvanised sheet with ring circuit* | **E** |
| Plastic coating with ring circuit* | **F** |
| Ex-inlet ring (copper) with measuring device | **X** |
| * optional for a surcharge | |
| **Drill size Ø for motor shaft end** | |

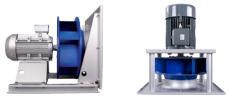
**Ordering information / examples**

The following shall be stated when ordering: Type, article no. and when ordering system components part no.

**Standard impeller version**
Clockwise with clamping bush hub SM20 with bush for shaft ∅ 28 including inlet ring, galvanised, with measuring device
**Type RH45C.CR/SM20-B28,**
**Art. no. 113914VAR**

# Type key

## Plug fan with motor ER..Cpro / ER..C, Ventilation unit with motor GR..Cpro / GR..C



| | |
|---|---|
| Example | **ER 45 C - 4 D N . E 7 . C R** |
| **Design** | |
| Plug fan | **ER** |
| Ventilation unit | **GR** |
| **Impeller size** | |
| Impeller diameter 225mm | **22** |
| ... | |
| Impeller diameter 1120 mm | **11** |
| **Series** | |
| **Pole count** | |
| 2 pole | **2** |
| 4 pole | **4** |
| 6 pole | **6** |
| 8 pole | **8** |
| **Type of current** | |
| Asynchronous standard motor with built-on frequency inverter | **H** |
| Three-phase current | **D** |
| without motor (kit) | **O** |
| **Motor** | |
| Asynchronous standard motor | **N** |
| Explosion-protected motor | **Y** |
| **Motor size** | |
| **Motor design** | |
| IMB 3 | **7** |
| IMB 5 | **5** |
| **Index impeller width resp. impeller blade external-dia-meters** | |
| Steel (C) | **1** |
| Steel (C) | **4** |
| ZAmid (Cpro) | **C** |
| **Direction of rotation** | |
| right | **R** |
| left | **L** |

**Ordering information / examples**

The following shall be stated when ordering: Type, article no. and when ordering system components part no.

The suffix to the art. no. denotes the model variant.
**- - - - - - /0F01 Plug fan ER with IE2 Motor**
**- - - - - - /0F01 Plug fan ER with IE2 Motor**
**- - - - - - /E01 Plug fan ER in explosion-proof version**

**Plug fan standard product**
Including inlet ring, galvanised, with measuring device
system components not included
**Type ER45C-4DN.E7.CR,**
**Art. no. 130584/2F01**

## General notes

The information and data contained in this catalogue were composed to the best of our best ability and do not absolve the user from its duty to check the suitability of the products with respect to its intended application.

ZIEHL-ABEGG reserves the right to make design changes, which are used for continuous technical improvement.

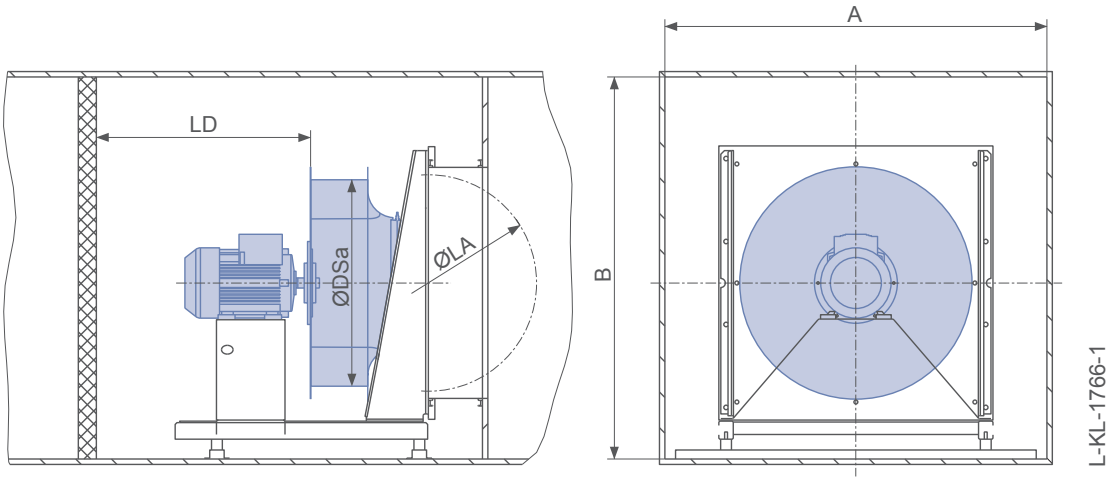
The sale of these products is subject to the Technical Conditions of Sale for fans in Precision Class 1 in accordance with DIN 24 166.

The customer is obligated to inform the supplier about general information concerning the intended use, the type of installation, the operating conditions and any other conditions that need to be taken into consideration if the order is not based on catalogue information.

## Copyright

# High-performance centrifugal fans

## Installation instructions



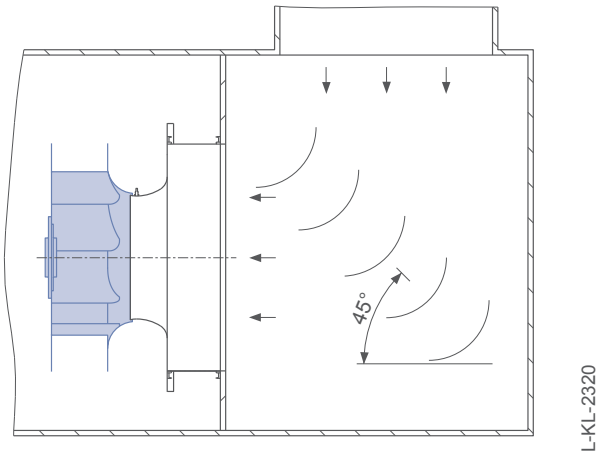

### Distances to other components

**Distance on the suction side:** LA ≥ 0.5 × DSa
In the case of disturbance flow (per example curved pipe at the suction side, flaps etc.): LA ≥ 1 x DSa

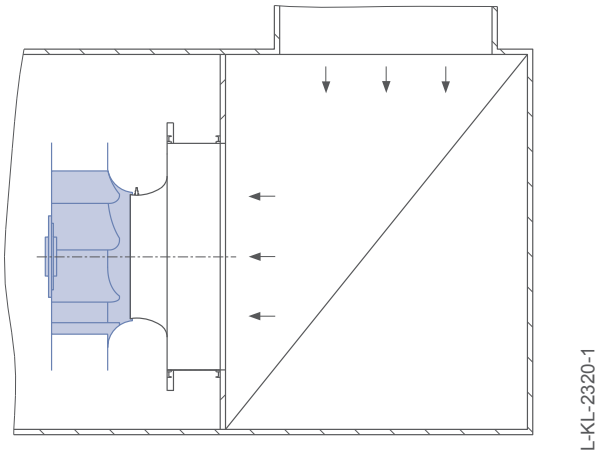
**Distance on the duct side:** LD ≥ 1 x DSa

**Housing wall distances:** A ≥ 1.8 x DSa; A = B

Additional baffle plates **must be** fitted in the suction chamber over the whole width of the AHU if there is a 90° change of direction before the intake.




Baffle plates as a ¼ circle




Baffle plate as a sheet metal mounted in an angle

# Selection programme FANselect

## The world‘s best selection programme for fans

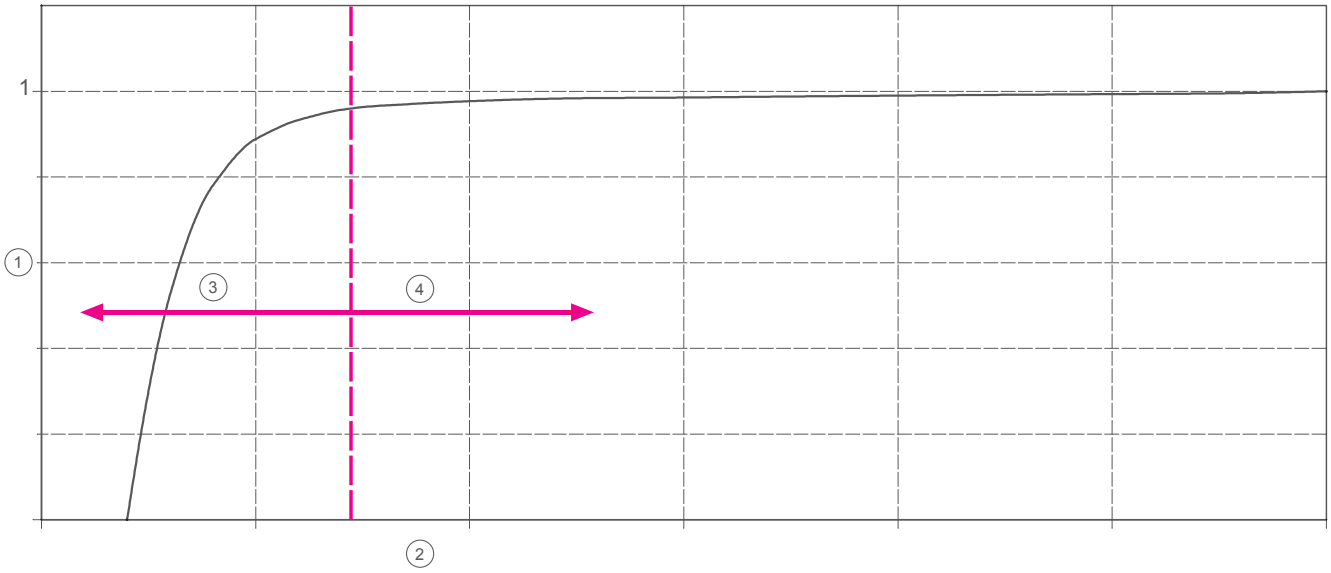

At www.fanselect.info, we are offering you FANselect, a selection programme for axial and centrifugal fans with the matching system components.

With FANselect, you can, for instance, select and calculate the fans listed in this catalogue. FANselect provides you a facility for calculating the efficiency, the acoustics, the SFP and much more. In addition, you can also select the matching systems components. You can comfortably save your configuration in a file or print it out.

The FANselect selection programme, including the customer DLL, is available for you to download at any time at www.fanselect.info.

### Impact of installation in the air handling unit

When selecting the RH..C, GR..C or ER..C types, it is possible to enter the dimensions of the air handling unit.
The characteristic curve of the fan and the acoustic power as compared with the characteristic-curve information are influenced by installation of the fan in an air handling unit. Likewise, using a guard grille also influences the characteristic curve and the acoustics. Ziehl-Abegg analysed this influence on the behaviour of centrifugal fans in experiments. These influences can be calculated in the FANselect selection programme. The diagram is merely intended to display a qualitative tendency of the empirically ascertained correction factors.




① Devaluation
② Reference surface
③ Impermissible area acc. RAL Quality Assurance Association
④ Permissible area acc RAL Quality Assurance Association

In box sections with unequal side lengths, a reference surface F (equivalent parameter) consisting of device-width A and device-high B can be calculated as an iteration when there is a minimum clearance of 0.3 x DSa between the impeller and the device wall: F= √AxB

# High-performance centrifugal fans

## Measuring device for determining air volume

The differential pressure compares the static pressure in front of the inlet ring with the static pressure in the inlet ring of the narrowest point. The differential pressure between the static pressures is related to the air volume via the energy conservation rate as follows:

$$q_V = k \cdot \sqrt{\Delta p_w}$$

where k takes into account the specific ring characteristics.

If the fan is operating at a temperature other than 20 °C, the following equation can be used to determine the volumetric flow:

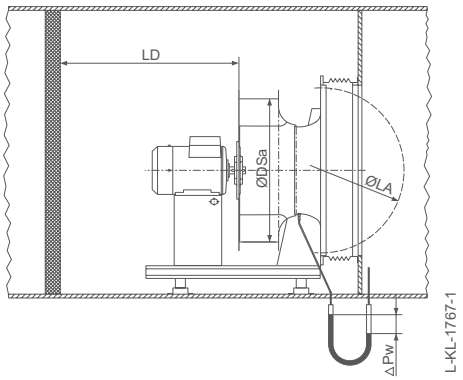
$$q_V = \sqrt{\frac{\rho_{20}}{\rho_{Betr}}} \cdot k_{20} \cdot \sqrt{\Delta p_w}$$

$\rho_{op}$ = air density at operating temperature

### Nozzle coefficients

| Type | k-factor* |
|---|---|
| RH22C | 47 |
| RH25C | 60 |
| RH28C | 75 |
| RH31C | 95 |
| RH35C | 121 |
| RH40C | 154 |
| RH45C | 197 |
| RH50C | 252 |
| RH56C | 308 |
| RH63C | 381 |
| RH71C | 490 |
| RH80C | 620 |
| RH90C | 789 |
| RH10C | 999 |
| RH11C | 1233 |

* $\rho$ = 1,20 kg/m³




**Example:**
Example: If an active pressure of 700 Pa is measured for the frame size ER63C, the air flow rate can be calculated
$q_V = k \cdot \sqrt{\Delta p_w} = 381 \cdot \sqrt{700} = 10080$ m³/h
The corresponding active pressure / air flow rate curves can be downloaded from our website under the product information section in the download area.

# High-performance centrifugal impeller RH..Cpro / RH..C

## Technical description


### Description RH..Cpro - ZAmid Technology

- Energy optimised for operation without spiral housing through special three-dimensional blade geometry made of specifically ZAmid technology
- 7 rear-curved blades
- Impeller with backward curved, diffusers for high efficiency and favourable acoustic behaviour
- With embossed rotary direction arrow
- Best impeller efficiency, resulting in conditional reduction of the absorbed power
- Rating plate with specification of the hub size, permissible max speed and balance quality
- With hub half-wedge balancing according to DIN ISO 8821, balance quality G2.5/6.3 according to ISO G 2.5/6.3 according to ISO 1940-1
- Balancing weights made of steel / corrosion resistant material
- Put the impeller through a performance test before installing. A „balance test“ in the installed state is required; possible rebalancing.
- The impellers are designed for continuous duty S1
- Fitting position horizontal and vertical

**ZAmid technology**

- Reduced weight through ZAmid technology
- Colour RAL 5002
- Reduced noise behaviour
- Same mechanical properties as steel
- From one cast, without welds
- Suitable for high circumferential speed
- Impeller corrosion-free
- Can be used from -20 °C to +80 °C
- Suitable for use in cleanrooms
- 100% recyclable

### Description RH..C- steel

- Energy optimised for operation without spiral housing through special blade design with rotating vaneless diffuser for high efficiency and favourable noise behaviour
- 7 rear-curved blades
- Welded sheet-steel blade design
- Surface protection through powder coating in or liquid painted - RAL 5002
- Enhanced corrosion protection on request
- Rating plate with specification of the hub size, perm. max speed and balance quality
- With glued rotary direction arrow
- Standard design to 80 °C
- With hub half-wedge balancing according to DIN ISO 8821, balance quality G 2.5/6.3 according to ISO 1940-1
- Balance weights steel / corrosion resistant material
- Put the impeller through a performance test after installation. A „balance test“ in the installed state is required; possible rebalancing required.
- The impellers are designed for continuous duty S1
- Fitting position horizontal and vertical

# High-performance centrifugal impeller RH..Cpro / RH..C

## Technical description

### Series RH..Cpro

| Type | Number of pole | Start-up time [s] |
|---|---|---|
| ER/RH25C.CR | 2 | 04 |
| ER/RH28C.CR | 2 | 06 |
| ER/RH31C.CR | 2 | 07 |
| ER/RH35C.CR | 2<br>4 | 07<br>04 |
| ER/RH40C.CR | 2<br>4 | 06<br>05 |
| ER/RH45C.CR | 2<br>4 | 05<br>08 |
| ER/RH50C.CR | 4 | 12 |
| ER/RH56C.CR | 4<br>6 | 13<br>08 |
| ER/RH63C.CR | 4<br>6 | 15<br>16 |

### Series RH..C

| Type | Number of pole | Start-up time [s] |
|---|---|---|
| ER/RH22C.1R | 2 | 03 |
| ER/RH25C.1R | 2 | 04 |
| ER/RH28C.1R | 2 | 06 |
| ER/RH31C.1R | 2 | 07 |
| ER/RH35C.1R | 2<br>4 | 07<br>02 |
| ER/RH40C.1R | 2<br>4 | 06<br>05 |
| ER/RH45C.1R | 2<br>4 | 05<br>08 |
| ER/RH50C.1R | 4 | 12 |
| ER/RH56C.1R | 4<br>6 | 13<br>08 |
| ER/RH63C.1R | 4<br>6 | 15<br>16 |
| ER/RH71C.1R | 4<br>6 | 13<br>18 |
| ER/RH80C.1R | 4<br>6 | 13<br>21 |
| ER/RH90C.1R | 4<br>6<br>8 | 11<br>19<br>25 |
| ER/RH10C.1R | 6<br>8 | 18<br>27 |
| ER/RH11C.4R | 6<br>8 | 21<br>24 |
| ER/RH11C.1R | 6<br>8 | 21<br>24 |

### Forces and stress during operation

The rotating impeller is stressed through centrifugal and compressive forces in addition to the normal residual imbalance. Residual imbalance denotes the initial imbalance and its amplification during installation (seating related imbalance) and the conditions that change during the course of operation (deformation due to the setting of material through influences of temperature/ stress).

The residual imbalance increases during operation due to sedimentary deposition as well as through the wear and tear of the impeller. Due to the changing residual imbalance during operation, a systematic verification and, if applicable, a rebalancing of the wheel is required (see assembly instructions L-BAL-018).

Additional impeller stress occurs (Wöhler diagram) through start-up / stop procedures, as well as through control operations (acceleration / deceleration phases). Superimposed stress caused by system vibrations and impacts as well as the dynamic oscillations from the system that affect the fan impeller also lead to an increase in impeller stress. „Superimposed characteristic frequencies" from other system parts (e.g., pipelines, frame structure, etc.) and rotational vibration caused by the drive (frequency inverter, operation) are additional sources of stress. Likewise, additional stress can appear due to temperature effects, fluids, and corrosion / wear (during operation and during standstill).

All of the above-mentioned additional forces are principally of a transient and dynamic nature and cannot be exactly recorded or calculated. A significant indication of the presence of additional stress is an increase in the frequency of vibration (see assembly instructions L-BAL-018). It is important to ensure that the additional stress is kept as low as possible by responding appropriately.

For the starting times for the impellers please see the tables to the left.

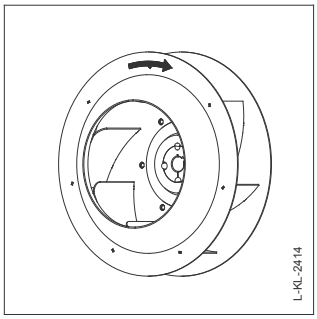
**Stresses due to start / stop procedures connected with dynamic control in impellers generally lead to fatigue fractures in the shroud and the blade's trailing edge (the crack expands from the weld seam obliquely toward the middle of the blade). If such a use is planned, this is to be stated during the enquiry.**

# High-performance centrifugal impeller RH..Cpro / RH..C

## Technical description

### Direction of rotation

Clockwise rotation when looking at the inlet of the impeller. In the opposite direction, i.e. impellers with forward curved blades, there is the danger that the motor will overload. It is therefore absolutely necessary to check the direction of rotation before putting the fan into operation.




### Series RH..Cpro

| Type | Max. speed $min^{-1}$ | Clamping bush hub | Moment of inertia with clamping bush hub $kgm^2$ | Impeller with clamping bush hub | Fixed hub | Moment of inertia with fixed hub $kgm^2$ | Impeller with fixed hub |
|---|---|---|---|---|---|---|---|
| RH25C.CR | 5350 | SM12-1 | 0.018 | 3 | NA02 | 0.015 | 2 |
| RH28C.CR | 4775 | SM12-2 | 0.030 | 4 | NA04 | 0.023 | 2 |
| RH31C.CR | 4245 | SM12-2 | 0.044 | 4 | NA04 | 0.038 | 3 |
| RH35C.CR | 3765 | SM12-2 | 0.074 | 5 | NA04 | 0.068 | 4 |
| RH40C.CR | 3340 | SM12-2 | 0.124 | 6 | NA04 | 0.118 | 5 |
| RH40C.CR | 3340 | SM20 | 0.140 | 8 | | | |
| RH45C.CR | 2970 | SM20 | 0.213 | 9 | | | |
| RH50C.CR | 2675 | SM20 | 0.352 | 11 | | | |
| RH56C.CR | 2310 | SM20 | 0.610 | 14 | | | |
| RH63C.CR | 2060 | SM25 | 1.084 | 21 | | | |

### Series RH..C

| Type | Max. speed $min^{-1}$ | Clamping bush hub | Moment of inertia with clamping bush hub $kgm^2$ | Impeller with clamping bush hub | Fixed hub | Moment of inertia with fixed hub $kgm^2$ | Impeller with fixed hub |
|---|---|---|---|---|---|---|---|
| RH22C.1R | 5940 | SM12-1 | 0.018 | 3 | NA02 | 0.015 | 2 |
| RH25C.1R | 5350 | SM12-1 | 0.026 | 3 | NA02 | 0.024 | 3 |
| RH28C.1R | 4775 | SM12-2 | 0.042 | 4 | NA04 | 0.036 | 3 |
| RH31C.1R | 4245 | SM12-2 | 0.073 | 6 | NA04 | 0.066 | 4 |
| RH35C.1R | 3765 | SM12-2 | 0.113 | 7 | NA04 | 0.107 | 5 |
| RH40C.1R | 3340 | SM12-2 | 0.211 | 9 | NA04 | 0.205 | 8 |
| RH40C.1R | 3340 | SM20 | 0.224 | 11 | NS06 | 0.223 | 11 |
| RH45C.1R | 2970 | SM20 | 0.350 | 13 | NS06 | 0.346 | 13 |
| RH50C.1R | 2675 | SM20 | 0.667 | 18 | NS06 | 0.664 | 18 |
| RH56C.1R | 2310 | SM20 | 1.062 | 22 | NS06 | 1.059 | 23 |
| RH63C.1R | 2060 | SM25 | 2.157 | 36 | NS07 | 2.158 | 38 |
| RH71C.1R | 1840 | SM25 | 3.430 | 44 | NS07 | 3.431 | 46 |
| RH80C.1R | 1620 | SM25 | 6.996 | 68 | NS07 | 7.000 | 69 |
| RH90C.1R | 1475 | SM30 | 11.415 | 91 | NS08 | 11.417 | 93 |
| RH10C.1R | 1280 | SM30 | 22.039 | 133 | NS08 | 22.043 | 138 |
| RH11C.4R | 1030 | SM30 | 39.889 | 190 | NS08 | 39.893 | 191 |
| RH11C.1R | 1190 | SM30 | 50.483 | 240 | NS08* | 50.487 | 244 |
| RH11C.1R | 1320 | SM35 | 50.547 | 245 | | | |

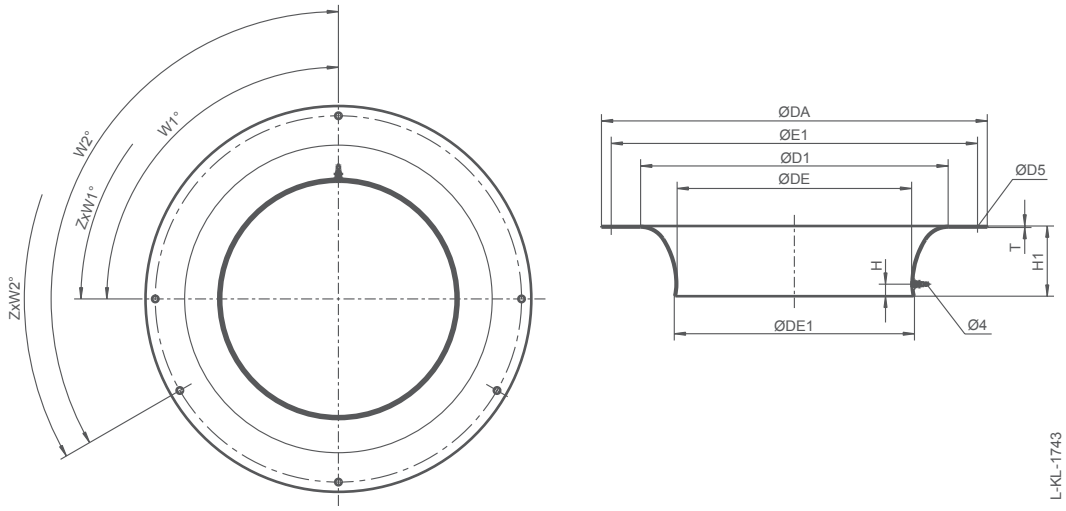
* max. shaft diameter 65

# Inlet ring for RH..Cpro / RH..C

## Technical description

### Inlet ring

- Made of galvanised sheet steel
- With measuring device for volume flow measurement
- Fastening pitch diameter in conformity with DIN EN 12 220




| Inlet ring | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Article no.** **a** | **b** | DA | DE | DE1 | D1 | D5 | E1 | H | H1 | T | W1° (1) | ZxW1° (1) | W2° (2) | ZxW2° (2) | **Inlet guard (3)** | Nozzle |
| **RH22C** | **00401503** | **00401736** | 253 | 135 | 140 | 179 | 8.5 | 233 | 12 | 42 | 1.5 | 60° | 6x60° | - | - | **00409757** | 1 |
| **RH25C** | **00401504** | **00401737** | 277 | 153 | 158 | 202 | 8.5 | 257 | 12 | 47 | 1.5 | 60° | 6x60° | - | - | **00409758** | 1 |
| **RH28C** | **00401505** | **00401738** | 303 | 171 | 176 | 225 | 8.5 | 283 | 12 | 52 | 1.5 | 60° | 6x60° | - | - | **00409759** | 1 |
| **RH31C** | **00401506** | **00401739** | 343 | 193 | 198 | 253 | 8.5 | 317 | 12 | 59 | 1.5 | 90° | 4x90° | 120° | 3x120° | **00409760** | 1 |
| **RH35C** | **00401296** | **00401740** | 378 | 218 | 223 | 286 | 8.5 | 352 | 12 | 66 | 1.5 | 90° | 4x90° | 120° | 3x120° | **00409761** | 1 |
| **RH40C** | **00401297** | **00401741** | 418 | 246 | 252 | 322 | 8.5 | 392 | 13 | 74 | 2.0 | 90° | 4x90° | 120° | 3x120° | **00409762** | 2 |
| **RH45C** | **00401298** | **00401742** | 464 | 278 | 285 | 364 | 8.5 | 438 | 14 | 83 | 2.0 | 90° | 4x90° | 120° | 3x120° | **00409763** | 3 |
| **RH50C** | **00401299** | **00401743** | 514 | 312 | 320 | 410 | 8.5 | 488 | 16 | 94 | 2.0 | 90° | 4x90° | 120° | 3x120° | **00409764** | 3 |
| **RH56C** | **00401300** | **00401744** | 564 | 347 | 355 | 455 | 8.5 | 538 | 18 | 104 | 2.0 | 90° | 4x90° | 120° | 3x120° | **00409765** | 4 |
| **RH63C** | **00401301** | **00401745** | 634 | 389 | 397 | 510 | 10.5 | 600 | 20 | 117 | 2.0 | 60° | 6x60° | 90° | 4x90° | **00409766** | 5 |
| **RH71C** | **00401302** | **00401746** | 704 | 437 | 447 | 574 | 10.5 | 670 | 23 | 131 | 2.0 | 60° | 6x60° | 90° | 4x90° | **00409767** | 6 |
| **RH80C** | **00401303** | **00401747** | 784 | 493 | 504 | 646 | 10.5 | 750 | 25 | 148 | 2.5 | 60° | 6x60° | 90° | 4x90° | **00409768** | 9 |
| **RH90C** | **00401304** | **00401748** | 874 | 555 | 567 | 728 | 10.5 | 840 | 29 | 167 | 2.5 | 45° | 8x45° | - | - | **00409769** | 11 |
| **RH10C** | **00401305** | **00401749** | 974 | 625 | 637 | 819 | 10.5 | 940 | 32 | 187 | 2.5 | 45° | 8x45° | - | - | **00409770** | 14 |
| **RH11C** | **00401306** | **00401750** | 1075 | 694 | 707 | 910 | 10.5 | 1041 | 36 | 208 | 2.5 | 22.5° | 16x22.5° | - | - | **00409771** | 17 |

a) With measuring device, made of galvanised sheet steel

b) With measuring device, plastic coated

(1) Fixation inlet jet

(2) Mounting inlet guard

(3) Part no. inlet guard for RH..C, GR..C

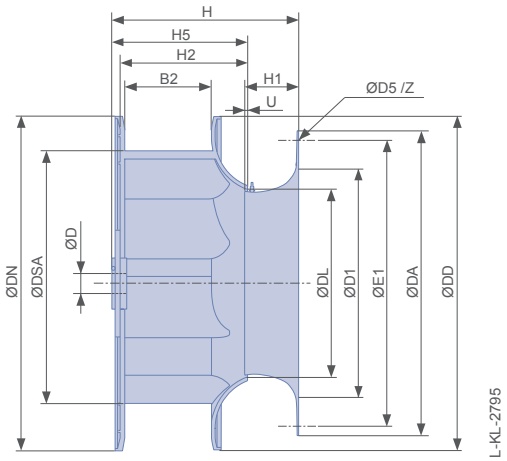
Measuring device for determining air volume Page 19
Inlet guard for Ex-design Page 90

# High-performance centrifugal impeller RH..Cpro

## with clamping bush hub

### Description

**Scope of delivery:** Bolted hub each including clamping bush hub
**Bore diameter:** Specification corresponding to motor classification
**Surface protection hub:**
SM12 - SM20: Phosphate coating
SM25: Phosphate coated and painted RAL 7011




**Impeller RH..Cpro with clamping bush hub**

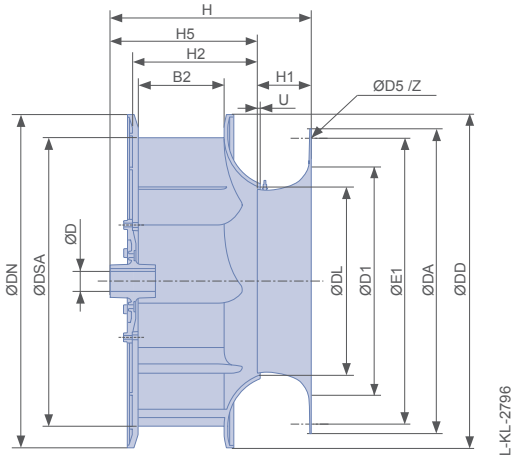
| Type | Article no. | Dimensions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D | B2 | DA | DD | DL | DN | DSA | D1 | D5 | E1 | H | H1 | H2 | H5 | U | Z |
| | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | |
| **RH25C.CR/SM12-1** | **113908VAR** | 19-24 | 76 | 277 | 290 | 164 | 290 | 257 | 202 | 8.5 | 257 | 174 | 47 | 114 | 129 | 2.5 | 6x60° |
| **RH28C.CR/SM12-2** | **113909VAR** | 19-28 | 85 | 303 | 322 | 182 | 322 | 286 | 225 | 8.5 | 283 | 191 | 52 | 126 | 142 | 3.0 | 6x60° |
| **RH31C.CR/SM12-2** | **113910VAR** | 19-28 | 95 | 343 | 360 | 204 | 360 | 320 | 253 | 8.5 | 317 | 211 | 59 | 140 | 156 | 3.0 | 4x90° |
| **RH35C.CR/SM12-2** | **113911VAR** | 19-28 | 106 | 378 | 406 | 230 | 406 | 360 | 286 | 8.5 | 352 | 234 | 66 | 156 | 172 | 3.5 | 4x90° |
| **RH40C.CR/SM12-2** | **113912VAR** | 19-28 | 118 | 418 | 457 | 258 | 457 | 406 | 322 | 8.5 | 392 | 261 | 74 | 176 | 191 | 4.0 | 4x90° |
| **RH40C.CR/SM20** | **113913VAR** | 38 | 118 | 418 | 457 | 258 | 457 | 406 | 322 | 8.5 | 392 | 263 | 74 | 176 | 193 | 4.0 | 4x90° |
| **RH45C.CR/SM20** | **113914VAR** | 19-38 | 133 | 464 | 515 | 291 | 515 | 457 | 364 | 8.5 | 438 | 293 | 83 | 197 | 214 | 4.5 | 4x90° |
| **RH50C.CR/SM20** | **113915VAR** | 24-42 | 150 | 514 | 579 | 328 | 579 | 514 | 410 | 8.5 | 488 | 327 | 94 | 221 | 239 | 5.0 | 4x90° |
| **RH56C.CR/SM20** | **113916VAR** | 28-42 | 167 | 564 | 644 | 363 | 644 | 572 | 455 | 8.5 | 538 | 363 | 104 | 247 | 265 | 6.0 | 4x90° |
| **RH63C.CR/SM25** | **113917VAR** | 28-42 | 187 | 634 | 721 | 407 | 721 | 640 | 510 | 10.5 | 600 | 410 | 117 | 275 | 300 | 6.5 | 6x60° |

# High-performance centrifugal impeller RH..Cpro

## with fixed hub

### Description

**Scope of delivery:** Bolted hub with internal diameter
**Bore diameter:** Specification corresponding to motor classification
**Surface protection hub:**
NA02 - NA04 (aluminium): bare




**Impeller RH..Cpro with fixed hub**

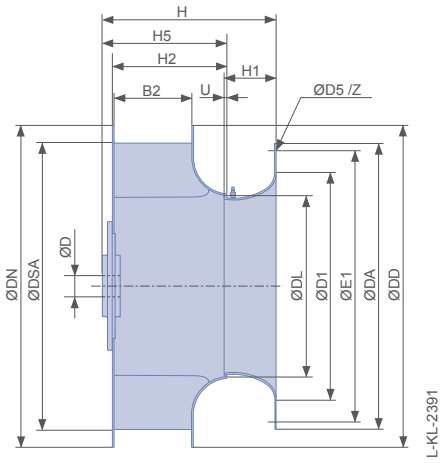
| Type | Article no. | Dimensions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D mm | B2 mm | DA mm | DD mm | DL mm | DN mm | DSA mm | D1 mm | D5 mm | E1 mm | H mm | H1 mm | H2 mm | H5 mm | U mm | Z |
| RH25C.CR/NA02 | 113918VAR | 19-24 | 76 | 277 | 290 | 164 | 290 | 257 | 202 | 8.5 | 257 | 189 | 47 | 114 | 144 | 2.5 | 6x60° |
| RH28C.CR/NA04 | 113919VAR | 19-28 | 85 | 303 | 322 | 182 | 322 | 286 | 225 | 8.5 | 283 | 206 | 52 | 126 | 157 | 3.0 | 6x60° |
| RH31C.CR/NA04 | 113920VAR | 19-28 | 95 | 343 | 360 | 204 | 360 | 320 | 253 | 8.5 | 317 | 226 | 59 | 140 | 171 | 3.0 | 4x90° |
| RH35C.CR/NA04 | 113921VAR | 19-28 | 106 | 378 | 406 | 230 | 406 | 360 | 286 | 8.5 | 352 | 249 | 66 | 156 | 187 | 3.5 | 4x90° |
| RH40C.CR/NA04 | 113922VAR | 19-28 | 118 | 418 | 457 | 258 | 457 | 406 | 322 | 8.5 | 392 | 276 | 74 | 176 | 206 | 4.0 | 4x90° |

# High-performance centrifugal impeller RH..C

## with clamping bush hub

### Description

**Scope of delivery:** Bolted hub each including clamping bush hub
**Bore diameter:** Specification corresponding to motor classification
**Surface protection hub:**
SM12 - SM20: Phosphate coating
SM25 - SM35: Phosphate coated and painted RAL 7011




**Impeller RH..C with clamping bush hub**

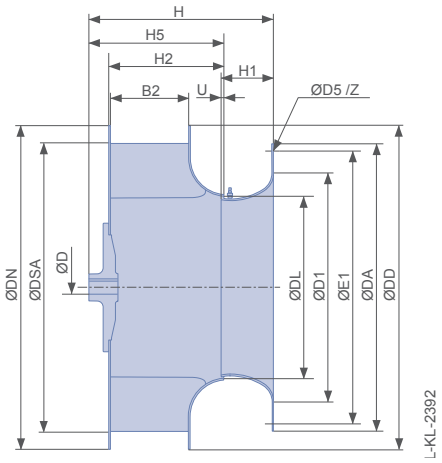
| Type | Article no. | Dimensions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D mm | B2 mm | DA mm | DD mm | DL mm | DN mm | DSA mm | D1 mm | D5 mm | E1 mm | H mm | H1 mm | H2 mm | H5 mm | U mm | Z |
| RH22C.1R/SM12-1 | 112261VAR | 14-19 | 62 | 253 | 257 | 145 | 257 | 229 | 179 | 8.5 | 233 | 147 | 42 | 92 | 107 | 2.0 | 6x60° |
| RH25C.1R/SM12-1 | 112262VAR | 19-24 | 70 | 277 | 290 | 163 | 290 | 258 | 202 | 8.5 | 257 | 163 | 47 | 103 | 119 | 2.5 | 6x60° |
| RH28C.1R/SM12-2 | 112263VAR | 19-28 | 78 | 303 | 322 | 181 | 322 | 286 | 225 | 8.5 | 283 | 179 | 52 | 115 | 130 | 3.0 | 6x60° |
| RH31C.1R/SM12-2 | 112264VAR | 19-28 | 87 | 343 | 360 | 203 | 360 | 320 | 253 | 8.5 | 317 | 199 | 59 | 128 | 144 | 3.0 | 4x90° |
| RH35C.1R/SM12-2 | 112265VAR | 19-28 | 98 | 378 | 406 | 228 | 406 | 361 | 286 | 8.5 | 352 | 222 | 66 | 144 | 160 | 3.5 | 4x90° |
| RH40C.1R/SM12-2 | 112266VAR | 19-28 | 111 | 418 | 457 | 257 | 457 | 406 | 322 | 8.5 | 392 | 248 | 74 | 163 | 178 | 4.0 | 4x90° |
| RH40C.1R/SM20 | 112275VAR | 38 | 111 | 418 | 457 | 257 | 457 | 406 | 322 | 8.5 | 392 | 250 | 74 | 163 | 180 | 4.0 | 4x90° |
| RH45C.1R/SM20 | 112267VAR | 19-38 | 125 | 464 | 515 | 290 | 515 | 458 | 364 | 8.5 | 438 | 279 | 83 | 183 | 200 | 4.5 | 4x90° |
| RH50C.1R/SM20 | 112268VAR | 24-42 | 140 | 514 | 579 | 326 | 579 | 515 | 410 | 8.5 | 488 | 312 | 94 | 206 | 224 | 5.0 | 4x90° |
| RH56C.1R/SM20 | 112269VAR | 28-42 | 156 | 564 | 644 | 363 | 644 | 572 | 455 | 8.5 | 538 | 344 | 104 | 229 | 246 | 6.0 | 4x90° |
| RH63C.1R/SM25 | 112270VAR | 28-42 | 174 | 634 | 721 | 406 | 721 | 641 | 510 | 10.5 | 600 | 391 | 117 | 256 | 281 | 6.5 | 6x60° |
| RH71C.1R/SM25 | 112271VAR | 28-48 | 196 | 704 | 811 | 457 | 811 | 721 | 573 | 10.5 | 670 | 437 | 131 | 288 | 313 | 7.0 | 6x60° |
| RH80C.1R/SM25 | 112272VAR | 38-48 | 221 | 784 | 914 | 515 | 914 | 813 | 646 | 10.5 | 750 | 490 | 148 | 325 | 350 | 8.0 | 6x60° |
| RH90C.1R/SM30 | 112273VAR | 38-55 | 249 | 874 | 1030 | 580 | 1030 | 916 | 728 | 10.5 | 840 | 552 | 167 | 366 | 394 | 9.0 | 8x45° |
| RH10C.1R/SM30 | 112274VAR | 42-65 | 280 | 974 | 1159 | 653 | 1159 | 1030 | 819 | 10.5 | 940 | 617 | 187 | 412 | 440 | 10.0 | 8x45° |
| RH11C.4R/SM30 | 114157VAR | 55-60 | 315 | 1075 | 1287 | 725 | 1287 | 1145 | 910 | 10.5 | 1041 | 688 | 208 | 463 | 491 | 11.0 | 16x22.5° |
| RH11C.1R/SM30 | 112469VAR | 55-75 | 390 | 1075 | 1287 | 725 | 1287 | 1145 | 910 | 10.5 | 1041 | 765 | 208 | 540 | 568 | 11.0 | 16x22.5° |
| RH11C.1R/SM35 | 113583VAR | 80 | 390 | 1075 | 1287 | 725 | 1287 | 1145 | 910 | 10.5 | 1041 | 769 | 208 | 540 | 572 | 11.0 | 16x22.5° |

# High-performance centrifugal impeller RH..C

## with fixed hub

### Description

**Scope of delivery:** Bolted hub with internal diameter
**Bore diameter:** Specification corresponding to motor classification
**Surface protection hub:**
NA02 - NA04 (aluminium): bare
NS06 - NS08 (grey cast): oiled

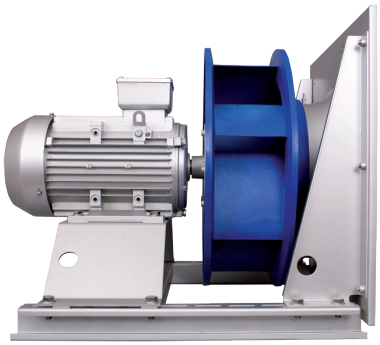



**Impeller RH..C with fixed hub**

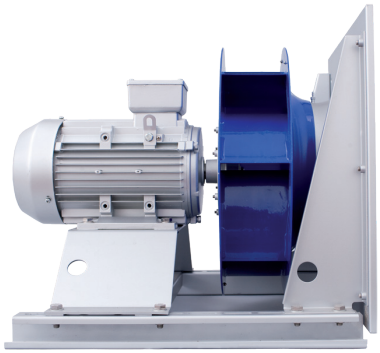
| Type | Article no. | Dimensions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D | B2 | DA | DD | DL | DN | DSA | D1 | D5 | E1 | H | H1 | H2 | H5 | U | Z |
| | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | |
| RH22C.1R/NA02 | 112276VAR | 14 | 62 | 253 | 257 | 145 | 257 | 229 | 179 | 8.5 | 233 | 152 | 42 | 92 | 112 | 2.0 | 6x60° |
| RH22C.1R/NA02 | 112276VAR | 19 | 62 | 253 | 257 | 145 | 257 | 229 | 179 | 8.5 | 233 | 162 | 42 | 92 | 122 | 2.0 | 6x60° |
| RH25C.1R/NA02 | 112277VAR | 19-24 | 70 | 277 | 290 | 163 | 290 | 258 | 202 | 8.5 | 257 | 178 | 47 | 103 | 134 | 2.5 | 6x60° |
| RH28C.1R/NA04 | 112278VAR | 19-28 | 78 | 303 | 322 | 181 | 322 | 286 | 225 | 8.5 | 283 | 194 | 52 | 115 | 145 | 3.0 | 6x60° |
| RH31C.1R/NA04 | 112279VAR | 19-28 | 87 | 343 | 360 | 203 | 360 | 320 | 253 | 8.5 | 317 | 214 | 59 | 128 | 159 | 3.0 | 4x90° |
| RH35C.1R/NA04 | 112280VAR | 19-28 | 98 | 378 | 406 | 228 | 406 | 361 | 286 | 8.5 | 352 | 237 | 66 | 144 | 175 | 3.5 | 4x90° |
| RH40C.1R/NA04 | 112281VAR | 19-28 | 111 | 418 | 457 | 257 | 457 | 406 | 322 | 8.5 | 392 | 263 | 74 | 163 | 193 | 4.0 | 4x90° |
| RH40C.1R/NS06 | 112290VAR | 38 | 111 | 418 | 457 | 257 | 457 | 406 | 322 | 8.5 | 392 | 268 | 74 | 163 | 198 | 4.0 | 4x90° |
| RH45C.1R/NS06 | 112282VAR | 19 | 125 | 464 | 515 | 290 | 515 | 458 | 364 | 8.5 | 438 | 287 | 83 | 183 | 208 | 4.5 | 4x90° |
| RH45C.1R/NS06 | 112282VAR | 24-38 | 125 | 464 | 515 | 290 | 515 | 458 | 364 | 8.5 | 438 | 297 | 83 | 183 | 218 | 4.5 | 4x90° |
| RH50C.1R/NS06 | 112283VAR | 24-42 | 140 | 514 | 579 | 326 | 579 | 515 | 410 | 8.5 | 488 | 330 | 94 | 206 | 242 | 5.0 | 4x90° |
| RH56C.1R/NS06 | 112284VAR | 28-42 | 156 | 564 | 644 | 363 | 644 | 572 | 455 | 8.5 | 538 | 362 | 104 | 229 | 264 | 6.0 | 4x90° |
| RH63C.1R/NS07 | 112285VAR | 28-42 | 174 | 634 | 721 | 406 | 721 | 641 | 510 | 10.5 | 600 | 402 | 117 | 256 | 292 | 6.5 | 6x60° |
| RH71C.1R/NS07 | 112286VAR | 28-48 | 196 | 704 | 811 | 457 | 811 | 721 | 573 | 10.5 | 670 | 448 | 131 | 288 | 324 | 7.0 | 6x60° |
| RH80C.1R/NS07 | 112287VAR | 38-48 | 221 | 784 | 914 | 515 | 914 | 813 | 646 | 10.5 | 750 | 500 | 148 | 325 | 361 | 8.0 | 6x60° |
| RH90C.1R/NS08 | 112288VAR | 38-55 | 249 | 874 | 1030 | 580 | 1030 | 916 | 728 | 10.5 | 840 | 559 | 167 | 366 | 401 | 9.0 | 8x45° |
| RH10C.1R/NS08 | 112289VAR | 42-65 | 280 | 974 | 1159 | 653 | 1159 | 1030 | 819 | 10.5 | 940 | 624 | 187 | 412 | 447 | 10.0 | 8x45° |
| RH11C.4R/NS08 | 114158VAR | 55-60 | 315 | 1075 | 1287 | 725 | 1287 | 1145 | 910 | 10.5 | 1041 | 705 | 208 | 463 | 508 | 11.0 | 16x22.5° |
| RH11C.1R/NS08 | 112470VAR | 55-65 | 390 | 1075 | 1287 | 725 | 1287 | 1145 | 910 | 10.5 | 1041 | 782 | 208 | 540 | 585 | 11.0 | 16x22.5° |

# Plug fan ER..Cpro / ER..C

## with standard motor



Plug fan ER40Cpro with IEC-standard motor IMB3



Plug fan ER40C with IEC-standard motor IMB3

### Description

- Compact, optimised construction made of galvanised sheet steel
- Integrated inlet ring designed for optimum air flow, made of galvanised steel sheet with measuring device for determination of flow rate
- Impeller balanced with hub; admissible vibration severity less than 2.8 mm/s in conformity with ISO 14694
- Whole unit fastened on C profiles or welded base frame (ER11C) and hence can be set up on rubber dampers or spring suspension
- IEC motor 400 V / 50 Hz, three phase; IP 55 design, IMB3, IE2*
- Motor protection by PTC thermistor, Thermal class 155
- Motor suitable for frequency inverter operation
- Suitable Ziehl-Abegg frequency inverter Icontrol in IP 54 and IP 20 as well as Icontrol flat in IP 54 (for space saving installation in air handling units)
- Motor allocation safe against overloading at 50 Hz operation directly at mains
- Standard design for conveyance temperatures -20 °C to 40 °C
- Mounting only with horizontal motor shaft allowed; motor feet on button

* 2, 4 and 6 pole motors in the power range of 0.75 to 375 kW are marked with the efficiency class IE1, IE2, IE3 or IE4 in accordance with IEC 60034-30.
8 pole motors are not accredited according to IEC 60034-30, but perform with high efficiency.

**Further designs on request:**

- Motor with built-on frequency inverter
- Siemens motors
- Higher corrosion protection

### Suitable frequency inverter


Ziehl-Abegg frequency inverter Icontrol IP54 / IP20

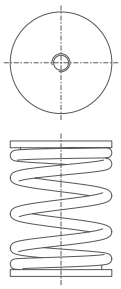
Ziehl-Abegg frequency inverter Icontrol flat IP54

VEM-motor with attached danfoss-frequency inverter on request


- Measuring device for determining air volume — Page 19
- Rubber or spring dampers — Page 109
- Description of high-performance impeller — Page 20
- Explosion protected design — Page 86
- Frequency inverter Icontrol — Page 92

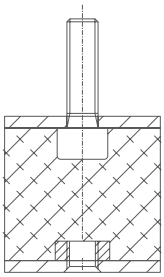
# Plug fan ER..Cpro / ER..C

## Description of system components



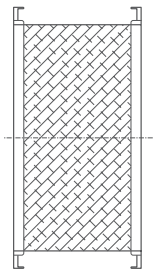
### Spring vibration dampers

Spring vibration dampers can be employed to prevent the transfer of structural-borne noise and vibrations to plants and buildings. When correctly arranged, they possess a high degree of insulation efficiency and correspondingly high spring-cushioning. Please refer to the technical data for placement and dimensions.
Scope of delivery: Spring vibration dampers are not mounted.



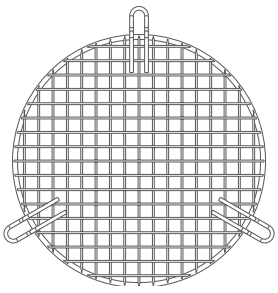
### Rubber dampers

As an alternative to spring vibration dampers, rubber dampers can be used for structural-borne noise isolation. These possess a lower level of isolation efficiency but have good attenuation properties, which can be advantageous in certain kinds of set-ups. In case of high fan speeds and rigid substructures or a concrete foundation, installing rubber dampers is often sufficient. Please refer to the technical specifications for placement and dimensions.
Scope of delivery: Rubber dampers are not mounted.



### Flexible intake flanges

Square intake flanges with elastic connectors are available for the flexible connection of plug fans. The fabric material is made of polyester/PVC; the frame is made of galvanised steel.
Max. permissible temperature 80 °C.
Please refer to the technical specifications for dimensions.
Coated design on request.

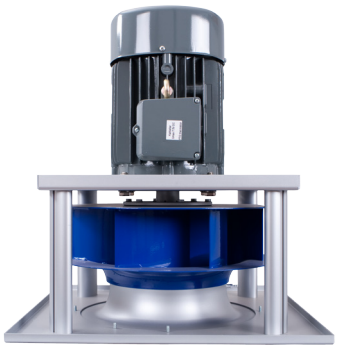


### Guard grill

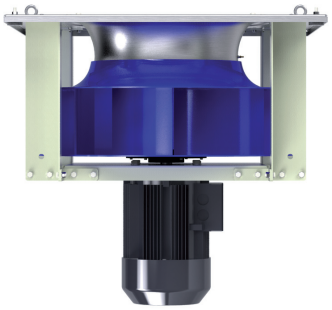
The fans are not ready-for-use products, but have been designed as components for air conditioning, ventilation, and exhaust air removal systems for equipment installation. They do not come equipped with built-in accidental contact-protection. They may only be operated after being installed in accordance with their intended use and all necessary safety devices have been attached and connected. If air intake and exhaust vents are freely accessible, protective devices corresponding to DIN EN ISO 13857 must be attached to the fan.
The protective devices must be engineered in accordance with the definitions in DIN EN ISO 12100, section 3.22 „Isolating guards“, section 4 „Technical protection measures“.
Suitable guard grills for the intake side can be found on the rear fold-out page.

# Ventilation unit GR..Cpro / GR..C

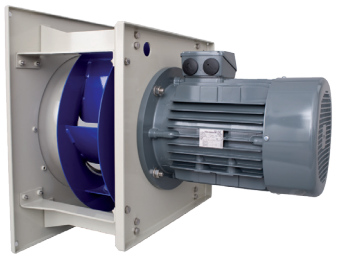
## Technical description



GR40C - Fitting position Vu



GR80C - Fitting position Vo



GR40C - Fitting position H

### For vertical airflow

**GR25C - GR63C** (Cpro) / **GR22C - GR63C** (Steel)
- Bolted supporting structure made of galvanised sheet steel or of sheet steel with an epoxy/polyester powder coating RAL 7032
- Galvanised components can be coated with epoxy/polyester powder coating RAL 7032 for a surcharge
- Ventilation data (characteristic curve) and motor allocation equivalent to ER..C
- Inlet ring designed for optimum impeller inflow, made of galvanised steel sheet, with measuring device for determination of flow rate
- Fitting position vertical motor shaft
  Vu = impeller intake from below
  Vo = Impeller intake from above
- Module decoupled by rubber dampers

**GR71C - GR10C** (only in steel design)
- Rugged bolted construction made of sheet steel with an epoxy/polyester powder coating RAL 7032.
- Galvanised components can be coated with epoxy/polyester powder coating RAL 7032 for a surcharge
- Ventilation data (characteristic curve) and motor allocation equivalent to ER..C
- Inlet ring designed for optimum impeller inflow, made of galvanised steel sheet, with measuring device for determination of flow rate
- Fitting position vertical motor shaft
  Vu = impeller intake from below
  Vo = Impeller intake from above
- Module decoupled by rubber dampers

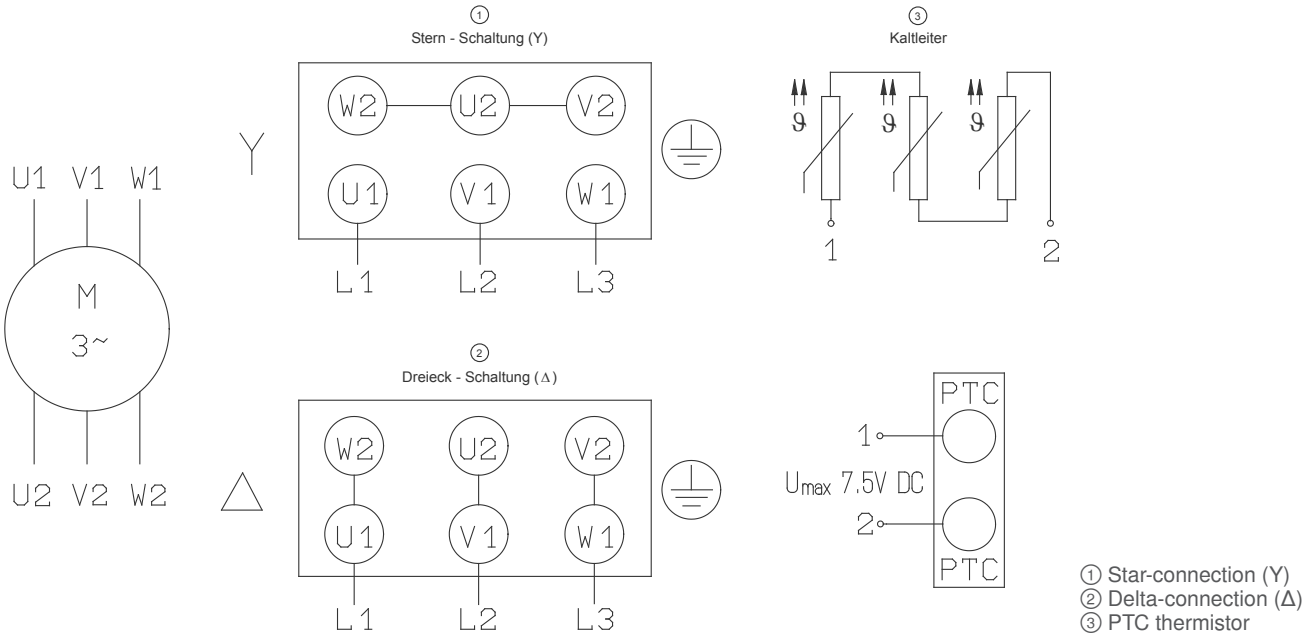
### For horizontal airflow

**GR25C - GR63C** (Cpro) / **GR22C - GR63C** (Steel)
- Rugged bolted construction of galvanised steel sheet
- Special protection against corrosion by epoxy/polyester powder coating RAL 7032 - in GR..Cpro available for a surcharge; in GR..C included in standard
- Ventilation data (characteristic curve) and motor allocation equivalent to ER..C
- Inlet ring designed for optimum impeller inflow, made of galvanised steel sheet, with measuring device for determination of flow rate
- Fitting position horizontal motor shaft

Measuring device for determining air volume Page 19

# Connection diagram for motors

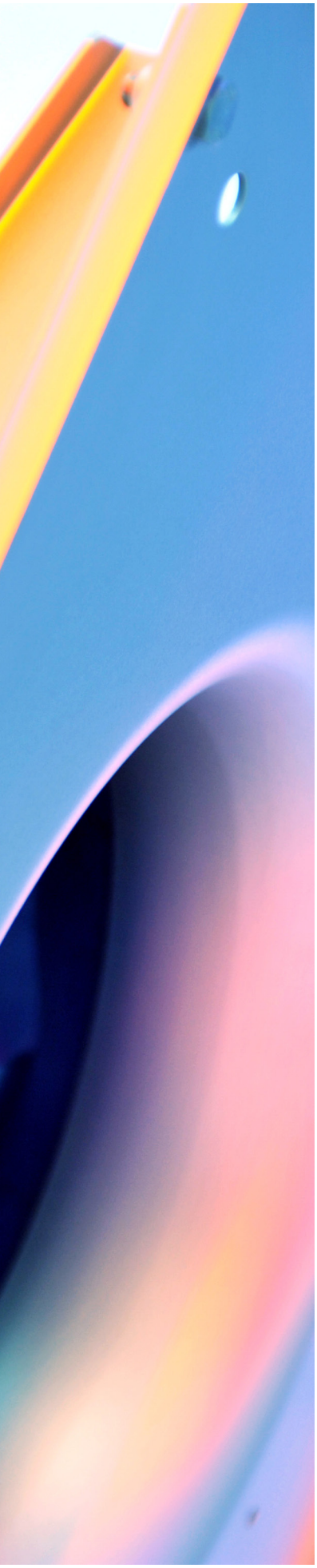
## Three-phase A.C. motor with PTC thermistor for one speed




① Star-connection (Y)
② Delta-connection (Δ)
③ PTC thermistor

Reversible rotation by interchanging phases

Rated voltage:
**Motor size ≤ 90:** 230 V Δ / 400 V Y
**Motor size ≥ 100:** 400 V Δ / 690 V Y

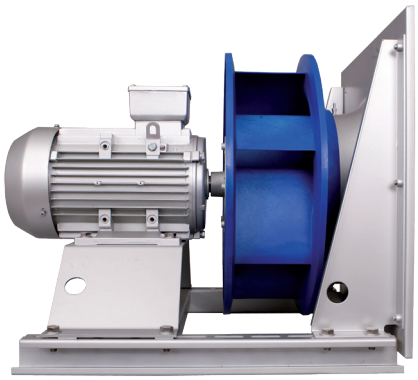


# Plug fan ER..Cpro, ventilation unit GR..Cpro

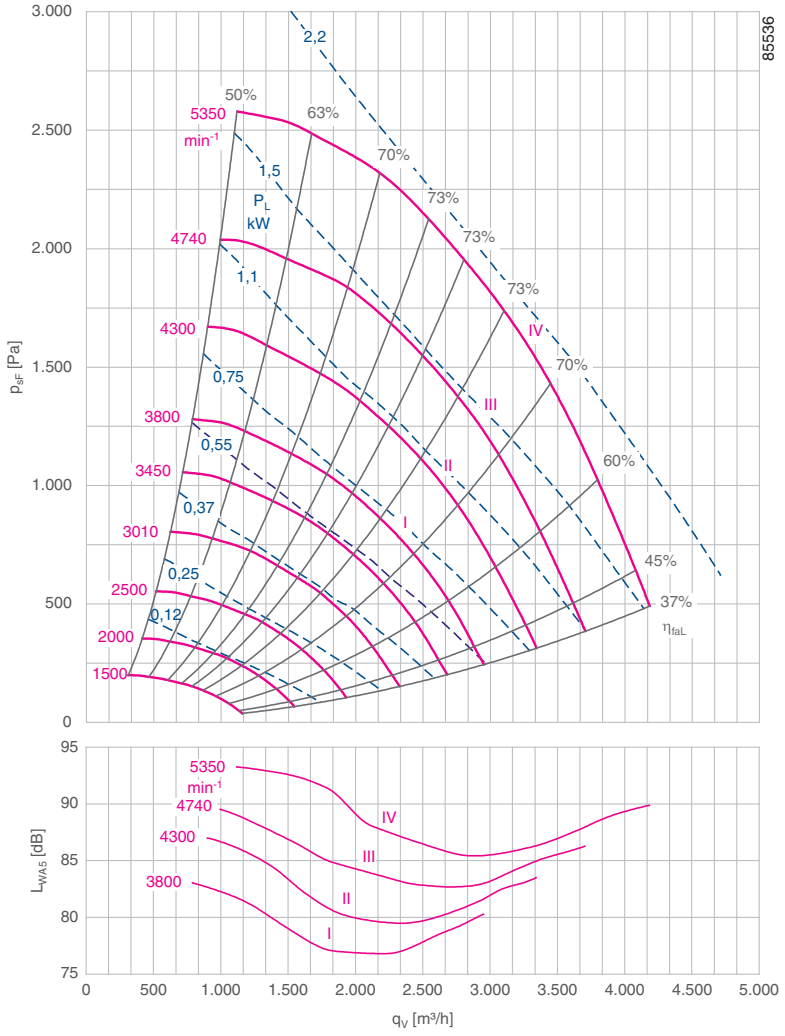
# Plug fan, ventilation unit

## ER25Cpro, GR25Cpro

Motor IE2



### Fan curve RH..Cpro




### Description

- Number of blades: 7
- Max. permissible media temperature: 40 °C
- Min. permissible media temperature: -20 °C
- Motor protection: PTC thermistor (PTC)
- Impeller: ZAmid technology
  uncoated 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


| | |
|---|---|
| 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 |


### Technical data

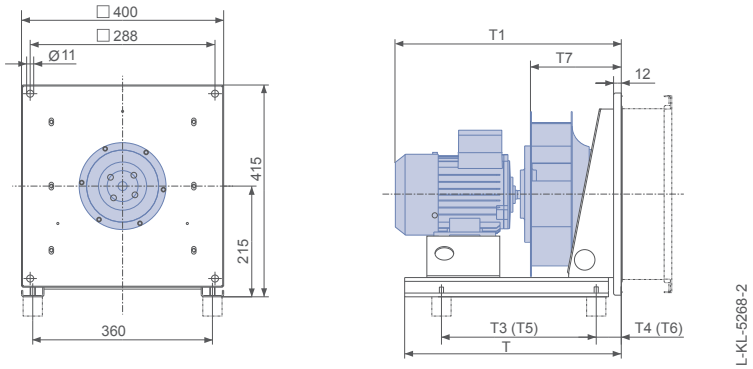
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ $min^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ $min^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 0.75 | ER25C-2DN.B7.CR | 80M | I | 2825 | 1.62 | 3800 | 67 |
| 1.10 | ER25C-2DN.B7.CR | 80M | II | 2825 | 2.28 | 4300 | 76 |
| 1.50 | ER25C-2DN.C7.CR | 90S | III | 2840 | 3.06 | 4740 | 83 |
| 2.20 | ER25C-2DN.D7.CR | 90L | IV | 2840 | 4.36 | 5350 | 94 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power $P_N$ kW | Type ER..C | Article no. ER..C | dB max. | Type GR..C | Installation position H Article no. GR..C | Installation position Vu Article no. GR..C | Installation position Vo Article no. GR..C | dB max. |
| 0.75 | ER25C-2DN.B7.CR | 130609/2F01 | 22 | GR25C-2DN.B5.CR | 113734/2F011 | 113734/2F035 | 113734/2F033 | 21 |
| 1.10 | ER25C-2DN.B7.CR | 130610/2F01 | 24 | GR25C-2DN.B5.CR | 113735/2F011 | 113735/2F035 | 113735/2F033 | 23 |
| 1.50 | ER25C-2DN.C7.CR | 130611/2F01 | 28 | GR25C-2DN.C5.CR | 113736/2F011 | 113736/2F035 | 113736/2F033 | 27 |
| 2.20 | ER25C-2DN.D7.CR | 130612/2F01 | 32 | GR25C-2DN.D5.CR | 113737/2F011 | 113737/2F035 | 113737/2F033 | 31 |

## Dimensions in mm

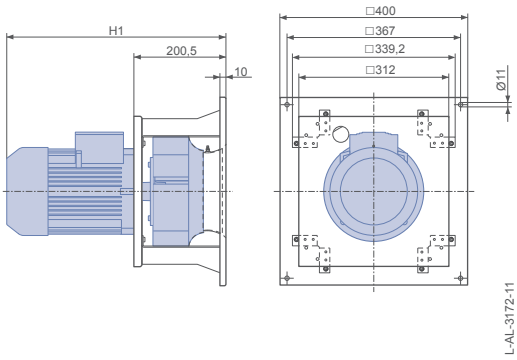
Plug fan ER in installation position H



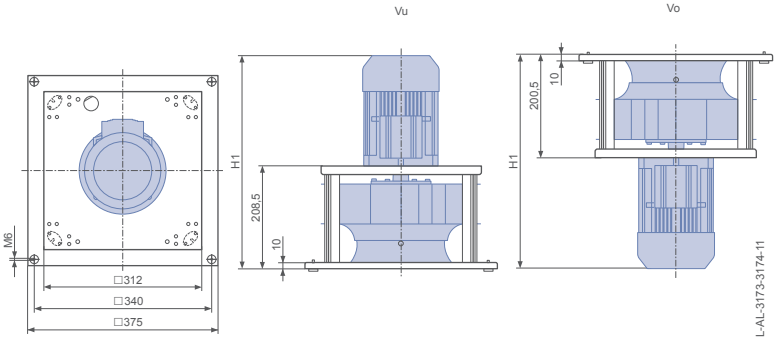

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.75 | ER25C-2DN.B7.CR | 460 | 449 | 379 | 45 | 342 | 45 | 173 | MSN 4 | 30x30 / 55 |
| 1.10 | ER25C-2DN.B7.CR | 460 | 449 | 386 | 45 | 336 | 52 | 173 | MSN 4 | 30x30 / 55 |
| 1.50 | ER25C-2DN.C7.CR | 460 | 474 | 367 | 68 | 381 | 45 | 173 | MSN 4 | 30x30 / 55 |
| 2.20 | ER25C-2DN.D7.CR | 460 | 499 | 338 | 97 | 367 | 68 | 173 | 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

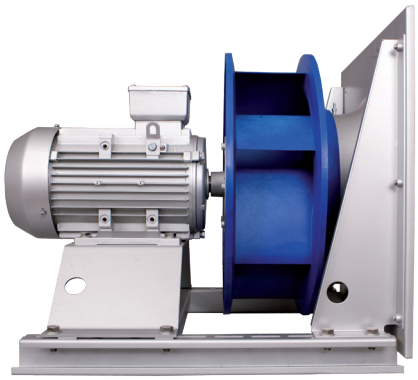



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 0.75 | GR25C-2DN.B5.CR | 437 | 445 | 437 |
| 1.10 | GR25C-2DN.B5.CR | 437 | 445 | 437 |
| 1.50 | GR25C-2DN.C5.CR | 462 | 470 | 462 |
| 2.20 | GR25C-2DN.D5.CR | 487 | 495 | 487 |

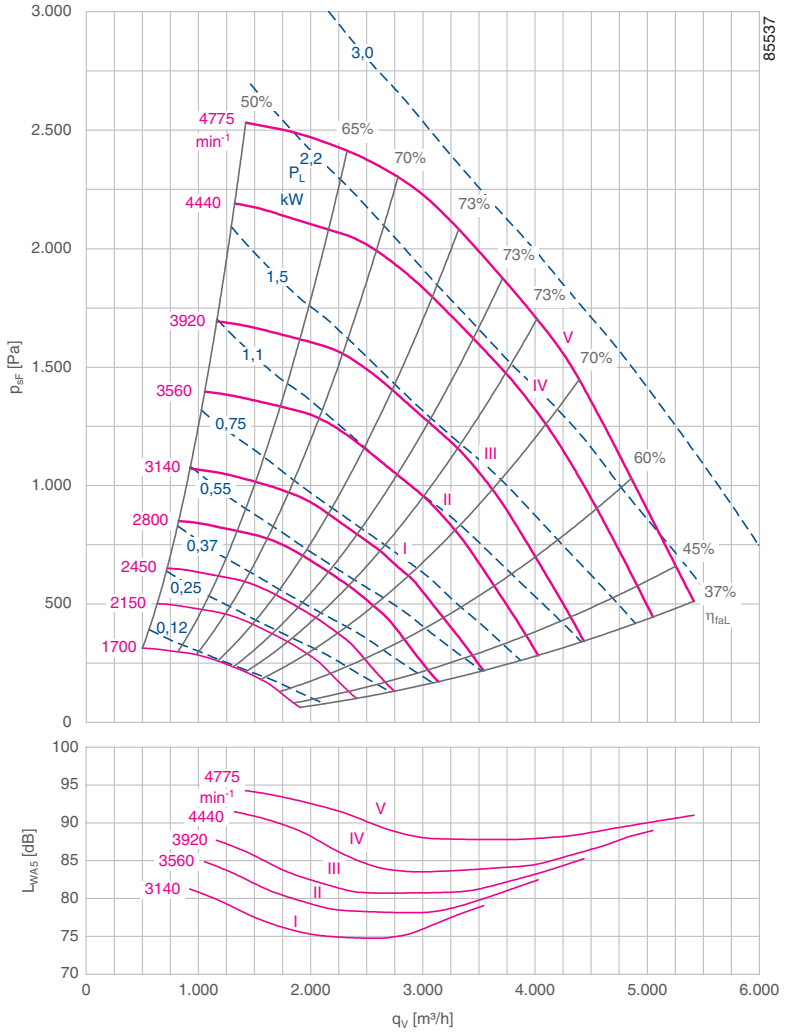
# Plug fan, ventilation unit

## ER28Cpro, GR28Cpro

Motor IE2



### Fan curve RH..Cpro




### Description

- Number of blades: 7
- Max. permissible media temperature: 40 °C
- Min. permissible media temperature: -20 °C
- Motor protection: PTC thermistor (PTC)
- Impeller: ZAmid technology
  uncoated 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


| | |
|---|---|
| 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 |


### Technical data

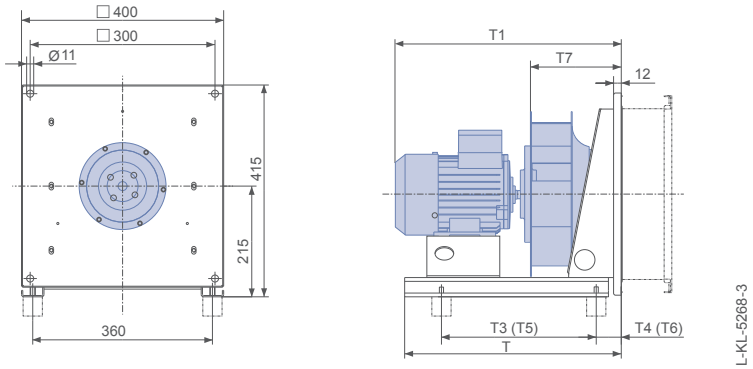
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 0.75 | ER28C-2DN.B7.CR | 80M | I | 2825 | 1.62 | 3140 | 56 |
| 1.10 | ER28C-2DN.B7.CR | 80M | II | 2825 | 2.28 | 3560 | 63 |
| 1.50 | ER28C-2DN.C7.CR | 90S | III | 2840 | 3.06 | 3920 | 69 |
| 2.20 | ER28C-2DN.D7.CR | 90L | IV | 2840 | 4.36 | 4440 | 78 |
| 3.00 | ER28C-2DN.E7.CR | 100L | V | 2880 | 5.73 | 4775 | 83 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 0.75 | **ER28C-2DN.B7.CR** | **130604/2F01** | 23 | **GR28C-2DN.B5.CR** | **113738/2F011** | **113738/2F035** | **113738/2F033** | 24 |
| 1.10 | **ER28C-2DN.B7.CR** | **130605/2F01** | 25 | **GR28C-2DN.B5.CR** | **113739/2F011** | **113739/2F035** | **113739/2F033** | 25 |
| 1.50 | **ER28C-2DN.C7.CR** | **130606/2F01** | 29 | **GR28C-2DN.C5.CR** | **113740/2F011** | **113740/2F035** | **113740/2F033** | 29 |
| 2.20 | **ER28C-2DN.D7.CR** | **130607/2F01** | 33 | **GR28C-2DN.D5.CR** | **113741/2F011** | **113741/2F035** | **113741/2F033** | 33 |
| 3.00 | **ER28C-2DN.E7.CR** | **130608/2F01** | 40 | **GR28C-2DN.E5.CR** | **113742/2F011** | **113742/2F035** | **113742/2F033** | 39 |

## Dimensions in mm

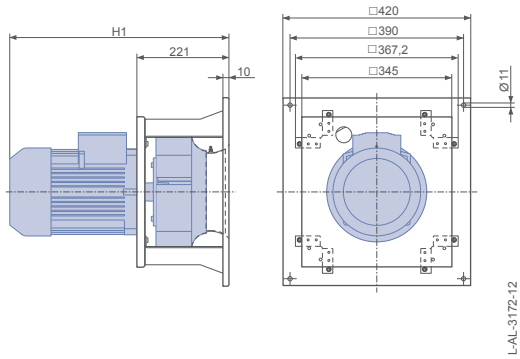
Plug fan ER in installation position H



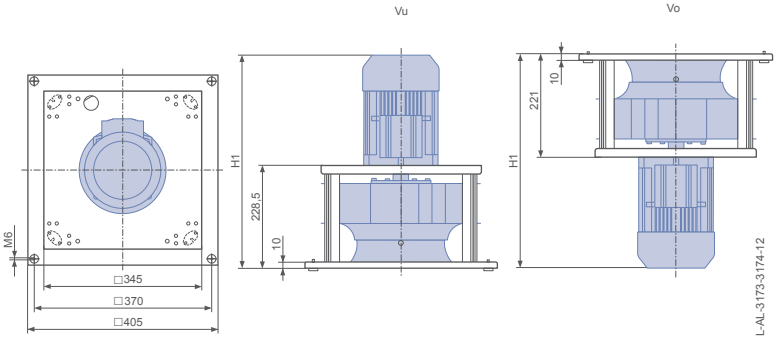

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.75 | ER28C-2DN.B7.CR | 460 | 466 | 381 | 54 | 362 | 45 | 192 | MSN 4 | 30x30 / 40 |
| 1.10 | ER28C-2DN.B7.CR | 460 | 466 | 374 | 61 | 370 | 45 | 192 | MSN 4 | 30x30 / 55 |
| 1.50 | ER28C-2DN.C7.CR | 460 | 491 | 340 | 92 | 379 | 56 | 192 | MSN 4 | 30x30 / 55 |
| 2.20 | ER28C-2DN.D7.CR | 460 | 516 | 317 | 118 | 339 | 92 | 192 | MSN 5 | 30x30 / 55 |
| 3.00 | ER28C-2DN.E7.CR | 570 | 554 | 485 | 60 | 489 | 45 | 192 | 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

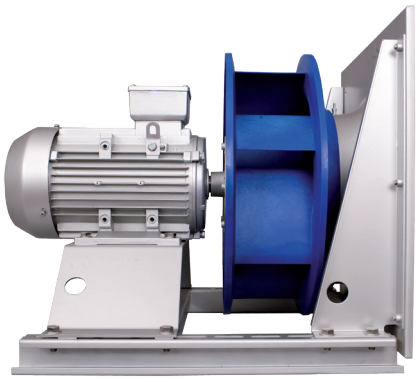



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 0.75 | GR28C-2DN.B5.CR | 454 | 462 | 454 |
| 1.10 | GR28C-2DN.B5.CR | 454 | 462 | 454 |
| 1.50 | GR28C-2DN.C5.CR | 479 | 487 | 479 |
| 2.20 | GR28C-2DN.D5.CR | 504 | 512 | 504 |
| 3.00 | GR28C-2DN.E5.CR | 542 | 550 | 542 |

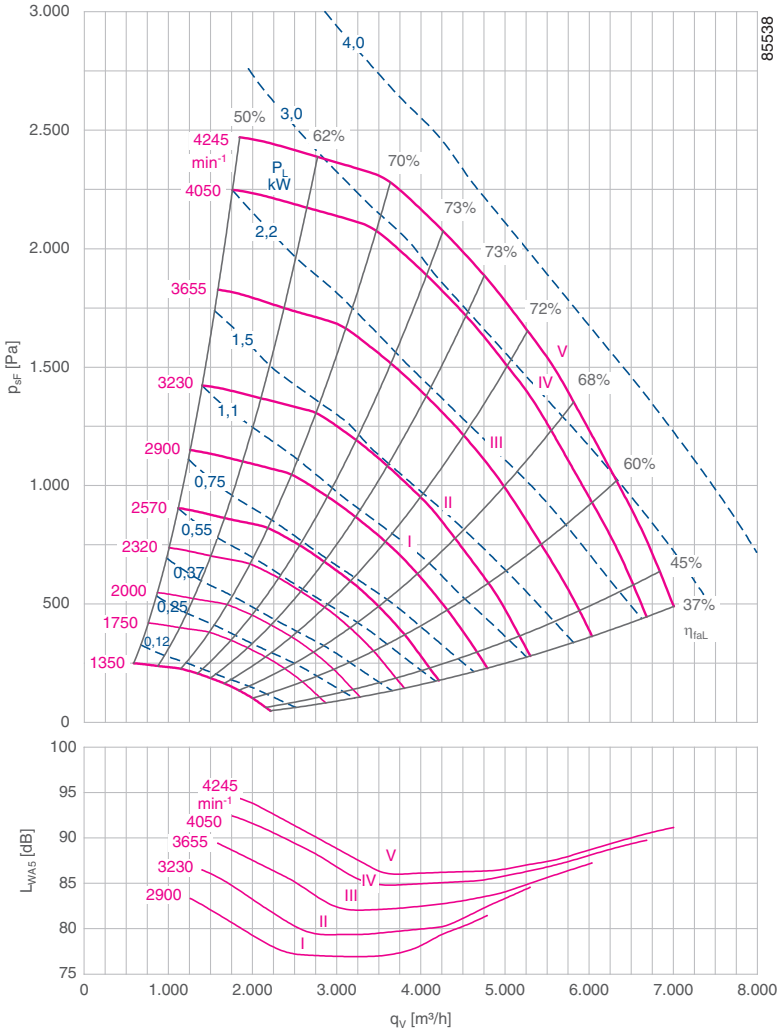
# Plug fan, ventilation unit

## ER31Cpro, GR31Cpro

Motor IE2



### Fan curve RH..Cpro




### Description

- Number of blades: 7
- Max. permissible media temperature: 40 °C
- Min. permissible media temperature: -20 °C
- Motor protection: PTC thermistor (PTC)
- Impeller: ZAmid technology
  uncoated 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


| | |
|---|---|
| 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 |


### Technical data

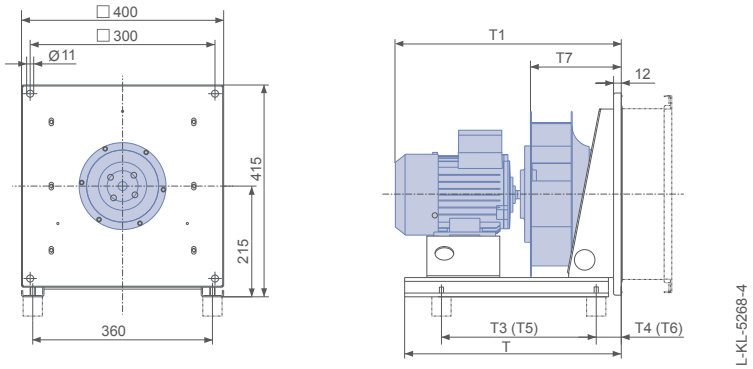
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.10 | ER31C-2DN.B7.CR | 80M | I | 2825 | 2.28 | 2900 | 51 |
| 1.50 | ER31C-2DN.C7.CR | 90S | II | 2840 | 3.06 | 3230 | 57 |
| 2.20 | ER31C-2DN.D7.CR | 90L | III | 2840 | 4.36 | 3655 | 64 |
| 3.00 | ER31C-2DN.E7.CR | 100L | IV | 2880 | 5.73 | 4050 | 70 |
| 4.00 | ER31C-2DN.F7.CR | 112M | V | 2875 | 7.48 | 4245 | 74 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power $P_N$ kW | Type ER..C | Article no. ER..C | kg max. | Type GR..C | Installation position H Article no. GR..C | Installation position Vu Article no. GR..C | Installation position Vo Article no. GR..C | kg max. |
| 1.10 | ER31C-2DN.B7.CR | 130599/2F01 | 25 | GR31C-2DN.B5.CR | 113743/2F011 | 113743/2F035 | 113743/2F033 | 28 |
| 1.50 | ER31C-2DN.C7.CR | 130600/2F01 | 30 | GR31C-2DN.C5.CR | 113744/2F011 | 113744/2F035 | 113744/2F033 | 32 |
| 2.20 | ER31C-2DN.D7.CR | 130601/2F01 | 34 | GR31C-2DN.D5.CR | 113745/2F011 | 113745/2F035 | 113745/2F033 | 36 |
| 3.00 | ER31C-2DN.E7.CR | 130602/2F01 | 40 | GR31C-2DN.E5.CR | 113746/2F011 | 113746/2F035 | 113746/2F033 | 41 |
| 4.00 | ER31C-2DN.F7.CR | 130603/2F01 | 43 | GR31C-2DN.F5.CR | 113747/2F011 | 113747/2F035 | 113747/2F033 | 44 |

## Dimensions in mm

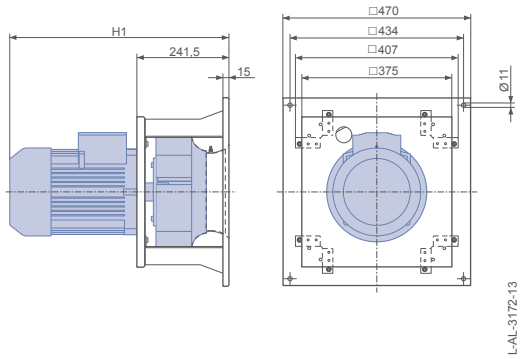
Plug fan ER in installation position H



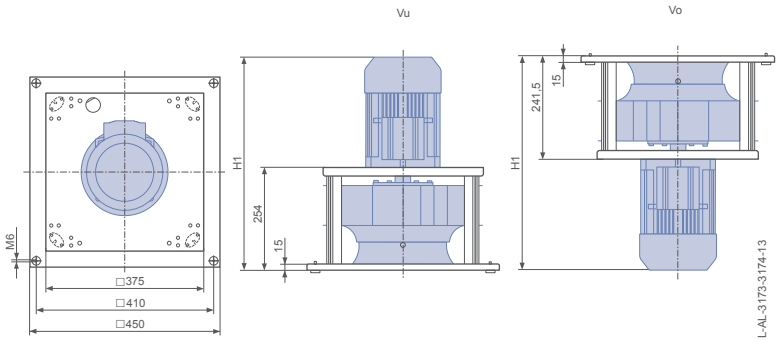

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.10 | ER31C-2DN.B7.CR | 460 | 487 | 341 | 92 | 383 | 52 | 213 | MSN 4 | 30x30 / 40 |
| 1.50 | ER31C-2DN.C7.CR | 570 | 512 | 472 | 45 | 439 | 45 | 213 | MSN 4 | 30x30 / 55 |
| 2.20 | ER31C-2DN.D7.CR | 570 | 537 | 498 | 47 | 471 | 45 | 213 | MSN 5 | 30x30 / 55 |
| 3.00 | ER31C-2DN.E7.CR | 570 | 575 | 446 | 75 | 457 | 76 | 213 | MSN 5 | 40x30 / 55 |
| 4.00 | ER31C-2DN.F7.CR | 570 | 624 | 439 | 106 | 435 | 95 | 213 | 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

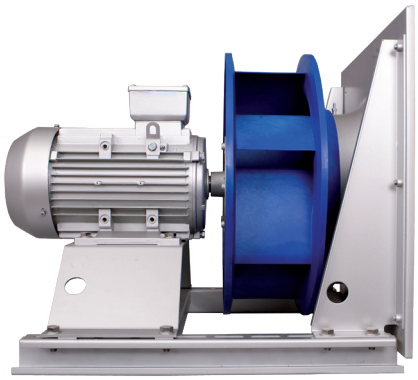



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.10 | GR31C-2DN.B5.CR | 475 | 487 | 475 |
| 1.50 | GR31C-2DN.C5.CR | 500 | 512 | 500 |
| 2.20 | GR31C-2DN.D5.CR | 525 | 537 | 525 |
| 3.00 | GR31C-2DN.E5.CR | 563 | 575 | 563 |
| 4.00 | GR31C-2DN.F5.CR | 612 | 624 | 612 |

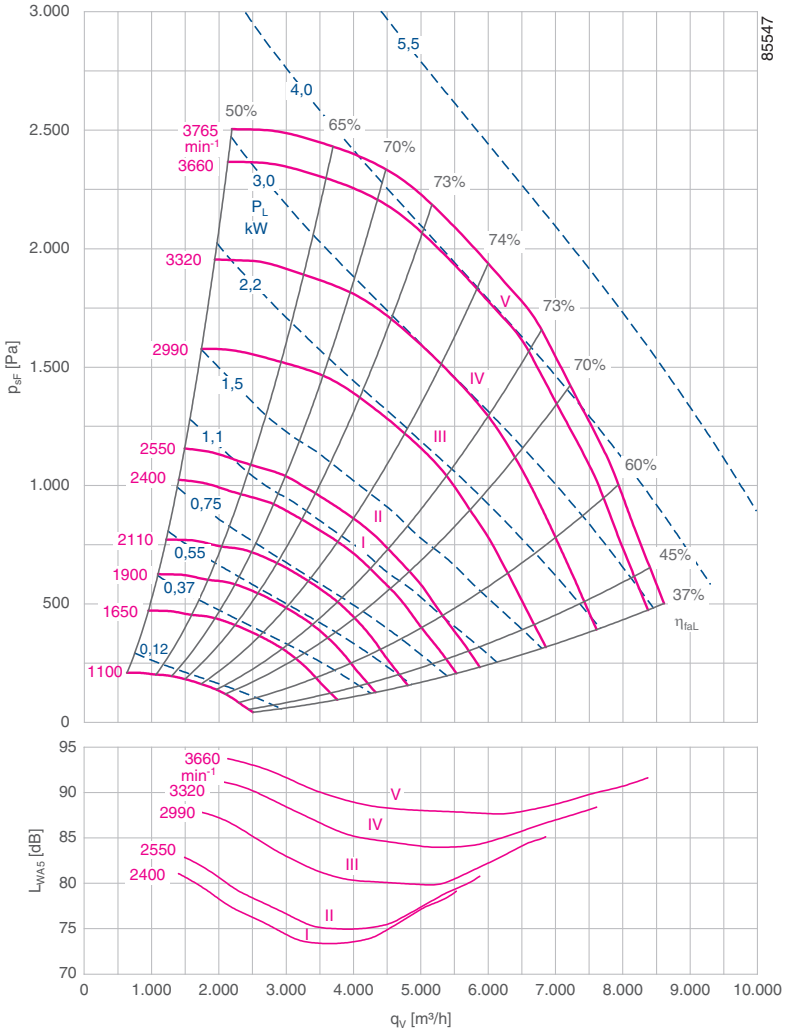
# Plug fan, ventilation unit

## ER35Cpro, GR35Cpro

Motor IE2



### Fan curve RH..Cpro




### Description

- Number of blades: 7
- Max. permissible media temperature: 40 °C
- Min. permissible media temperature: -20 °C
- Motor protection: PTC thermistor (PTC)
- Impeller: ZAmid technology
  uncoated 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


| | |
|---|---|
| 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 |


### Technical data

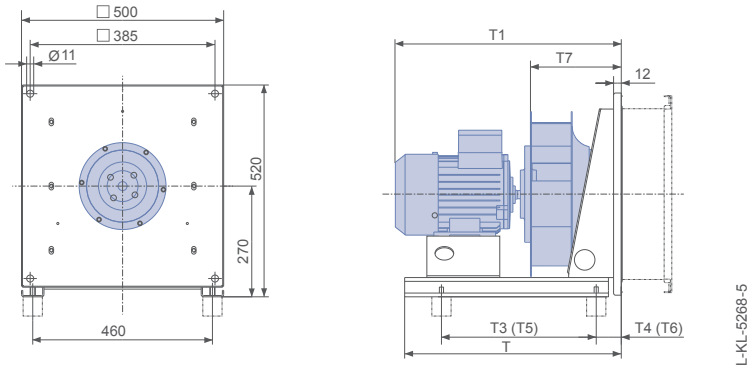
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.10 | ER35C-4DN.C7.CR | 90S | I | 1400 | 2.46 | 2400 | 86 |
| 1.50 | ER35C-4DN.D7.CR | 90L | II | 1400 | 3.22 | 2640 | 94 |
| 2.20 | ER35C-2DN.D7.CR | 90L | III | 2840 | 4.36 | 2990 | 53 |
| 3.00 | ER35C-2DN.E7.CR | 100L | IV | 2880 | 5.73 | 3320 | 58 |
| 4.00 | ER35C-2DN.F7.CR | 112M | V | 2875 | 7.48 | 3660 | 64 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 1.10 | **ER35C-4DN.C7.CR** | **131399/2F01** | 34 | **GR35C-4DN.C5.CR** | **113748/2F011** | **113748/2F035** | **113748/2F033** | 36 |
| 1.50 | **ER35C-4DN.D7.CR** | **130595/2F01** | 37 | **GR35C-4DN.D5.CR** | **113749/2F011** | **113749/2F035** | **113749/2F033** | 38 |
| 2.20 | **ER35C-2DN.D7.CR** | **130596/2F01** | 37 | **GR35C-2DN.D5.CR** | **113750/2F011** | **113750/2F035** | **113750/2F033** | 39 |
| 3.00 | **ER35C-2DN.E7.CR** | **130597/2F01** | 44 | **GR35C-2DN.E5.CR** | **113751/2F011** | **113751/2F035** | **113751/2F033** | 44 |
| 4.00 | **ER35C-2DN.F7.CR** | **130598/2F01** | 47 | **GR35C-2DN.F5.CR** | **113752/2F011** | **113752/2F035** | **113752/2F033** | 47 |

## Dimensions in mm

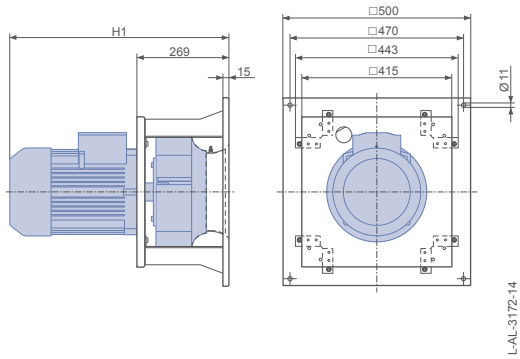
Plug fan ER in installation position H



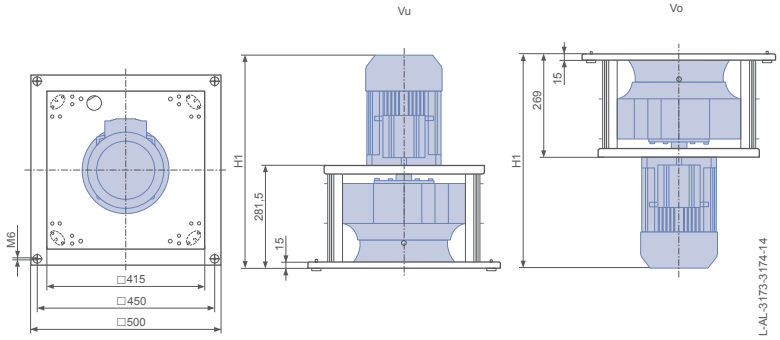

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.10 | ER35C-4DN.C7.CR | 570 | 534 | 477 | 45 | 445 | 45 | 238 | MSN 5 | 30x30 / 40 |
| 1.50 | ER35C-4DN.D7.CR | 570 | 559 | 499 | 46 | 470 | 45 | 238 | MSN 5 | 30x30 / 55 |
| 2.20 | ER35C-2DN.D7.CR | 570 | 559 | 497 | 48 | 473 | 45 | 238 | MSN 6 | 30x30 / 55 |
| 3.00 | ER35C-2DN.E7.CR | 570 | 597 | 446 | 99 | 474 | 71 | 238 | MSN 6 | 30x30 / 55 |
| 4.00 | ER35C-2DN.F7.CR | 570 | 646 | 431 | 114 | 442 | 95 | 238 | MSN 6 | 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

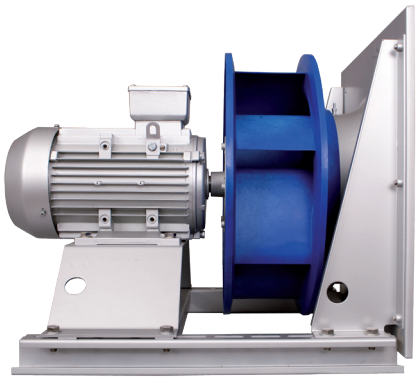



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.10 | GR35C-4DN.C5.CR | 522 | 535 | 522 |
| 1.50 | GR35C-4DN.D5.CR | 547 | 560 | 547 |
| 2.20 | GR35C-2DN.D5.CR | 547 | 560 | 547 |
| 3.00 | GR35C-2DN.E5.CR | 585 | 598 | 585 |
| 4.00 | GR35C-2DN.F5.CR | 634 | 647 | 634 |

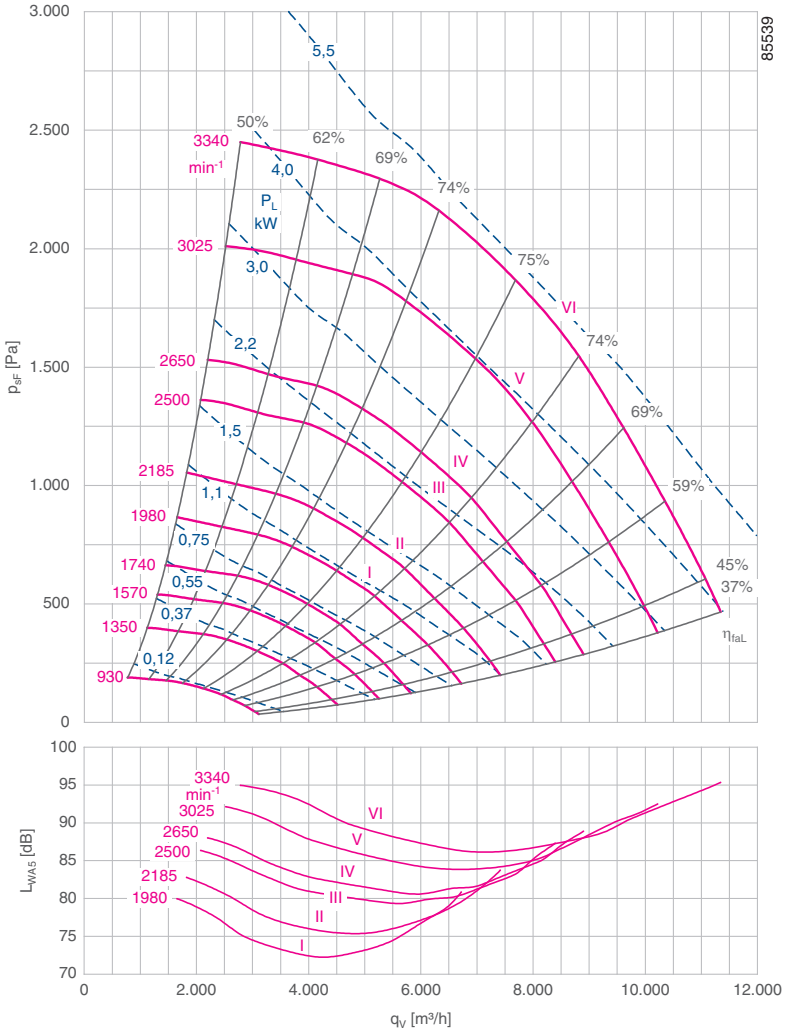
# Plug fan, ventilation unit

## ER40Cpro, GR40Cpro

Motor IE2



### Fan curve RH..Cpro




### Description

- Number of blades: 7
- Max. permissible media temperature: 40 °C
- Min. permissible media temperature: -20 °C
- Motor protection: PTC thermistor (PTC)
- Impeller: ZAmid technology
  uncoated 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


| | |
|---|---|
| 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 |


### Technical data

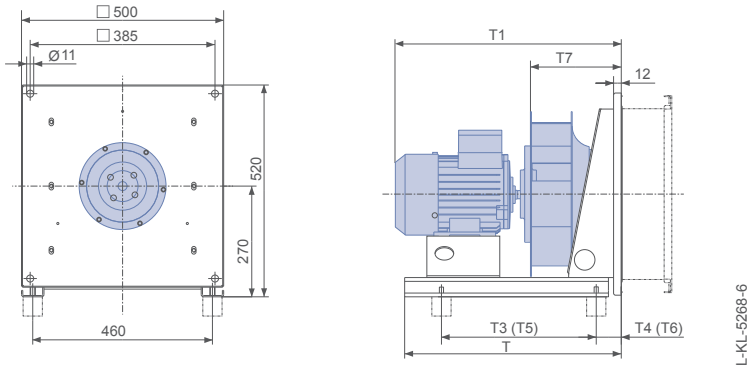
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ $min^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ $min^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.10 | ER40C-4DN.C7.CR | 90S | I | 1400 | 2.46 | 1980 | 71 |
| 1.50 | ER40C-4DN.D7.CR | 90L | II | 1400 | 3.22 | 2185 | 78 |
| 2.20 | ER40C-4DN.E7.CR | 100L | III | 1440 | 4.53 | 2500 | 87 |
| 3.00 | ER40C-4DN.E7.CR | 100L | IV | 1420 | 6.04 | 2650 | 93 |
| 4.00 | ER40C-2DN.F7.CR | 112M | V | 2875 | 7.48 | 3025 | 53 |
| 5.50 | ER40C-2DN.G7.CR | 132S | VI | 2890 | 10.20 | 3340 | 58 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power $P_N$ kW | Type ER..C | Article no. ER..C | kg max. | Type GR..C | Installation position H Article no. GR..C | Installation position Vu Article no. GR..C | Installation position Vo Article no. GR..C | kg max. |
| 1.10 | ER40C-4DN.C7.CR | 130589/2F01 | 37 | GR40C-4DN.C5.CR | 113753/2F011 | 113753/2F035 | 113753/2F033 | 42 |
| 1.50 | ER40C-4DN.D7.CR | 130590/2F01 | 39 | GR40C-4DN.D5.CR | 113754/2F011 | 113754/2F035 | 113754/2F033 | 45 |
| 2.20 | ER40C-4DN.E7.CR | 130591/2F01 | 49 | GR40C-4DN.E5.CR | 113755/2F011 | 113755/2F035 | 113755/2F033 | 53 |
| 3.00 | ER40C-4DN.E7.CR | 130592/2F01 | 54 | GR40C-4DN.E5.CR | 113756/2F011 | 113756/2F035 | 113756/2F033 | 58 |
| 4.00 | ER40C-2DN.F7.CR | 130593/2F01 | 50 | GR40C-2DN.F5.CR | 113757/2F011 | 113757/2F035 | 113757/2F033 | 53 |
| 5.50 | ER40C-2DN.G7.CR | 130594/2F01 | 66 | GR40C-2DN.G5.CR | 113758/2F011 | 113758/2F035 | 113758/2F033 | 68 |

## Dimensions in mm

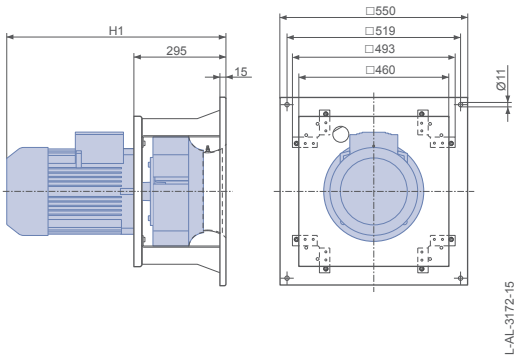
Plug fan ER in installation position H



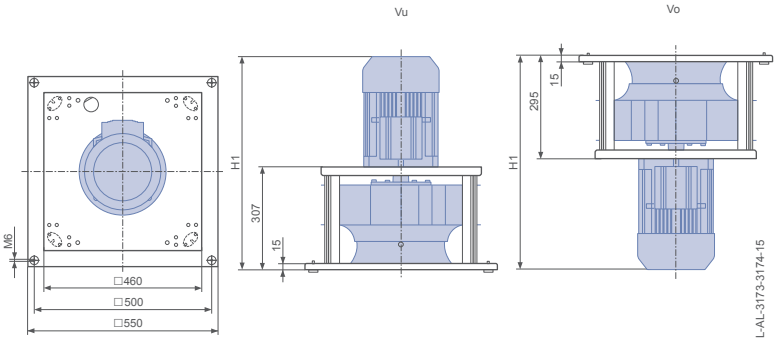

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.10 | ER40C-4DN.C7.CR | 570 | 561 | 497 | 45 | 435 | 60 | 262 | MSN 5 | 30x30 / 40 |
| 1.50 | ER40C-4DN.D7.CR | 570 | 586 | 478 | 67 | 492 | 45 | 262 | MSN 5 | 30x30 / 40 |
| 2.20 | ER40C-4DN.E7.CR | 570 | 624 | 418 | 127 | 444 | 101 | 262 | MSN 5 | 30x30 / 55 |
| 3.00 | ER40C-4DN.E7.CR | 570 | 624 | 397 | 147 | 423 | 122 | 262 | MSN 6 | 30x30 / 55 |
| 4.00 | ER40C-2DN.F7.CR | 720 | 673 | 602 | 45 | 576 | 45 | 262 | MSN 6 | 30x30 / 55 |
| 5.50 | ER40C-2DN.G7.CR | 720 | 686 | 630 | 65 | 648 | 45 | 262 | MSN 6 | 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

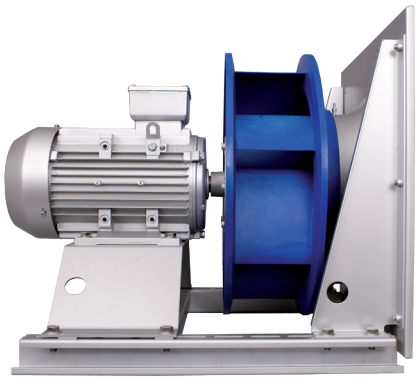



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.10 | GR40C-4DN.C5.CR | 549 | 561 | 549 |
| 1.50 | GR40C-4DN.D5.CR | 574 | 586 | 574 |
| 2.20 | GR40C-4DN.E5.CR | 612 | 624 | 612 |
| 3.00 | GR40C-4DN.E5.CR | 612 | 624 | 612 |
| 4.00 | GR40C-2DN.F5.CR | 661 | 673 | 661 |
| 5.50 | GR40C-2DN.G5.CR | 669 | 681 | 669 |

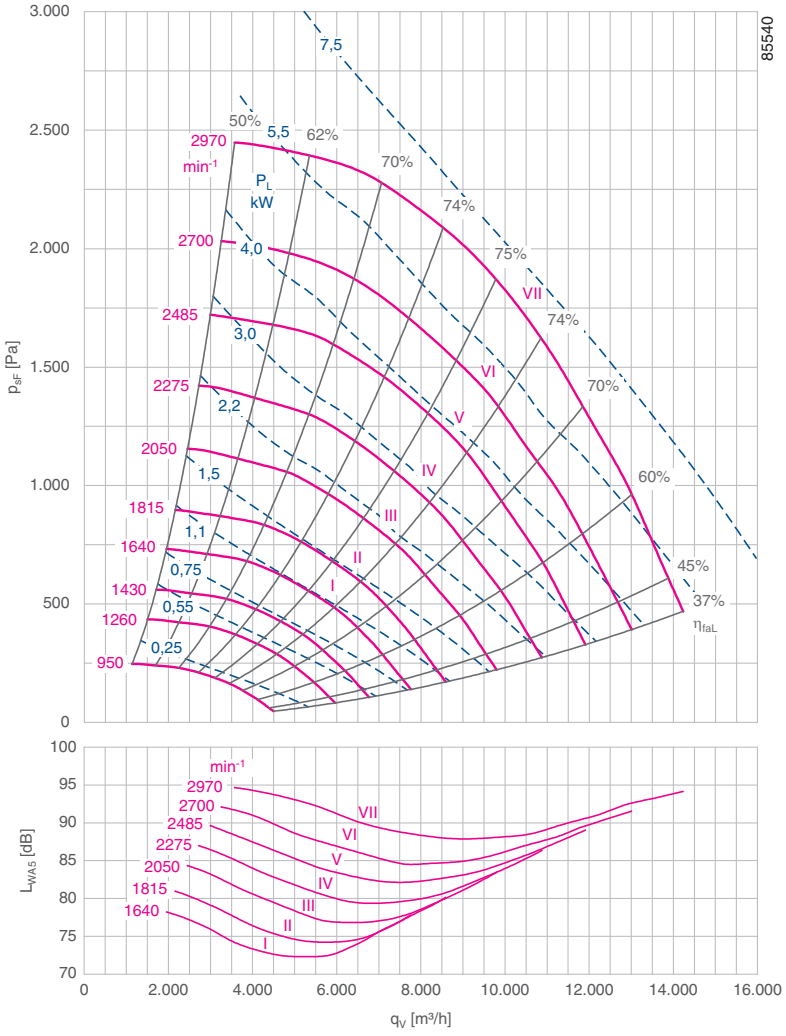
# Plug fan, ventilation unit

## ER45Cpro, GR45Cpro

Motor IE2



### Fan curve RH..Cpro




### Description

- Number of blades: 7
- Max. permissible media temperature: 40 °C
- Min. permissible media temperature: -20 °C
- Motor protection: PTC thermistor (PTC)
- Impeller: ZAmid technology
  uncoated 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


| | |
|---|---|
| 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 |


### Technical data

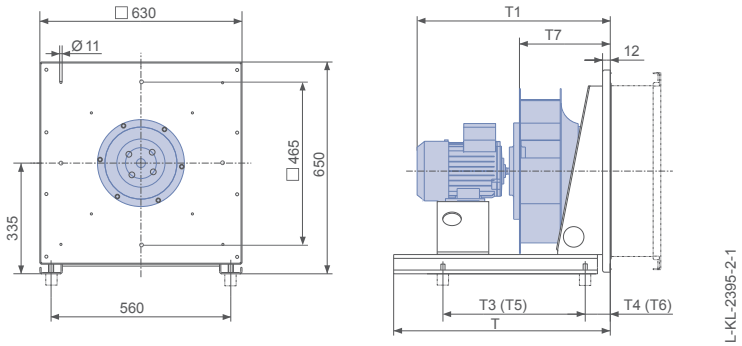
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min-1 | Rated current $I_N$ A | Max. speed $n_{max}$ min-1 | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.10 | ER45C-4DN.C7.CR | 90S | I | 1400 | 2.46 | 1640 | 59 |
| 1.50 | ER45C-4DN.D7.CR | 90L | II | 1400 | 3.22 | 1815 | 65 |
| 2.20 | ER45C-4DN.E7.CR | 100L | III | 1440 | 4.53 | 2050 | 71 |
| 3.00 | ER45C-4DN.E7.CR | 100L | IV | 1420 | 6.04 | 2275 | 80 |
| 4.00 | ER45C-4DN.F7.CR | 112M | V | 1450 | 7.96 | 2485 | 86 |
| 5.50 | ER45C-4DN.G7.CR | 132S | VI | 1440 | 10.70 | 2760 | 96 |
| 7.50 | ER45C-2DN.G7.CR | 132S | VII | 2915 | 13.70 | 2970 | 51 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 1.10 | **ER45C-4DN.C7.CR** | **130582/2F01** | 46 | **GR45C-4DN.C5.CR** | **113759/2F011** | **113759/2F035** | **113759/2F033** | 51 |
| 1.50 | **ER45C-4DN.D7.CR** | **130583/2F01** | 49 | **GR45C-4DN.D5.CR** | **113760/2F011** | **113760/2F035** | **113760/2F033** | 53 |
| 2.20 | **ER45C-4DN.E7.CR** | **130584/2F01** | 58 | **GR45C-4DN.E5.CR** | **113761/2F011** | **113761/2F035** | **113761/2F033** | 61 |
| 3.00 | **ER45C-4DN.E7.CR** | **130585/2F01** | 63 | **GR45C-4DN.E5.CR** | **113762/2F011** | **113762/2F035** | **113762/2F033** | 66 |
| 4.00 | **ER45C-4DN.F7.CR** | **130586/2F01** | 68 | **GR45C-4DN.F5.CR** | **113763/2F011** | **113763/2F035** | **113763/2F033** | 70 |
| 5.50 | **ER45C-4DN.G7.CR** | **130587/2F01** | 79 | **GR45C-4DN.G5.CR** | **113764/2F011** | **113764/2F035** | **113764/2F033** | 80 |
| 7.50 | **ER45C-2DN.G7.CR** | **130588/2F01** | 79 | **GR45C-2DN.G5.CR** | **113765/2F011** | **113765/2F035** | **113765/2F033** | 80 |

## Dimensions in mm

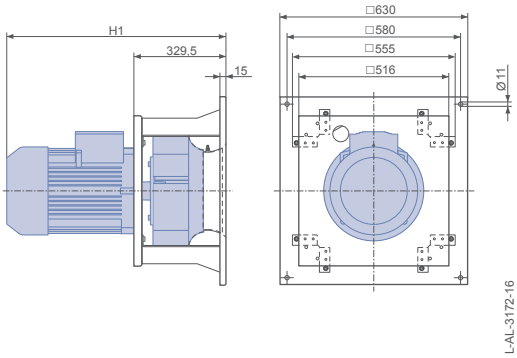
Plug fan ER in installation position H



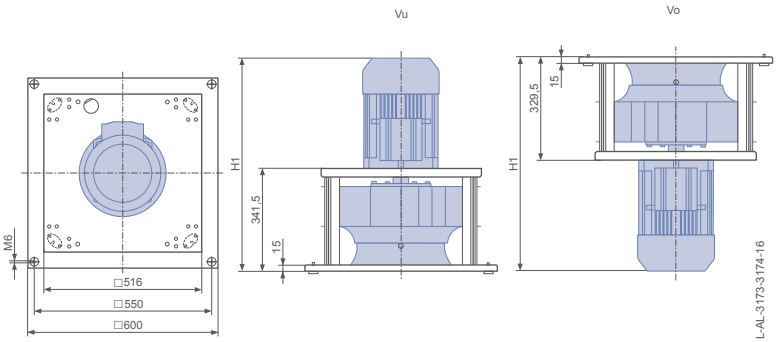

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.10 | ER45C-4DN.C7.CR | 570 | 596 | 498 | 47 | 472 | 45 | 292 | MSN 5 | 30x30 / 40 |
| 1.50 | ER45C-4DN.D7.CR | 570 | 621 | 475 | 70 | 496 | 45 | 292 | MSN 5 | 30x30 / 40 |
| 2.20 | ER45C-4DN.E7.CR | 570 | 659 | 384 | 147 | 438 | 107 | 292 | MSN 6 | 30x30 / 55 |
| 3.00 | ER45C-4DN.E7.CR | 570 | 659 | 390 | 155 | 415 | 130 | 292 | MSN 6 | 30x30 / 55 |
| 4.00 | ER45C-4DN.F7.CR | 720 | 708 | 628 | 45 | 604 | 45 | 292 | MSN 6 | 30x30 / 55 |
| 5.50 | ER45C-4DN.G7.CR | 720 | 716 | 602 | 91 | 628 | 67 | 292 | MSN 6 | 40x30 / 55 |
| 7.50 | ER45C-2DN.G7.CR | 720 | 716 | 602 | 91 | 628 | 67 | 292 | MSN 7 | 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

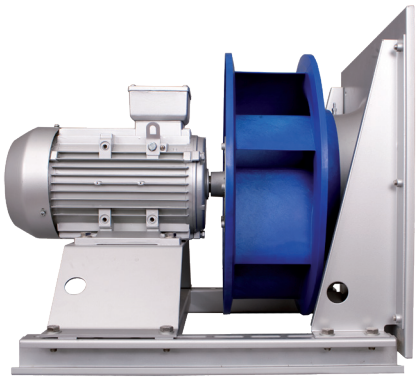



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.10 | GR45C-4DN.C5.CR | 584 | 596 | 584 |
| 1.50 | GR45C-4DN.D5.CR | 609 | 621 | 609 |
| 2.20 | GR45C-4DN.E5.CR | 647 | 659 | 647 |
| 3.00 | GR45C-4DN.E5.CR | 647 | 659 | 647 |
| 4.00 | GR45C-4DN.F5.CR | 696 | 708 | 696 |
| 5.50 | GR45C-4DN.G5.CR | 704 | 716 | 704 |
| 7.50 | GR45C-2DN.G5.CR | 704 | 716 | 704 |

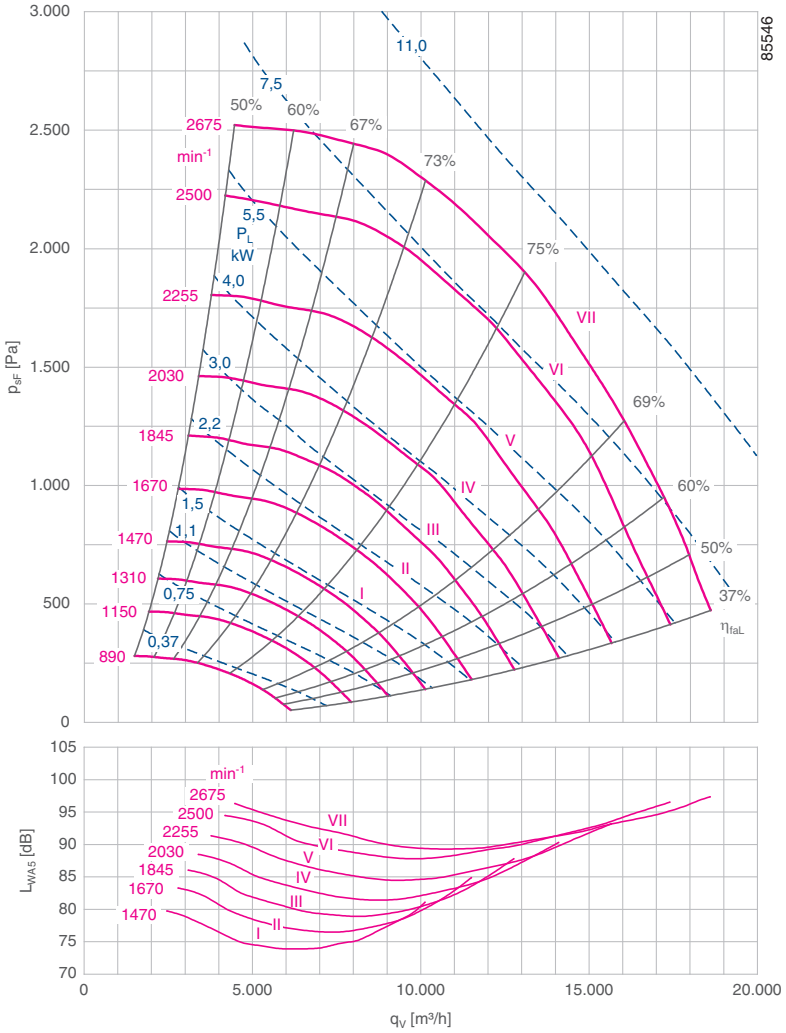
# Plug fan, ventilation unit

## ER50Cpro, GR50Cpro

Motor IE2



### Fan curve RH..Cpro




### Description

- Number of blades: 7
- Max. permissible media temperature: 40 °C
- Min. permissible media temperature: -20 °C
- Motor protection: PTC thermistor (PTC)
- Impeller: ZAmid technology
  uncoated 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


| | |
|---|---|
| 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 |


### Technical data

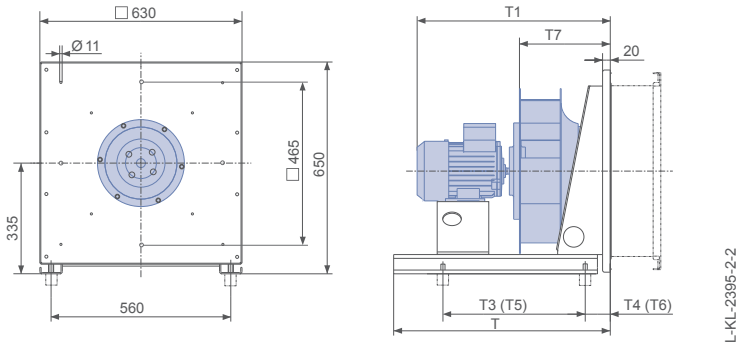
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.50 | ER50C-4DN.D7.CR | 90L | I | 1400 | 3.22 | 1470 | 53 |
| 2.20 | ER50C-4DN.E7.CR | 100L | II | 1440 | 4.53 | 1670 | 58 |
| 3.00 | ER50C-4DN.E7.CR | 100L | III | 1420 | 6.04 | 1845 | 65 |
| 4.00 | ER50C-4DN.F7.CR | 112M | IV | 1450 | 7.96 | 2030 | 70 |
| 5.50 | ER50C-4DN.G7.CR | 132S | V | 1440 | 10.70 | 2255 | 78 |
| 7.50 | ER50C-4DN.H7.CR | 132M | VI | 1440 | 14.30 | 2500 | 87 |
| 11.00 | ER50C-4DN.I7.CR | 160M | VII | 1460 | 20.70 | 2675 | 92 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 1.50 | **ER50C-4DN.D7.CR** | **130575/2F01** | 52 | **GR50C-4DN.D5.CR** | **113766/2F011** | **113766/2F035** | **113766/2F033** | 65 |
| 2.20 | **ER50C-4DN.E7.CR** | **130576/2F01** | 61 | **GR50C-4DN.E5.CR** | **113767/2F011** | **113767/2F035** | **113767/2F033** | 73 |
| 3.00 | **ER50C-4DN.E7.CR** | **130577/2F01** | 66 | **GR50C-4DN.E5.CR** | **113768/2F011** | **113768/2F035** | **113768/2F033** | 78 |
| 4.00 | **ER50C-4DN.F7.CR** | **130578/2F01** | 70 | **GR50C-4DN.F5.CR** | **113769/2F011** | **113769/2F035** | **113769/2F033** | 82 |
| 5.50 | **ER50C-4DN.G7.CR** | **130579/2F01** | 81 | **GR50C-4DN.G5.CR** | **113770/2F011** | **113770/2F035** | **113770/2F033** | 91 |
| 7.50 | **ER50C-4DN.H7.CR** | **130580/2F01** | 91 | **GR50C-4DN.H5.CR** | **113771/2F011** | **113771/2F035** | **113771/2F033** | 101 |
| 11.00 | **ER50C-4DN.I7.CR** | **130581/2F01** | 162 | **GR50C-4DN.I5.CR** | **113772/2F011** | **113772/2F035** | **113772/2F033** | 165 |

## Dimensions in mm

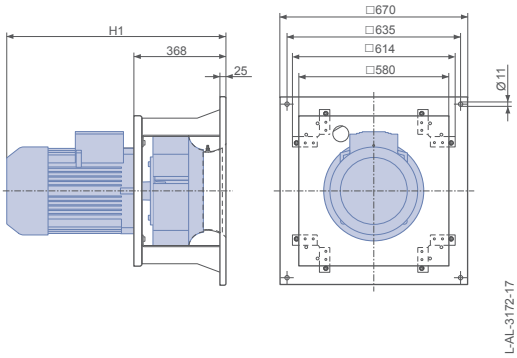
Plug fan ER in installation position H



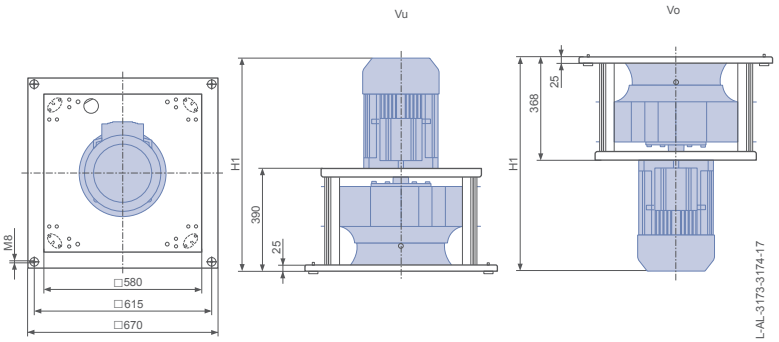

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.50 | ER50C-4DN.D7.CR | 728 | 663 | 574 | 53 | 544 | 53 | 336 | MSN 6 | 30x30 / 40 |
| 2.20 | ER50C-4DN.E7.CR | 728 | 701 | 637 | 53 | 598 | 59 | 336 | MSN 6 | 30x30 / 40 |
| 3.00 | ER50C-4DN.E7.CR | 728 | 701 | 641 | 62 | 633 | 53 | 336 | MSN 6 | 30x30 / 40 |
| 4.00 | ER50C-4DN.F7.CR | 728 | 750 | 629 | 74 | 647 | 53 | 336 | MSN 6 | 30x30 / 55 |
| 5.50 | ER50C-4DN.G7.CR | 728 | 758 | 542 | 151 | 585 | 118 | 336 | MSN 7 | 30x30 / 55 |
| 7.50 | ER50C-4DN.H7.CR | 728 | 796 | 482 | 204 | 537 | 166 | 336 | MSN 7 | 40x30 / 55 |
| 11.00 | ER50C-4DN.I7.CR | 888 | 868 | 686 | 177 | 700 | 163 | 336 | MSN 7 | 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

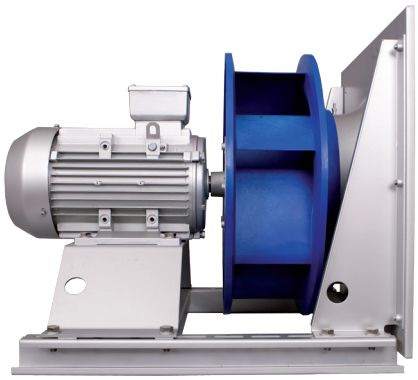



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.50 | GR50C-4DN.D5.CR | 643 | 665 | 643 |
| 2.20 | GR50C-4DN.E5.CR | 681 | 703 | 681 |
| 3.00 | GR50C-4DN.E5.CR | 681 | 703 | 681 |
| 4.00 | GR50C-4DN.F5.CR | 730 | 752 | 730 |
| 5.50 | GR50C-4DN.G5.CR | 738 | 760 | 738 |
| 7.50 | GR50C-4DN.H5.CR | 776 | 798 | 776 |
| 11.00 | GR50C-4DN.I5.CR | 848 | 870 | 848 |

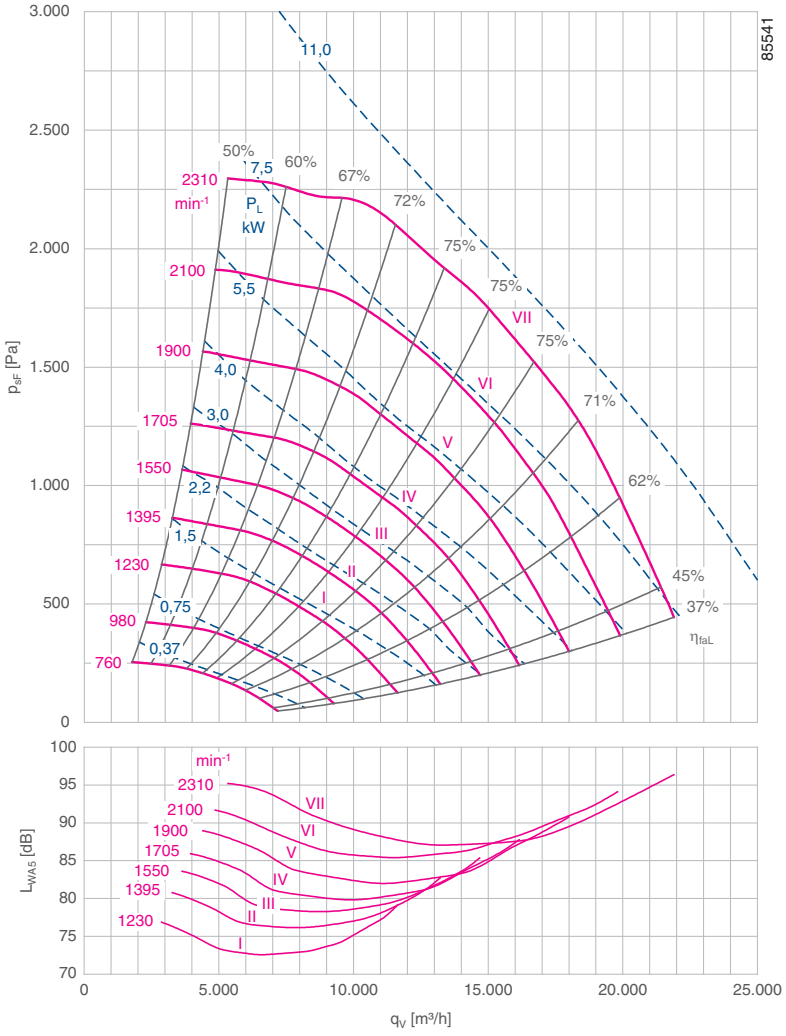
# Plug fan, ventilation unit

## ER56Cpro, GR56Cpro

Motor IE2



### Fan curve RH..Cpro




### Description

- Number of blades: 7
- Max. permissible media temperature: 40 °C
- Min. permissible media temperature: -20 °C
- Motor protection: PTC thermistor (PTC)
- Impeller: ZAmid technology
  uncoated 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


| | |
|---|---|
| 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 |


### Technical data

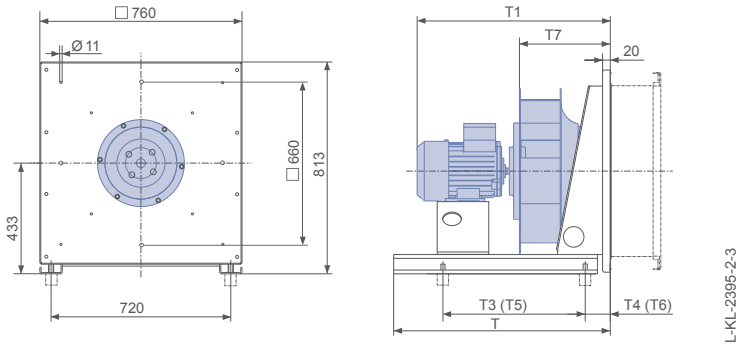
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min⁻¹ | Rated current $I_N$ A | Max. speed $n_{max}$ min⁻¹ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.50 | ER56C-6DN.E7.CR | 100L | I | 940 | 3.53 | 1230 | 65 |
| 2.20 | ER56C-4DN.E7.CR | 100L | II | 1440 | 4.53 | 1395 | 48 |
| 3.00 | ER56C-4DN.E7.CR | 100L | III | 1420 | 6.04 | 1550 | 55 |
| 4.00 | ER56C-4DN.F7.CR | 112M | IV | 1450 | 7.96 | 1705 | 59 |
| 5.50 | ER56C-4DN.G7.CR | 132S | V | 1440 | 10.70 | 1900 | 66 |
| 7.50 | ER56C-4DN.H7.CR | 132M | VI | 1440 | 14.30 | 2100 | 73 |
| 11.00 | ER56C-4DN.I7.CR | 160M | VII | 1460 | 20.70 | 2310 | 79 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 1.50 | **ER56C-6DN.E7.CR** | **130568/2F01** | 70 | **GR56C-6DN.E5.CR** | **113773/2F011** | **113773/2F035** | **113773/2F033** | 83 |
| 2.20 | **ER56C-4DN.E7.CR** | **130569/2F01** | 71 | **GR56C-4DN.E5.CR** | **113774/2F011** | **113774/2F035** | **113774/2F033** | 85 |
| 3.00 | **ER56C-4DN.E7.CR** | **130570/2F01** | 76 | **GR56C-4DN.E5.CR** | **113775/2F011** | **113775/2F035** | **113775/2F033** | 90 |
| 4.00 | **ER56C-4DN.F7.CR** | **130571/2F01** | 80 | **GR56C-4DN.F5.CR** | **113776/2F011** | **113776/2F035** | **113776/2F033** | 94 |
| 5.50 | **ER56C-4DN.G7.CR** | **130572/2F01** | 93 | **GR56C-4DN.G5.CR** | **113777/2F011** | **113777/2F035** | **113777/2F033** | 103 |
| 7.50 | **ER56C-4DN.H7.CR** | **130573/2F01** | 103 | **GR56C-4DN.H5.CR** | **113778/2F011** | **113778/2F035** | **113778/2F033** | 114 |
| 11.00 | **ER56C-4DN.I7.CR** | **130574/2F01** | 174 | **GR56C-4DN.I5.CR** | **113779/2F011** | **113779/2F035** | **113779/2F033** | 178 |

## Dimensions in mm

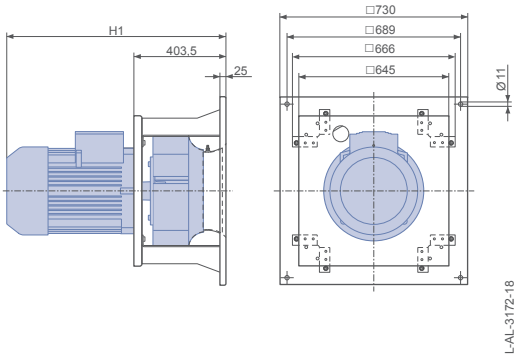
Plug fan ER in installation position H



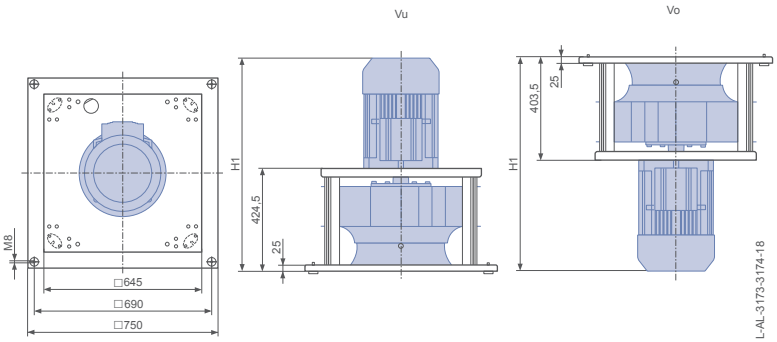

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.50 | ER56C-6DN.E7.CR | 720 | 737 | 649 | 45 | 594 | 55 | 372 | MSN 6 | 30x30 / 40 |
| 2.20 | ER56C-4DN.E7.CR | 720 | 737 | 647 | 48 | 589 | 60 | 372 | MSN 6 | 30x30 / 40 |
| 3.00 | ER56C-4DN.E7.CR | 720 | 737 | 623 | 72 | 644 | 45 | 372 | MSN 7 | 30x30 / 40 |
| 4.00 | ER56C-4DN.F7.CR | 720 | 786 | 599 | 91 | 641 | 54 | 372 | MSN 7 | 30x30 / 55 |
| 5.50 | ER56C-4DN.G7.CR | 880 | 794 | 757 | 51 | 740 | 45 | 372 | MSN 7 | 30x30 / 55 |
| 7.50 | ER56C-4DN.H7.CR | 880 | 832 | 775 | 65 | 739 | 69 | 372 | SD 4 | 40x30 / 55 |
| 11.00 | ER56C-4DN.I7.CR | 880 | 904 | 611 | 229 | 630 | 210 | 372 | SD 4 | 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

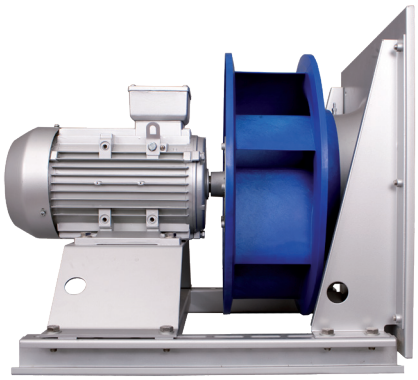



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.50 | GR56C-6DN.E5.CR | 717 | 738 | 717 |
| 2.20 | GR56C-4DN.E5.CR | 717 | 738 | 717 |
| 3.00 | GR56C-4DN.E5.CR | 717 | 738 | 717 |
| 4.00 | GR56C-4DN.F5.CR | 766 | 787 | 766 |
| 5.50 | GR56C-4DN.G5.CR | 774 | 795 | 774 |
| 7.50 | GR56C-4DN.H5.CR | 812 | 833 | 812 |
| 11.00 | GR56C-4DN.I5.CR | 884 | 905 | 884 |

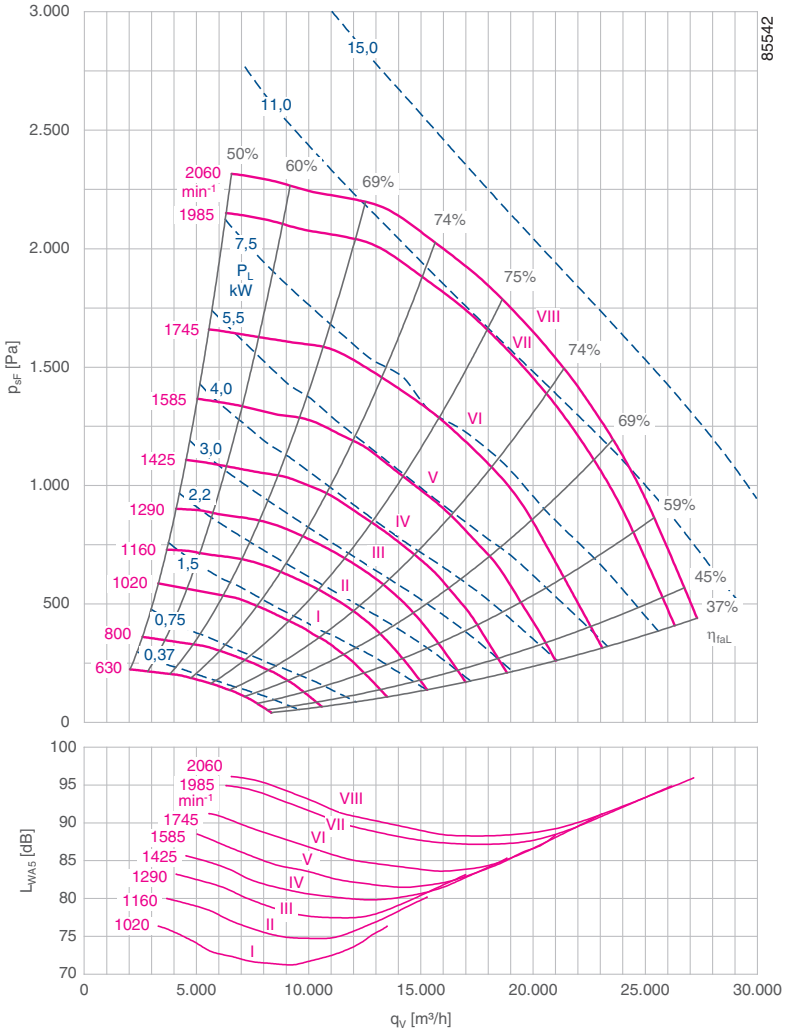
# Plug fan, ventilation unit

## ER63Cpro, GR63Cpro

Motor IE2



### Fan curve RH..Cpro




### Description

- Number of blades: 7
- Max. permissible media temperature: 40 °C
- Min. permissible media temperature: -20 °C
- Motor protection: PTC thermistor (PTC)
- Impeller: ZAmid technology
  uncoated 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


| | |
|---|---|
| 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 |


### Technical data

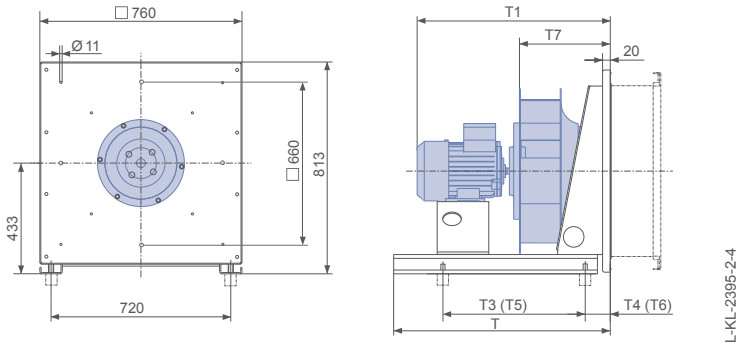
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.50 | ER63C-6DN.E7.CR | 100L | I | 940 | 3.53 | 1020 | 54 |
| 2.20 | ER63C-6DN.F7.CR | 112M | II | 945 | 5.00 | 1160 | 61 |
| 3.00 | ER63C-6DN.G7.CR | 132S | III | 960 | 6.70 | 1290 | 67 |
| 4.00 | ER63C-4DN.F7.CR | 112M | IV | 1450 | 7.96 | 1425 | 49 |
| 5.50 | ER63C-4DN.G7.CR | 132S | V | 1440 | 10.70 | 1585 | 55 |
| 7.50 | ER63C-4DN.H7.CR | 132M | VI | 1440 | 14.30 | 1745 | 61 |
| 11.00 | ER63C-4DN.I7.CR | 160M | VII | 1460 | 20.70 | 1985 | 68 |
| 15.00 | ER63C-4DN.K7.CR | 160L | VIII | 1460 | 27.70 | 2060 | 71 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power $P_N$ kW | Type ER..C | Article no. ER..C | kg max. | Type GR..C | Installation position H Article no. GR..C | Installation position Vu Article no. GR..C | Installation position Vo Article no. GR..C | kg max. |
| 1.50 | ER63C-6DN.E7.CR | 130560/2F01 | 77 | GR63C-6DN.E5.CR | 113780/2F011 | 113780/2F035 | 113780/2F033 | 103 |
| 2.20 | ER63C-6DN.F7.CR | 130561/2F01 | 80 | GR63C-6DN.F5.CR | 113781/2F011 | 113781/2F035 | 113781/2F033 | 106 |
| 3.00 | ER63C-6DN.G7.CR | 130562/2F01 | 92 | GR63C-6DN.G5.CR | 113782/2F011 | 113782/2F035 | 113782/2F033 | 115 |
| 4.00 | ER63C-4DN.F7.CR | 130563/2F01 | 88 | GR63C-4DN.F5.CR | 113783/2F011 | 113783/2F035 | 113783/2F033 | 114 |
| 5.50 | ER63C-4DN.G7.CR | 130564/2F01 | 100 | GR63C-4DN.G5.CR | 113784/2F011 | 113784/2F035 | 113784/2F033 | 123 |
| 7.50 | ER63C-4DN.H7.CR | 130565/2F01 | 111 | GR63C-4DN.H5.CR | 113785/2F011 | 113785/2F035 | 113785/2F033 | 133 |
| 11.00 | ER63C-4DN.I7.CR | 130566/2F01 | 181 | GR63C-4DN.I5.CR | 113786/2F011 | 113786/2F035 | 113786/2F033 | 197 |
| 15.00 | ER63C-4DN.K7.CR | 130567/2F01 | 193 | GR63C-4DN.K5.CR | 113787/2F011 | 113787/2F035 | 113787/2F033 | 209 |

## Dimensions in mm

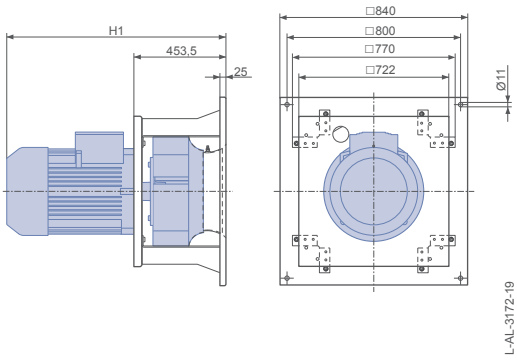
Plug fan ER in installation position H



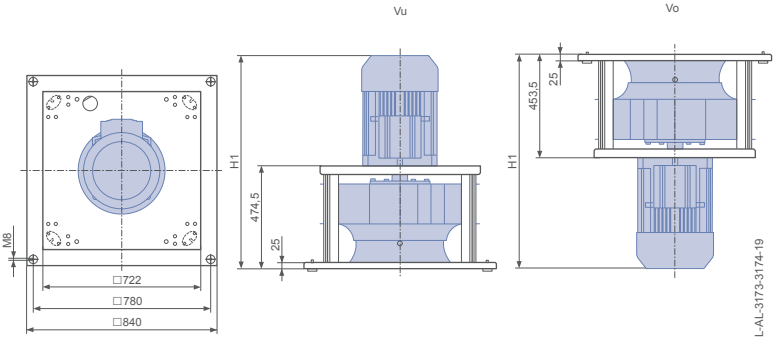

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.50 | ER63C-6DN.E7.CR | 720 | 777 | 603 | 92 | 636 | 59 | 416 | MSN 6 | 30x30 / 40 |
| 2.20 | ER63C-6DN.F7.CR | 720 | 826 | 582 | 113 | 593 | 91 | 416 | MSN 6 | 30x30 / 40 |
| 3.00 | ER63C-6DN.G7.CR | 880 | 834 | 749 | 59 | 747 | 45 | 416 | MSN 7 | 30x30 / 40 |
| 4.00 | ER63C-4DN.F7.CR | 720 | 826 | 543 | 143 | 591 | 104 | 416 | MSN 7 | 30x30 / 40 |
| 5.50 | ER63C-4DN.G7.CR | 880 | 834 | 805 | 50 | 786 | 45 | 416 | MSN 7 | 30x30 / 55 |
| 7.50 | ER63C-4DN.H7.CR | 880 | 872 | 759 | 96 | 787 | 68 | 416 | MSN 7 | 30x30 / 55 |
| 11.00 | ER63C-4DN.I7.CR | 880 | 944 | 559 | 281 | 578 | 262 | 416 | SD 4 | 40x30 / 55 |
| 15.00 | ER63C-4DN.K7.CR | 880 | 999 | 517 | 323 | 535 | 305 | 416 | SD 4 | 40x30 / 55 |

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

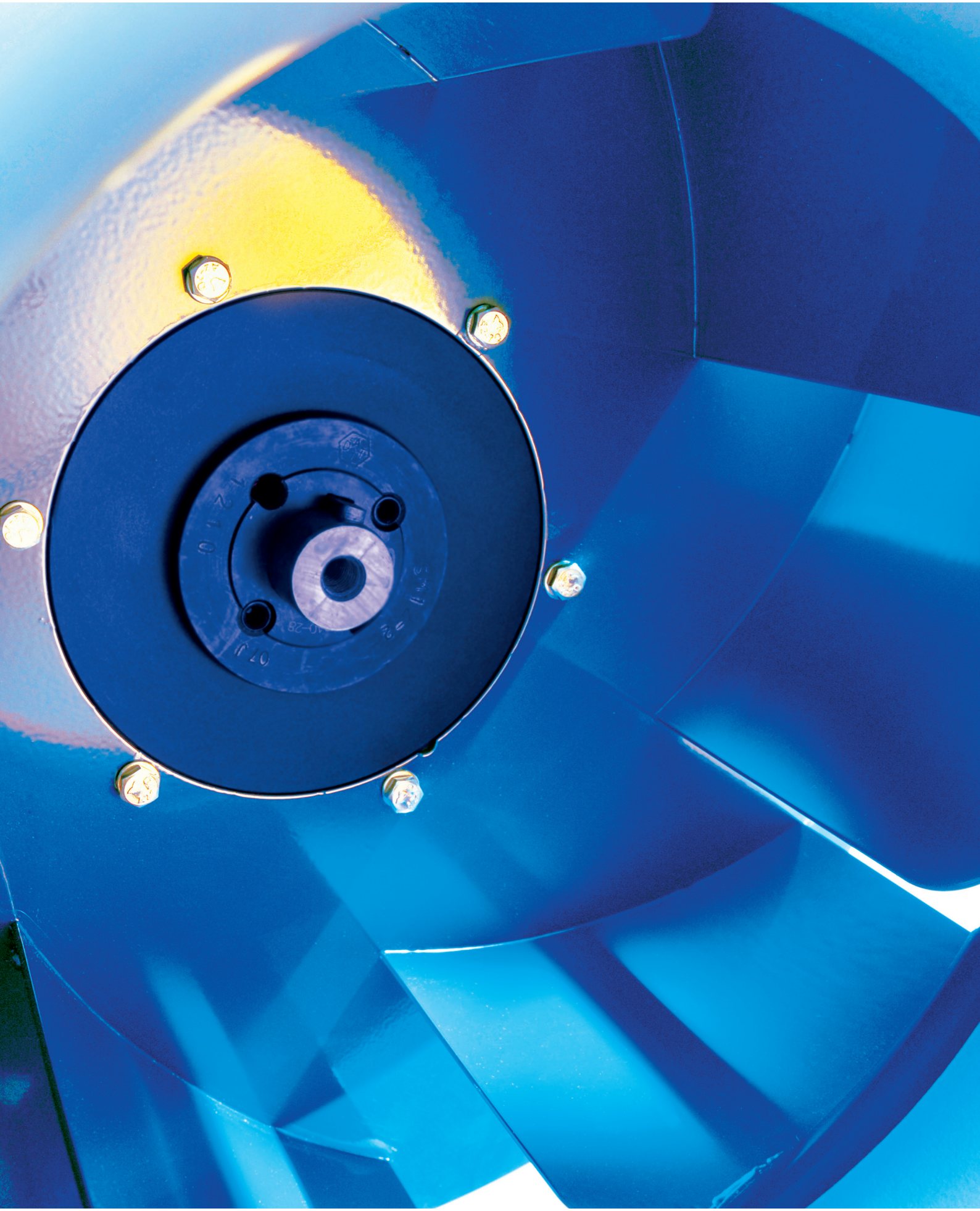
Ventilation unit GR in installation position H

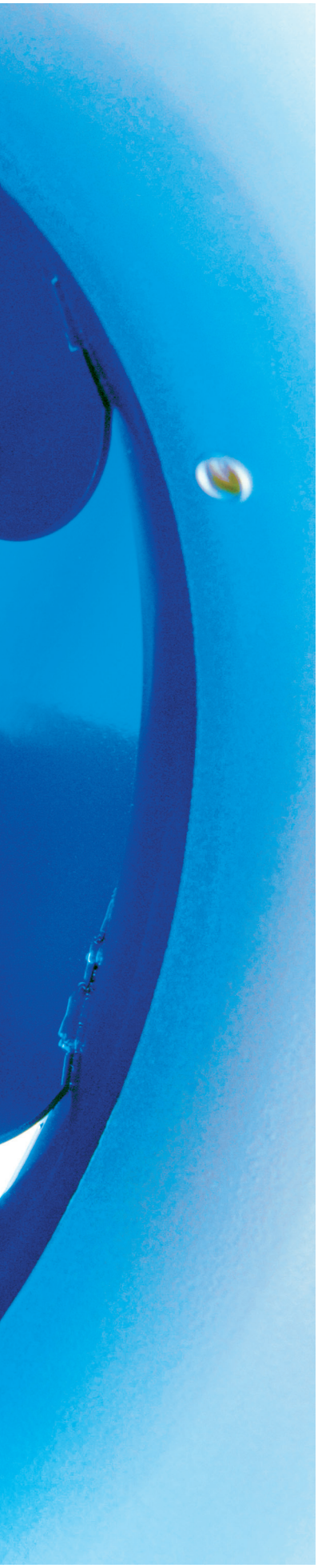



Ventilation unit GR in installation position Vu/Vo




| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.50 | GR63C-6DN.E5.CR | 757 | 778 | 757 |
| 2.20 | GR63C-6DN.F5.CR | 806 | 827 | 806 |
| 3.00 | GR63C-6DN.G5.CR | 814 | 835 | 814 |
| 4.00 | GR63C-4DN.F5.CR | 806 | 827 | 806 |
| 5.50 | GR63C-4DN.G5.CR | 814 | 835 | 814 |
| 7.50 | GR63C-4DN.H5.CR | 852 | 873 | 852 |
| 11.00 | GR63C-4DN.I5.CR | 924 | 945 | 924 |
| 15.00 | GR63C-4DN.K5.CR | 979 | 1000 | 979 |



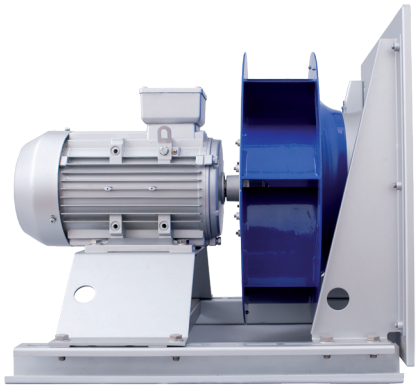


# Plug fan ER..C, ventilation unit GR..C

# Plug fan, ventilation unit

## ER22C, GR22C

Motor IE2

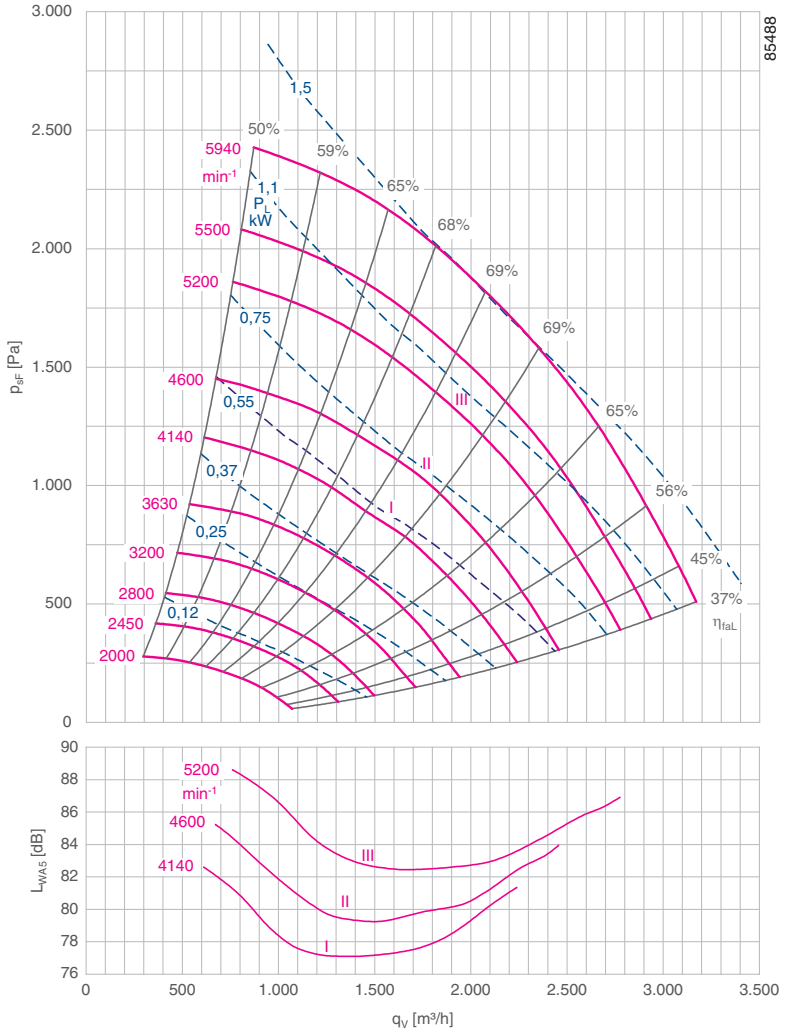


### Description

- 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


| | |
|---|---|
| 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 |


Fan curve RH..C




### Technical data

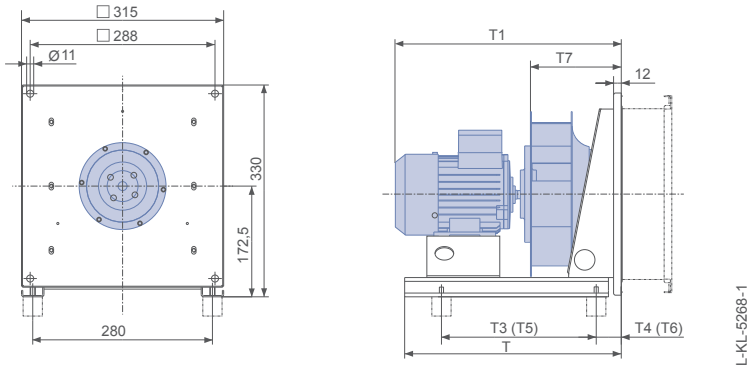
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min⁻¹ | Rated current $I_N$ A | Max. speed $n_{max}$ min⁻¹ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 0.55 | ER22C-2DN.A7.1R | 71M | I | 2800 | 1.31 | 4140 | 74 |
| 0.75 | ER22C-2DN.B7.1R | 80M | II | 2825 | 1.62 | 4600 | 81 |
| 1.10 | ER22C-2DN.B7.1R | 80M | III | 2825 | 2.28 | 5200 | 92 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power $P_N$ kW | Type ER..C | Article no. ER..C | kg max. | Type GR..C | Installation position H Article no. GR..C | Installation position Vu Article no. GR..C | Installation position Vo Article no. GR..C | kg max. |
| 0.55 | ER22C-2DN.A7.1R | 130613/0F01 | 15 | | | | | |
| 0.75 | ER22C-2DN.B7.1R | 130614/0F01 | 20 | GR22C-2DN.B5.1R | 113732/H01 | 113732/U01 | 113732/O01 | 19 |
| 1.10 | ER22C-2DN.B7.1R | 130615/0F01 | 21 | GR22C-2DN.B5.1R | 113733/H01 | 113733/U01 | 113733/O01 | 21 |

## Dimensions in mm

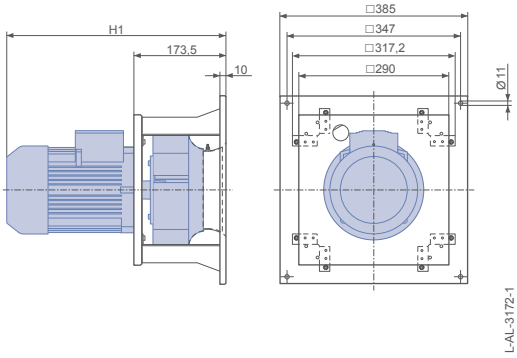
Plug fan ER in installation position H



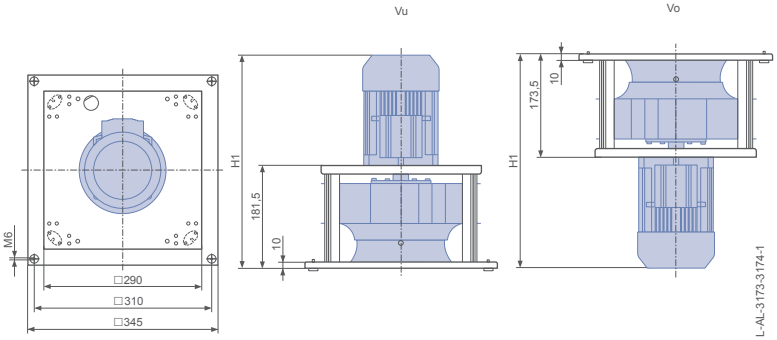

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.55 | ER22C-2DN.A7.1R | 460 | 377 | 316 | 39 | 224 | 56 | 142 | MSN 3 | 30x30 / 40 |
| 0.75 | ER22C-2DN.B7.1R | 460 | 422 | 348 | 52 | 266 | 69 | 142 | MSN 4 | 30x30 / 55 |
| 1.10 | ER22C-2DN.B7.1R | 460 | 422 | 358 | 50 | 256 | 79 | 142 | MSN 4 | 30x30 / 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

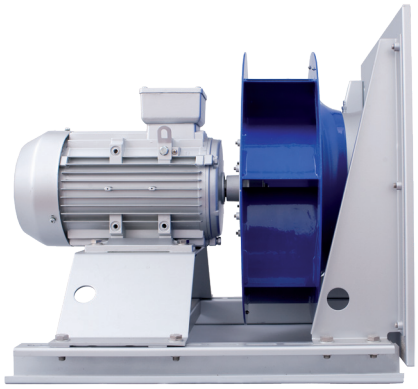



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 0.75 | GR22C-2DN.B5.1R | 410 | 418 | 410 |
| 1.10 | GR22C-2DN.B5.1R | 410 | 418 | 410 |

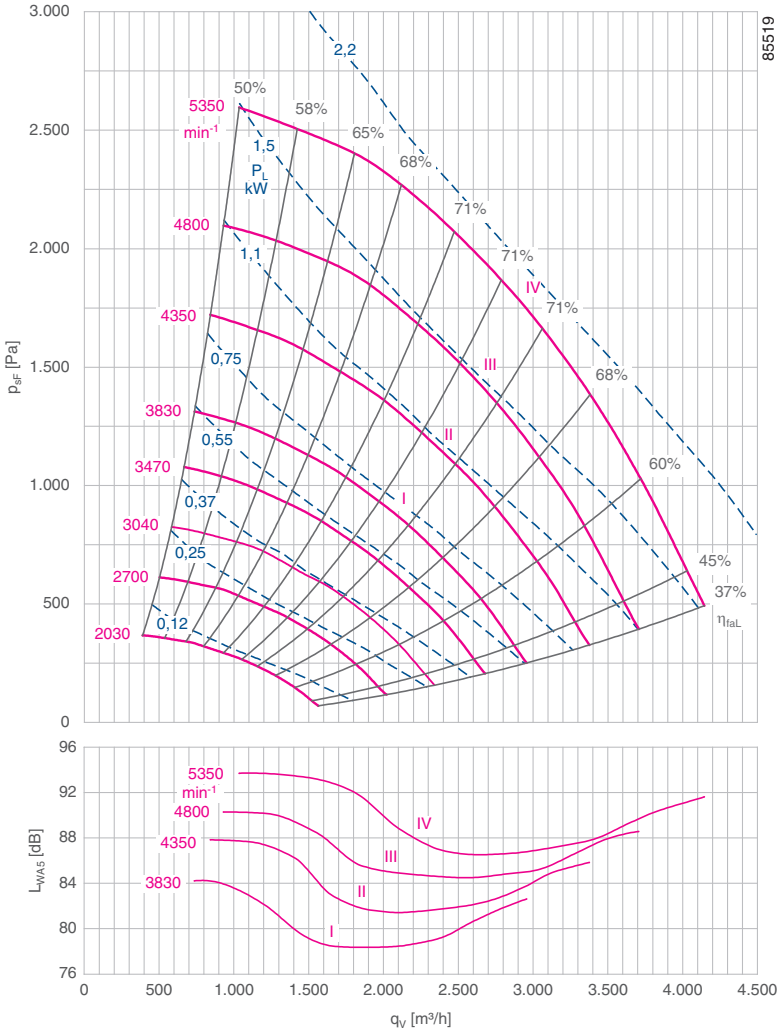
# Plug fan, ventilation unit

## ER25C, GR25C

Motor IE2



### Fan curve RH..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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


### Technical data

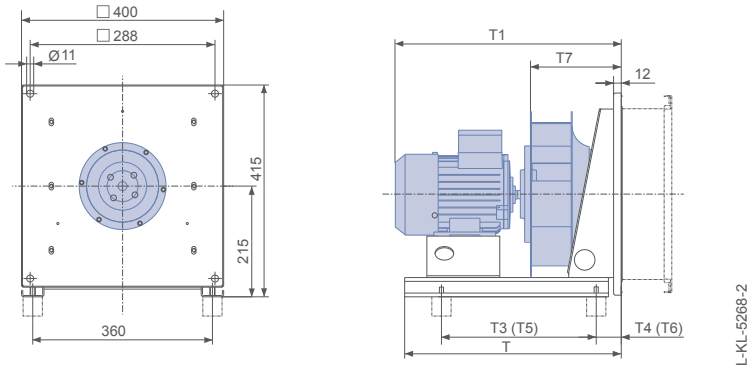
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 0.75 | ER25C-2DN.B7.1R | 80M | I | 2825 | 1.62 | 3830 | 68 |
| 1.10 | ER25C-2DN.B7.1R | 80M | II | 2825 | 2.28 | 4350 | 77 |
| 1.50 | ER25C-2DN.C7.1R | 90S | III | 2840 | 3.06 | 4800 | 85 |
| 2.20 | ER25C-2DN.D7.1R | 90L | IV | 2840 | 4.36 | 5350 | 94 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | m max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | m max. |
| 0.75 | **ER25C-2DN.B7.1R** | **130609/0F01** | 23 | **GR25C-2DN.B5.1R** | **113734/H01** | **113734/U01** | **113734/O01** | 20 |
| 1.10 | **ER25C-2DN.B7.1R** | **130610/0F01** | 25 | **GR25C-2DN.B5.1R** | **113735/H01** | **113735/U01** | **113735/O01** | 22 |
| 1.50 | **ER25C-2DN.C7.1R** | **130611/0F01** | 29 | **GR25C-2DN.C5.1R** | **113736/H01** | **113736/U01** | **113736/O01** | 26 |
| 2.20 | **ER25C-2DN.D7.1R** | **130612/0F01** | 33 | **GR25C-2DN.D5.1R** | **113737/H01** | **113737/U01** | **113737/O01** | 30 |

## Dimensions in mm

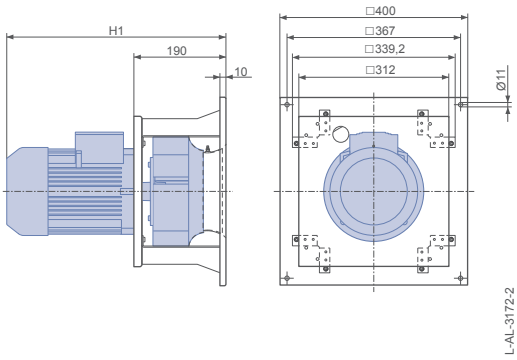
### Plug fan ER in installation position H



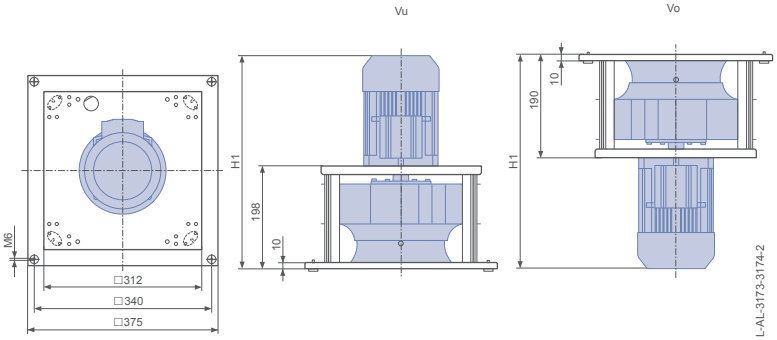

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.75 | ER25C-2DN.B7.1R | 460 | 439 | 330 | 61 | 252 | 80 | 158 | MSN 4 | 30x30 / 55 |
| 1.10 | ER25C-2DN.B7.1R | 460 | 439 | 342 | 59 | 296 | 63 | 158 | MSN 4 | 30x30 / 55 |
| 1.50 | ER25C-2DN.C7.1R | 460 | 464 | 362 | 63 | 322 | 65 | 158 | MSN 4 | 30x30 / 55 |
| 2.20 | ER25C-2DN.D7.1R | 460 | 489 | 334 | 91 | 292 | 96 | 158 | 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

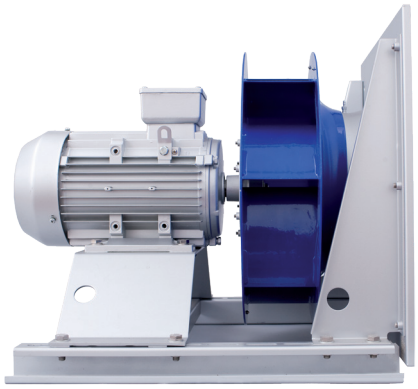



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 0.75 | GR25C-2DN.B5.1R | 427 | 435 | 427 |
| 1.10 | GR25C-2DN.B5.1R | 427 | 435 | 427 |
| 1.50 | GR25C-2DN.C5.1R | 452 | 460 | 452 |
| 2.20 | GR25C-2DN.D5.1R | 477 | 485 | 477 |

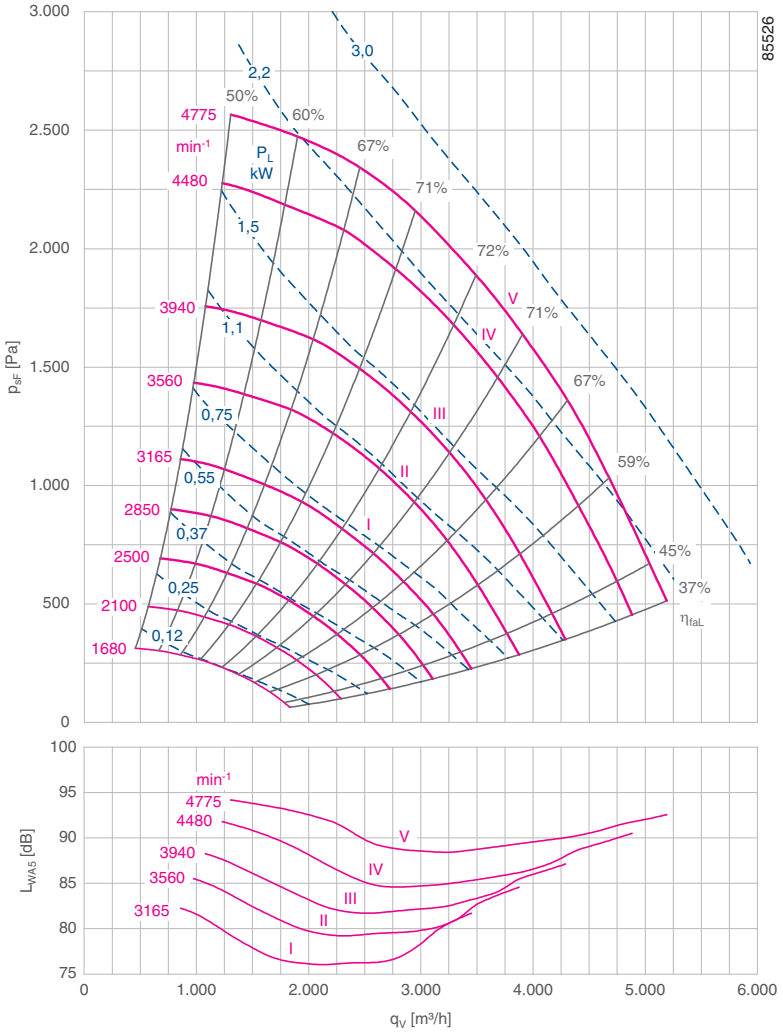
# Plug fan, ventilation unit

## ER28C, GR28C

Motor IE2



Fan curve RH..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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


## Technical data

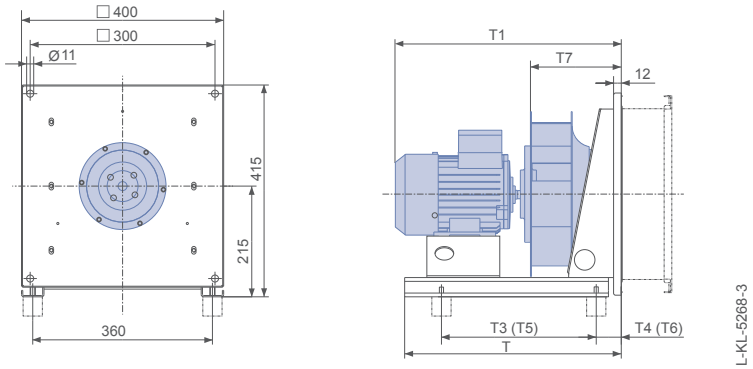
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 0.75 | ER28C-2DN.B7.1R | 80M | I | 2825 | 1.62 | 3165 | 56 |
| 1.10 | ER28C-2DN.B7.1R | 80M | II | 2825 | 2.28 | 3560 | 63 |
| 1.50 | ER28C-2DN.C7.1R | 90S | III | 2840 | 3.06 | 3940 | 69 |
| 2.20 | ER28C-2DN.D7.1R | 90L | IV | 2840 | 4.36 | 4480 | 79 |
| 3.00 | ER28C-2DN.E7.1R | 100L | V | 2880 | 5.73 | 4775 | 83 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 0.75 | **ER28C-2DN.B7.1R** | **130604/0F01** | 24 | **GR28C-2DN.B5.1R** | **113738/H01** | **113738/U01** | **113738/O01** | 23 |
| 1.10 | **ER28C-2DN.B7.1R** | **130605/0F01** | 26 | **GR28C-2DN.B5.1R** | **113739/H01** | **113739/U01** | **113739/O01** | 24 |
| 1.50 | **ER28C-2DN.C7.1R** | **130606/0F01** | 30 | **GR28C-2DN.C5.1R** | **113740/H01** | **113740/U01** | **113740/O01** | 28 |
| 2.20 | **ER28C-2DN.D7.1R** | **130607/0F01** | 34 | **GR28C-2DN.D5.1R** | **113741/H01** | **113741/U01** | **113741/O01** | 32 |
| 3.00 | **ER28C-2DN.E7.1R** | **130608/0F01** | 41 | **GR28C-2DN.E5.1R** | **113742/H01** | **113742/U01** | **113742/O01** | 38 |

## Dimensions in mm

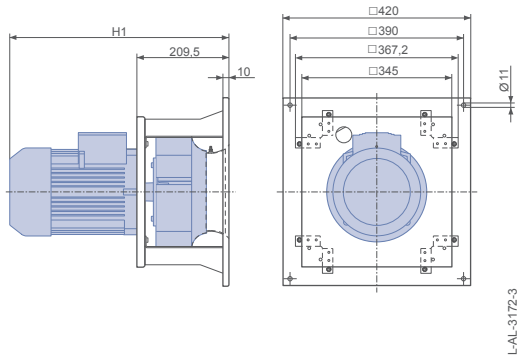
Plug fan ER in installation position H



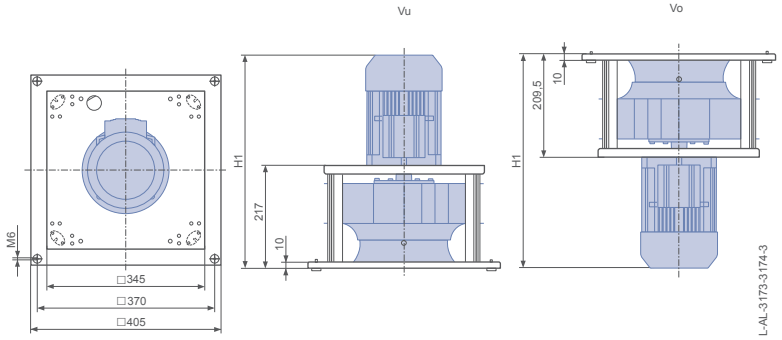

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.75 | ER28C-2DN.B7.1R | 460 | 455 | 350 | 61 | 302 | 63 | 174 | MSN 4 | 30x30 / 40 |
| 1.10 | ER28C-2DN.B7.1R | 460 | 455 | 362 | 59 | 308 | 65 | 174 | MSN 4 | 30x30 / 55 |
| 1.50 | ER28C-2DN.C7.1R | 460 | 480 | 350 | 80 | 306 | 82 | 174 | MSN 4 | 30x30 / 55 |
| 2.20 | ER28C-2DN.D7.1R | 460 | 505 | 320 | 110 | 342 | 81 | 174 | MSN 5 | 30x30 / 55 |
| 3.00 | 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

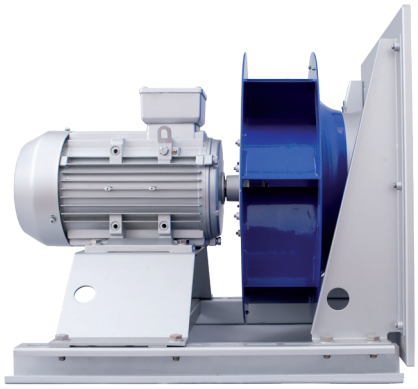



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 0.75 | GR28C-2DN.B5.1R | 443 | 450 | 443 |
| 1.10 | GR28C-2DN.B5.1R | 443 | 450 | 443 |
| 1.50 | GR28C-2DN.C5.1R | 468 | 475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

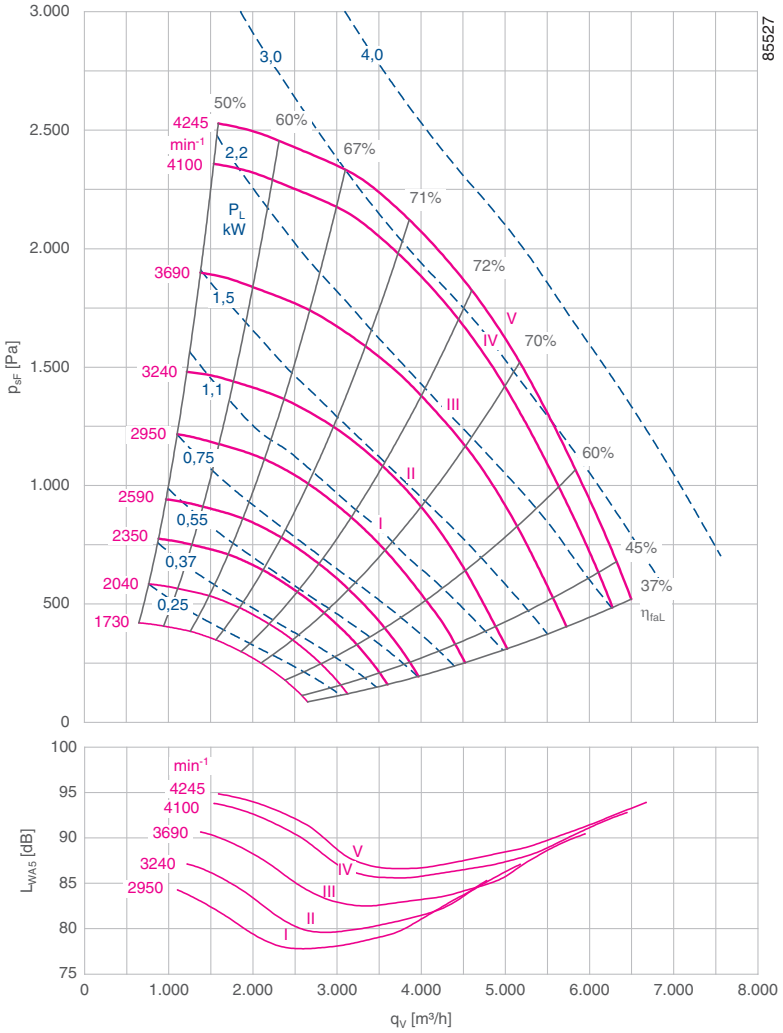
# Plug fan, ventilation unit

## ER31C, GR31C

Motor IE2



### Fan curve RH..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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


### Technical data

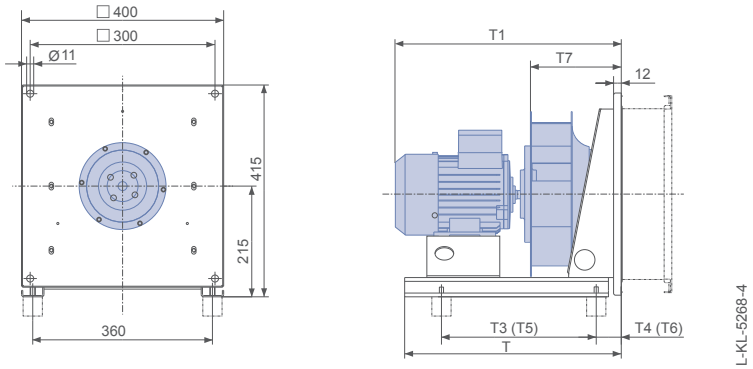
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.10 | ER31C-2DN.B7.1R | 80M | I | 2825 | 2.28 | 2950 | 52 |
| 1.50 | ER31C-2DN.C7.1R | 90S | II | 2840 | 3.06 | 3240 | 57 |
| 2.20 | ER31C-2DN.D7.1R | 90L | III | 2840 | 4.36 | 3690 | 65 |
| 3.00 | ER31C-2DN.E7.1R | 100L | IV | 2880 | 5.73 | 4100 | 71 |
| 4.00 | ER31C-2DN.F7.1R | 112M | V | 2875 | 7.48 | 4245 | 74 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 1.10 | **ER31C-2DN.B7.1R** | **130599/0F01** | 27 | **GR31C-2DN.B5.1R** | **113743/H01** | **113743/U01** | **113743/O01** | 28 |
| 1.50 | **ER31C-2DN.C7.1R** | **130600/0F01** | 32 | **GR31C-2DN.C5.1R** | **113744/H01** | **113744/U01** | **113744/O01** | 32 |
| 2.20 | **ER31C-2DN.D7.1R** | **130601/0F01** | 36 | **GR31C-2DN.D5.1R** | **113745/H01** | **113745/U01** | **113745/O01** | 36 |
| 3.00 | **ER31C-2DN.E7.1R** | **130602/0F01** | 42 | **GR31C-2DN.E5.1R** | **113746/H01** | **113746/U01** | **113746/O01** | 41 |
| 4.00 | **ER31C-2DN.F7.1R** | **130603/0F01** | 45 | **GR31C-2DN.F5.1R** | **113747/H01** | **113747/U01** | **113747/O01** | 44 |

## Dimensions in mm

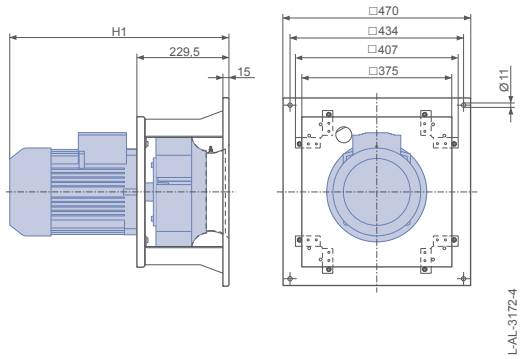
Plug fan ER in installation position H



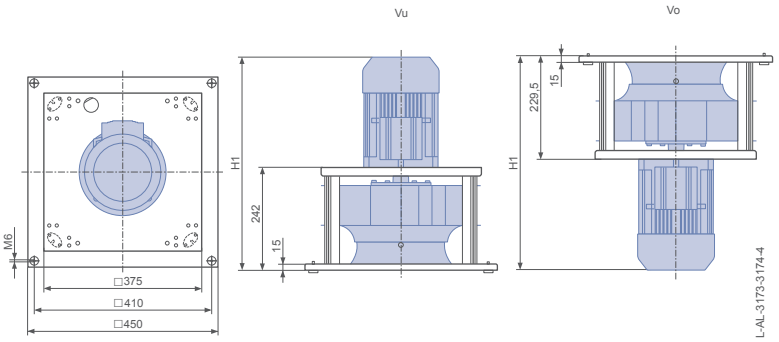

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.10 | ER31C-2DN.B7.1R | 460 | 475 | 360 | 70 | 316 | 71 | 194 | MSN 4 | 30x30 / 40 |
| 1.50 | ER31C-2DN.C7.1R | 570 | 500 | 414 | 63 | 372 | 65 | 194 | MSN 4 | 30x30 / 55 |
| 2.20 | ER31C-2DN.D7.1R | 570 | 525 | 412 | 79 | 350 | 93 | 194 | MSN 5 | 30x30 / 55 |
| 3.00 | ER31C-2DN.E7.1R | 570 | 563 | 460 | 75 | 452 | 63 | 194 | MSN 5 | 40x30 / 55 |
| 4.00 | ER31C-2DN.F7.1R | 570 | 612 | 434 | 97 | 472 | 63 | 194 | 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

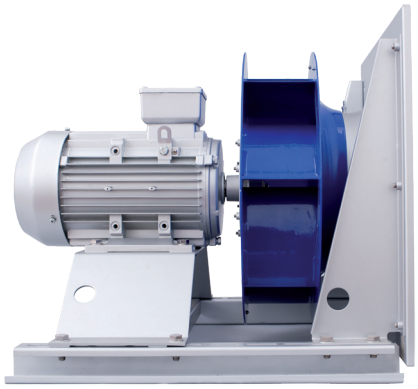



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.10 | GR31C-2DN.B5.1R | 463 | 475 | 463 |
| 1.50 | GR31C-2DN.C5.1R | 488 | 500 | 488 |
| 2.20 | GR31C-2DN.D5.1R | 513 | 525 | 513 |
| 3.00 | GR31C-2DN.E5.1R | 551 | 563 | 551 |
| 4.00 | GR31C-2DN.F5.1R | 600 | 612 | 600 |

# Plug fan, ventilation unit

## ER35C, GR35C

Motor IE2

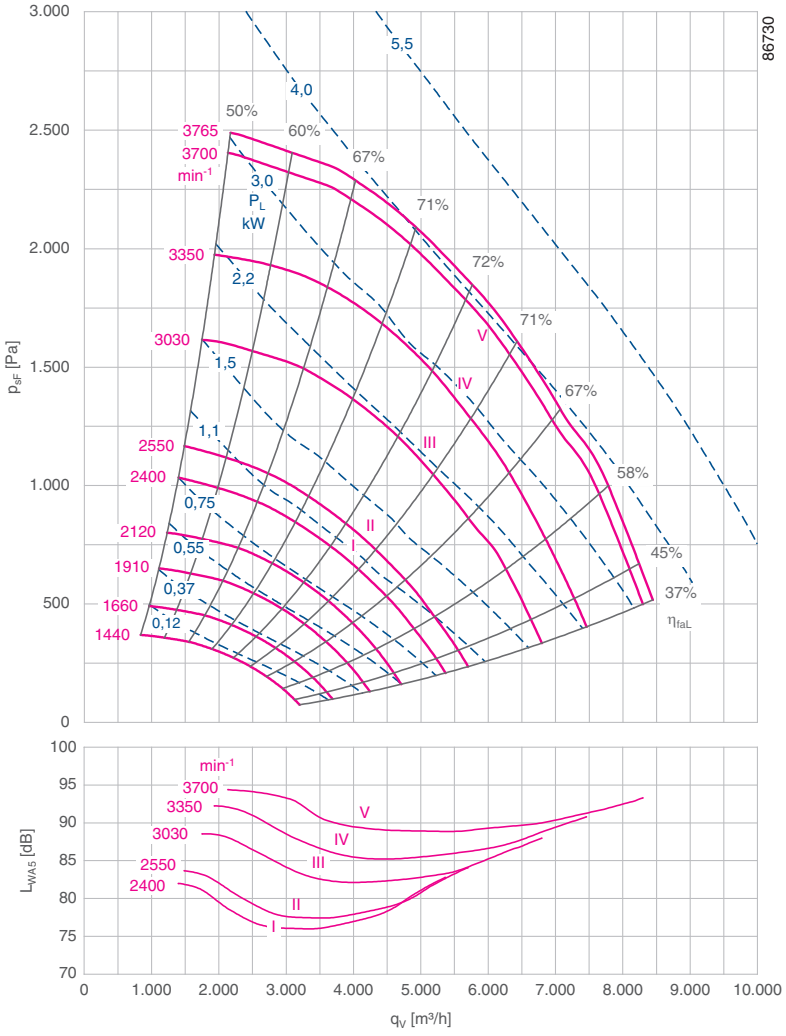


### Description

- 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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


Fan curve RH..C




### Technical data

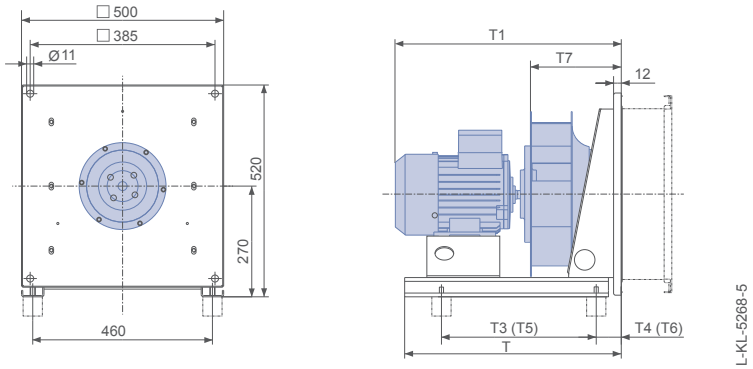
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.10 | ER35C-4DN.C7.1R | 90S | I | 1400 | 2.46 | 2400 | 86 |
| 1.50 | ER35C-4DN.D7.1R | 90L | II | 1400 | 3.22 | 2550 | 91 |
| 2.20 | ER35C-2DN.D7.1R | 90L | III | 2840 | 4.36 | 3030 | 53 |
| 3.00 | ER35C-2DN.E7.1R | 100L | IV | 2880 | 5.73 | 3350 | 58 |
| 4.00 | ER35C-2DN.F7.1R | 112M | V | 2875 | 7.48 | 3700 | 64 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 1.10 | **ER35C-4DN.C7.1R** | **131399/0F01** | 36 | **GR35C-4DN.C5.1R** | **113748/H01** | **113748/U01** | **113748/O01** | 36 |
| 1.50 | **ER35C-4DN.D7.1R** | **130595/0F01** | 39 | **GR35C-4DN.D5.1R** | **113749/H01** | **113749/U01** | **113749/O01** | 38 |
| 2.20 | **ER35C-2DN.D7.1R** | **130596/0F01** | 39 | **GR35C-2DN.D5.1R** | **113750/H01** | **113750/U01** | **113750/O01** | 39 |
| 3.00 | **ER35C-2DN.E7.1R** | **130597/0F01** | 46 | **GR35C-2DN.E5.1R** | **113751/H01** | **113751/U01** | **113751/O01** | 44 |
| 4.00 | **ER35C-2DN.F7.1R** | **130598/0F01** | 49 | **GR35C-2DN.F5.1R** | **113752/H01** | **113752/U01** | **113752/O01** | 47 |

## Dimensions in mm

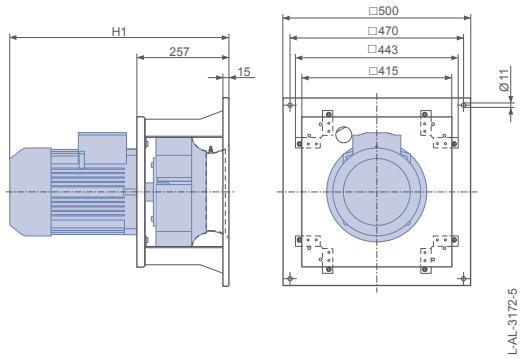
### Plug fan ER in installation position H



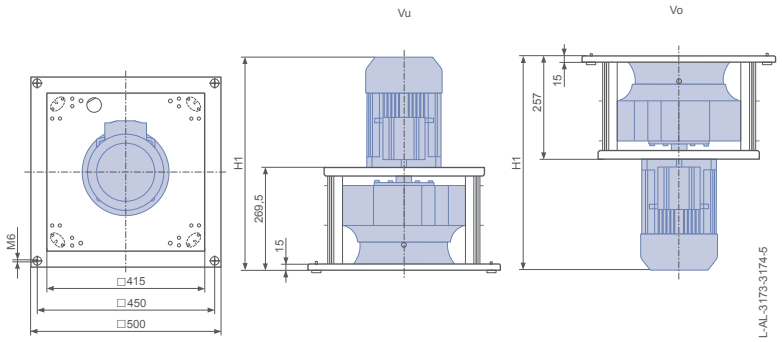

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.10 | ER35C-4DN.C7.1R | 570 | 522 | 404 | 71 | 360 | 75 | 217 | MSN 5 | 30x30 / 40 |
| 1.50 | ER35C-4DN.D7.1R | 570 | 547 | 412 | 79 | 350 | 93 | 217 | MSN 5 | 30x30 / 55 |
| 2.20 | ER35C-2DN.D7.1R | 570 | 547 | 410 | 81 | 348 | 95 | 217 | MSN 6 | 30x30 / 55 |
| 3.00 | ER35C-2DN.E7.1R | 570 | 585 | 452 | 83 | 444 | 71 | 217 | MSN 6 | 30x30 / 55 |
| 4.00 | ER35C-2DN.F7.1R | 570 | 634 | 434 | 101 | 464 | 71 | 217 | MSN 6 | 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

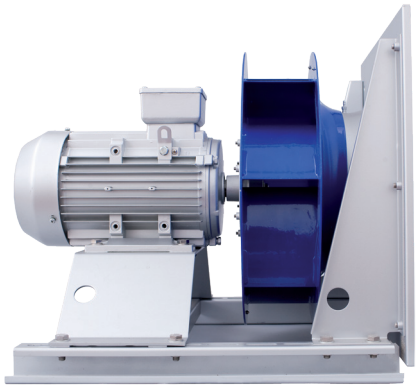



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.10 | GR35C-4DN.C5.1R | 510 | 523 | 510 |
| 1.50 | GR35C-4DN.D5.1R | 535 | 548 | 535 |
| 2.20 | GR35C-2DN.D5.1R | 535 | 548 | 535 |
| 3.00 | GR35C-2DN.E5.1R | 573 | 586 | 573 |
| 4.00 | GR35C-2DN.F5.1R | 622 | 635 | 622 |

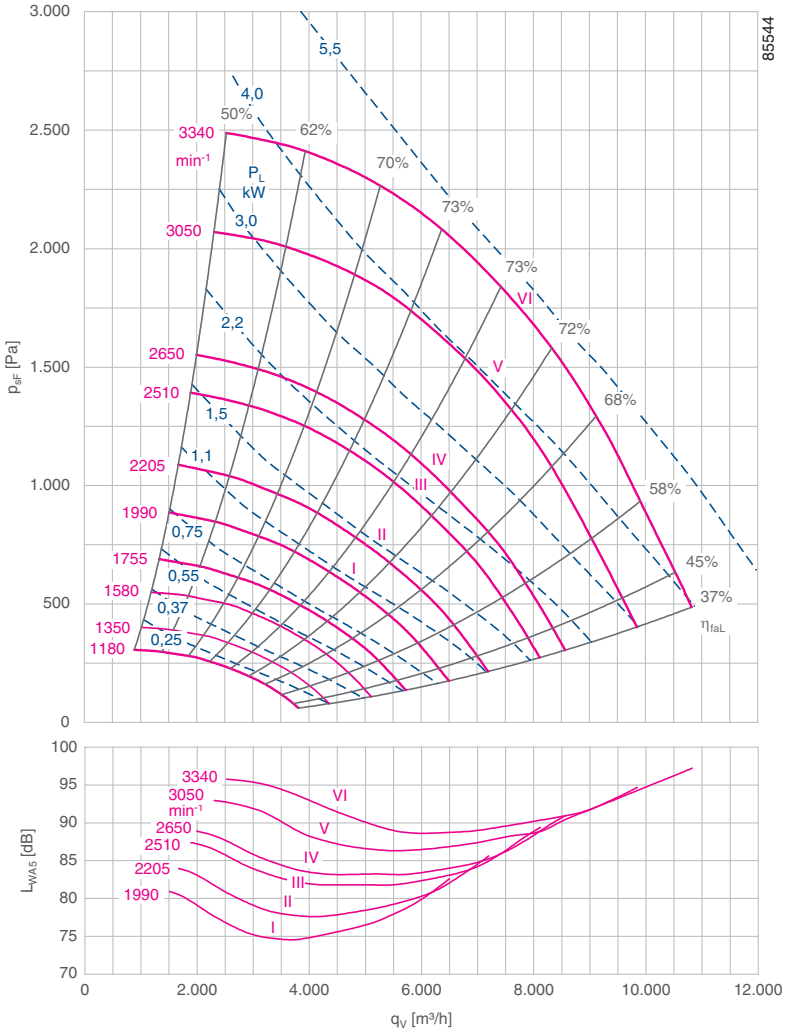
# Plug fan, ventilation unit

## ER40C, GR40C

Motor IE2



### Fan curve RH..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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


### Technical data

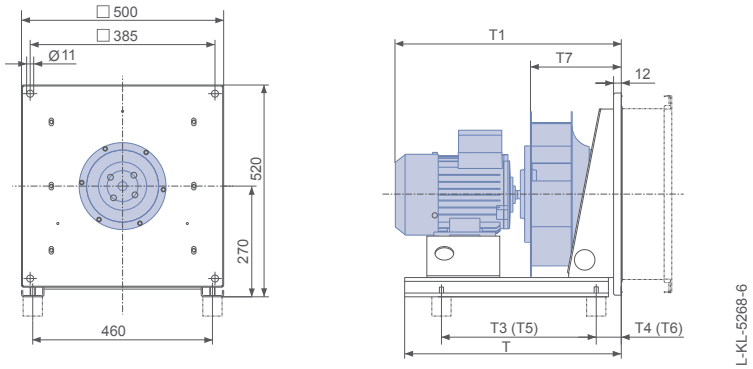
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.10 | ER40C-4DN.C7.1R | 90S | I | 1400 | 2.46 | 1990 | 71 |
| 1.50 | ER40C-4DN.D7.1R | 90L | II | 1400 | 3.22 | 2205 | 79 |
| 2.20 | ER40C-4DN.E7.1R | 100L | III | 1440 | 4.53 | 2510 | 87 |
| 3.00 | ER40C-4DN.E7.1R | 100L | IV | 1420 | 6.04 | 2650 | 93 |
| 4.00 | ER40C-2DN.F7.1R | 112M | V | 2875 | 7.48 | 3050 | 53 |
| 5.50 | ER40C-2DN.G7.1R | 132S | VI | 2890 | 10.20 | 3340 | 58 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power $P_N$ kW | Type ER..C | Article no. ER..C | kg max. | Type GR..C | Installation position H Article no. GR..C | Installation position Vu Article no. GR..C | Installation position Vo Article no. GR..C | kg max. |
| 1.10 | ER40C-4DN.C7.1R | 130589/0F01 | 40 | GR40C-4DN.C5.1R | 113753/H01 | 113753/U01 | 113753/O01 | 44 |
| 1.50 | ER40C-4DN.D7.1R | 130590/0F01 | 42 | GR40C-4DN.D5.1R | 113754/H01 | 113754/U01 | 113754/O01 | 46 |
| 2.20 | ER40C-4DN.E7.1R | 130591/0F01 | 52 | GR40C-4DN.E5.1R | 113755/H01 | 113755/U01 | 113755/O01 | 54 |
| 3.00 | ER40C-4DN.E7.1R | 130592/0F01 | 57 | GR40C-4DN.E5.1R | 113756/H01 | 113756/U01 | 113756/O01 | 59 |
| 4.00 | ER40C-2DN.F7.1R | 130593/0F01 | 53 | GR40C-2DN.F5.1R | 113757/H01 | 113757/U01 | 113757/O01 | 55 |
| 5.50 | ER40C-2DN.G7.1R | 130594/0F01 | 69 | GR40C-2DN.G5.1R | 113758/H01 | 113758/U01 | 113758/O01 | 71 |

## Dimensions in mm

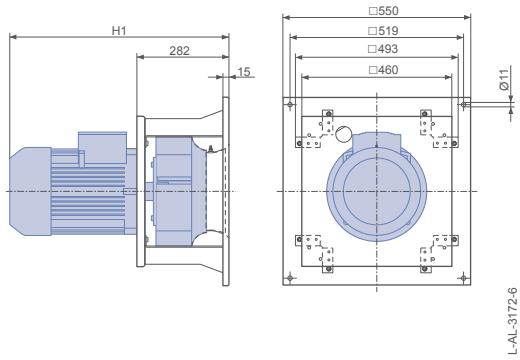
### Plug fan ER in installation position H



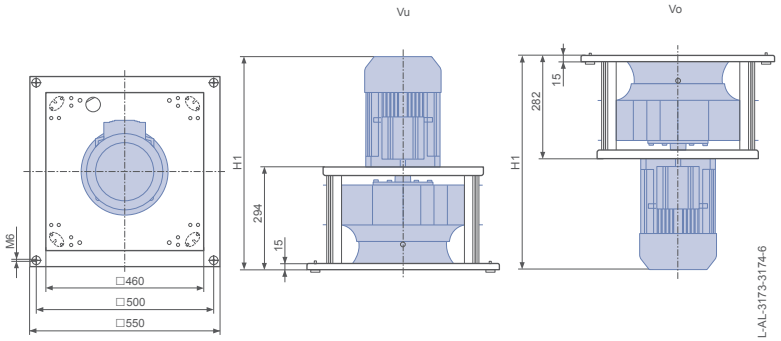

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.10 | ER40C-4DN.C7.1R | 570 | 548 | 406 | 75 | 364 | 79 | 243 | MSN 5 | 30x30 / 40 |
| 1.50 | ER40C-4DN.D7.1R | 570 | 573 | 408 | 87 | 382 | 83 | 243 | MSN 5 | 30x30 / 40 |
| 2.20 | ER40C-4DN.E7.1R | 570 | 611 | 428 | 107 | 418 | 97 | 243 | MSN 5 | 30x30 / 55 |
| 3.00 | ER40C-4DN.E7.1R | 570 | 611 | 412 | 123 | 440 | 95 | 243 | MSN 6 | 30x30 / 55 |
| 4.00 | ER40C-2DN.F7.1R | 720 | 660 | 520 | 70 | 508 | 62 | 243 | MSN 6 | 30x30 / 55 |
| 5.50 | ER40C-2DN.G7.1R | 720 | 673 | 578 | 71 | 560 | 68 | 243 | MSN 6 | 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

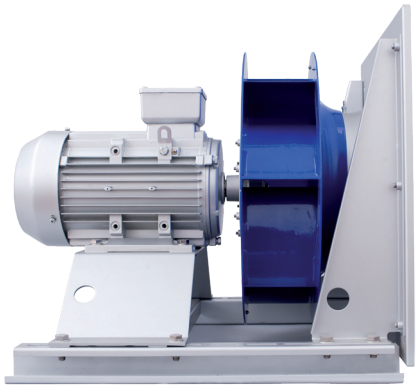



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.10 | GR40C-4DN.C5.1R | 536 | 548 | 536 |
| 1.50 | GR40C-4DN.D5.1R | 561 | 573 | 561 |
| 2.20 | GR40C-4DN.E5.1R | 599 | 611 | 599 |
| 3.00 | GR40C-4DN.E5.1R | 599 | 611 | 599 |
| 4.00 | GR40C-2DN.F5.1R | 648 | 660 | 648 |
| 5.50 | GR40C-2DN.G5.1R | 656 | 668 | 656 |

# Plug fan, ventilation unit

## ER45C, GR45C

Motor IE2

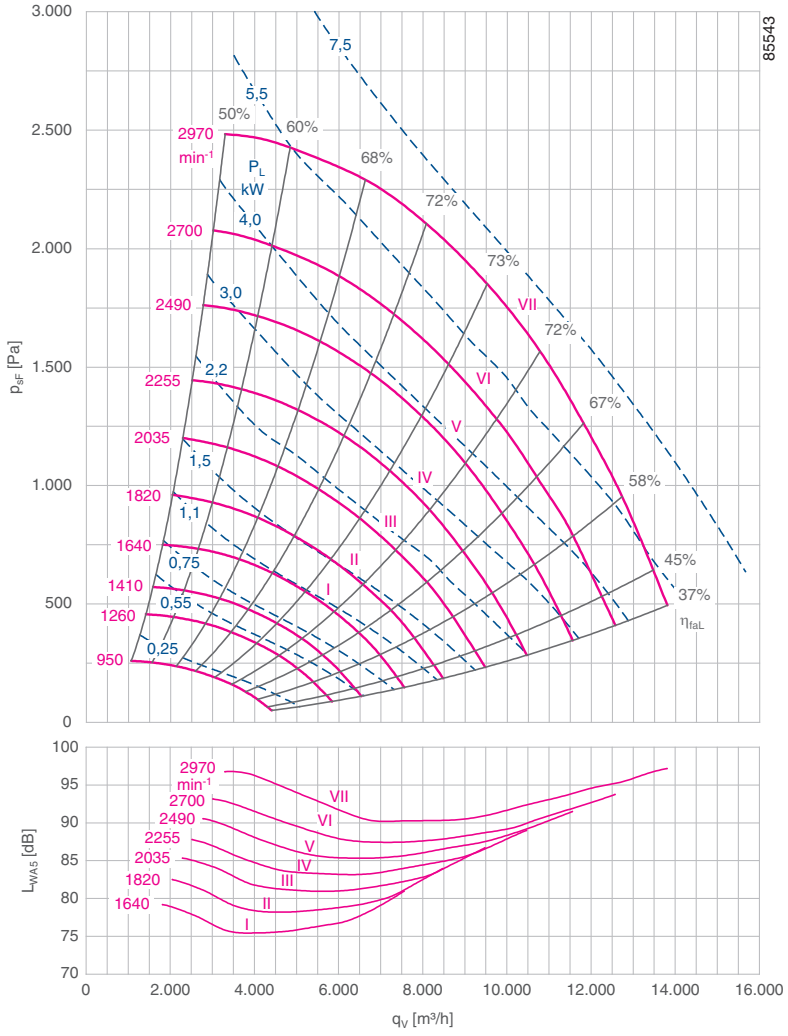


### Description

- 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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


### Fan curve RH..C




### Technical data

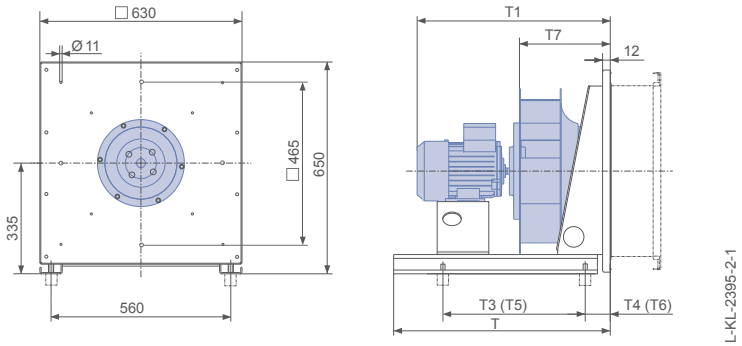
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min⁻¹ | Rated current $I_N$ A | Max. speed $n_{max}$ min⁻¹ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.10 | ER45C-4DN.C7.1R | 90S | I | 1400 | 2.46 | 1640 | 59 |
| 1.50 | ER45C-4DN.D7.1R | 90L | II | 1400 | 3.22 | 1820 | 65 |
| 2.20 | ER45C-4DN.E7.1R | 100L | III | 1440 | 4.53 | 2035 | 71 |
| 3.00 | ER45C-4DN.E7.1R | 100L | IV | 1420 | 6.04 | 2255 | 79 |
| 4.00 | ER45C-4DN.F7.1R | 112M | V | 1450 | 7.96 | 2490 | 86 |
| 5.50 | ER45C-4DN.G7.1R | 132S | VI | 1440 | 10.70 | 2770 | 96 |
| 7.50 | ER45C-2DN.G7.1R | 132S | VII | 2915 | 13.70 | 2970 | 51 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 1.10 | **ER45C-4DN.C7.1R** | **130582/0F01** | 50 | **GR45C-4DN.C5.1R** | **113759/H01** | **113759/U01** | **113759/O01** | 54 |
| 1.50 | **ER45C-4DN.D7.1R** | **130583/0F01** | 53 | **GR45C-4DN.D5.1R** | **113760/H01** | **113760/U01** | **113760/O01** | 57 |
| 2.20 | **ER45C-4DN.E7.1R** | **130584/0F01** | 62 | **GR45C-4DN.E5.1R** | **113761/H01** | **113761/U01** | **113761/O01** | 65 |
| 3.00 | **ER45C-4DN.E7.1R** | **130585/0F01** | 67 | **GR45C-4DN.E5.1R** | **113762/H01** | **113762/U01** | **113762/O01** | 70 |
| 4.00 | **ER45C-4DN.F7.1R** | **130586/0F01** | 72 | **GR45C-4DN.F5.1R** | **113763/H01** | **113763/U01** | **113763/O01** | 74 |
| 5.50 | **ER45C-4DN.G7.1R** | **130587/0F01** | 82 | **GR45C-4DN.G5.1R** | **113764/H01** | **113764/U01** | **113764/O01** | 83 |
| 7.50 | **ER45C-2DN.G7.1R** | **130588/0F01** | 82 | **GR45C-2DN.G5.1R** | **113765/H01** | **113765/U01** | **113765/O01** | 83 |

## Dimensions in mm

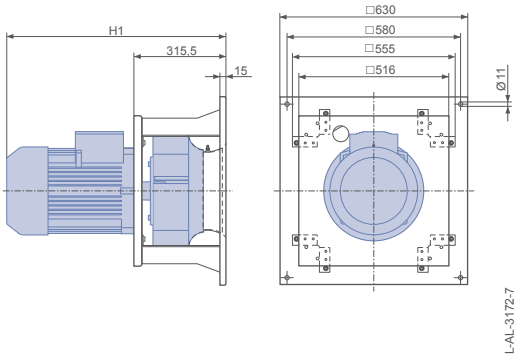
Plug fan ER in installation position H



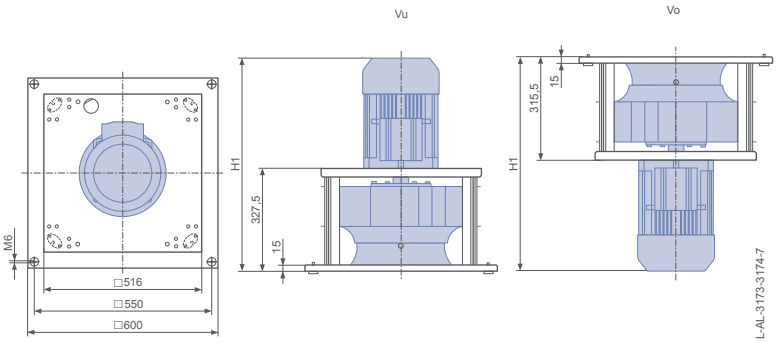

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.10 | ER45C-4DN.C7.1R | 570 | 582 | 414 | 75 | 350 | 92 | 271 | MSN 5 | 30x30 / 40 |
| 1.50 | ER45C-4DN.D7.1R | 570 | 607 | 404 | 91 | 394 | 81 | 271 | MSN 5 | 30x30 / 40 |
| 2.20 | ER45C-4DN.E7.1R | 570 | 645 | 424 | 111 | 422 | 98 | 271 | MSN 6 | 30x30 / 55 |
| 3.00 | ER45C-4DN.E7.1R | 570 | 645 | 408 | 127 | 434 | 101 | 271 | MSN 6 | 30x30 / 55 |
| 4.00 | ER45C-4DN.F7.1R | 720 | 694 | 572 | 58 | 496 | 84 | 271 | MSN 6 | 30x30 / 55 |
| 5.50 | ER45C-4DN.G7.1R | 720 | 702 | 596 | 74 | 576 | 72 | 271 | MSN 6 | 40x30 / 55 |
| 7.50 | ER45C-2DN.G7.1R | 720 | 702 | 616 | 64 | 588 | 66 | 271 | MSN 7 | 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

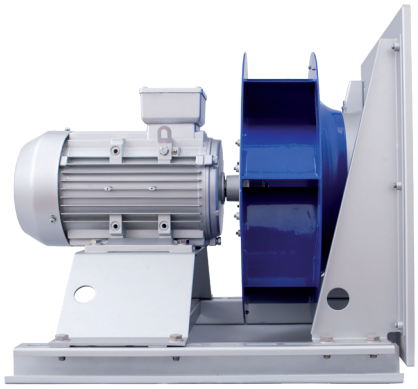



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.10 | GR45C-4DN.C5.1R | 570 | 582 | 570 |
| 1.50 | GR45C-4DN.D5.1R | 595 | 607 | 595 |
| 2.20 | GR45C-4DN.E5.1R | 633 | 645 | 633 |
| 3.00 | GR45C-4DN.E5.1R | 633 | 645 | 633 |
| 4.00 | GR45C-4DN.F5.1R | 682 | 694 | 682 |
| 5.50 | GR45C-4DN.G5.1R | 690 | 702 | 690 |
| 7.50 | GR45C-2DN.G5.1R | 690 | 702 | 690 |

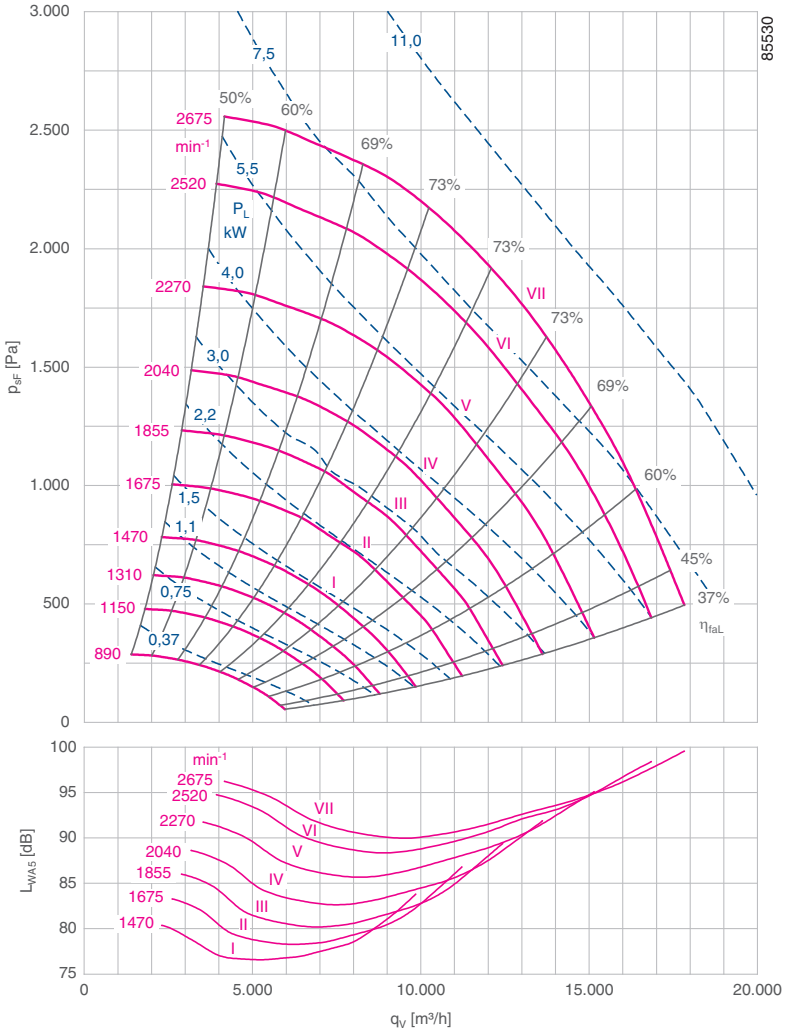
# Plug fan, ventilation unit

## ER50C, GR50C

Motor IE2



### Fan curve RH..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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


### Technical data

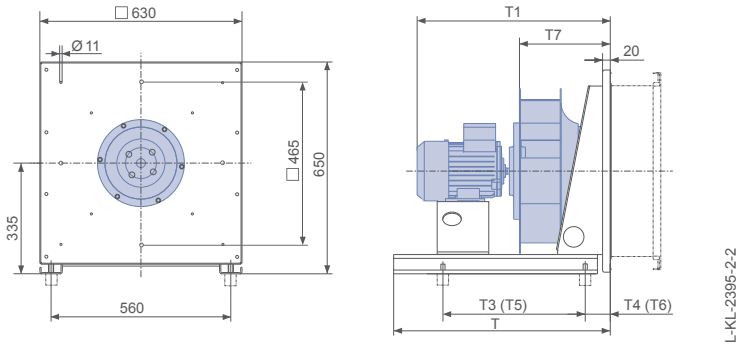
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min⁻¹ | Rated current $I_N$ A | Max. speed $n_{max}$ min⁻¹ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.50 | ER50C-4DN.D7.1R | 90L | I | 1400 | 3.22 | 1470 | 53 |
| 2.20 | ER50C-4DN.E7.1R | 100L | II | 1440 | 4.53 | 1675 | 58 |
| 3.00 | ER50C-4DN.E7.1R | 100L | III | 1420 | 6.04 | 1855 | 65 |
| 4.00 | ER50C-4DN.F7.1R | 112M | IV | 1450 | 7.96 | 2040 | 70 |
| 5.50 | ER50C-4DN.G7.1R | 132S | V | 1440 | 10.70 | 2270 | 79 |
| 7.50 | ER50C-4DN.H7.1R | 132M | VI | 1440 | 14.30 | 2520 | 88 |
| 11.00 | ER50C-4DN.I7.1R | 160M | VII | 1460 | 20.70 | 2675 | 92 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 1.50 | **ER50C-4DN.D7.1R** | **130575/0F01** | 59 | **GR50C-4DN.D5.1R** | **113766/H01** | **113766/U01** | **113766/O01** | 71 |
| 2.20 | **ER50C-4DN.E7.1R** | **130576/0F01** | 68 | **GR50C-4DN.E5.1R** | **113767/H01** | **113767/U01** | **113767/O01** | 79 |
| 3.00 | **ER50C-4DN.E7.1R** | **130577/0F01** | 73 | **GR50C-4DN.E5.1R** | **113768/H01** | **113768/U01** | **113768/O01** | 84 |
| 4.00 | **ER50C-4DN.F7.1R** | **130578/0F01** | 77 | **GR50C-4DN.F5.1R** | **113769/H01** | **113769/U01** | **113769/O01** | 88 |
| 5.50 | **ER50C-4DN.G7.1R** | **130579/0F01** | 88 | **GR50C-4DN.G5.1R** | **113770/H01** | **113770/U01** | **113770/O01** | 97 |
| 7.50 | **ER50C-4DN.H7.1R** | **130580/0F01** | 98 | **GR50C-4DN.H5.1R** | **113771/H01** | **113771/U01** | **113771/O01** | 108 |
| 11.00 | **ER50C-4DN.I7.1R** | **130581/0F01** | 168 | **GR50C-4DN.I5.1R** | **113772/H01** | **113772/U01** | **113772/O01** | 172 |

## Dimensions in mm

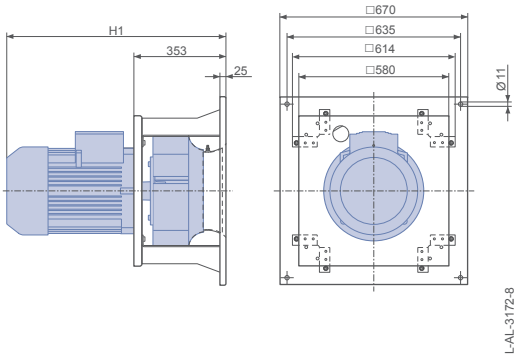
Plug fan ER in installation position H



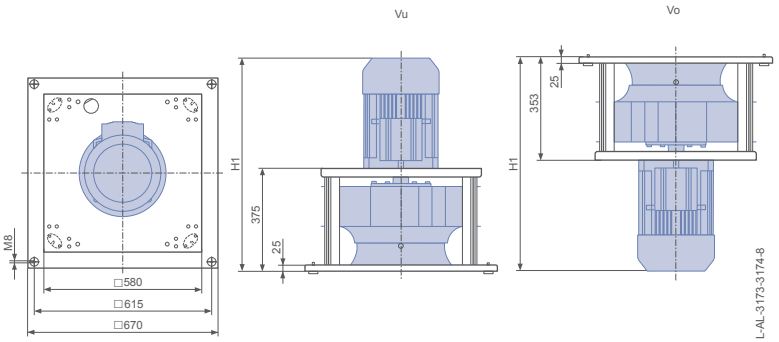

| Rated power $P_N$ kW | Type | T mm | T1 mm | T3 mm | T4 mm | T5 mm | T6 mm | T7 mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.50 | ER50C-4DN.D7.1R | 728 | 648 | 508 | 67 | 438 | 87 | 313 | MSN 6 | 30x30 / 40 |
| 2.20 | ER50C-4DN.E7.1R | 728 | 686 | 582 | 59 | 454 | 109 | 313 | MSN 6 | 30x30 / 40 |
| 3.00 | ER50C-4DN.E7.1R | 728 | 686 | 600 | 59 | 480 | 105 | 313 | MSN 6 | 30x30 / 40 |
| 4.00 | ER50C-4DN.F7.1R | 728 | 735 | 602 | 68 | 514 | 99 | 313 | MSN 6 | 30x30 / 55 |
| 5.50 | ER50C-4DN.G7.1R | 728 | 743 | 594 | 99 | 598 | 85 | 313 | MSN 7 | 30x30 / 55 |
| 7.50 | ER50C-4DN.H7.1R | 728 | 781 | 546 | 147 | 564 | 126 | 313 | MSN 7 | 40x30 / 55 |
| 11.00 | ER50C-4DN.I7.1R | 888 | 853 | 718 | 135 | 686 | 144 | 313 | MSN 7 | 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

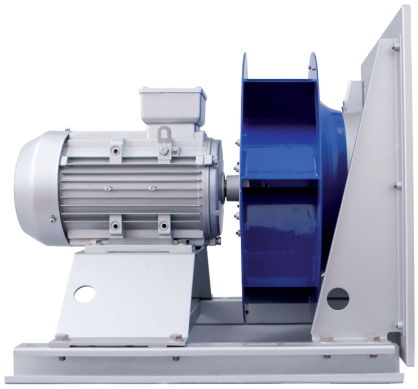



| Rated power $P_N$ kW | Type | Installation position H H1 mm | Installation position Vu H1 mm | Installation position Vo H1 mm |
|---|---|---|---|---|
| 1.50 | GR50C-4DN.D5.1R | 628 | 650 | 628 |
| 2.20 | GR50C-4DN.E5.1R | 666 | 688 | 666 |
| 3.00 | GR50C-4DN.E5.1R | 666 | 688 | 666 |
| 4.00 | GR50C-4DN.F5.1R | 715 | 737 | 715 |
| 5.50 | GR50C-4DN.G5.1R | 723 | 745 | 723 |
| 7.50 | GR50C-4DN.H5.1R | 761 | 783 | 761 |
| 11.00 | GR50C-4DN.I5.1R | 833 | 855 | 833 |

# Plug fan, ventilation unit

## ER56C, GR56C

Motor IE2

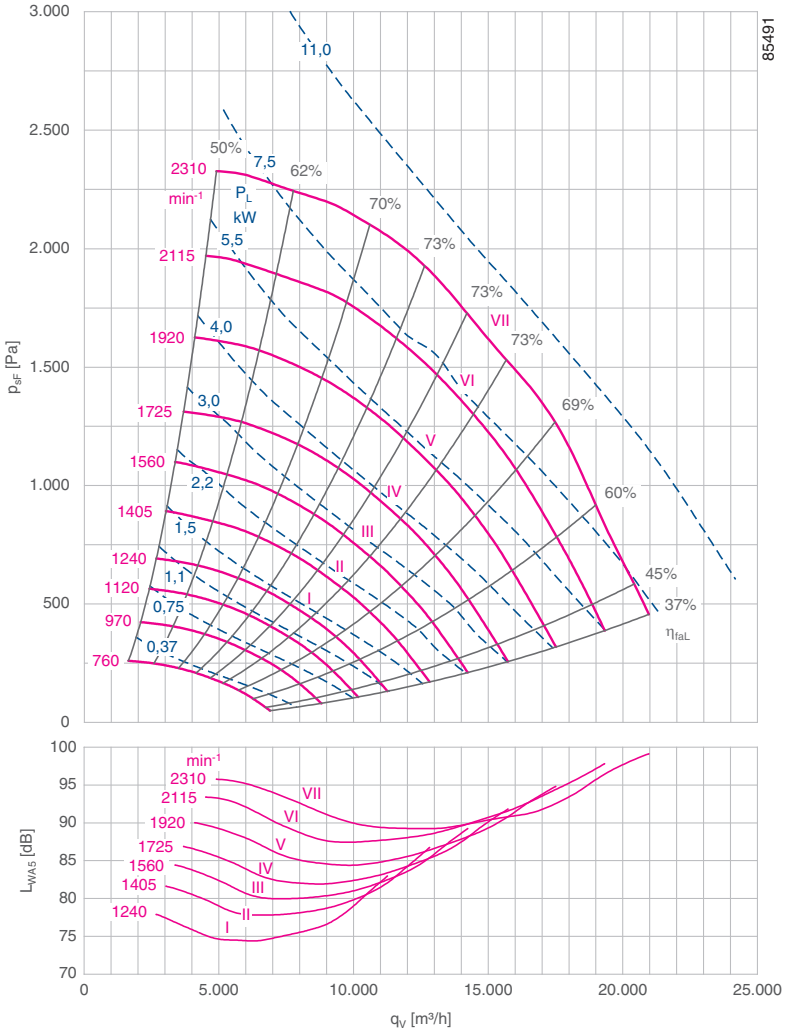


### Description

- 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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


Fan curve RH..C




### Technical data

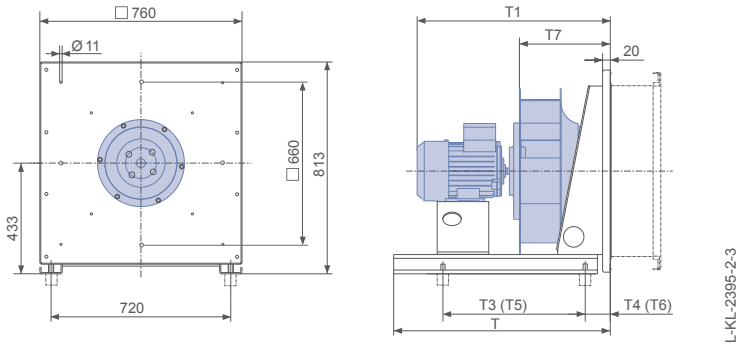
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min-1 | Rated current $I_N$ A | Max. speed $n_{max}$ min-1 | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.50 | ER56C-6DN.E7.1R | 100L | I | 940 | 3.53 | 1240 | 66 |
| 2.20 | ER56C-4DN.E7.1R | 100L | II | 1440 | 4.53 | 1405 | 49 |
| 3.00 | ER56C-4DN.E7.1R | 100L | III | 1420 | 6.04 | 1560 | 55 |
| 4.00 | ER56C-4DN.F7.1R | 112M | IV | 1450 | 7.96 | 1725 | 59 |
| 5.50 | ER56C-4DN.G7.1R | 132S | V | 1440 | 10.70 | 1920 | 67 |
| 7.50 | ER56C-4DN.H7.1R | 132M | VI | 1440 | 14.30 | 2115 | 73 |
| 11.00 | ER56C-4DN.I7.1R | 160M | VII | 1460 | 20.70 | 2310 | 79 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position H | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 1.50 | **ER56C-6DN.E7.1R** | **130568/0F01** | 77 | **GR56C-6DN.E5.1R** | **113773/H01** | **113773/U01** | **113773/O01** | 91 |
| 2.20 | **ER56C-4DN.E7.1R** | **130569/0F01** | 79 | **GR56C-4DN.E5.1R** | **113774/H01** | **113774/U01** | **113774/O01** | 92 |
| 3.00 | **ER56C-4DN.E7.1R** | **130570/0F01** | 84 | **GR56C-4DN.E5.1R** | **113775/H01** | **113775/U01** | **113775/O01** | 97 |
| 4.00 | **ER56C-4DN.F7.1R** | **130571/0F01** | 88 | **GR56C-4DN.F5.1R** | **113776/H01** | **113776/U01** | **113776/O01** | 101 |
| 5.50 | **ER56C-4DN.G7.1R** | **130572/0F01** | 101 | **GR56C-4DN.G5.1R** | **113777/H01** | **113777/U01** | **113777/O01** | 111 |
| 7.50 | **ER56C-4DN.H7.1R** | **130573/0F01** | 111 | **GR56C-4DN.H5.1R** | **113778/H01** | **113778/U01** | **113778/O01** | 121 |
| 11.00 | **ER56C-4DN.I7.1R** | **130574/0F01** | 182 | **GR56C-4DN.I5.1R** | **113779/H01** | **113779/U01** | **113779/O01** | 185 |

## Dimensions in mm

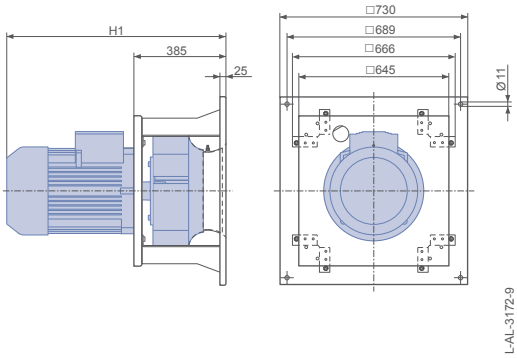
Plug fan ER in installation position H



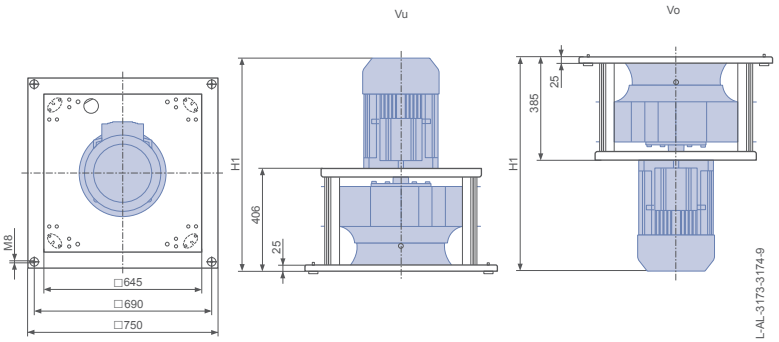

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.50 | ER56C-6DN.E7.1R | 720 | 718 | 586 | 54 | 464 | 98 | 345 | MSN 6 | 30x30 / 40 |
| 2.20 | ER56C-4DN.E7.1R | 720 | 718 | 600 | 50 | 444 | 112 | 345 | MSN 6 | 30x30 / 40 |
| 3.00 | ER56C-4DN.E7.1R | 720 | 718 | 620 | 50 | 468 | 110 | 345 | MSN 7 | 30x30 / 40 |
| 4.00 | ER56C-4DN.F7.1R | 720 | 767 | 618 | 62 | 506 | 102 | 345 | MSN 7 | 30x30 / 55 |
| 5.50 | ER56C-4DN.G7.1R | 880 | 775 | 684 | 62 | 602 | 88 | 345 | MSN 7 | 30x30 / 55 |
| 7.50 | ER56C-4DN.H7.1R | 880 | 813 | 730 | 62 | 630 | 98 | 345 | SD 4 | 40x30 / 55 |
| 11.00 | ER56C-4DN.I7.1R | 880 | 885 | 686 | 164 | 690 | 152 | 345 | SD 4 | 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

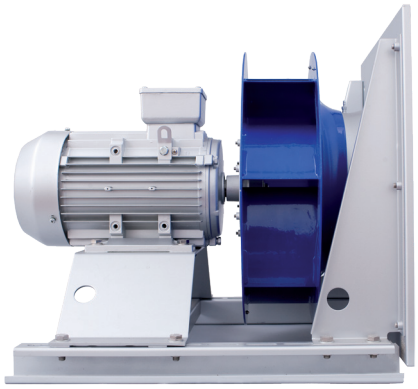



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.50 | GR56C-6DN.E5.1R | 698 | 719 | 698 |
| 2.20 | GR56C-4DN.E5.1R | 698 | 719 | 698 |
| 3.00 | GR56C-4DN.E5.1R | 698 | 719 | 698 |
| 4.00 | GR56C-4DN.F5.1R | 747 | 768 | 747 |
| 5.50 | GR56C-4DN.G5.1R | 755 | 776 | 755 |
| 7.50 | GR56C-4DN.H5.1R | 793 | 814 | 793 |
| 11.00 | GR56C-4DN.I5.1R | 865 | 886 | 865 |

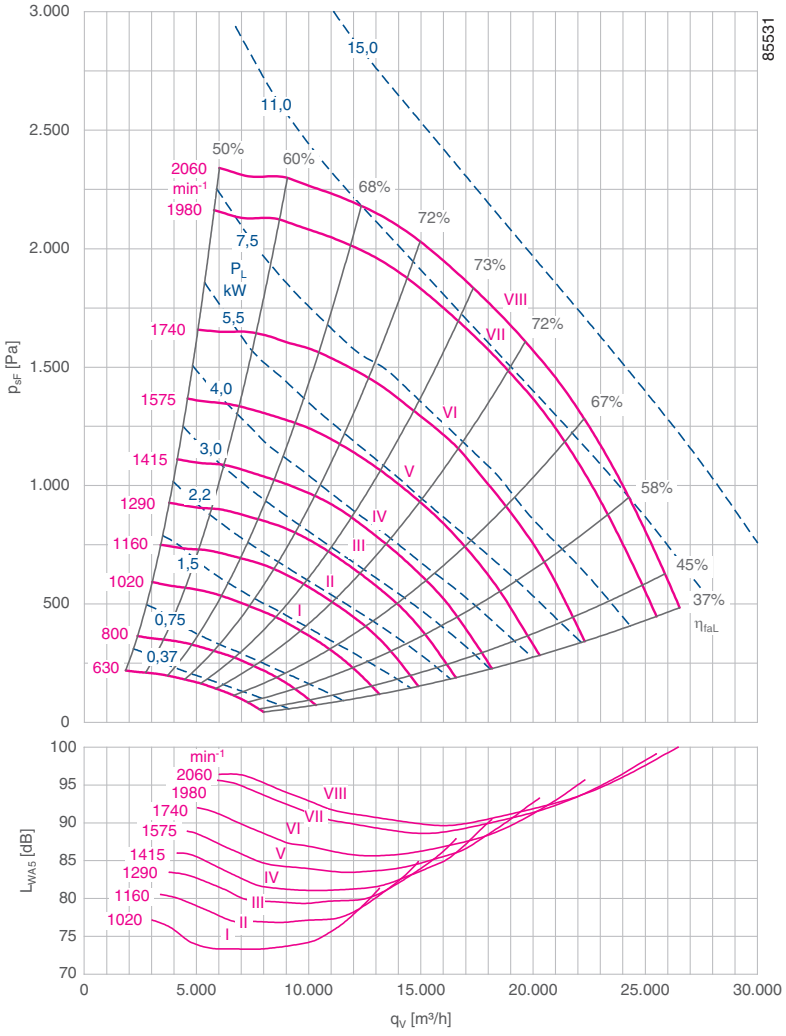
# Plug fan, ventilation unit

## ER63C, GR63C

Motor IE2



Fan curve RH..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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


## Technical data

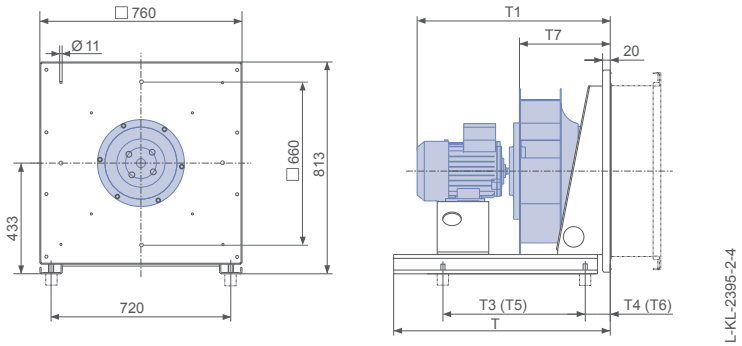
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min⁻¹ | Rated current $I_N$ A | Max. speed $n_{max}$ min⁻¹ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 1.50 | ER63C-6DN.E7.1R | 100L | I | 940 | 3.53 | 1020 | 54 |
| 2.20 | ER63C-6DN.F7.1R | 112M | II | 945 | 5.00 | 1160 | 61 |
| 3.00 | ER63C-6DN.G7.1R | 132S | III | 960 | 6.70 | 1290 | 67 |
| 4.00 | ER63C-4DN.F7.1R | 112M | IV | 1450 | 7.96 | 1415 | 49 |
| 5.50 | ER63C-4DN.G7.1R | 132S | V | 1440 | 10.70 | 1575 | 55 |
| 7.50 | ER63C-4DN.H7.1R | 132M | VI | 1440 | 14.30 | 1740 | 60 |
| 11.00 | ER63C-4DN.I7.1R | 160M | VII | 1460 | 20.70 | 1980 | 68 |
| 15.00 | ER63C-4DN.K7.1R | 160L | VIII | 1460 | 27.70 | 2060 | 71 |

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

| Basic version ER | | | | Basic version GR | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated power $P_N$ kW | Type ER..C | Article no. ER..C | kg max. | Type GR..C | Installation position H Article no. GR..C | Installation position Vu Article no. GR..C | Installation position Vo Article no. GR..C | kg max. |
| 1.50 | ER63C-6DN.E7.1R | 130560/0F01 | 92 | GR63C-6DN.E5.1R | 113780/H01 | 113780/U01 | 113780/O01 | 118 |
| 2.20 | ER63C-6DN.F7.1R | 130561/0F01 | 95 | GR63C-6DN.F5.1R | 113781/H01 | 113781/U01 | 113781/O01 | 121 |
| 3.00 | ER63C-6DN.G7.1R | 130562/0F01 | 107 | GR63C-6DN.G5.1R | 113782/H01 | 113782/U01 | 113782/O01 | 129 |
| 4.00 | ER63C-4DN.F7.1R | 130563/0F01 | 102 | GR63C-4DN.F5.1R | 113783/H01 | 113783/U01 | 113783/O01 | 128 |
| 5.50 | ER63C-4DN.G7.1R | 130564/0F01 | 115 | GR63C-4DN.G5.1R | 113784/H01 | 113784/U01 | 113784/O01 | 137 |
| 7.50 | ER63C-4DN.H7.1R | 130565/0F01 | 126 | GR63C-4DN.H5.1R | 113785/H01 | 113785/U01 | 113785/O01 | 148 |
| 11.00 | ER63C-4DN.I7.1R | 130566/0F01 | 196 | GR63C-4DN.I5.1R | 113786/H01 | 113786/U01 | 113786/O01 | 212 |
| 15.00 | ER63C-4DN.K7.1R | 130567/0F01 | 208 | GR63C-4DN.K5.1R | 113787/H01 | 113787/U01 | 113787/O01 | 224 |

## Dimensions in mm

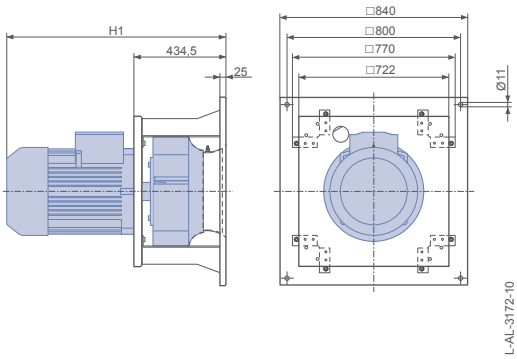
Plug fan ER in installation position H



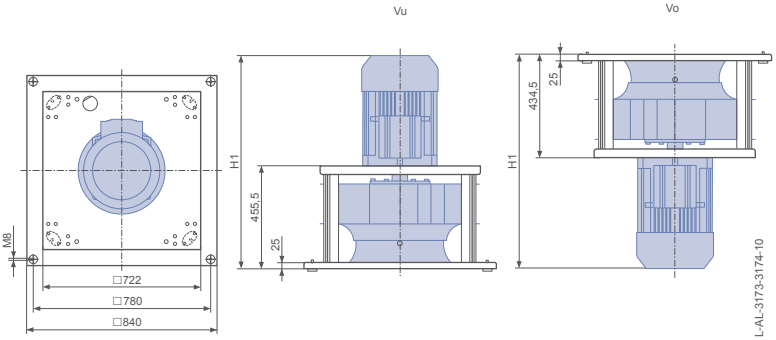

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.50 | ER63C-6DN.E7.1R | 720 | 758 | 606 | 64 | 526 | 84 | 384 | MSN 6 | 30x30 / 40 |
| 2.20 | ER63C-6DN.F7.1R | 720 | 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 | 853 | 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 H




Ventilation unit GR in installation position Vu/Vo

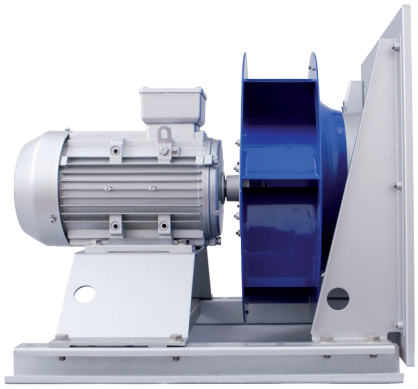



| Rated power<br>$P_N$<br>kW | Type | Installation position H<br>H1<br>mm | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|---|
| 1.50 | GR63C-6DN.E5.1R | 738 | 759 | 738 |
| 2.20 | GR63C-6DN.F5.1R | 787 | 808 | 787 |
| 3.00 | GR63C-6DN.G5.1R | 795 | 816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

# Plug fan, ventilation unit

## ER71C, GR71C

Motor IE2

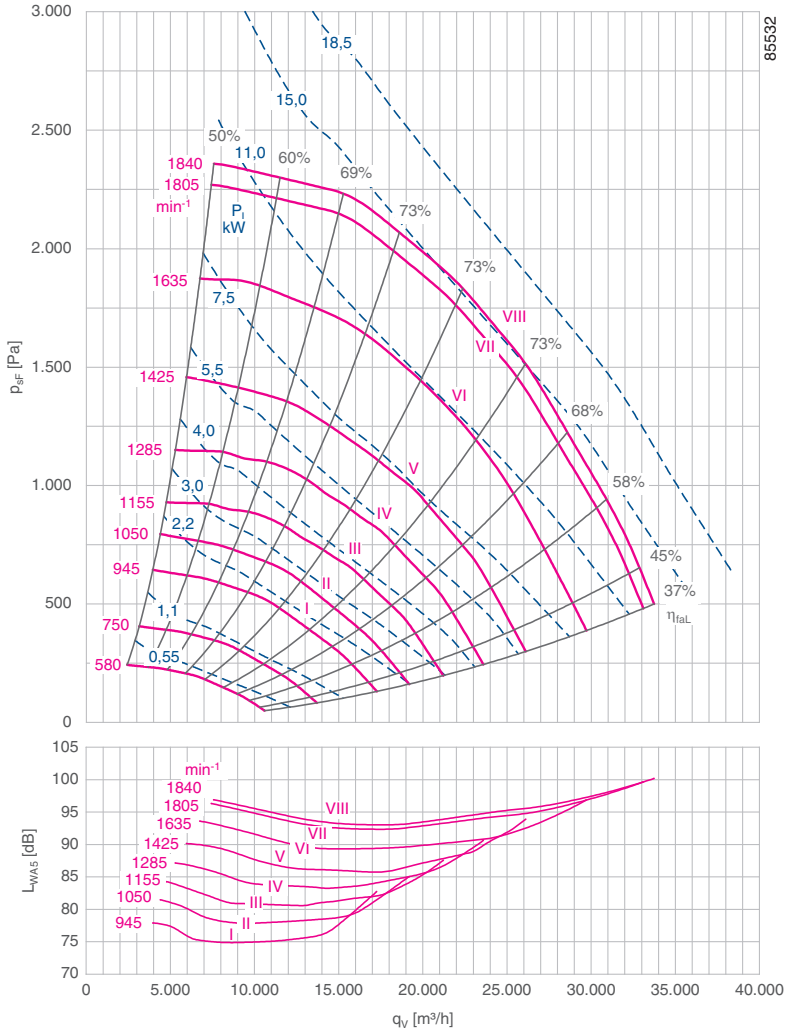


### Description

- 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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


### Fan curve RH..C




### Technical data

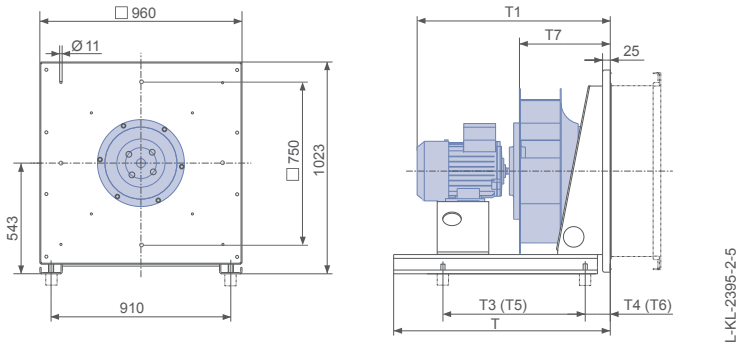
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min⁻¹ | Rated current $I_N$ A | Max. speed $n_{max}$ min⁻¹ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 2.20 | ER71C-6DN.F7.1R | 112M | I | 945 | 5.00 | 945 | 50 |
| 3.00 | ER71C-6DN.G7.1R | 132S | II | 960 | 6.70 | 1050 | 55 |
| 4.00 | ER71C-6DN.H7.1R | 132M | III | 960 | 8.10 | 1155 | 60 |
| 5.50 | ER71C-6DN.H7.1R | 132M | IV | 960 | 11.80 | 1285 | 67 |
| 7.50 | ER71C-4DN.H7.1R | 132M | V | 1440 | 14.30 | 1425 | 49 |
| 11.00 | ER71C-4DN.I7.1R | 160M | VI | 1460 | 20.70 | 1635 | 56 |
| 15.00 | ER71C-4DN.K7.1R | 160L | VII | 1460 | 27.70 | 1805 | 62 |
| 18.50 | ER71C-4DN.L7.1R | 180M | VIII | 1470 | 33.60 | 1840 | 63 |

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

| | Basic version ER | | | Basic version GR | | | |
|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 2.20 | **ER71C-6DN.F7.1R** | **130552/0F01** | 126 | **GR71C-6DN.F5.1R** | **113809/U01** | **113809/O01** | 147 |
| 3.00 | **ER71C-6DN.G7.1R** | **130553/0F01** | 137 | **GR71C-6DN.G5.1R** | **113810/U01** | **113810/O01** | 156 |
| 4.00 | **ER71C-6DN.H7.1R** | **130554/0F01** | 146 | **GR71C-6DN.H5.1R** | **113811/U01** | **113811/O01** | 164 |
| 5.50 | **ER71C-6DN.H7.1R** | **130555/0F01** | 155 | **GR71C-6DN.H5.1R** | **113812/U01** | **113812/O01** | 174 |
| 7.50 | **ER71C-4DN.H7.1R** | **130556/0F01** | 156 | **GR71C-4DN.H5.1R** | **113813/U01** | **113813/O01** | 174 |
| 11.00 | **ER71C-4DN.I7.1R** | **130557/0F01** | 224 | **GR71C-4DN.I5.1R** | **113814/U01** | **113814/O01** | 238 |
| 15.00 | **ER71C-4DN.K7.1R** | **130558/0F01** | 236 | **GR71C-4DN.K5.1R** | **113815/U01** | **113815/O01** | 250 |
| 18.50 | **ER71C-4DN.L7.1R** | **130559/0F01** | 273 | **GR71C-4DN.L5.1R** | **113816/U01** | **113816/O01** | 285 |

## Dimensions in mm

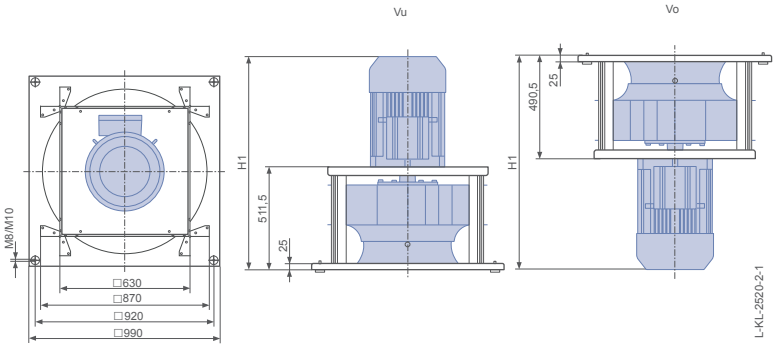
Plug fan ER in installation position H




| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.20 | ER71C-6DN.F7.1R | 885 | 858 | 636 | 84 | 608 | 82 | 435 | MSN 7 | 40x40 / 40 |
| 3.00 | ER71C-6DN.G7.1R | 885 | 866 | 690 | 85 | 662 | 83 | 435 | MSN 7 | 40x40 / 40 |
| 4.00 | ER71C-6DN.H7.1R | 885 | 904 | 708 | 94 | 680 | 92 | 435 | SD 4 | 40x40 / 40 |
| 5.50 | ER71C-6DN.H7.1R | 885 | 904 | 740 | 90 | 710 | 90 | 435 | SD 4 | 40x40 / 40 |
| 7.50 | ER71C-4DN.H7.1R | 885 | 904 | 712 | 105 | 686 | 102 | 435 | SD 4 | 40x40 / 40 |
| 11.00 | ER71C-4DN.I7.1R | 1045 | 976 | 756 | 169 | 722 | 173 | 435 | SD 4 | 50x50 / 55 |
| 15.00 | ER71C-4DN.K7.1R | 1045 | 1031 | 802 | 165 | 772 | 168 | 435 | SD 5 | 50x50 / 55 |
| 18.50 | ER71C-4DN.L7.1R | 1045 | 1101 | 836 | 174 | 858 | 152 | 435 | SD 5 | 50x50 / 55 |

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

Ventilation unit GR in installation position Vu/Vo

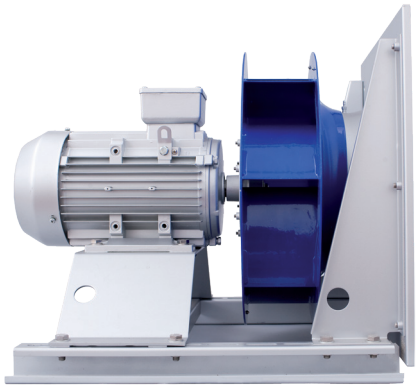



| Rated power<br>$P_N$<br>kW | Type | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|
| 2.20 | GR71C-6DN.F5.1R | 854 | 833 |
| 3.00 | GR71C-6DN.G5.1R | 862 | 841 |
| 4.00 | GR71C-6DN.H5.1R | 900 | 879 |
| 5.50 | GR71C-6DN.H5.1R | 900 | 879 |
| 7.50 | GR71C-4DN.H5.1R | 900 | 879 |
| 11.00 | GR71C-4DN.I5.1R | 972 | 951 |
| 15.00 | GR71C-4DN.K5.1R | 1027 | 1006 |
| 18.50 | GR71C-4DN.L5.1R | 1057 | 1036 |

# Plug fan, ventilation unit

## ER80C, GR80C

Motor IE2

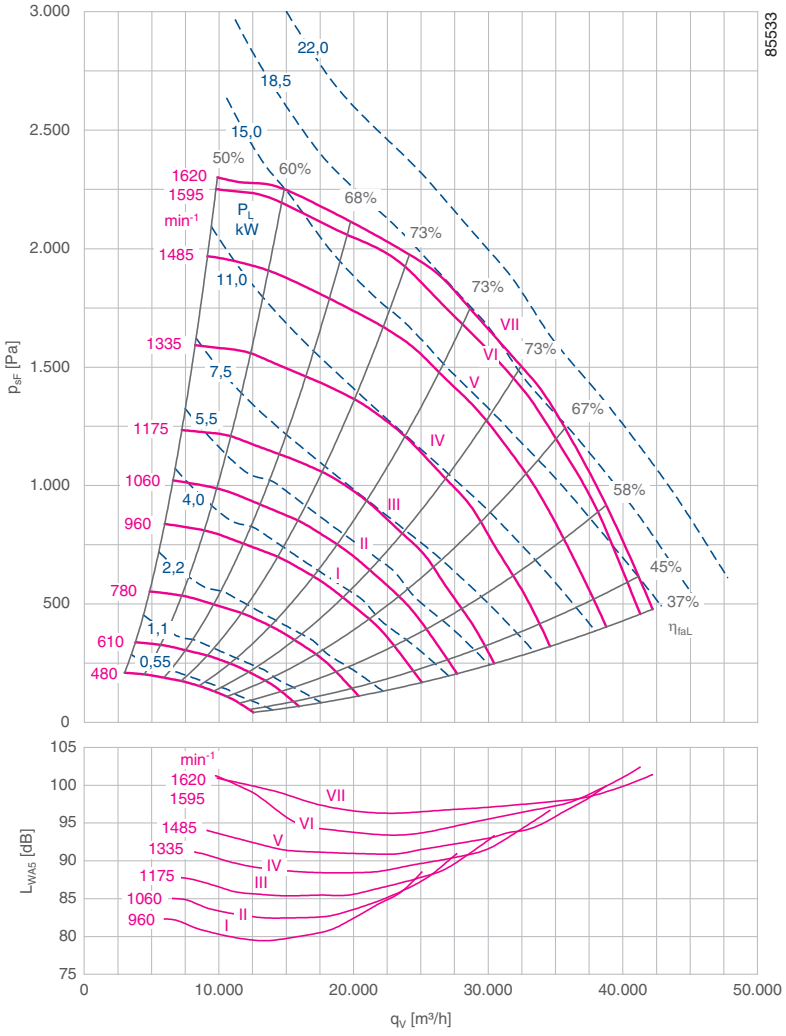


### Description

- 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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


Fan curve RH..C




### Technical data

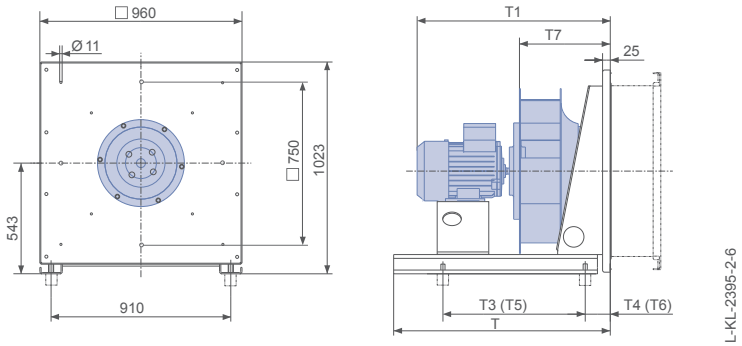
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min⁻¹ | Rated current $I_N$ A | Max. speed $n_{max}$ min⁻¹ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 4.00 | ER80C-6DN.H7.1R | 132M | I | 960 | 8.10 | 960 | 50 |
| 5.50 | ER80C-6DN.H7.1R | 132M | II | 960 | 11.80 | 1060 | 55 |
| 7.50 | ER80C-6DN.I7.1R | 160M | III | 970 | 15.80 | 1175 | 61 |
| 11.00 | ER80C-6DN.K7.1R | 160L | IV | 970 | 22.60 | 1335 | 69 |
| 15.00 | ER80C-4DN.K7.1R | 160L | V | 1460 | 27.70 | 1485 | 51 |
| 18.50 | ER80C-4DN.L7.1R | 180M | VI | 1470 | 33.60 | 1595 | 54 |
| 22.00 | ER80C-4DN.M7.1R | 180L | VII | 1470 | 39.80 | 1620 | 55 |

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

| Basic version ER | | | | Basic version GR | | | |
|---|---|---|---|---|---|---|---|
| Rated power | | | | | Installation position Vu | Installation position Vo | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 4.00 | **ER80C-6DN.H7.1R** | **130545/0F01** | 173 | **GR80C-6DN.H5.1R** | **113817/U01** | **113817/O01** | 198 |
| 5.50 | **ER80C-6DN.H7.1R** | **130546/0F01** | 182 | **GR80C-6DN.H5.1R** | **113818/U01** | **113818/O01** | 207 |
| 7.50 | **ER80C-6DN.I7.1R** | **130547/0F01** | 263 | **GR80C-6DN.I5.1R** | **113819/U01** | **113819/O01** | 284 |
| 11.00 | **ER80C-6DN.K7.1R** | **130548/0F01** | 277 | **GR80C-6DN.K5.1R** | **113820/U01** | **113820/O01** | 298 |
| 15.00 | **ER80C-4DN.K7.1R** | **130549/0F01** | 263 | **GR80C-4DN.K5.1R** | **113821/U01** | **113821/O01** | 284 |
| 18.50 | **ER80C-4DN.L7.1R** | **130550/0F01** | 300 | **GR80C-4DN.L5.1R** | **113822/U01** | **113822/O01** | 319 |
| 22.00 | **ER80C-4DN.M7.1R** | **130551/0F01** | 314 | **GR80C-4DN.M5.1R** | **113823/U01** | **113823/O01** | 333 |

## Dimensions in mm

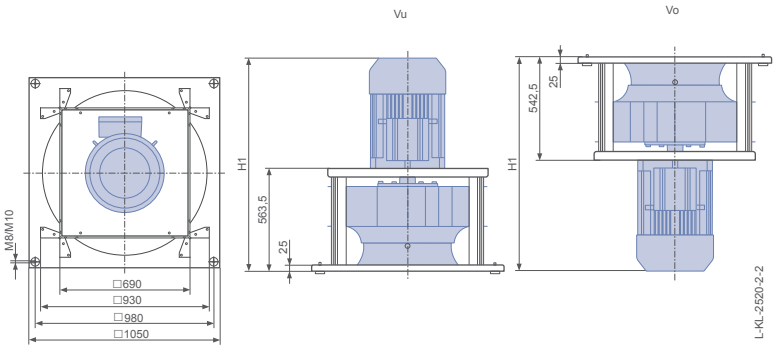
Plug fan ER in installation position H




| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 4.00 | ER80C-6DN.H7.1R | 885 | 956 | 738 | 92 | 708 | 92 | 487 | SD 4 | 40x40 / 40 |
| 5.50 | ER80C-6DN.H7.1R | 885 | 956 | 752 | 98 | 742 | 88 | 487 | SD 4 | 40x40 / 40 |
| 7.50 | ER80C-6DN.I7.1R | 1045 | 1028 | 882 | 128 | 766 | 174 | 487 | SD 4 | 50x50 / 55 |
| 11.00 | ER80C-6DN.K7.1R | 1045 | 1083 | 842 | 168 | 846 | 154 | 487 | SD 4 | 50x50 / 55 |
| 15.00 | ER80C-4DN.K7.1R | 1045 | 1083 | 860 | 150 | 784 | 176 | 487 | SD 5 | 50x50 / 55 |
| 18.50 | ER80C-4DN.L7.1R | 1045 | 1153 | 804 | 206 | 826 | 184 | 487 | SD 5 | 50x50 / 55 |
| 22.00 | ER80C-4DN.M7.1R | 1045 | 1153 | 768 | 242 | 790 | 220 | 487 | SD 5 | 50x50 / 55 |

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

Ventilation unit GR in installation position Vu/Vo

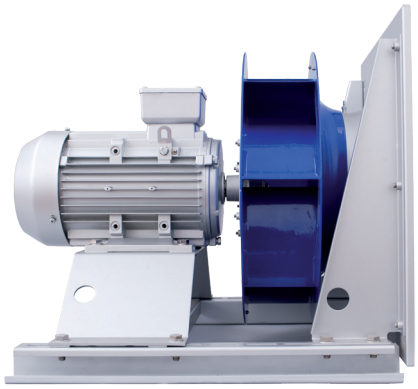



| Rated power<br>$P_N$<br>kW | Type | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|
| 4.00 | GR80C-6DN.H5.1R | 952 | 931 |
| 5.50 | GR80C-6DN.H5.1R | 952 | 931 |
| 7.50 | GR80C-6DN.I5.1R | 1024 | 1003 |
| 11.00 | GR80C-6DN.K5.1R | 1079 | 1058 |
| 15.00 | GR80C-4DN.K5.1R | 1079 | 1058 |
| 18.50 | GR80C-4DN.L5.1R | 1109 | 1088 |
| 22.00 | GR80C-4DN.M5.1R | 1149 | 1128 |

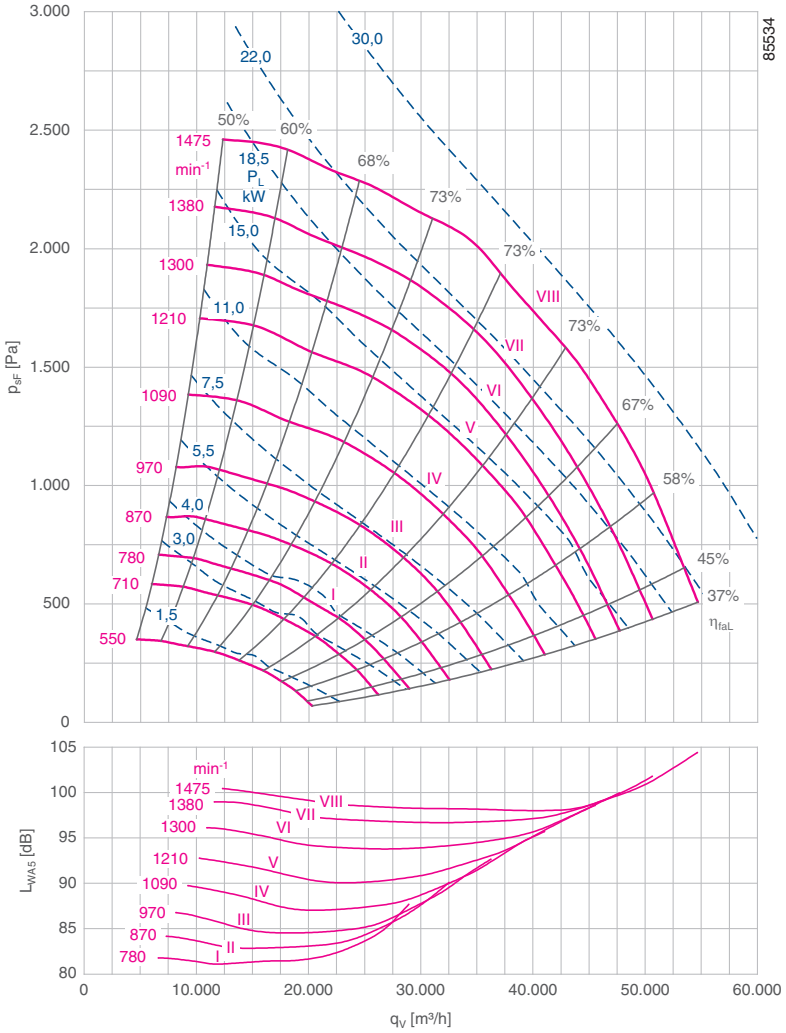
# Plug fan, ventilation unit

## ER90C, GR90C

Motor IE2



### Fan curve RH..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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


### Technical data

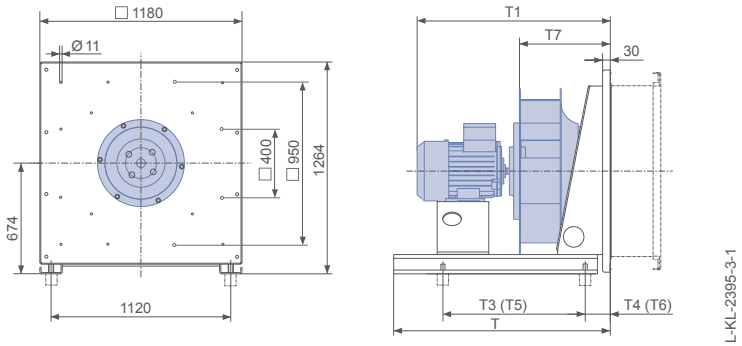
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 4.00 | ER90C-8DN.I7.1R | 160M | I | 720 | 9.37 | 780 | 54 |
| 5.50 | ER90C-8DN.I7.1R | 160M | II | 720 | 12.50 | 870 | 60 |
| 7.50 | ER90C-6DN.I7.1R | 160M | III | 970 | 15.80 | 970 | 50 |
| 11.00 | ER90C-6DN.K7.1R | 160L | IV | 970 | 22.60 | 1090 | 56 |
| 15.00 | ER90C-6DN.M7.1R | 180L | V | 970 | 29.30 | 1210 | 62 |
| 18.50 | ER90C-6DN.N7.1R | 200L | VI | 970 | 35.90 | 1300 | 67 |
| 22.00 | ER90C-6DN.N7.1R | 200L | VII | 970 | 41.50 | 1380 | 71 |
| 30.00 | ER90C-4DN.N7.1R | 200L | VIII | 1480 | 54.00 | 1475 | 50 |

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

| Basic version ER | | | | Basic version GR | | | |
|---|---|---|---|---|---|---|---|
| Rated power $P_N$ kW | Type ER..C | Article no. ER..C | kg max. | Type GR..C | Installation position Vu Article no. GR..C | Installation position Vo Article no. GR..C | kg max. |
| 4.00 | ER90C-8DN.I7.1R | 130537/0F01 | 324 | GR90C-8DN.I5.1R | 113824/U01 | 113824/O01 | 340 |
| 5.50 | ER90C-8DN.I7.1R | 130538/0F01 | 346 | GR90C-8DN.I5.1R | 113825/U01 | 113825/O01 | 362 |
| 7.50 | ER90C-6DN.I7.1R | 130539/0F01 | 326 | GR90C-6DN.I5.1R | 113826/U01 | 113826/O01 | 342 |
| 11.00 | ER90C-6DN.K7.1R | 130540/0F01 | 340 | GR90C-6DN.K5.1R | 113827/U01 | 113827/O01 | 356 |
| 15.00 | ER90C-6DN.M7.1R | 130541/0F01 | 378 | GR90C-6DN.M5.1R | 113828/U01 | 113828/O01 | 390 |
| 18.50 | ER90C-6DN.N7.1R | 130542/0F01 | 416 | GR90C-6DN.N5.1R | 113829/U01 | 113829/O01 | 425 |
| 22.00 | ER90C-6DN.N7.1R | 130543/0F01 | 430 | GR90C-6DN.N5.1R | 113830/U01 | 113830/O01 | 439 |
| 30.00 | ER90C-4DN.N7.1R | 130544/0F01 | 447 | GR90C-4DN.N5.1R | 113831/U01 | 113831/O01 | 456 |

## Dimensions in mm

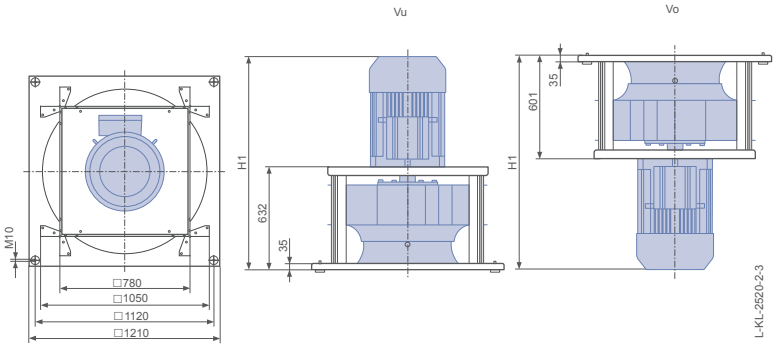
Plug fan ER in installation position H




| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 4.00 | ER90C-8DN.I7.1R | 1160 | 1091 | 1026 | 74 | 760 | 190 | 551 | SD 4 | 75x50 / 40 |
| 5.50 | ER90C-8DN.I7.1R | 1160 | 1091 | 1000 | 100 | 780 | 195 | 551 | SD 4 | 75x50 / 40 |
| 7.50 | ER90C-6DN.I7.1R | 1160 | 1091 | 1024 | 76 | 806 | 169 | 551 | SD 5 | 75x50 / 40 |
| 11.00 | ER90C-6DN.K7.1R | 1160 | 1146 | 988 | 112 | 870 | 155 | 551 | SD 5 | 75x50 / 40 |
| 15.00 | ER90C-6DN.M7.1R | 1320 | 1216 | 1112 | 88 | 1012 | 123 | 551 | SD 5 | 75x50 / 40 |
| 18.50 | ER90C-6DN.N7.1R | 1320 | 1255 | 1202 | 78 | 1050 | 140 | 551 | SD 6 | 75x50 / 40 |
| 22.00 | ER90C-6DN.N7.1R | 1320 | 1255 | 1182 | 95 | 1104 | 119 | 551 | SD 6 | 75x50 / 40 |
| 30.00 | ER90C-4DN.N7.1R | 1320 | 1255 | 1168 | 109 | 1088 | 135 | 551 | SD 6 | 75x50 / 40 |

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

Ventilation unit GR in installation position Vu/Vo

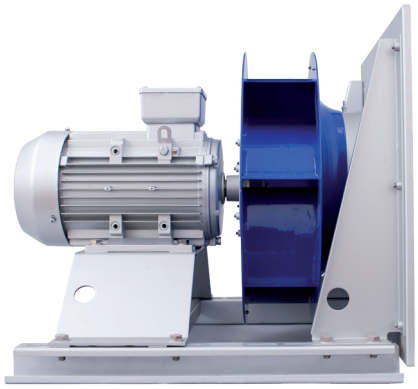



| Rated power<br>$P_N$<br>kW | Type | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|
| 4.00 | GR90C-8DN.I5.1R | 1097 | 1066 |
| 5.50 | GR90C-8DN.I5.1R | 1097 | 1066 |
| 7.50 | GR90C-6DN.I5.1R | 1097 | 1066 |
| 11.00 | GR90C-6DN.K5.1R | 1152 | 1121 |
| 15.00 | GR90C-6DN.M5.1R | 1222 | 1191 |
| 18.50 | GR90C-6DN.N5.1R | 1261 | 1230 |
| 22.00 | GR90C-6DN.N5.1R | 1261 | 1230 |
| 30.00 | GR90C-4DN.N5.1R | 1261 | 1230 |

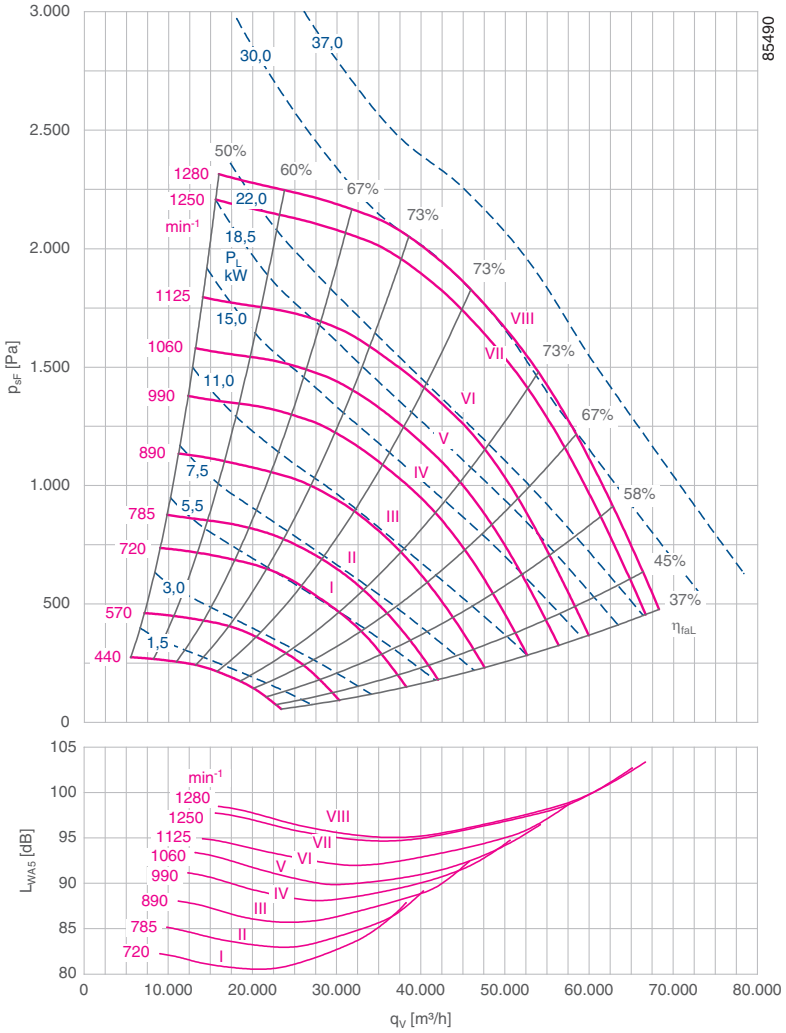
# Plug fan, ventilation unit

## ER10C, GR10C

Motor IE2



Fan curve RH..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


| | |
|---|---|
| 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 | Page 92 |
| Sensors | Page 96 |


## Technical data

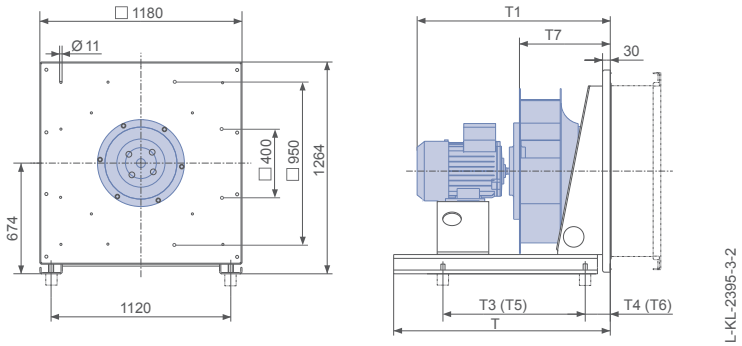
| Rated power $P_N$ kW | Type ER / GR* | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 5.50 | ER10C-8DN.I7.1R | 160M | I | 720 | 12.50 | 720 | 50 |
| 7.50 | ER10C-8DN.K7.1R | 160L | II | 720 | 16.50 | 785 | 55 |
| 11.00 | ER10C-8DN.M7.1R | 180L | III | 720 | 23.50 | 890 | 62 |
| 15.00 | ER10C-6DN.M7.1R | 180L | IV | 970 | 29.30 | 990 | 51 |
| 18.50 | ER10C-6DN.N7.1R | 200L | V | 970 | 35.90 | 1060 | 55 |
| 22.00 | ER10C-6DN.N7.1R | 200L | VI | 970 | 41.50 | 1125 | 58 |
| 30.00 | ER10C-6DN.R7.1R | 225M | VII | 980 | 55.70 | 1250 | 64 |
| 37.00 | ER10C-6DN.S7.1R | 250M | VIII | 980 | 66.60 | 1280 | 65 |

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

| Basic version ER | | | | Basic version GR | | | |
|---|---|---|---|---|---|---|---|
| Rated power | | | | Installation position Vu | Installation position Vo | | |
| $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. | **Type GR..C** | **Article no. GR..C** | **Article no. GR..C** | kg max. |
| 5.50 | **ER10C-8DN.I7.1R** | **130528/0F01** | 389 | **GR10C-8DN.I5.1R** | **113832/U01** | **113832/O01** | 429 |
| 7.50 | **ER10C-8DN.K7.1R** | **130529/0F01** | 394 | **GR10C-8DN.K5.1R** | **113833/U01** | **113833/O01** | 434 |
| 11.00 | **ER10C-8DN.M7.1R** | **130530/0F01** | 410 | **GR10C-8DN.M5.1R** | **113834/U01** | **113834/O01** | 447 |
| 15.00 | **ER10C-6DN.M7.1R** | **130531/0F01** | 420 | **GR10C-6DN.M5.1R** | **113835/U01** | **113835/O01** | 457 |
| 18.50 | **ER10C-6DN.N7.1R** | **130532/0F01** | 459 | **GR10C-6DN.N5.1R** | **113836/U01** | **113836/O01** | 492 |
| 22.00 | **ER10C-6DN.N7.1R** | **130533/0F01** | 473 | **GR10C-6DN.N5.1R** | **113837/U01** | **113837/O01** | 506 |
| 30.00 | **ER10C-6DN.R7.1R** | **130534/0F01** | 534 | **GR10C-6DN.R5.1R** | **113838/U01** | **113838/O01** | 568 |
| 37.00 | **ER10C-6DN.S7.1R** | **130535/0F01** | 621 | **GR10C-6DN.S5.1R** | **113839/U01** | **113839/O01** | 648 |

## Dimensions in mm

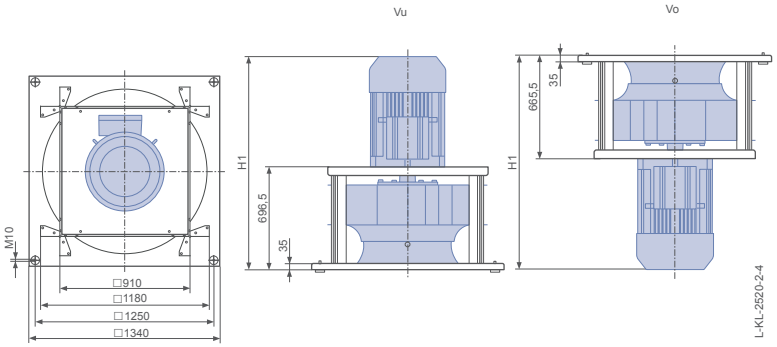
Plug fan ER in installation position H




| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 5.50 | ER10C-8DN.I7.1R | 1160 | 1157 | 936 | 165 | 828 | 202 | 616 | SD 4 | 75x50 / 40 |
| 7.50 | ER10C-8DN.K7.1R | 1160 | 1212 | 960 | 165 | 884 | 186 | 616 | SD 5 | 75x50 / 40 |
| 11.00 | ER10C-8DN.M7.1R | 1320 | 1282 | 1134 | 87 | 1104 | 86 | 616 | SD 5 | 75x50 / 40 |
| 15.00 | ER10C-6DN.M7.1R | 1320 | 1282 | 1092 | 129 | 1062 | 128 | 616 | SD 5 | 75x50 / 40 |
| 18.50 | ER10C-6DN.N7.1R | 1320 | 1321 | 1152 | 133 | 1096 | 146 | 616 | SD 6 | 75x50 / 40 |
| 22.00 | ER10C-6DN.N7.1R | 1320 | 1321 | 1138 | 147 | 1160 | 121 | 616 | SD 6 | 75x50 / 40 |
| 30.00 | ER10C-6DN.R7.1R | 1320 | 1357 | 1062 | 223 | 1090 | 195 | 616 | SD 6 | 75x50 / 40 |
| 37.00 | ER10C-6DN.S7.1R | 1320 | 1427 | 954 | 331 | 980 | 305 | 616 | SD 7 | 75x50 / 40 |

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

Ventilation unit GR in installation position Vu/Vo

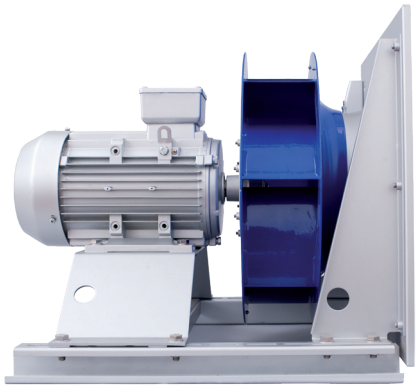



| Rated power<br>$P_N$<br>kW | Type | Installation position Vu<br>H1<br>mm | Installation position Vo<br>H1<br>mm |
|---|---|---|---|
| 5.50 | GR10C-8DN.I5.1R | 1162 | 1131 |
| 7.50 | GR10C-8DN.K5.1R | 1217 | 1186 |
| 11.00 | GR10C-8DN.M5.1R | 1287 | 1256 |
| 15.00 | GR10C-6DN.M5.1R | 1287 | 1256 |
| 18.50 | GR10C-6DN.N5.1R | 1326 | 1295 |
| 22.00 | GR10C-6DN.N5.1R | 1326 | 1295 |
| 30.00 | GR10C-6DN.R5.1R | 1362 | 1331 |
| 37.00 | GR10C-6DN.S5.1R | 1432 | 1401 |

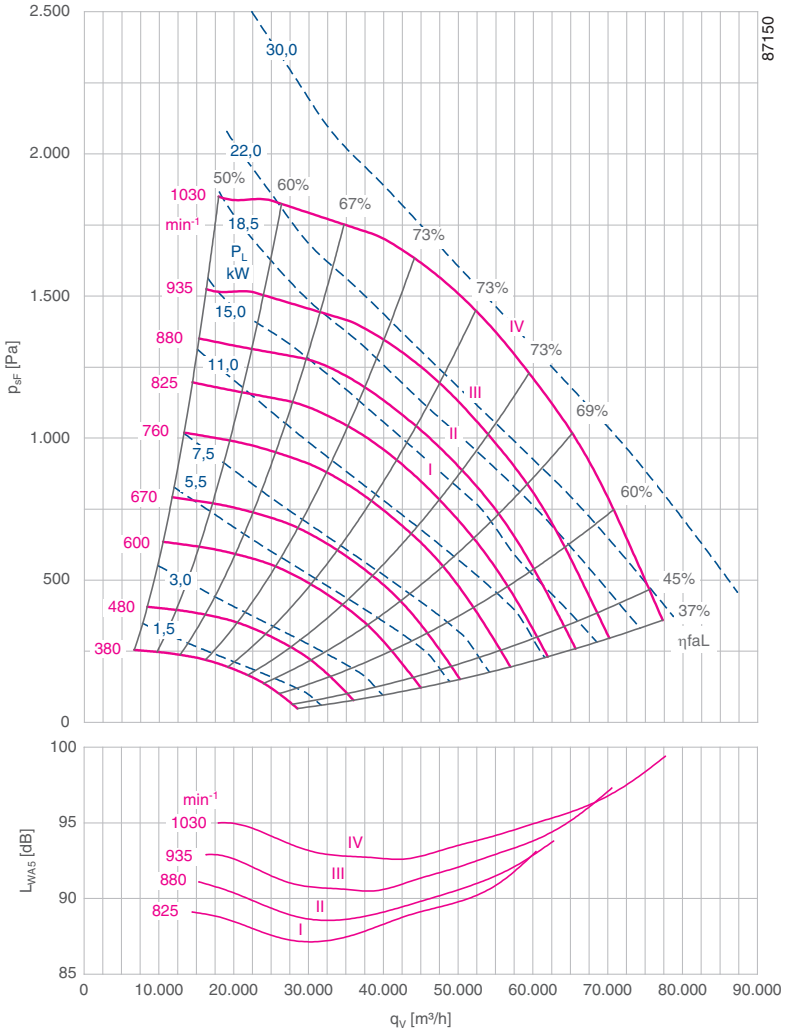
# Plug fan

## ER11C.4R

Motor IE2



### Fan curve RH..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


| | |
|---|---|
| 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 |


### Technical data

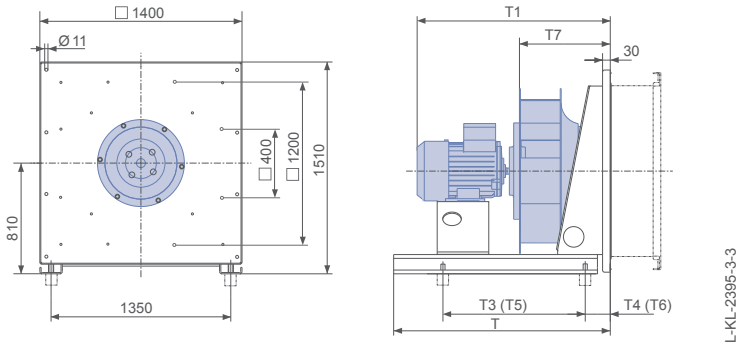
| Rated power $P_N$ kW | Type ER | Motor size | Fan curve no. | Rated speed $n_N$ min$^{-1}$ | Rated current $I_N$ A | Max. speed $n_{max}$ min$^{-1}$ | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 15.00 | ER11C-8DN.N7.4R | 220L | I | 730 | 31.60 | 825 | 57 |
| 18.50 | ER11C-8DN.P7.4R | 225S | II | 730 | 38.70 | 880 | 60 |
| 22.00 | ER11C-8DN.R7.4R | 225M | III | 730 | 44.50 | 935 | 64 |
| 30.00 | ER11C-6DN.R7.4R | 225M | IV | 980 | 55.70 | 1030 | 72 |

**Basic version ER**

| Rated power $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. |
|---|---|---|---|
| 15.00 | **ER11C-8DN.N7.4R** | **114326/0F01** | 581 |
| 18.50 | **ER11C-8DN.P7.4R** | **114327/0F01** | 622 |
| 22.00 | **ER11C-8DN.R7.4R** | **114328/0F01** | 644 |
| 30.00 | **ER11C-6DN.R7.4R** | **114329/0F01** | 642 |

## Dimensions in mm

Plug fan ER in installation position H



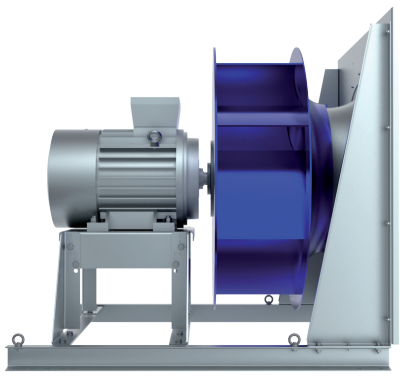

| Rated power<br>$P_N$<br>kW | Type | T<br>mm | T1<br>mm | T3<br>mm | T4<br>mm | T5<br>mm | T6<br>mm | T7<br>mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|
| 15.00 | ER11C-8DN.N7.4R | 1380 | 1398 | 1210 | 130 | 1210 | 130 | 683 | SD 6 | 75x50 / 40 |
| 18.50 | ER11C-8DN.P7.4R | 1380 | 1404 | 1210 | 130 | 1210 | 130 | 683 | SD 6 | 75x50 / 40 |
| 22.00 | ER11C-8DN.R7.4R | 1380 | 1434 | 1210 | 130 | 1210 | 130 | 683 | SD 6 | 75x50 / 40 |
| 30.00 | ER11C-6DN.R7.4R | 1380 | 1434 | 1210 | 130 | 1210 | 130 | 683 | SD 7 | 75x50 / 40 |

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

# Plug fan

## ER11C.1R

Motor IE2

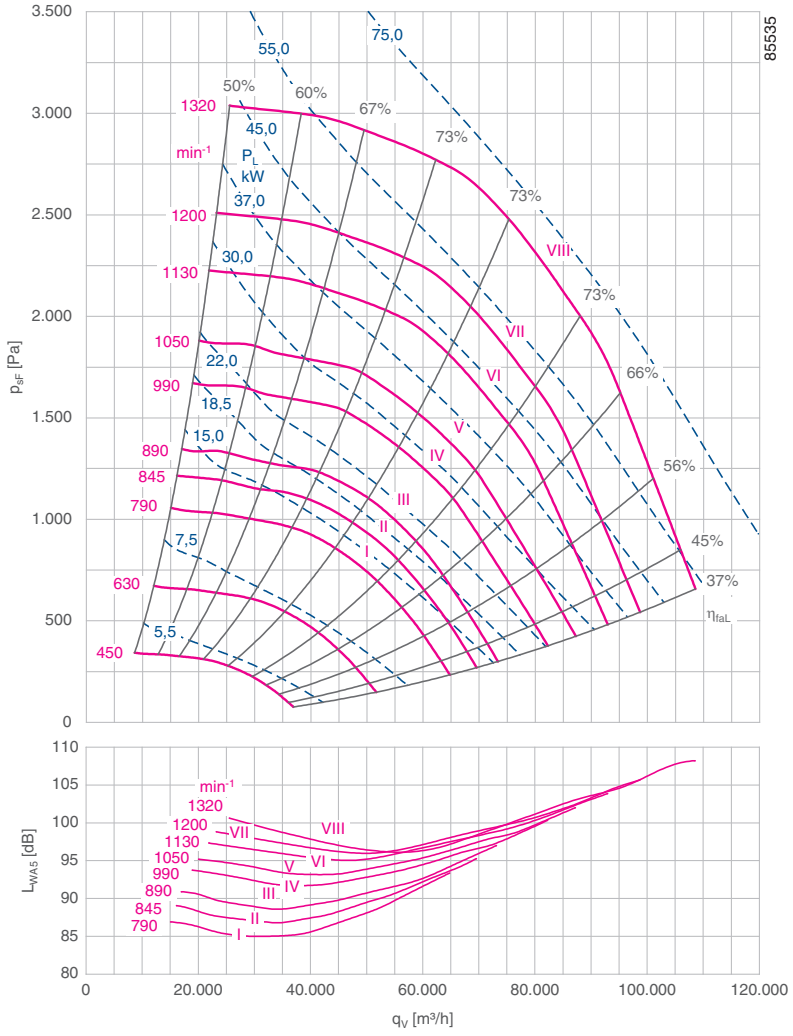


### Description

- 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


| | |
|---|---|
| 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 |


### Fan curve RH..C




### Technical data

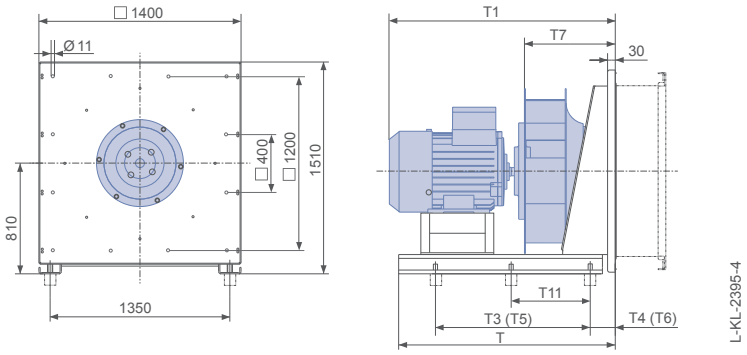
| Rated power $P_N$ kW | Type ER | Motor size | Fan curve no. | Rated speed $n_N$ min-1 | Rated current $I_N$ A | Max. speed $n_{max}$ min-1 | Max. frequency $f_{max}$ Hz |
|---|---|---|---|---|---|---|---|
| 15.00 | ER11C-8DN.N7.1R | 200L | I | 730 | 31.60 | 790 | 54 |
| 18.50 | ER11C-8DN.P7.1R | 225S | II | 730 | 38.70 | 845 | 58 |
| 22.00 | ER11C-8DN.R7.1R | 225M | III | 730 | 44.50 | 890 | 61 |
| 30.00 | ER11C-6DN.R7.1R | 225M | IV | 980 | 55.70 | 990 | 51 |
| 37.00 | ER11C-6DN.S7.1R | 250M | V | 980 | 66.60 | 1050 | 54 |
| 45.00 | ER11C-6DN.T7.1R | 280S | VI | 980 | 80.60 | 1130 | 58 |
| 55.00 | ER11C-6DN.U7.1R | 280M | VII | 980 | 98.20 | 1200 | 61 |
| 75.00 | ER11C-6DN.W7.1R | 315S | VIII | 980 | 133.00 | 1320 | 67 |

**Basic version ER**

| Rated power $P_N$ kW | **Type ER..C** | **Article no. ER..C** | kg max. |
|---|---|---|---|
| 15.00 | **ER11C-8DN.N7.1R** | **112463/0F01** | 675 |
| 18.50 | **ER11C-8DN.P7.1R** | **112464/0F01** | 717 |
| 22.00 | **ER11C-8DN.R7.1R** | **112465/0F01** | 739 |
| 30.00 | **ER11C-6DN.R7.1R** | **112466/0F01** | 737 |
| 37.00 | **ER11C-6DN.S7.1R** | **112467/0F01** | 821 |
| 45.00 | **ER11C-6DN.T7.1R** | **112468/0F01** | 939 |
| 55.00 | **ER11C-6DN.U7.1R** | **113408/0F01** | 981 |
| 75.00 | **ER11C-6DN.W7.1R** | **113405/0F01** | 1467 |

## Dimensions in mm

Plug fan ER in installation position H




| Rated power $P_N$ kW | Type | T mm | T1 mm | T3 mm | T4 mm | T5 mm | T6 mm | T7 mm | T11 mm | Spring vibration damper | Rubber dampers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15.00 | ER11C-8DN.N7.1R | 1630 | 1475 | 1385 | 70 | 1385 | 70 | 760 | | SD 6 | 75x50 / 40 |
| 18.50 | ER11C-8DN.P7.1R | 1630 | 1481 | 1450 | 70 | 1385 | 70 | 760 | | SD 6 | 75x50 / 40 |
| 22.00 | ER11C-8DN.R7.1R | 1630 | 1511 | 1450 | 70 | 1450 | 70 | 760 | | SD 6 | 75x50 / 40 |
| 30.00 | ER11C-6DN.R7.1R | 1630 | 1511 | 1450 | 70 | 1450 | 70 | 760 | | SD 7 | 75x50 / 40 |
| 37.00 | ER11C-6DN.S7.1R | 1630 | 1581 | 1520 | 70 | 1520 | 70 | 760 | | SD 7 | 75x50 / 40 |
| 45.00 | ER11C-6DN.T7.1R | 1630 | 1651 | 1430 | 160 | 1430 | 160 | 760 | | SD 8 | 75x50 / 55 |
| 55.00 | ER11C-6DN.U7.1R | 1630 | 1701 | 1430 | 160 | 1430 | 160 | 760 | | SD 8 | 75x50 / 55 |
| 75.00 | ER11C-6DN.W7.1R | 1795 | 1860 | 1460 | 276 | 1460 | 276 | 760 | 730 | SD 8* | 100x75 / 40* |

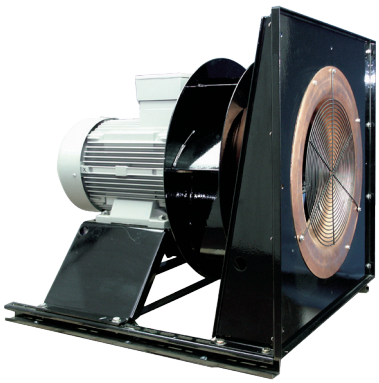
T5 and T6 apply to attachment of Ziehl-Abegg intake flanges.

* 6 dampers required

# Plug fan ER..C

## Explosion protected design

RH..C in Ex-versions



ER..C in Ex-versions

### 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).

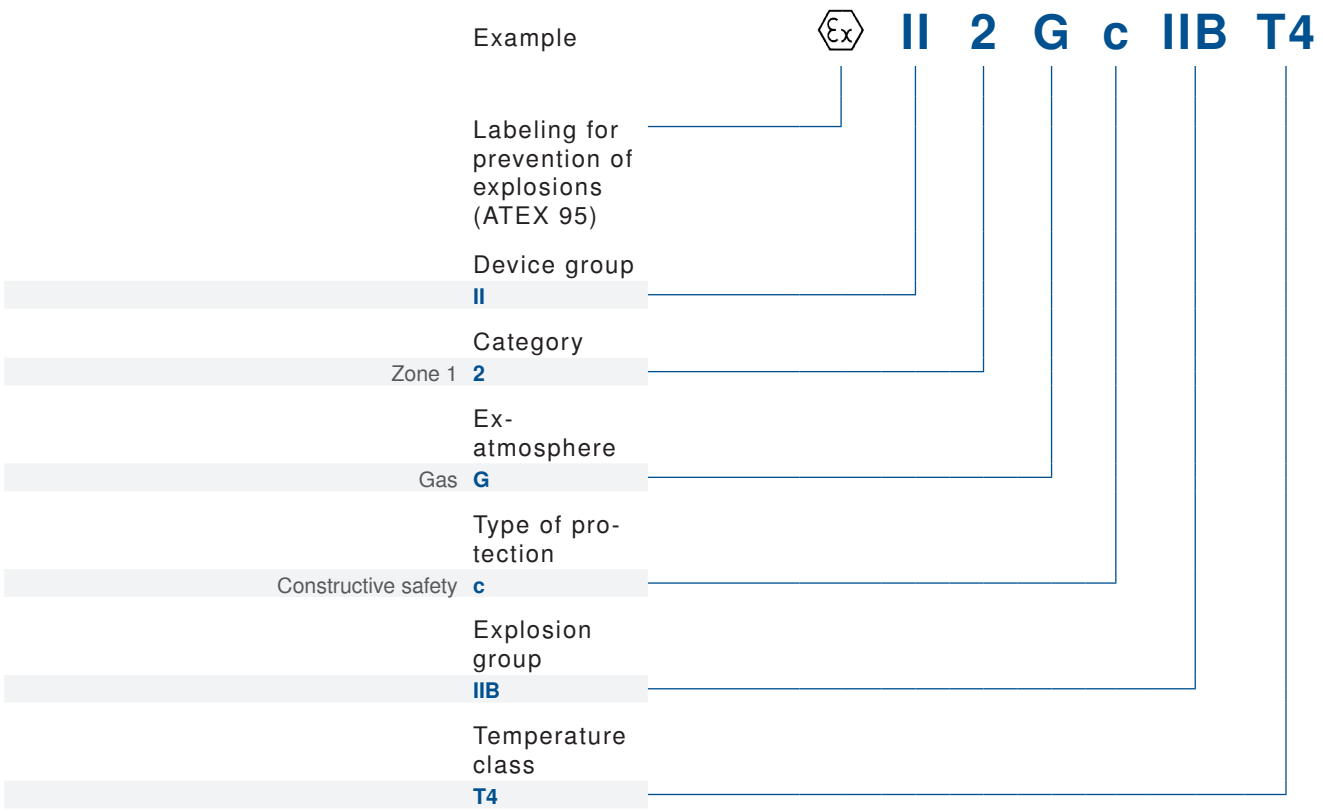
### Suitable system components


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


- Measuring device for determining air volume — Page 19
- Rubber or spring dampers — Page 109
- Description of high-performance impeller — Page 20
- Standard version — Page 28
- Frequency inverter Icontrol — Page 92

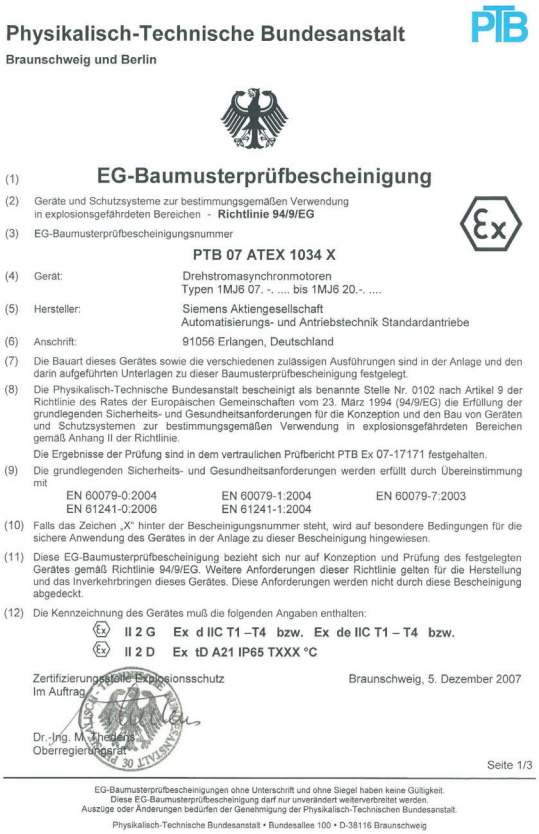
# Plug fans / centrifugal impellers

## Fan labeling




**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.



Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

PTB

**EG-Baumusterprüfbescheinigung**

(1)
(2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen - **Richtlinie 94/9/EG**
(3) EG-Baumusterprüfbescheinigungsnummer
**PTB 07 ATEX 1034 X**
(4) Gerät: Drehstromasynchronmotoren Typen 1MJ6 07. -. .... bis 1MJ6 20.-. ....
(5) Hersteller: Siemens Aktiengesellschaft Automatisierungs- und Antriebstechnik Standardantriebe
(6) Anschrift: 91056 Erlangen, Deutschland
(7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage und den darin aufgeführten Unterlagen zu dieser Baumusterprüfbescheinigung festgelegt.
(8) Die Physikalisch-Technische Bundesanstalt bescheinigt als benannte Stelle Nr. 0102 nach Artikel 9 der Richtlinie des Rates der Europäischen Gemeinschaften vom 23. März 1994 (94/9/EG) die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie.
Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfbericht PTB Ex 07-17171 festgehalten.
(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit
EN 60079-0:2004 EN 60079-1:2004 EN 60079-7:2003
EN 61241-0:2006 EN 61241-1:2004
(10) Falls das Zeichen „X" hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Gerätes in der Anlage zu dieser Bescheinigung hingewiesen.
(11) Diese EG-Baumusterprüfbescheinigung bezieht sich nur auf Konzeption und Prüfung des festgelegten Gerätes gemäß Richtlinie 94/9/EG. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Inverkehrbringen dieses Gerätes. Diese Anforderungen werden nicht durch diese Bescheinigung abgedeckt.
(12) Die Kennzeichnung des Gerätes muß die folgenden Angaben enthalten:
II 2 G Ex d IIC T1 –T4 bzw. Ex de IIC T1 – T4 bzw.
II 2 D Ex tD A21 IP65 TXXX °C

Zertifizierungsstelle Explosionsschutz
Im Auftrag
Dr.-Ing. M. Theders
Oberregierungsrat

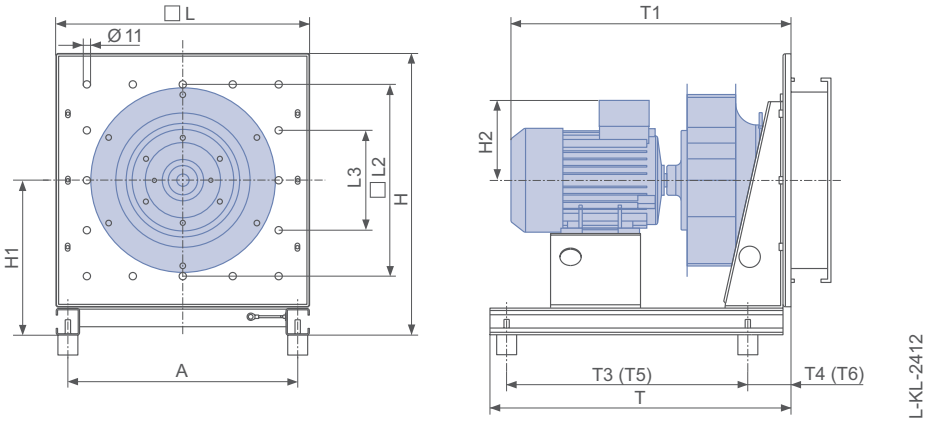
Braunschweig, 5. Dezember 2007

Seite 1/3

EG-Baumusterprüfbescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit.
Diese EG-Baumusterprüfbescheinigung darf nur unverändert weiterverbreitet werden.
Auszüge oder Änderungen bedürfen der Genehmigung der Physikalisch-Technischen Bundesanstalt.
Physikalisch-Technische Bundesanstalt • Bundesallee 100 • D-38116 Braunschweig

# Plug fan ER..C

## Dimensions of explosion-proof design with Siemens standard motor for use in hazardous areas




| Plug fan ER..C | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Article no.** | kg | $P_N$ | Dimensions | | | | | | | | | | | | |
| | | | | A | H | H1 | H2 | L | L2 | L3 | T | T1 | T3 | T4 | T5 | T6 |
| | | | kW | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| **ER25C-2DY.B7.1R** | **130609/E01** | 34 | 0.75 | 345 | 422 | 232 | 209 | 380 | 288 | - | 452 | 483 | 372 | 60 | 396 | 36 |
| **ER25C-2DY.B7.1R** | **130610/E01** | 35 | 1.10 | 345 | 422 | 232 | 209 | 380 | 288 | - | 452 | 483 | 330 | 84 | 392 | 40 |
| **ER25C-2DY.D7.1R** | **130611/E01** | 41 | 1.50 | 345 | 422 | 232 | 218 | 380 | 288 | - | 452 | 520 | 326 | 106 | 348 | 84 |
| **ER25C-2DY.D7.1R** | **130612/E01** | 44 | 2.20 | 345 | 422 | 232 | 218 | 380 | 288 | - | 452 | 520 | 320 | 112 | 342 | 90 |
| **ER28C-2DY.B7.1R** | **130604/E01** | 37 | 0.75 | 410 | 503 | 278 | 209 | 450 | 350 | - | 562 | 499 | 432 | 35 | 394 | 41 |
| **ER28C-2DY.B7.1R** | **130605/E01** | 39 | 1.10 | 410 | 503 | 278 | 209 | 450 | 350 | - | 562 | 499 | 438 | 35 | 388 | 47 |
| **ER28C-2DY.D7.1R** | **130606/E01** | 45 | 1.50 | 410 | 503 | 278 | 218 | 450 | 350 | - | 562 | 536 | 480 | 35 | 448 | 39 |
| **ER28C-2DY.D7.1R** | **130607/E01** | 48 | 2.20 | 410 | 503 | 278 | 218 | 450 | 350 | - | 562 | 536 | 486 | 35 | 440 | 47 |
| **ER28C-2DY.E7.1R** | **130608/E01** | 59 | 3.00 | 410 | 503 | 278 | 223 | 450 | 350 | - | 562 | 569 | 486 | 54 | 504 | 36 |
| **ER31C-2DY.B7.1R** | **130599/E01** | 40 | 1.10 | 410 | 503 | 278 | 209 | 450 | 350 | - | 562 | 519 | 442 | 45 | 436 | 35 |
| **ER31C-2DY.D7.1R** | **130600/E01** | 47 | 1.50 | 410 | 503 | 278 | 218 | 450 | 350 | - | 562 | 556 | 504 | 35 | 482 | 35 |
| **ER31C-2DY.D7.1R** | **130601/E01** | 50 | 2.20 | 410 | 503 | 278 | 218 | 450 | 350 | - | 562 | 556 | 498 | 42 | 490 | 35 |
| **ER31C-2DY.E7.1R** | **130602/E01** | 60 | 3.00 | 410 | 503 | 278 | 223 | 450 | 350 | - | 562 | 589 | 448 | 87 | 472 | 65 |
| **ER31C-2DY.F7.1R** | **130603/E01** | 73 | 4.00 | 410 | 503 | 278 | 238 | 450 | 350 | - | 562 | 591 | 428 | 112 | 446 | 94 |
| **ER35C-4DY.D7.1R** | **130595/E01** | 55 | 1.50 | 560 | 653 | 353 | 218 | 600 | 480 | - | 562 | 578 | 500 | 40 | 484 | 35 |
| **ER35C-2DY.D7.1R** | **130596/E01** | 55 | 2.20 | 560 | 653 | 353 | 218 | 600 | 480 | - | 562 | 578 | 500 | 40 | 484 | 35 |
| **ER35C-2DY.E7.1R** | **130597/E01** | 66 | 3.00 | 560 | 653 | 353 | 223 | 600 | 480 | - | 562 | 611 | 454 | 86 | 476 | 64 |
| **ER35C-2DY.F7.1R** | **130598/E01** | 79 | 4.00 | 560 | 653 | 353 | 238 | 600 | 480 | - | 562 | 613 | 420 | 120 | 440 | 100 |
| **ER40C-4DY.D7.1R** | **130589/E01** | 55 | 1.10 | 560 | 653 | 353 | 218 | 600 | 480 | - | 562 | 604 | 484 | 56 | 498 | 35 |
| **ER40C-4DY.D7.1R** | **130590/E01** | 58 | 1.50 | 560 | 653 | 353 | 218 | 600 | 480 | - | 562 | 604 | 474 | 66 | 500 | 40 |
| **ER40C-4DY.E7.1R** | **130591/E01** | 69 | 2.20 | 560 | 653 | 353 | 223 | 600 | 480 | - | 562 | 637 | 426 | 114 | 448 | 92 |
| **ER40C-4DY.E7.1R** | **130592/E01** | 72 | 3.00 | 560 | 653 | 353 | 223 | 600 | 480 | - | 562 | 637 | 420 | 120 | 442 | 98 |
| **ER40C-2DY.F7.1R** | **130593/E01** | 82 | 4.00 | 560 | 653 | 353 | 238 | 600 | 480 | - | 712 | 639 | 588 | 53 | 604 | 35 |
| **ER40C-2DY.G7.1R** | **130594/E01** | 105 | 5.50 | 560 | 653 | 353 | 258 | 600 | 480 | - | 712 | 711 | 638 | 55 | 654 | 39 |
| **ER45C-4DY.D7.1R** | **130582/E01** | 59 | 1.10 | 560 | 653 | 353 | 218 | 600 | 480 | - | 562 | 638 | 442 | 98 | 440 | 86 |
| **ER45C-4DY.D7.1R** | **130583/E01** | 62 | 1.50 | 560 | 653 | 353 | 218 | 600 | 480 | - | 562 | 638 | 430 | 110 | 452 | 86 |
| **ER45C-4DY.E7.1R** | **130584/E01** | 73 | 2.20 | 560 | 653 | 353 | 223 | 600 | 480 | - | 562 | 671 | 390 | 150 | 388 | 139 |
| **ER45C-4DY.E7.1R** | **130585/E01** | 76 | 3.00 | 560 | 653 | 353 | 223 | 600 | 480 | - | 562 | 671 | 384 | 156 | 396 | 139 |
| **ER45C-4DY.F7.1R** | **130586/E01** | 88 | 4.00 | 560 | 653 | 353 | 238 | 600 | 480 | - | 712 | 673 | 652 | 41 | 644 | 35 |
| **ER45C-4DY.G7.1R** | **130587/E01** | 108 | 5.50 | 560 | 653 | 353 | 258 | 600 | 480 | - | 712 | 740 | 598 | 95 | 604 | 83 |
| **ER45C-2DY.G7.1R** | **130588/E01** | 114 | 7.50 | 560 | 653 | 353 | 258 | 600 | 480 | - | 712 | 740 | 552 | 135 | 580 | 113 |

## Plug fan ER..C

| Type | Article no. | | $P_N$ | Dimensions | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A | H | H1 | H2 | L | L2 | L3 | T | T1 | T3 | T4 | T5 | T6 |
| | | | kW | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| ER50C-4DY.D7.1R | 130575/E01 | 79 | 1.50 | 720 | 813 | 433 | 218 | 760 | 660 | - | 720 | 679 | 554 | 43 | 526 | 43 |
| ER50C-4DY.E7.1R | 130576/E01 | 90 | 2.20 | 720 | 813 | 433 | 223 | 760 | 660 | - | 720 | 712 | 602 | 43 | 576 | 43 |
| ER50C-4DY.E7.1R | 130577/E01 | 93 | 3.00 | 720 | 813 | 433 | 223 | 760 | 660 | - | 720 | 712 | 602 | 47 | 586 | 43 |
| ER50C-4DY.F7.1R | 130578/E01 | 103 | 4.00 | 720 | 813 | 433 | 238 | 760 | 660 | - | 720 | 714 | 646 | 43 | 588 | 61 |
| ER50C-4DY.G7.1R | 130579/E01 | 124 | 5.50 | 720 | 813 | 433 | 258 | 760 | 660 | - | 720 | 781 | 608 | 94 | 594 | 91 |
| ER50C-4DY.H7.1R | 130580/E01 | 133 | 7.50 | 720 | 813 | 433 | 258 | 760 | 660 | - | 720 | 781 | 548 | 143 | 590 | 112 |
| ER50C-4DY.I7.1R | 130581/E01 | 184 | 11.00 | 720 | 813 | 433 | 280 | 760 | 660 | - | 880 | 877 | 768 | 92 | 752 | 92 |
| | | | | | | | | | | | | | | | | |
| ER56C-6DY.E7.1R | 130568/E01 | 89 | 1.50 | 720 | 813 | 433 | 223 | 760 | 660 | - | 720 | 744 | 588 | 61 | 598 | 43 |
| ER56C-4DY.E7.1R | 130569/E01 | 94 | 2.20 | 720 | 813 | 433 | 223 | 760 | 660 | - | 720 | 744 | 640 | 43 | 598 | 51 |
| ER56C-4DY.E7.1R | 130570/E01 | 97 | 3.00 | 720 | 813 | 433 | 223 | 760 | 660 | - | 720 | 744 | 650 | 43 | 588 | 61 |
| ER56C-4DY.F7.1R | 130571/E01 | 108 | 4.00 | 720 | 813 | 433 | 238 | 760 | 660 | - | 720 | 746 | 632 | 70 | 654 | 48 |
| ER56C-4DY.G7.1R | 130572/E01 | 130 | 5.50 | 720 | 813 | 433 | 258 | 760 | 660 | - | 880 | 813 | 732 | 55 | 690 | 66 |
| ER56C-4DY.H7.1R | 130573/E01 | 139 | 7.50 | 720 | 813 | 433 | 258 | 760 | 660 | - | 880 | 813 | 736 | 72 | 750 | 55 |
| ER56C-4DY.I7.1R | 130574/E01 | 189 | 11.00 | 720 | 813 | 433 | 280 | 760 | 660 | - | 880 | 909 | 706 | 145 | 740 | 120 |
| | | | | | | | | | | | | | | | | |
| ER63C-6DY.E7.1R | 130560/E01 | 103 | 1.50 | 720 | 813 | 433 | 223 | 760 | 660 | - | 720 | 783 | 656 | 46 | 638 | 43 |
| ER63C-6DY.F7.1R | 130561/E01 | 116 | 2.20 | 720 | 813 | 433 | 238 | 760 | 660 | - | 720 | 785 | 610 | 92 | 632 | 70 |
| ER63C-6DY.G7.1R | 130562/E01 | 145 | 3.00 | 720 | 813 | 433 | 258 | 760 | 660 | - | 880 | 852 | 774 | 55 | 752 | 56 |
| ER63C-4DY.F7.1R | 130563/E01 | 122 | 4.00 | 720 | 813 | 433 | 238 | 760 | 660 | - | 720 | 785 | 594 | 108 | 606 | 91 |
| ER63C-4DY.G7.1R | 130564/E01 | 143 | 5.50 | 720 | 813 | 433 | 258 | 760 | 660 | - | 880 | 852 | 736 | 72 | 750 | 55 |
| ER63C-4DY.H7.1R | 130565/E01 | 152 | 7.50 | 720 | 813 | 433 | 258 | 760 | 660 | - | 880 | 852 | 698 | 110 | 788 | 55 |
| ER63C-4DY.I7.1R | 130566/E01 | 203 | 11.00 | 720 | 813 | 433 | 280 | 760 | 660 | - | 880 | 948 | 686 | 174 | 702 | 158 |
| ER63C-4DY.K7.1R | 130567/E01 | 233 | 15.00 | 720 | 813 | 433 | 314 | 760 | 660 | - | 880 | 948 | 592 | 250 | 642 | 218 |
| | | | | | | | | | | | | | | | | |
| ER71C-6DY.F7.1R | 130552/E01 | 146 | 2.20 | 910 | 1023 | 543 | 238 | 960 | 750 | - | 885 | 836 | 712 | 48 | 692 | 48 |
| ER71C-6DY.G7.1R | 130553/E01 | 175 | 3.00 | 910 | 1023 | 543 | 258 | 960 | 750 | - | 885 | 903 | 774 | 60 | 750 | 63 |
| ER71C-6DY.H7.1R | 130554/E01 | 182 | 4.00 | 910 | 1023 | 543 | 258 | 960 | 750 | - | 885 | 903 | 806 | 60 | 788 | 60 |
| ER71C-6DY.H7.1R | 130555/E01 | 189 | 5.50 | 910 | 1023 | 543 | 258 | 960 | 750 | - | 885 | 903 | 790 | 75 | 802 | 60 |
| ER71C-4DY.H7.1R | 130556/E01 | 182 | 7.50 | 910 | 1023 | 543 | 258 | 960 | 750 | - | 885 | 903 | 806 | 60 | 788 | 60 |
| ER71C-4DY.I7.1R | 130557/E01 | 234 | 11.00 | 910 | 1023 | 543 | 280 | 960 | 750 | - | 1045 | 999 | 936 | 60 | 900 | 70 |
| ER71C-4DY.K7.1R | 130558/E01 | 264 | 15.00 | 910 | 1023 | 543 | 314 | 960 | 750 | - | 1045 | 999 | 918 | 100 | 946 | 78 |
| ER71C-4DY.L7.1R | 130559/E01 | 282 | 18.50 | 910 | 1023 | 543 | 306 | 960 | 750 | - | 1045 | 1073 | 898 | 126 | 912 | 112 |
| | | | | | | | | | | | | | | | | |
| ER80C-6DY.H7.1R | 130545/E01 | 207 | 4.00 | 910 | 1023 | 543 | 258 | 960 | 750 | - | 885 | 955 | 766 | 100 | 756 | 97 |
| ER80C-6DY.H7.1R | 130546/E01 | 214 | 5.50 | 910 | 1023 | 543 | 258 | 960 | 750 | - | 885 | 955 | 865 | 114 | 766 | 100 |
| ER80C-6DY.I7.1R | 130547/E01 | 265 | 7.50 | 910 | 1023 | 543 | 280 | 960 | 750 | - | 1045 | 1051 | 906 | 100 | 956 | 68 |
| ER80C-6DY.K7.1R | 130548/E01 | 298 | 11.00 | 910 | 1023 | 543 | 314 | 960 | 750 | - | 1045 | 1051 | 868 | 151 | 892 | 132 |
| ER80C-4DY.K7.1R | 130549/E01 | 289 | 15.00 | 910 | 1023 | 543 | 314 | 960 | 750 | - | 1045 | 1051 | 858 | 151 | 902 | 122 |
| ER80C-4DY.L7.1R | 130550/E01 | 308 | 18.50 | 910 | 1023 | 543 | 306 | 960 | 750 | - | 1045 | 1125 | 856 | 168 | 868 | 156 |
| ER80C-4DY.M7.1R | 130551/E01 | 322 | 22.00 | 910 | 1023 | 543 | 306 | 960 | 750 | - | 1045 | 1125 | 818 | 206 | 808 | 204 |
| | | | | | | | | | | | | | | | | |
| ER90C-8DY.I7.1R | 130537/E01 | 319 | 4.00 | 1120 | 1264 | 674 | 280 | 1180 | 950 | 400 | 1160 | 1113 | 960 | 65 | 940 | 65 |
| ER90C-8DY.I7.1R | 130538/E01 | 334 | 5.50 | 1120 | 1264 | 674 | 280 | 1180 | 950 | 400 | 1160 | 1113 | 950 | 81 | 964 | 65 |
| ER90C-6DY.I7.1R | 130539/E01 | 334 | 7.50 | 1120 | 1264 | 674 | 280 | 1180 | 950 | 400 | 1160 | 1113 | 950 | 81 | 964 | 65 |
| ER90C-6DY.K7.1R | 130540/E01 | 367 | 11.00 | 1120 | 1264 | 674 | 314 | 1180 | 950 | 400 | 1160 | 1113 | 1046 | 65 | 1010 | 74 |
| ER90C-6DY.M7.1R | 130541/E01 | 394 | 15.00 | 1120 | 1264 | 674 | 306 | 1180 | 950 | 400 | 1320 | 1187 | 1110 | 65 | 1092 | 65 |
| ER90C-6DY.N7.1R | 130542/E01 | 446 | 18.50 | 1120 | 1264 | 674 | 349 | 1180 | 950 | 400 | 1320 | 1244 | 1160 | 82 | 1176 | 65 |
| ER90C-6DY.N7.1R | 130543/E01 | 461 | 22.00 | 1120 | 1264 | 674 | 349 | 1180 | 950 | 400 | 1320 | 1244 | 1208 | 65 | 1164 | 78 |
| ER90C-4DY.N7.1R | 130544/E01 | 453 | 30.00 | 1120 | 1264 | 674 | 349 | 1180 | 950 | 400 | 1320 | 1244 | 1200 | 65 | 1170 | 72 |
| | | | | | | | | | | | | | | | | |
| ER10C-8DY.I7.1R | 130528/E01 | 376 | 5.50 | 1120 | 1264 | 674 | 280 | 1180 | 950 | 400 | 1160 | 1179 | 1050 | 65 | 1006 | 78 |
| ER10C-8DY.K7.1R | 130529/E01 | 401 | 7.50 | 1120 | 1264 | 674 | 314 | 1180 | 950 | 400 | 1160 | 1179 | 1018 | 106 | 1058 | 78 |
| ER10C-8DY.M7.1R | 130530/E01 | 437 | 11.00 | 1120 | 1264 | 674 | 306 | 1180 | 950 | 400 | 1320 | 1253 | 1174 | 65 | 1156 | 65 |
| ER10C-6DY.M7.1R | 130531/E01 | 436 | 15.00 | 1120 | 1264 | 674 | 306 | 1180 | 950 | 400 | 1320 | 1253 | 1172 | 65 | 1154 | 65 |
| ER10C-6DY.N7.1R | 130532/E01 | 488 | 18.50 | 1120 | 1264 | 674 | 349 | 1180 | 950 | 400 | 1320 | 1309 | 1170 | 108 | 1220 | 75 |
| ER10C-6DY.N7.1R | 130533/E01 | 503 | 22.00 | 1120 | 1264 | 674 | 349 | 1180 | 950 | 400 | 1320 | 1309 | 1184 | 108 | 1168 | 108 |
| ER10C-6DY.R7.1R | 130534/E01 | 580 | 30.00 | 1120 | 1264 | 674 | 377 | 1180 | 950 | 400 | 1320 | 1347 | 1108 | 187 | 1122 | 173 |
| ER10C-6DY.S7.1R | 130535/E01 | 692 | 37.00 | 1120 | 1264 | 674 | 466 | 1180 | 950 | 400 | 1320 | 1438 | 968 | 318 | 998 | 297 |

# Plug fan ER..C

## Allocation of system components of explosion protected design

| Plug fan ER..C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Type** | **Article no.** | $P_N$ (kW) | **Spring vibration damper Part no.** | Spring vibration damper Type | **Rubber dampers Part no.** | Rubber dampers D x H / Sh Type | **Inlet guard Part no.** | **Air intakes Part no.** |
| **ER25C-2DY.B7.1R** | **130609/E01** | 0.75 | **02006458** | MSN 4 | **00090144** | 30x30 / 55 | **00279178** | **00406430** |
| **ER25C-2DY.B7.1R** | **130610/E01** | 1.10 | **02006458** | MSN 4 | **00090144** | 30x30 / 55 | **00279178** | **00406430** |
| **ER25C-2DY.C7.1R** | **130611/E01** | 1.50 | **02006446** | MSN 5 | **00090144** | 30x30 / 55 | **00279178** | **00406430** |
| **ER25C-2DY.D7.1R** | **130612/E01** | 2.20 | **02006446** | MSN 5 | **02000124** | 40x30 / 55 | **00279178** | **00406430** |
| | | | | | | | | |
| **ER28C-2DY.B7.1R** | **130604/E01** | 0.75 | **02006458** | MSN 4 | **02001048** | 30x30 / 40 | **00279179** | **00406431** |
| **ER28C-2DY.B7.1R** | **130605/E01** | 1.10 | **02006446** | MSN 5 | **00090144** | 30x30 / 55 | **00279179** | **00406431** |
| **ER28C-2DY.C7.1R** | **130606/E01** | 1.50 | **02006446** | MSN 5 | **00090144** | 30x30 / 55 | **00279179** | **00406431** |
| **ER28C-2DY.D7.1R** | **130607/E01** | 2.20 | **02006446** | MSN 5 | **00090144** | 30x30 / 55 | **00279179** | **00406431** |
| **ER28C-2DY.E7.1R** | **130608/E01** | 3.00 | **02006447** | MSN 6 | **02000124** | 40x30 / 55 | **00279179** | **00406431** |
| | | | | | | | | |
| **ER31C-2DY.B7.1R** | **130599/E01** | 1.10 | **02006446** | MSN 5 | **02001048** | 30x30 / 40 | **00279180** | **00406431** |
| **ER31C-2DY.C7.1R** | **130600/E01** | 1.50 | **02006446** | MSN 5 | **00090144** | 30x30 / 55 | **00279180** | **00406431** |
| **ER31C-2DY.D7.1R** | **130601/E01** | 2.20 | **02006446** | MSN 5 | **00090144** | 30x30 / 55 | **00279180** | **00406431** |
| **ER31C-2DY.E7.1R** | **130602/E01** | 3.00 | **02006446** | MSN 5 | **02000124** | 40x30 / 55 | **00279180** | **00406431** |
| **ER31C-2DY.F7.1R** | **130603/E01** | 4.00 | **02006447** | MSN 6 | **02000124** | 40x30 / 55 | **00279180** | **00406431** |
| | | | | | | | | |
| **ER35C-4DY.D7.1R** | **130595/E01** | 1.50 | **02006446** | MSN 5 | **00090144** | 30x30 / 55 | **00279181** | **00406432** |
| **ER35C-2DY.D7.1R** | **130596/E01** | 2.20 | **02006447** | MSN 6 | **00090144** | 30x30 / 55 | **00279181** | **00406432** |
| **ER35C-2DY.E7.1R** | **130597/E01** | 3.00 | **02006447** | MSN 6 | **00090144** | 30x30 / 55 | **00279181** | **00406432** |
| **ER35C-2DY.F7.1R** | **130598/E01** | 4.00 | **02006447** | MSN 6 | **02000124** | 40x30 / 55 | **00279181** | **00406432** |
| | | | | | | | | |
| **ER40C-4DY.C7.1R** | **130589/E01** | 1.10 | **02006446** | MSN 5 | **02001048** | 30x30 / 40 | **00279182** | **00406432** |
| **ER40C-4DY.D7.1R** | **130590/E01** | 1.50 | **02006446** | MSN 5 | **02001048** | 30x30 / 40 | **00279182** | **00406432** |
| **ER40C-4DY.E7.1R** | **130591/E01** | 2.20 | **02006447** | MSN 6 | **00090144** | 30x30 / 55 | **00279182** | **00406432** |
| **ER40C-4DY.E7.1R** | **130592/E01** | 3.00 | **02006447** | MSN 6 | **00090144** | 30x30 / 55 | **00279182** | **00406432** |
| **ER40C-2DY.F7.1R** | **130593/E01** | 4.00 | **02006447** | MSN 6 | **00090144** | 30x30 / 55 | **00279182** | **00406432** |
| **ER40C-2DY.G7.1R** | **130594/E01** | 5.50 | **02006448** | MSN 7 | **02000124** | 40x30 / 55 | **00279182** | **00406432** |
| | | | | | | | | |
| **ER45C-4DY.C7.1R** | **130582/E01** | 1.10 | **02006446** | MSN 5 | **02001048** | 30x30 / 40 | **00279183** | **00406432** |
| **ER45C-4DY.D7.1R** | **130583/E01** | 1.50 | **02006446** | MSN 5 | **02001048** | 30x30 / 40 | **00279183** | **00406432** |
| **ER45C-4DY.E7.1R** | **130584/E01** | 2.20 | **02006447** | MSN 6 | **00090144** | 30x30 / 55 | **00279183** | **00406432** |
| **ER45C-4DY.E7.1R** | **130585/E01** | 3.00 | **02006447** | MSN 6 | **00090144** | 30x30 / 55 | **00279183** | **00406432** |
| **ER45C-4DY.F7.1R** | **130586/E01** | 4.00 | **02006447** | MSN 6 | **00090144** | 30x30 / 55 | **00279183** | **00406432** |
| **ER45C-4DY.G7.1R** | **130587/E01** | 5.50 | **02006448** | MSN 7 | **02000124** | 40x30 / 55 | **00279183** | **00406432** |
| **ER45C-2DY.G7.1R** | **130588/E01** | 7.50 | **02006448** | MSN 7 | **02000124** | 40x30 / 55 | **00279183** | **00406432** |
| | | | | | | | | |
| **ER50C-4DY.D7.1R** | **130575/E01** | 1.50 | **02006447** | MSN 6 | **02001048** | 30x30 / 40 | **00279726** | **00406433** |
| **ER50C-4DY.E7.1R** | **130576/E01** | 2.20 | **02006447** | MSN 6 | **02001048** | 30x30 / 40 | **00279726** | **00406433** |
| **ER50C-4DY.E7.1R** | **130577/E01** | 3.00 | **02006447** | MSN 6 | **02001048** | 30x30 / 40 | **00279726** | **00406433** |
| **ER50C-4DY.F7.1R** | **130578/E01** | 4.00 | **02006448** | MSN 7 | **00090144** | 30x30 / 55 | **00279726** | **00406433** |
| **ER50C-4DY.G7.1R** | **130579/E01** | 5.50 | **02006448** | MSN 7 | **00090144** | 30x30 / 55 | **00279726** | **00406433** |
| **ER50C-4DY.H7.1R** | **130580/E01** | 7.50 | **02006448** | MSN 7 | **02000124** | 40x30 / 55 | **00279726** | **00406433** |
| **ER50C-4DY.I7.1R** | **130581/E01** | 11.00 | **02006450** | SD 4 | **02000124** | 40x30 / 55 | **00279726** | **00406433** |
| | | | | | | | | |
| **ER56C-6DY.E7.1R** | **130568/E01** | 1.50 | **02006447** | MSN 6 | **02001048** | 30x30 / 40 | **00279727** | **00406433** |
| **ER56C-4DY.E7.1R** | **130569/E01** | 2.20 | **02006447** | MSN 6 | **02001048** | 30x30 / 40 | **00279727** | **00406433** |
| **ER56C-4DY.E7.1R** | **130570/E01** | 3.00 | **02006448** | MSN 7 | **02001048** | 30x30 / 40 | **00279727** | **00406433** |
| **ER56C-4DY.F7.1R** | **130571/E01** | 4.00 | **02006448** | MSN 7 | **00090144** | 30x30 / 55 | **00279727** | **00406433** |
| **ER56C-4DY.G7.1R** | **130572/E01** | 5.50 | **02006448** | MSN 7 | **00090144** | 30x30 / 55 | **00279727** | **00406433** |
| **ER56C-4DY.H7.1R** | **130573/E01** | 7.50 | **02006450** | SD 4 | **02000124** | 40x30 / 55 | **00279727** | **00406433** |
| **ER56C-4DY.I7.1R** | **130574/E01** | 11.00 | **02006450** | SD 4 | **02000124** | 40x30 / 55 | **00279727** | **00406433** |

# Plug fan ER..C

## Allocation of system components of explosion protected design

| Plug fan ER..C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Type** | **Article no.** | $P_N$ (kW) | **Spring vibration damper Part no.** | Spring vibration damper Type | **Rubber dampers Part no.** | Rubber dampers D x H / Sh Type | **Inlet guard Part no.** | **Air intakes Part no.** |
| **ER63C-6DY.E7.1R** | **130560/E01** | 1.50 | **02006447** | MSN 6 | **02001048** | 30x30 / 40 | **00405196** | **00406433** |
| **ER63C-6DY.F7.1R** | **130561/E01** | 2.20 | **02006448** | MSN 7 | **02001048** | 30x30 / 40 | **00405196** | **00406433** |
| **ER63C-6DY.G7.1R** | **130562/E01** | 3.00 | **02006448** | MSN 7 | **00090144** | 30x30 / 55 | **00405196** | **00406433** |
| **ER63C-4DY.F7.1R** | **130563/E01** | 4.00 | **02006448** | MSN 7 | **00090144** | 30x30 / 55 | **00405196** | **00406433** |
| **ER63C-4DY.G7.1R** | **130564/E01** | 5.50 | **02006448** | MSN 7 | **00090144** | 30x30 / 55 | **00405196** | **00406433** |
| **ER63C-4DY.H7.1R** | **130565/E01** | 7.50 | **02006450** | SD 4 | **00090144** | 30x30 / 55 | **00405196** | **00406433** |
| **ER63C-4DY.I7.1R** | **130566/E01** | 11.00 | **02006450** | SD 4 | **02000124** | 40x30 / 55 | **00405196** | **00406433** |
| **ER63C-4DY.K7.1R** | **130567/E01** | 15.00 | **02006451** | SD 5 | **02000124** | 40x30 / 55 | **00405196** | **00406433** |
| | | | | | | | | |
| **ER71C-6DY.F7.1R** | **130552/E01** | 2.20 | **02006448** | MSN 7 | **02001049** | 40x40 / 40 | **00405197** | **00406434** |
| **ER71C-6DY.G7.1R** | **130553/E01** | 3.00 | **02006450** | SD 4 | **02001049** | 40x40 / 40 | **00405197** | **00406434** |
| **ER71C-6DY.H7.1R** | **130554/E01** | 4.00 | **02006450** | SD 4 | **02001049** | 40x40 / 40 | **00405197** | **00406434** |
| **ER71C-6DY.H7.1R** | **130555/E01** | 5.50 | **02006450** | SD 4 | **02001049** | 40x40 / 40 | **00405197** | **00406434** |
| **ER71C-4DY.H7.1R** | **130556/E01** | 7.50 | **02006450** | SD 4 | **00090156** | 40x40 / 55 | **00405197** | **00406434** |
| **ER71C-4DY.I7.1R** | **130557/E01** | 11.00 | **02006451** | SD 5 | **00090156** | 40x40 / 55 | **00405197** | **00406434** |
| **ER71C-4DY.K7.1R** | **130558/E01** | 15.00 | **02006451** | SD 5 | **00090156** | 40x40 / 55 | **00405197** | **00406434** |
| **ER71C-4DY.L7.1R** | **130559/E01** | 18.50 | **02006451** | SD 5 | **00090157** | 50x50 / 55 | **00405197** | **00406434** |
| | | | | | | | | |
| **ER80C-6DY.H7.1R** | **130545/E01** | 4.00 | **02006450** | SD 4 | **02001049** | 40x40 / 40 | **00405198** | **00406434** |
| **ER80C-6DY.H7.1R** | **130546/E01** | 5.50 | **02006450** | SD 4 | **02001049** | 40x40 / 40 | **00405198** | **00406434** |
| **ER80C-6DY.I7.1R** | **130547/E01** | 7.50 | **02006451** | SD 5 | **00090157** | 50x50 / 55 | **00405198** | **00406434** |
| **ER80C-6DY.K7.1R** | **130548/E01** | 11.00 | **02006451** | SD 5 | **00090157** | 50x50 / 55 | **00405198** | **00406434** |
| **ER80C-4DY.K7.1R** | **130549/E01** | 15.00 | **02006451** | SD 5 | **00090157** | 50x50 / 55 | **00405198** | **00406434** |
| **ER80C-4DY.L7.1R** | **130550/E01** | 18.50 | **02006451** | SD 5 | **00090157** | 50x50 / 55 | **00405198** | **00406434** |
| **ER80C-4DY.M7.1R** | **130551/E01** | 22.00 | **02006451** | SD 5 | **00090157** | 50x50 / 55 | **00405198** | **00406434** |
| | | | | | | | | |
| **ER90C-8DY.I7.1R** | **130537/E01** | 4.00 | **02006451** | SD 5 | **02001674** | 75x50 / 40 | **00405199** | **00406435** |
| **ER90C-8DY.I7.1R** | **130538/E01** | 5.50 | **02006451** | SD 5 | **02001674** | 75x50 / 40 | **00405199** | **00406435** |
| **ER90C-6DY.I7.1R** | **130539/E01** | 7.50 | **02006451** | SD 5 | **02001674** | 75x50 / 40 | **00405199** | **00406435** |
| **ER90C-6DY.K7.1R** | **130540/E01** | 11.00 | **02006451** | SD 5 | **02001674** | 75x50 / 40 | **00405199** | **00406435** |
| **ER90C-6DY.M7.1R** | **130541/E01** | 15.00 | **02006451** | SD 5 | **02001674** | 75x50 / 40 | **00405199** | **00406435** |
| **ER90C-6DY.N7.1R** | **130542/E01** | 18.50 | **02006452** | SD 6 | **02001674** | 75x50 / 40 | **00405199** | **00406435** |
| **ER90C-6DY.N7.1R** | **130543/E01** | 22.00 | **02006452** | SD 6 | **02001674** | 75x50 / 40 | **00405199** | **00406435** |
| **ER90C-4DY.N7.1R** | **130544/E01** | 30.00 | **02006452** | SD 6 | **02001674** | 75x50 / 40 | **00405199** | **00406435** |
| | | | | | | | | |
| **ER10C-8DY.I7.1R** | **130528/E01** | 5.50 | **02006451** | SD 5 | **02001674** | 75x50 / 40 | **00405200** | **00406435** |
| **ER10C-8DY.K7.1R** | **130529/E01** | 7.50 | **02006451** | SD 5 | **02001674** | 75x50 / 40 | **00405200** | **00406435** |
| **ER10C-8DY.M7.1R** | **130530/E01** | 11.00 | **02006451** | SD 5 | **02001674** | 75x50 / 40 | **00405200** | **00406435** |
| **ER10C-6DY.M7.1R** | **130531/E01** | 15.00 | **02006451** | SD 5 | **02001674** | 75x50 / 40 | **00405200** | **00406435** |
| **ER10C-6DY.N7.1R** | **130532/E01** | 18.50 | **02006452** | SD 6 | **02001674** | 75x50 / 40 | **00405200** | **00406435** |
| **ER10C-6DY.N7.1R** | **130533/E01** | 22.00 | **02006452** | SD 6 | **02001674** | 75x50 / 40 | **00405200** | **00406435** |
| **ER10C-6DY.R7.1R** | **130534/E01** | 30.00 | **02006452** | SD 6 | **02001674** | 75x50 / 40 | **00405200** | **00406435** |
| **ER10C-6DY.S7.1R** | **130535/E01** | 37.00 | **02006453** | SD 7 | **02001674** | 75x50 / 40 | **00405200** | **00406435** |

# 3~ frequency inverter Icontrol

## Technical description


Ziehl-Abegg frequency inverter Icontrol IP54 / IP20

The frequency inverters are intended especially for demand-oriented and energy-saving speed control of internal rotor motors.
All Ziehl-Abegg sensors can be combined with universal frequency inverters. The actual value measured at the sensor is compared to the set target value. That triggers the connected fan.
Specifically for application in air conditioning, control is possible for air volume flow or for differential pressure, for example. Simple commissioning is facilitated by the selectable operating modes included in the unit.
Processes in other application areas can also be controlled. The frequency inverters are can be used flexibly.
Designs with integrated main switches or designs in special, flat constructions, the „Icontrol flat“ are available.


Ziehl-Abegg frequency inverter Icontrol with main switch IP54

Ziehl-Abegg frequency inverter Icontrol flat IP54

### Input for sensors or speed setting


Setting of the desired speed through device or by external default,
e.g. 0-10 V


Connection of pressure sensors (refrigeration),
e.g. Sensors MBG, measuring range 0 to 30 / 0 to 50 bar


Connection of temperature sensors,
e.g. Sensors TF, device measuring range -27 to +75 °C,
e.g. Sensor MTG, sensor measuring range -10 to +120 °C

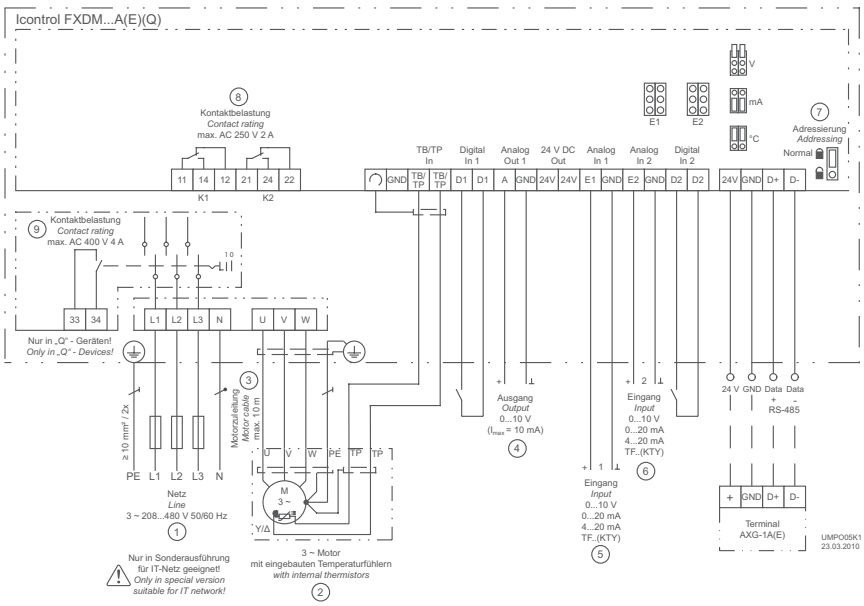

Connection of differential pressure sensors (air conditioning),
e.g. Sensors DSG, measuring range 0 to 6000 Pa,
acquisition of volume flows up to 65000 $m^3$


Connection of air velocity sensors,
e.g. Sensors MAL, measuring range 0-1 / 0-10 m/s


Connection of additional sensors,
e. g. combination sensors, $CO_2$, humidity, sensor signal 0-10 V / 0-20 mA / 4-20 mA

Sensors Page 96
Control module Page 98

### Connections




① Mains
② 3~ motor with integral temperature sensors
③ Motor supply line
④ Output
⑤ Input 1
⑥ Input 2
⑦ Addressing
⑧ Max. contact rating
⑨ Max. contact rating

## Technical data

- Mains voltage: 3~ 208 - 480 V 50/60 Hz
- Maximum output voltage: Approx. mains or input voltage
- Maximum output frequency: 150 Hz
- Adjustable clock frequency (> 6 kHz with power reduction): 6, 8, 10, 16 kHz
- Maximum ambient temperature: + 40 °C (up to + 55 °C with derating possible)
- Integrated power supply for sensors: + 24 V, max. 120 mA
- Analogue output A1: 0 - 10 V, $I_{max}$ 10 mA (short-circuit proof)
- Max. loading of the relay K1 + K2: max. AC 250 V / 2 A
- Interference emission: compliant with EN 61000-6-3 (residential environment)
- Interference immunity: compliant with EN 61000-6-2 (Industrial environment)

## Optional equipment

The Icontrol frequency inverters are also available with an integrated main switch.

**Type designation FXDM…AQ**

The integrated main switch has the 0 and I (On/Off) switch positions. In the 0 position, the switch can be locked with a padlock. An integrated auxiliary contact can be used to report the switch position. Consequently, when the alarm relay is dropping, whether the switch was actuated is detected, for instance.

**Add-on module for frequency inverter**

- IO-add-on module Type Z-Module-B, Part no. 380052
  If the inputs and outputs do not suffice, additional inputs and outputs can be created with the Z-Module-B. They can also be programmed:
  - 1 analogue input
  - 1 analogue output
  - 3 digital inputs
  - 2 digital outputs (relay)
- LON® Add-on module Type Z-Module-L, Part no. 380053
  For integration into a LON® bus system using a twisted pair
- Ethernet add-on module Type Z-Module-ET, part. no. 380055
  For integration into industrial Ethernet networks with TCP/IP protocols (MODBUS-TCP)

## Equipment/characteristics

**Multifunctional display with plain text:**
Various menu languages can be selected

**Simple commissioning through operating modes:**
Typical operating modes, e.g. for air-conditioning, refrigeration or ventilation technology can be selected.

**Easy to programme:**
Typical settings can be made: e.g., default a minimum rotational speed, limit the maximum rotational speed, inverting and limits. Setting, e.g. for 2-stage mode

**2 analogue inputs for sensors or set-point signals:**
Analogue input E1 and E2: Setting through operating modes or manually programmable, e.g. 0-10 V, 0-20 mA, 4-20 mA
Analogue input E2: programmable, e.g. comparison to Sensor 1, difference Sensor 1, average calculation, set-point input, set-point adjustment (e.g. dependent on outdoor temperature)

**2 digital inputs D1 and D2:**
Programmable, e.g., enable function, switching Nominal value 1 or 2, switching control or manual operation, switching E1 or E2, reverse control function, limitation output, display external malfunction, reset, reverse the rotary direction

**1 analogue output A1:**
Setting through operating modes or manually programmable, e.g. e.g. output signal proportional control, output signal proportional input signal, invertible, 10 V fixed voltage, group control

**2 digital outputs (relays) K1 and K2:**
Setting through operating modes or manual programming, e.g. operating status, limits, external fault on digital input, enabling external devices, e.g. heating, dampers, group control of fans, etc.

**Integrated motor protection function:**
Connection facility for PTC thermistors or alternatively thermal contacts (TB or TP).

**Interface RS485 MODBUS RTU:**
Integration into bus system

**Settings protection:**
Enable settings protection from unauthorised access, restore implemented settings

**Event memory:**
Query events that have occurred, operating times, etc.

# 3~ frequency inverter Icontrol

## Technical data

| 3~ frequency inverter Icontrol without main switch | | | | | | |
|---|---|---|---|---|---|---|
| Line | **Type** | **Article no.** | $I_B$ */ A | P / kW | Protection class | kg |
| 3~ 208 - 480 V 50/60 Hz | **FXDM2.6A** | **308063** | 2.6 | 1.1 | IP54 | 3.6 |
| | **FXDM4.2A** | **308148** | 4.2 | 1.5 | IP54 | 6.4 |
| | **FXDM5A** | **308149** | 5.0 | 2.2 | IP54 | 6.4 |
| | **FXDM7.5A** | **308150** | 7.5 | 3.0 | IP54 | 7.3 |
| | **FXDM8.5A** | **308151** | 8.5 | 4.0 | IP54 | 7.3 |
| | **FXDM12A** | **308152** | 12.0 | 5.5 | IP54 | 7.5 |
| | **FXDM17A** | **308153** | 17.0 | 7.5 | IP54 | 8.5 |
| | **FXDM25A** | **308112** | 25.0 | 11.0 | IP54 | 12.5 |
| | **FXDM32A** | **308078** | 32.0 | 15.0 | IP54 | 24.5 |
| | **FXDM32AE** | **308079** | 32.0 | 15.0 | IP20 | 24.2 |
| | **FXDM39A** | **308080** | 39.0 | 18.5 | IP54 | 26.3 |
| | **FXDM39AE** | **308081** | 39.0 | 18.5 | IP20 | 25.8 |
| | **FXDM46A** | **308088** | 46.0 | 22.0 | IP54 | 26.3 |
| | **FXDM46AE** | **308089** | 46.0 | 22.0 | IP20 | 25.8 |
| | **FXDM62A** | **308092** | 62.0 | 30.0 | IP54 | 26.3 |
| | **FXDM62AE** | **308093** | 62.0 | 30.0 | IP20 | 25.8 |

* Rated current 400 V mains voltage, 40 °C ambient temperature, 6 kHz switching frequency

| 3~ frequency inverter Icontrol with main switch | | | | | | |
|---|---|---|---|---|---|---|
| Line | **Type** | **Article no.** | $I_B$ */ A | P / kW | Protection class | kg |
| 3~ 208 - 480 V 50/60 Hz | **FXDM2.6AQ** | **308161** | 2.6 | 1.1 | IP54 | 3.4 |
| | **FXDM4.2AQ** | **308162** | 4.2 | 1.5 | IP54 | 6.6 |
| | **FXDM5AQ** | **308163** | 5.0 | 2.2 | IP54 | 6.6 |
| | **FXDM7.5AQ** | **308164** | 7.5 | 3.0 | IP54 | 7.5 |
| | **FXDM8.5AQ** | **308165** | 8.5 | 4.0 | IP54 | 7.5 |
| | **FXDM12AQ** | **308166** | 12.0 | 5.5 | IP54 | 7.7 |
| | **FXDM17AQ** | **308167** | 17.0 | 7.5 | IP54 | 7.7 |
| | **FXDM25AQ** | **308168** | 25.0 | 11.0 | IP54 | 12.8 |
| | **FXDM32AQ** | **308169** | 32.0 | 15.0 | IP54 | 25.3 |
| | **FXDM39AQ** | **308170** | 39.0 | 18.5 | IP54 | 27.1 |
| | **FXDM46AQ** | **308171** | 46.0 | 22.0 | IP54 | 27.1 |
| | **FXDM62AQ** | **308172** | 62.0 | 30.0 | IP54 | 27.1 |

* Rated current 400 V mains voltage, 40 °C ambient temperature, 6 kHz switching frequency

| 3~ frequency inverter Icontrol flat | | | | | | |
|---|---|---|---|---|---|---|
| Line | **Type** | **Article no.** | $I_B$ */ A | P / kW | Protection class | |
| 3~ 208 - 480 V 50/60 Hz | **FXDM3.6 (flat)** | **308072** | 3.6 | 1.5 | IP54 | 5.2 |
| | **FXDM5 (flat)** | **308073** | 5.0 | 2.2 | IP54 | 5.2 |
| | **FXDM6.5 (flat)** | **308074** | 6.5 | 3.0 | IP54 | 6.0 |
| | **FXDM8.5 (flat)** | **308075** | 8.5 | 4.0 | IP54 | 6.0 |
| | **FXDM12 (flat)** | **308076** | 12.0 | 5.5 | IP54 | 6.8 |
| | **FXDM16 (flat)** | **308077** | 16.0 | 7.5 | IP54 | 8.7 |

* Rated current 400 V mains voltage, 40 °C ambient temperature, 6 kHz switching frequency

# Differential pressure sensor DSG / MPG


Sensor MPG... with switchable measuring range

The differential pressure sensors acquire the pressure differences of non-aggressive gases in ventilation systems (e.g., air ducts, fan inlet nozzles, roof fans, etc.). The DSG sensors are available in designs from 50 to 6000 Pa.

Sensors are supplied, e.g. via 24 V, from a frequency inverter, EC fan or other device.

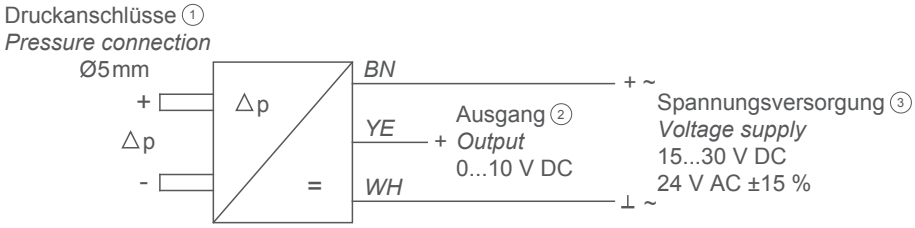
The sensors output proportionally through their measurement range 0 - 10 V. Depending on the control unit connected, control can be implemented based on differential pressure or air volume flow.

The MPG designs with switchable measuring ranges cover the range from 50 to 6000 Pa with only three device types. One can select from among four calibrated measuring ranges depending on the type.

△Pa

m³

## Connections




FUDU01K1
08.11.2007

① Pressure connection
② Output
③ Voltage supply

## Technical Data

- Output voltage: 0 - 10 V ($I_{max}$ = 0,2mA)
- Voltage supply with polarity reversal protection: 15 - 30 V DC / 24 V AC +/- 15% ($I_{max}$ = 12 mA)
- Maximum ambient temperature: 0°C to +50°C
- Pressure ports + / -: for ∅ 5mm hose adapters
- Interference emission: compliant with EN 61000-6-3
- Interference immunity: compliant with EN 61000-6-2

## Application/Function

The sensor control module is connected to the ventilation system via 2 pressure ports (pressure socket + and -).

The differential pressure registered on the ventilation system affects the sensor on a silicone membrane. The deformation of the membrane is registered through a measuring element and transmitted to the integrated electronics. Function: Pressure rise on +, compared to pressure on - connection.

A proportional 0 - 10 V output signal is sent correspondent with the sensor measurement range, respectively, the selected measurement range in the MPG.

## Equipment/characteristics

**Designs with digital display, test certificate:**
On request

**Implemented, 3-strand cable, approx. 0.5 m:**
1 x Output 0 - 10 V:
Measurement signal for EC fans, frequency inverters, other devices
1 x Power supply with e.g. 24 V AC:
from the connected EC fan, frequency inverter or other device
1 x GND

**The MPG designs with switchable measurement ranges provide the following adjustment facilities via dip switches:**
MPG-200V: 0 - 50 / 100 / 150 / 200 Pa
MPG-1000V: 0 - 200 / 300 / 500 / 1000 Pa
MPG-6000V: 0 - 2000 / 3000 / 4000 / 6000 Pa

### Differential pressure sensor DSG / MPG

| Type | Article no. | Measuring range (Pa) | Dimensions in mm H x B x T |
|---|---|---|---|
| **DSG50** | **00155595** | 0 – 50 | 70 x 70 x 50 |
| **DSG200** | **00150229** | 0 – 200 | 70 x 70 x 50 |
| **DSG500** | **00150230** | 0 – 500 | 70 x 70 x 50 |
| **DSG1000** | **00150231** | 0 – 1000 | 70 x 70 x 50 |
| **DSG2000** | **00150684** | 0 – 2000 | 70 x 70 x 50 |
| **DSG4000** | **00150685** | 0 – 4000 | 70 x 70 x 50 |
| **DSG6000** | **00150694** | 0 – 6000 | 70 x 70 x 50 |
| **MPG-200V** | **384039** | 0 - 50 ... 200 | 70 x 70 x 50 |
| **MPG-1000V** | **384040** | 0 - 200 ... 1000 | 70 x 70 x 50 |
| **MPG-6000V** | **384041** | 0 - 2000 ... 6000 | 70 x 70 x 50 |

# Sensor control module CPG

## for differential pressure and air flow

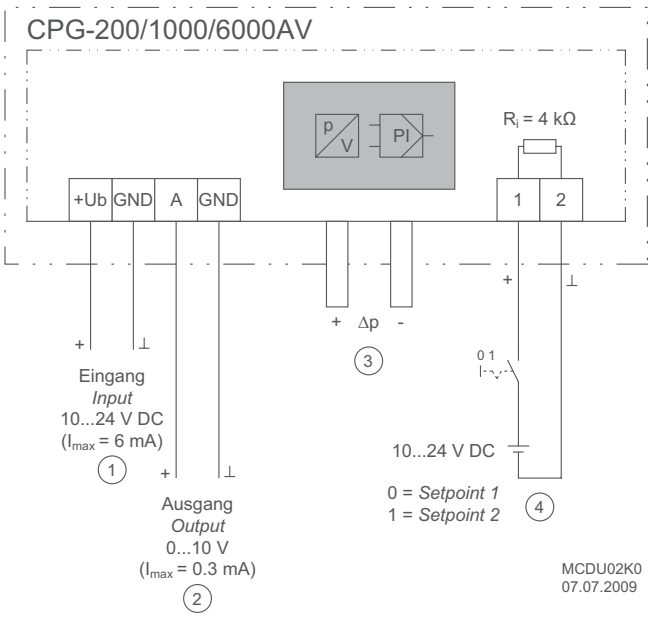

CPG Sensor control module

The sensor control module for differential pressure and volume flow measures and indicates the pressure or, optionally, the volume flow in a ventilation system. The calculation of the volume flow is performed by entering the K-factors of the fan inlet ring.
Depending on the desired target value and control range, the sensor control module outputs 0-10 V to trigger the EC fan or, e.g., a frequency inverter.
The sensor control module is supplied by the fan or frequency inverter it triggers, e.g., with 10 V DC. No additional supply voltage is necessary.

△Pa

m³

### Connections




① Input
② Output
③ Connection sockets
④ Voltage input for switch over

## Technical Data

- Output voltage: 0 - 10 V ($I_{max}$ = 0.3mA)
- Voltage supply with polarity reversal protection: 10 - 30 V DC($I_{max}$ = 6 mA)
- Maximum ambient temperature: 0°C to +50°C
- Pressure ports + / -: for ∅ 5mm hose adapters
- Interference emission: compliant with EN 61000-6-3
- Interference immunity: compliant with EN 61000-6-2

## Application/Function

The sensor control module is connected to the ventilation system via 2 pressure ports (pressure socket + and -).
The differential pressure registered on the ventilation system affects the sensor on a silicone membrane. The deformation of the membrane is registered through a measuring element and transmitted to the integrated electronics. Function: Pressure rise on +, compared to pressure on - connection.
Optionally, the device can be operated as a pressure sensor, i.e., pressure indicator and proportional output signal 0 - 10 V corresponding to the set measurement range.
Optional operation as a volume flow sensor, i.e. volume flow (by entering the K-factor of the centrifugal fans) and 0 - 10 V proportional output signal corresponding to the set measurement range.
Optional operation as a control module for pressure or volume flow. The entered target value is compared to the actual value; the 0 - 10 V output signal results from that. That is used to trigger EC fans, frequency inverters or other devices.

## Equipment/characteristics

**Integrated display:**
For pressure or volume flow display and for programming

**Simple commissioning through operating modes:**
Operation as a pressure or volume flow sensor
Operation as a pressure or volume flow controller

**Easily programmable via 3 buttons under the cover:**
Measurement range selection, target values input (1/2), Control range, K-factor for determining the volume flow, Minimum or maximum output signal

**Different measurement ranges can be selected in correspondence with the design:**
CPG-200AV: 0 - 50 / 100 / 150 / 200 Pa
CPG-1000AV: 0 - 200 / 300 / 500 / 1000 Pa
CPG-6000AV: 0 - 2000 / 3000 / 4000 / 6000 Pa
Maximum volume flow measurement range: 65000 m3/h

**1 digital input:**
Switching Target value 1 or 2

**1 analogue output:**
To trigger EC fans, frequency inverters, other devices

**Sensor control module CPG**

| Line | Type | Article no. | Protection class | | Dimensions* in mm H x B x T |
|---|---|---|---|---|---|
| 10 - 24 V DC | CPG-200AV | 320042 | IP 54 | 0.3 | 108 x 114 x 56 |
| | CPG-1000AV | 320043 | IP 54 | 0.3 | 108 x 114 x 56 |
| | CPG-6000AV | 320044 | IP 54 | 0.3 | 108 x 114 x 56 |

* with cable gland

# Product overview

## Product number, type, page number

# Product overview

## Product number, type, page number

| | | |
|---|---|---|
| 113761/O01 | GR45C-4DN.E5.1R | 66 |
| 113761/U01 | GR45C-4DN.E5.1R | 66 |
| 113762/2F011 | GR45C-4DN.E5.CR | 44 |
| 113762/2F033 | GR45C-4DN.E5.CR | 44 |
| 113762/2F035 | GR45C-4DN.E5.CR | 44 |
| 113762/H01 | GR45C-4DN.E5.1R | 66 |
| 113762/O01 | GR45C-4DN.E5.1R | 66 |
| 113762/U01 | GR45C-4DN.E5.1R | 66 |
| 113763/2F011 | GR45C-4DN.F5.CR | 44 |
| 113763/2F033 | GR45C-4DN.F5.CR | 44 |
| 113763/2F035 | GR45C-4DN.F5.CR | 44 |
| 113763/H01 | GR45C-4DN.F5.1R | 66 |
| 113763/O01 | GR45C-4DN.F5.1R | 66 |
| 113763/U01 | GR45C-4DN.F5.1R | 66 |
| 113764/2F011 | GR45C-4DN.G5.CR | 44 |
| 113764/2F033 | GR45C-4DN.G5.CR | 44 |
| 113764/2F035 | GR45C-4DN.G5.CR | 44 |
| 113764/H01 | GR45C-4DN.G5.1R | 66 |
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| 113765/2F011 | GR45C-2DN.G5.CR | 44 |
| 113765/2F033 | GR45C-2DN.G5.CR | 44 |
| 113765/2F035 | GR45C-2DN.G5.CR | 44 |
| 113765/H01 | GR45C-2DN.G5.1R | 66 |
| 113765/O01 | GR45C-2DN.G5.1R | 66 |
| 113765/U01 | GR45C-2DN.G5.1R | 66 |
| 113766/2F011 | GR50C-4DN.D5.CR | 46 |
| 113766/2F033 | GR50C-4DN.D5.CR | 46 |
| 113766/2F035 | GR50C-4DN.D5.CR | 46 |
| 113766/H01 | GR50C-4DN.D5.1R | 68 |
| 113766/O01 | GR50C-4DN.D5.1R | 68 |
| 113766/U01 | GR50C-4DN.D5.1R | 68 |
| 113767/2F011 | GR50C-4DN.E5.CR | 46 |
| 113767/2F033 | GR50C-4DN.E5.CR | 46 |
| 113767/2F035 | GR50C-4DN.E5.CR | 46 |
| 113767/H01 | GR50C-4DN.E5.1R | 68 |
| 113767/O01 | GR50C-4DN.E5.1R | 68 |
| 113767/U01 | GR50C-4DN.E5.1R | 68 |
| 113768/2F011 | GR50C-4DN.E5.CR | 46 |
| 113768/2F033 | GR50C-4DN.E5.CR | 46 |
| 113768/2F035 | GR50C-4DN.E5.CR | 46 |
| 113768/H01 | GR50C-4DN.E5.1R | 68 |
| 113768/O01 | GR50C-4DN.E5.1R | 68 |
| 113768/U01 | GR50C-4DN.E5.1R | 68 |
| 113769/2F011 | GR50C-4DN.F5.CR | 46 |
| 113769/2F033 | GR50C-4DN.F5.CR | 46 |
| 113769/2F035 | GR50C-4DN.F5.CR | 46 |
| 113769/H01 | GR50C-4DN.F5.1R | 68 |
| 113769/O01 | GR50C-4DN.F5.1R | 68 |
| 113769/U01 | GR50C-4DN.F5.1R | 68 |
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| 113770/H01 | GR50C-4DN.G5.1R | 68 |
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| 113770/U01 | GR50C-4DN.G5.1R | 68 |
| 113771/2F011 | GR50C-4DN.H5.CR | 46 |
| 113771/2F033 | GR50C-4DN.H5.CR | 46 |
| 113771/2F035 | GR50C-4DN.H5.CR | 46 |
| 113771/H01 | GR50C-4DN.H5.1R | 68 |
| 113771/O01 | GR50C-4DN.H5.1R | 68 |
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| 113772/2F035 | GR50C-4DN.I5.CR | 46 |
| 113772/H01 | GR50C-4DN.I5.1R | 68 |
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| 113772/U01 | GR50C-4DN.I5.1R | 68 |
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| 113810/O01 | GR71C-6DN.G5.1R | 74 |
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| 113814/O01 | GR71C-4DN.I5.1R | 74 |
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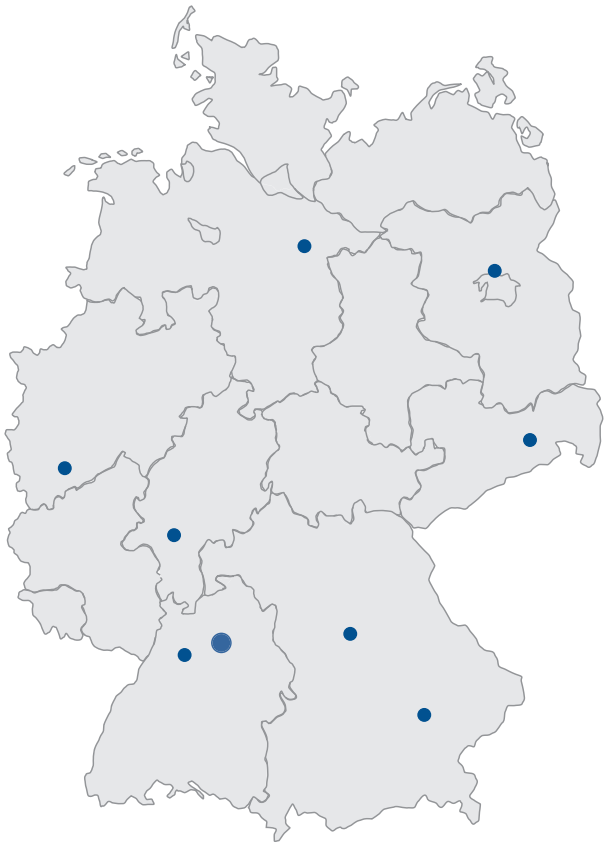
| 113815/O01 | GR71C-4DN.K5.1R | 74 |
| 113815/U01 | GR71C-4DN.K5.1R | 74 |
| 113816/O01 | GR71C-4DN.L5.1R | 74 |
| 113816/U01 | GR71C-4DN.L5.1R | 74 |

# Product overview

## Product number, type, page number

# Ziehl-Abegg Germany

## Field representatives

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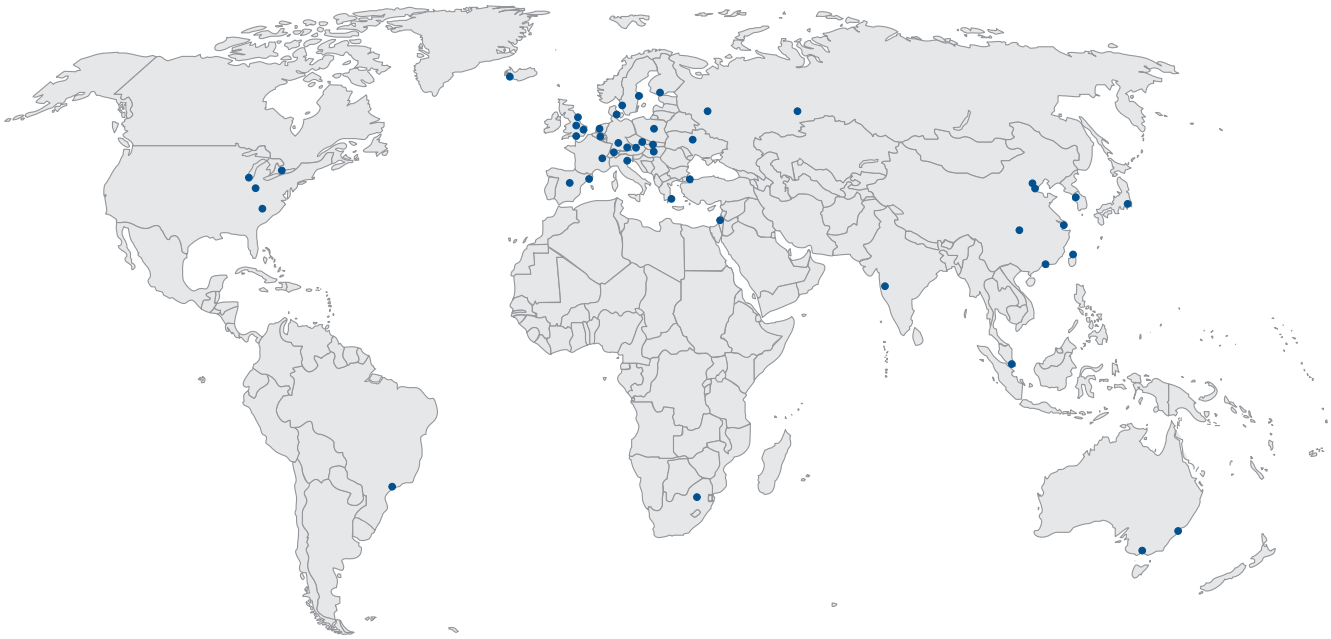

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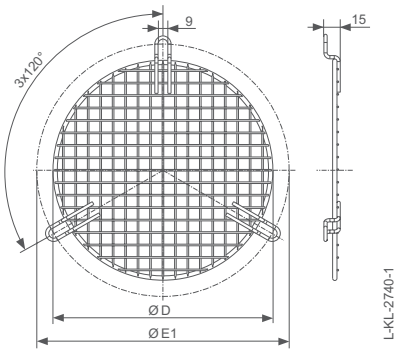
# System components

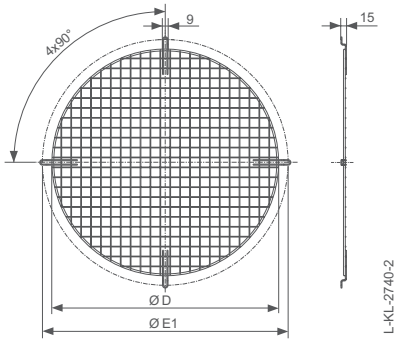
## for plug fan ER..Cpro / ER..C

### Inlet guard




Sizes ER22C ... ER56C

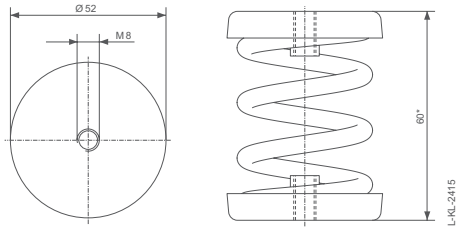
| Impeller size | Article no. | Dimensions | |
|---|---|---|---|
| | | D | E1 |
| | | mm | mm |
| ER22-25C | 00409757 | 203 | 233 |
| ER28C | 00409758 | 225 | 257 |
| ER31C | 00409759 | 249 | 283 |
| ER35C | 00409760 | 273 | 317 |
| ER40C | 00409761 | 299 | 352 |
| ER45C | 00409762 | 335 | 392 |
| ER50C | 00409763 | 410 | 438 |
| ER56C | 00409765 | 506 | 538 |




Sizes ER63C ... ER11C

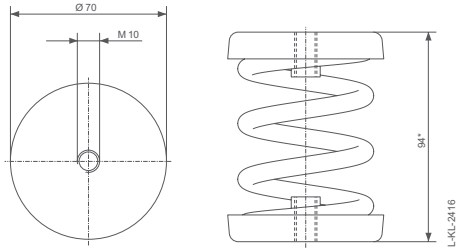
| Impeller size | Article no. | Dimensions | |
|---|---|---|---|
| | | D | E1 |
| | | mm | mm |
| ER63C | 00409766 | 556 | 600 |
| ER71C | 00409767 | 618 | 670 |
| ER80C | 00409768 | 690 | 750 |
| ER90C | 00409769 | 770 | 840 |
| ER10C | 00409770 | 860 | 940 |
| ER11C | 00409771 | 960 | 1041 |

### Spring vibration damper




Type MSN, * unstressed

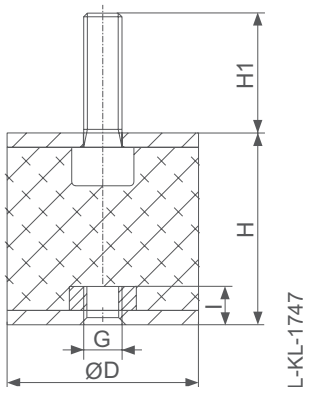
| Type | Article no. |
|---|---|
| MSN 3 | 02006459 |
| MSN 4 | 02006458 |
| MSN 5 | 02006446 |
| MSN 6 | 02006447 |
| MSN 7 | 02006448 |




Type SD, * unstressed

| Type | Article no. |
|---|---|
| SD 4 | 02006450 |
| SD 5 | 02006451 |
| SD 6 | 02006452 |
| SD 7 | 02006453 |
| SD 8 | 02006879 |

### Rubber damper

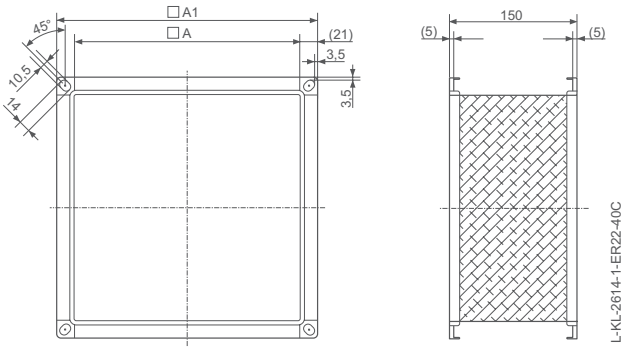



| Type | Article no. | Dimensions | | | | |
|---|---|---|---|---|---|---|
| | | D | G | H | H1 | I |
| | | mm | mm | mm | mm | mm |
| 30x30 / 40 | 02001048 | 30 | M8 | 30 | 20 | 6 |
| 30x30 / 55 | 00090144 | 30 | M8 | 30 | 23 | 6 |
| 40x30 / 55 | 02000124 | 40 | M8 | 30 | 23 | 7 |
| 40x40 / 40 | 02001049 | 40 | M8 | 40 | 23 | 7 |
| 40x40 / 55 | 00090156 | 40 | M8 | 40 | 23 | 7 |
| 50x50 / 55 | 00090157 | 50 | M10 | 50 | 33 | 8 |
| 75x50 / 40 | 02001674 | 75 | M12 | 50 | 33 | 10 |
| 75x50 / 55 | 02000407 | 75 | M12 | 50 | 33 | 10 |
| 100x75 / 40 | 00409724 | 100 | M16 | 75 | 42 | 13 |

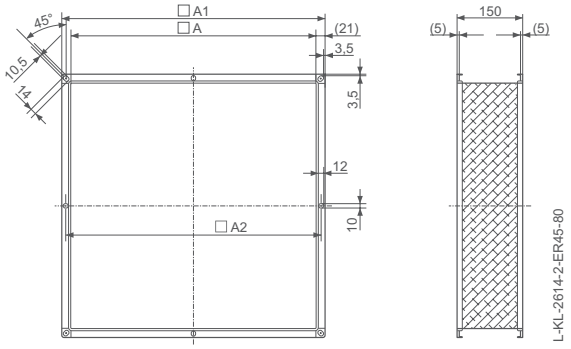
# System components

## for plug fan ER..Cpro / ER..C

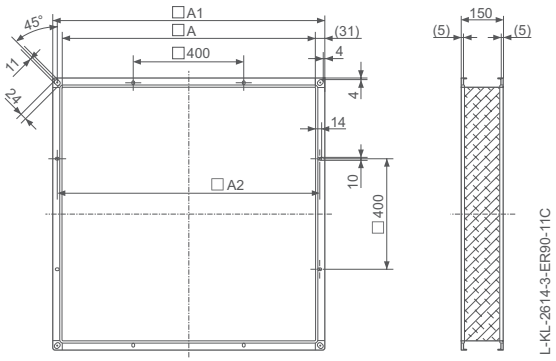
### Flexible air intakes




| Impeller size | Article no. | Dimensions | |
|---|---|---|---|
| | | A | A1 |
| | | mm | mm |
| ER22-25C | 00403346 | 265 | 307 |
| ER28-31C | 00406513 | 280 | 322 |
| ER35-40C | 00406514 | 365 | 407 |




| Impeller size | Article no. | Dimensions | | |
|---|---|---|---|---|
| | | A | A1 | A2 |
| | | mm | mm | mm |
| ER45-50C | 00406515 | 445 | 487 | 470 |
| ER56-63C | 00405986 | 640 | 682 | 664 |
| ER71-80C | 00403350 | 730 | 772 | 754 |




| Impeller size | Article no. | Dimensions | | |
|---|---|---|---|---|
| | | A | A1 | A2 |
| | | mm | mm | mm |
| ER90-10C | 00403351 | 920 | 982 | 950 |
| ER11C | 00403352 | 1170 | 1232 | 1200 |

# The Royal League



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