

## KARTA KATALOGOWA

# R2E175-AC77-05

Wentylator promieniowy AC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst

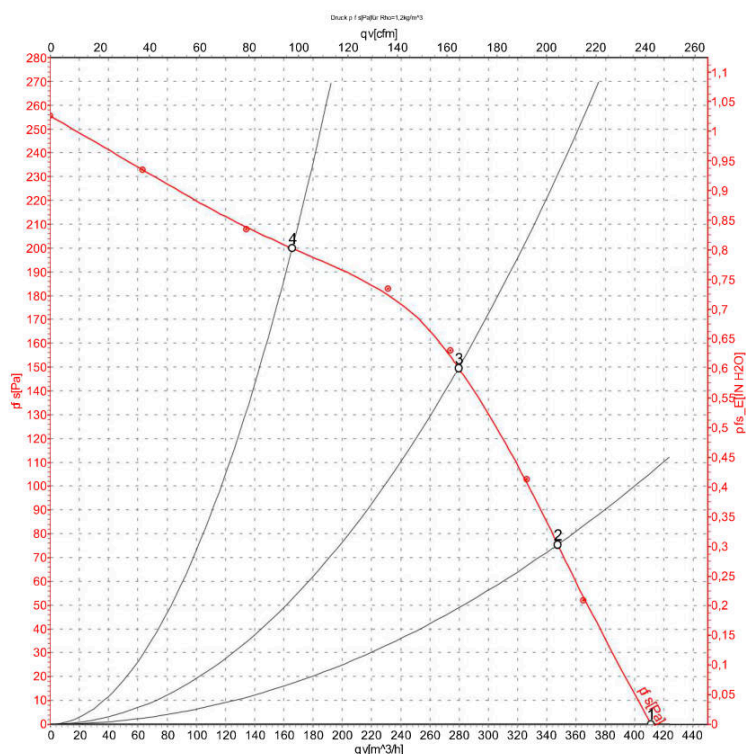


Zdjęcie poglądowe

| Dane znamionowe           |                              | Budowa                 |                 |
|---------------------------|------------------------------|------------------------|-----------------|
| Napięcie znamionowe       | 1~ 230 V                     | Średnica wirnika       | 175 mm          |
| Częstotliwość             | 50/60 Hz                     | Materiał wirnika       | stal ocynkowana |
| Prędkość obrotowa         | 2600 / 2900 obr/min          | Liczba łopatek         | 16              |
| Pobór mocy                | 55 / 65 W                    | Stopień ochrony        | IP44            |
| Pobór prądu               | 0,25 / 0,29 A                | Klasa izolacji         | B               |
| Kondensator               | 1,5 µF / 450 V               | Zabezpieczenie silnika | termik (TOP)    |
| Maks. wydajność           | 410 m³/h                     | Masa                   | 1,32 kg         |
| Maks. ciśnienie statyczne | 200 Pa                       |                        |                 |
| Temperatura otoczenia     | -25...+50 °C (60 Hz: +65 °C) |                        |                 |

## Charakterystyka przepływowa

### Charts: Air flow 50 Hz



Measurement: LU-4742

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L<sub>WA</sub> measured as per ISO 13347 / L<sub>pA</sub> measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).  
Wartości dla 50 Hz / 60 Hz; producent zastrzega możliwość zmian.

### Dobór, wycena i dostawa – zapytaj LUFTBERG

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**R2E175-AC77-05**

# AC centrifugal fan

backward curved, single inlet

## Nominal data

|                               |                   |      |      |
|-------------------------------|-------------------|------|------|
| Type                          | R2E175-AC77-05    |      |      |
| Motor                         | M2E068-BF         |      |      |
| Phase                         |                   | 1~   | 1~   |
| Nominal voltage               | VAC               | 230  | 230  |
| Frequency                     | Hz                | 50   | 60   |
| Type of data definition       |                   | fa   | fa   |
| Valid for approval / standard |                   | CE   | CE   |
| Speed                         | min <sup>-1</sup> | 2600 | 2900 |
| Power input                   | W                 | 55   | 65   |
| Current draw                  | A                 | 0.25 | 0.29 |
| Motor capacitor               | μF                | 1.5  | 1.5  |
| Capacitor voltage             | VDB               | 450  | 450  |
| Min. back pressure            | Pa                | 0    | 0    |
| Min. ambient temperature      | °C                | -25  | -25  |
| Max. ambient temperature      | °C                | 50   | 65   |
| Starting current              | A                 | 0.45 | 0.46 |

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations



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## AC centrifugal fan

backward curved, single inlet

### Technical features

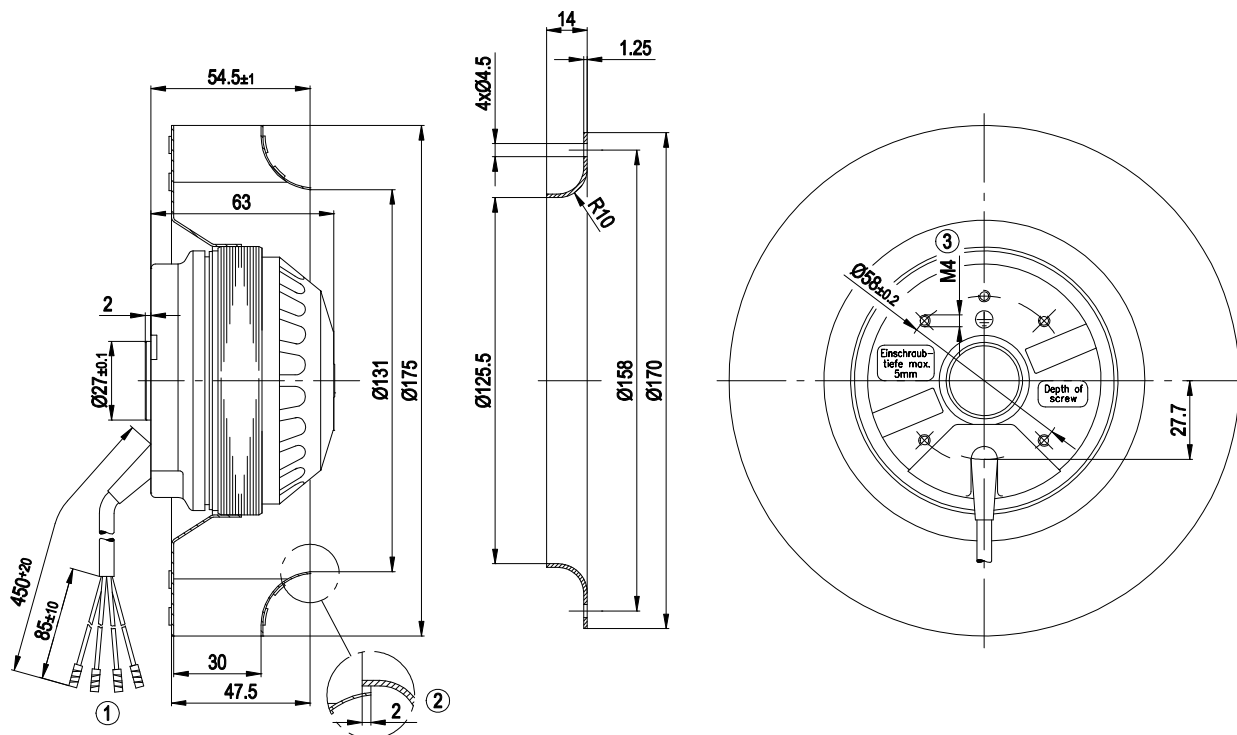
|                                                                    |                                                                 |
|--------------------------------------------------------------------|-----------------------------------------------------------------|
| Mass                                                               | 1.32 kg                                                         |
| Size                                                               | 175 mm                                                          |
| Surface of rotor                                                   | Coated in black                                                 |
| Material of impeller                                               | Sheet steel, hot-dip galvanised                                 |
| Number of blades                                                   | 16                                                              |
| Direction of rotation                                              | Clockwise, seen on rotor                                        |
| Type of protection                                                 | IP 44; Depending on installation and position as per EN 60034-5 |
| Insulation class                                                   | "B"                                                             |
| Humidity class                                                     | F1-2                                                            |
| Max. permissible ambient motor temp. (transp./ storage)            | + 80 °C                                                         |
| Min. permissible ambient motor temp. (transp./storage)             | - 40 °C                                                         |
| Mounting position                                                  | Shaft horizontal or rotor on bottom; rotor on top on request    |
| Condensate discharge holes                                         | Rotor-side                                                      |
| Operation mode                                                     | S1                                                              |
| Motor bearing                                                      | Ball bearing                                                    |
| Touch current acc. IEC 60990 (measuring network Fig. 4, TN system) | < 0.75 mA                                                       |
| Motor protection                                                   | Thermal overload protector (TOP) wired internally               |
| Cable exit                                                         | Variable                                                        |
| Protection class                                                   | I (if protective earth is connected by customer)                |
| Product conforming to standard                                     | EN 60335-1; CE                                                  |
| Approval                                                           | CCC                                                             |

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## Product drawing



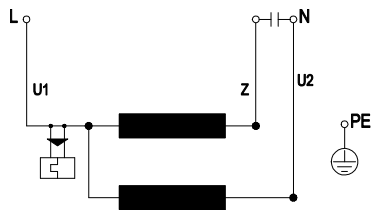
- |   |                                                                                           |
|---|-------------------------------------------------------------------------------------------|
| 1 | Connection line PVC, 4x brass lead tips crimped                                           |
| 2 | Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery |
| 3 | Depth of screw max. 5 mm                                                                  |

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Connection screen

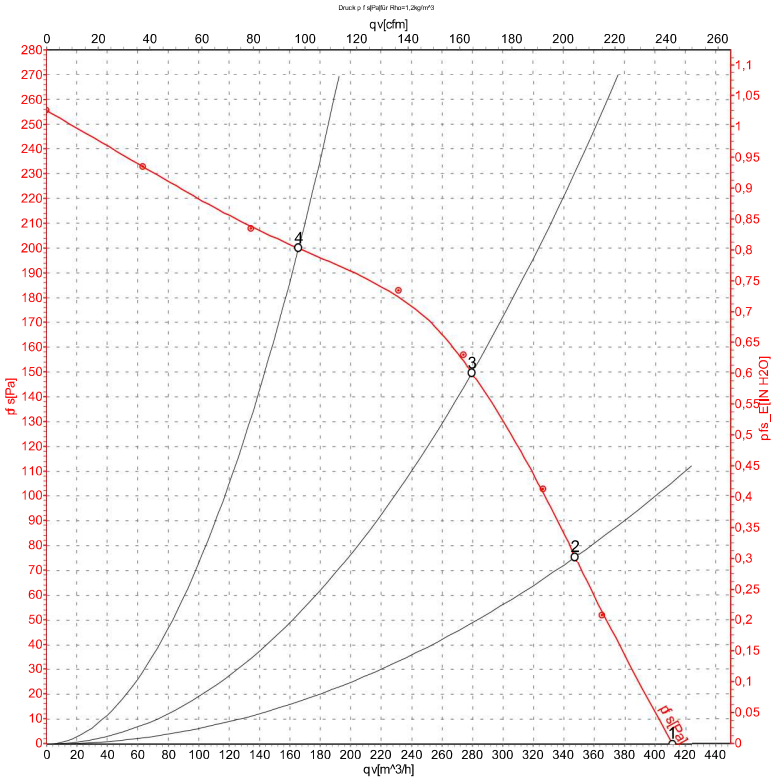


|    |              |   |       |    |       |
|----|--------------|---|-------|----|-------|
| U1 | blue         | Z | brown | U2 | black |
| PE | green/yellow |   |       |    |       |

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AC centrifugal fan  
backward curved, single inlet

Charts: Air flow 50 Hz



Measurement: LU-4742

Air performance measured as per ISO 5801  
Installation category A. For detailed  
information on the measuring set-up, please  
contact ebm-papst. Suction-side noise  
levels: LwA measured as per ISO 13347 /  
LpA measured with 1m distance to fan axis.  
The values given are valid under the  
measuring conditions mentioned above and  
may vary according to the actual installation  
situation. With any deviation from the  
standard set-up, the specific values have to  
be checked and reviewed with the unit  
installed.

Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | qv                | p <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m <sup>3</sup> /h | Pa              |
| 1 | 230 | 50 | 2600              | 55             | 0.25 | 410               | 0               |
| 2 | 230 | 50 | 2580              | 57             | 0.27 | 345               | 75              |
| 3 | 230 | 50 | 2570              | 58             | 0.27 | 280               | 150             |
| 4 | 230 | 50 | 2625              | 56             | 0.27 | 165               | 200             |

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>s</sub> = Pressure increase



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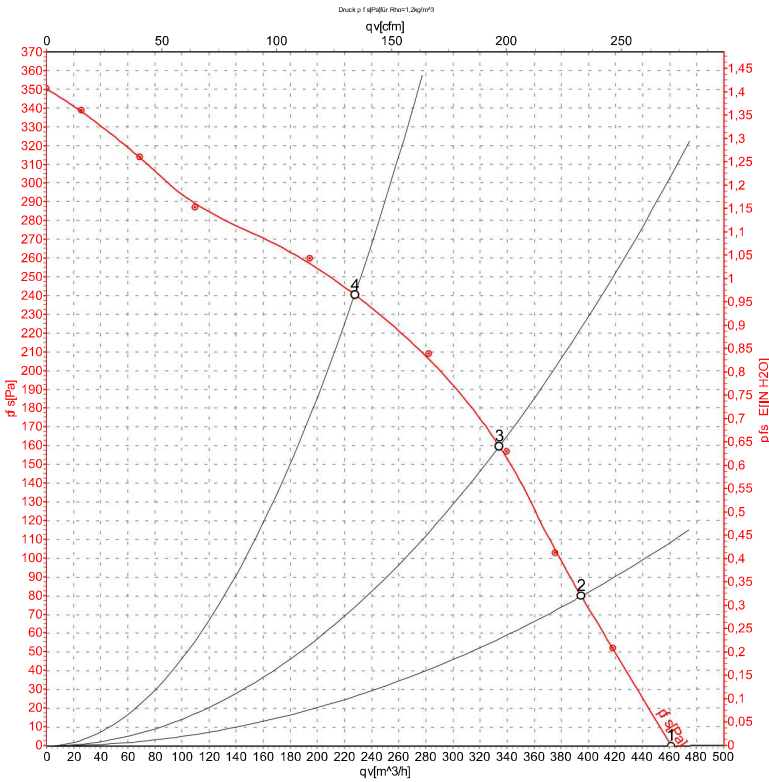
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R2E175-AC77-05

AC centrifugal fan

backward curved, single inlet

Charts: Air flow 60 Hz



Measurement: LU-4739

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L<sub>WA</sub> measured as per ISO 13347 / L<sub>pA</sub> measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | qv   | p <sub>f</sub> |
|---|-----|----|-------------------|----------------|------|------|----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | m³/h | Pa             |
| 1 | 230 | 60 | 2900              | 65             | 0,29 | 460  | 0              |
| 2 | 230 | 60 | 2875              | 69             | 0,30 | 395  | 80             |
| 3 | 230 | 60 | 2855              | 69             | 0,30 | 335  | 160            |
| 4 | 230 | 60 | 2900              | 68             | 0,29 | 230  | 240            |

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>s</sub> = Pressure increase



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