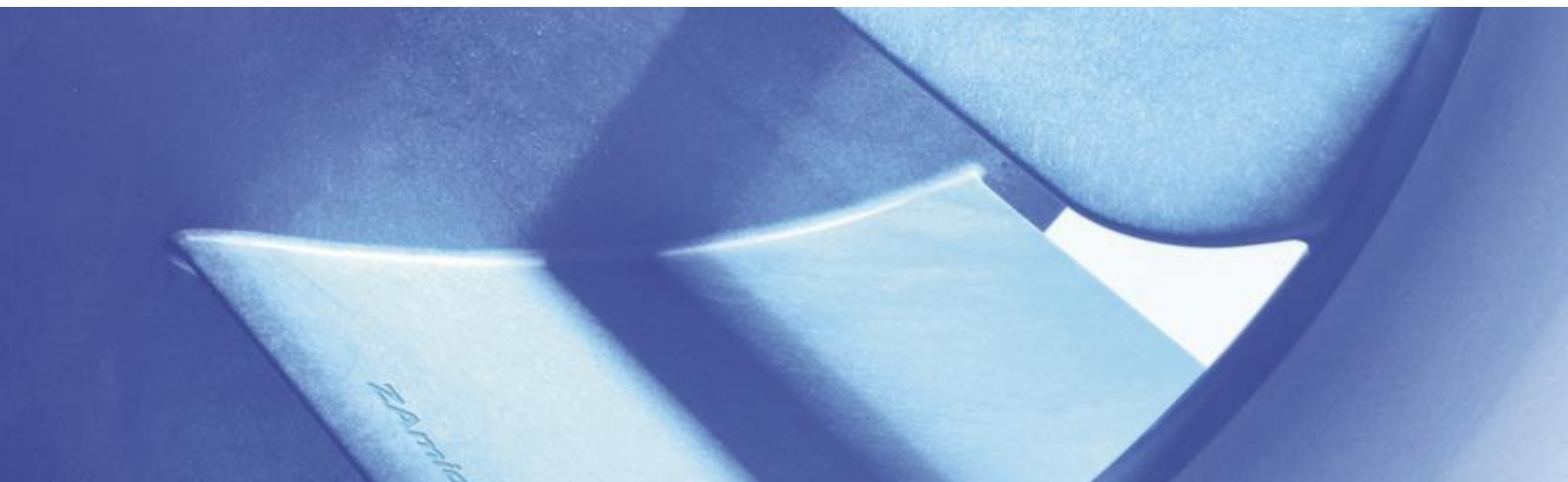


Movement by Perfection



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



[Product documentation](#)

Type

**RD13S-2EP.WC.2R**

Article number

**162802**

Beijing Hengrui Mechanical and Electrical Equipment Co,Ltd

+86 10-62547612

zhangyu@bjhengrui.cn

en.bjhengrui.com

## 1. Product specification - Technical data

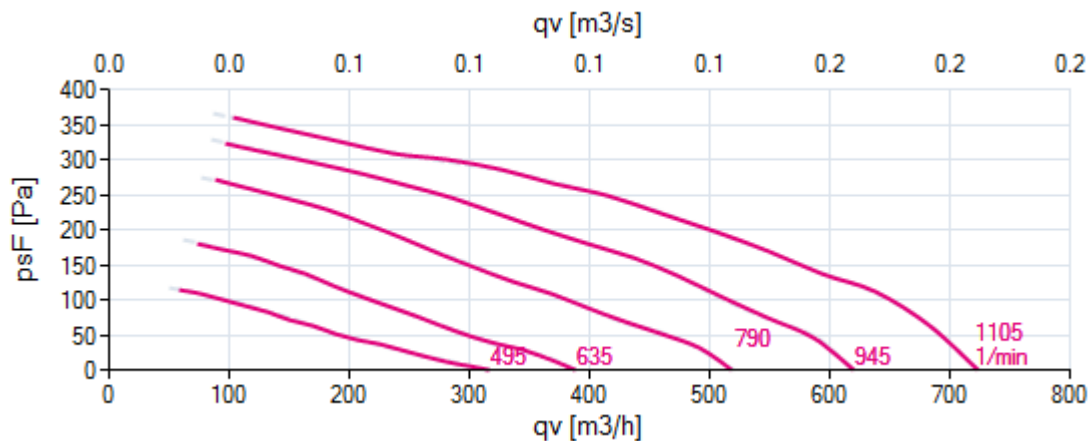
|                            |                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article number             | 162802                                                                                                                                                         |
| Type                       | RD13S-2EP.WC.2R                                                                                                                                                |
| Designation                | Double inlet centrifugal fan with spiral housing.                                                                                                              |
| Rated values               | 1~230V P <sub>1</sub> =150W<br>0.68A ΔI=0% 1110/min 3.5uF/400V 50°C<br>1~230V % 60Hz P <sub>1</sub> 160W<br>0.70A ΔI=0% 1040/min 3.5uF/400V 40°C<br>3.5uF/400V |
| Electrical connection      | Supply cable variable (axial + centrifugal)<br>4x 0,50 mm <sup>2</sup> x 35 cm from housing                                                                    |
| ErP Data                   | Not subject to the regulations of ErP directive (P <sub>1</sub> < 125 W)                                                                                       |
| Min. operating temperature | -20°C                                                                                                                                                          |
| Thermal class              | 155                                                                                                                                                            |
| Type of protection         | IP44 EN60034-5                                                                                                                                                 |
| Connection diagram         | wiring diagram: 1360-177X.                                                                                                                                     |
| Rating plate               | 1x fixed                                                                                                                                                       |
| Motor protection           | thermal contact                                                                                                                                                |
| Condensation holes open.   | closed, bearing plate turned by 120°                                                                                                                           |
| Material impeller          | Impeller made of galvanized sheet metal                                                                                                                        |
| Balance quality            | G 6,3                                                                                                                                                          |
| Weight                     | 4.20 kg                                                                                                                                                        |

## 2. Characteristic Curve

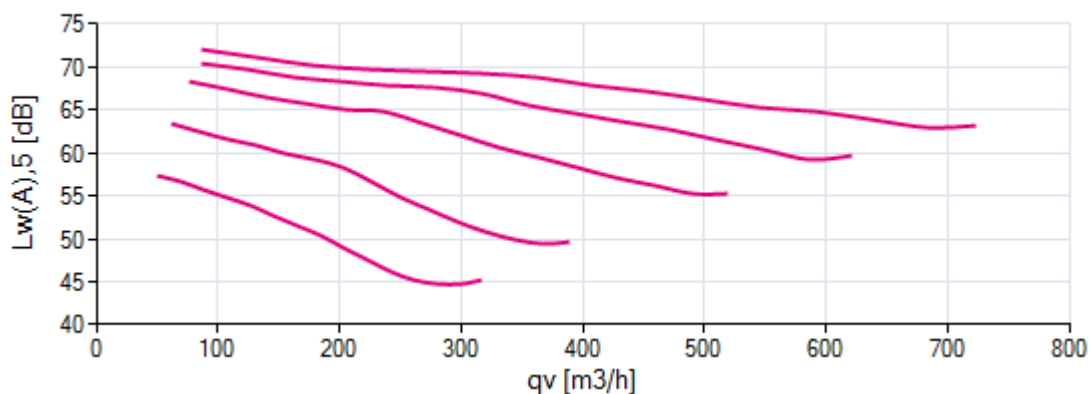
RD13S-2EP.WC.2R  
1~ 230V 50Hz

measured in standard nozzle in installation type A according to ISO 5801  
measurement density 1,16 kg/m<sup>3</sup>

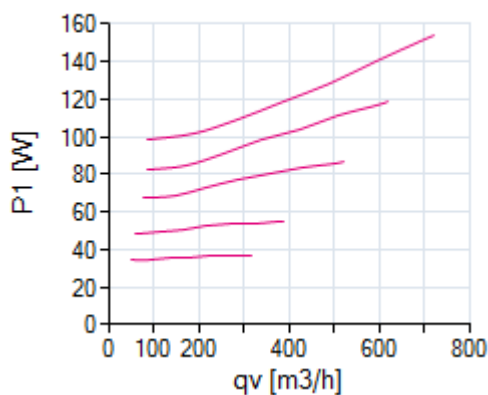
### Air performance



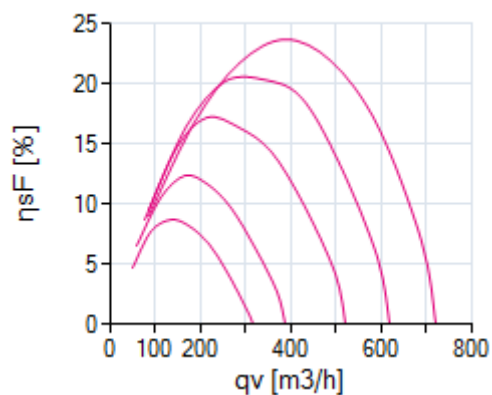
### Acoustics



### Power input



### Efficiency



Please note: It's not allowed to use this fan in the stall area!\*

\*In doubt please ask your responsible ZIEHL-ABEGG sales contact.

[illegible]

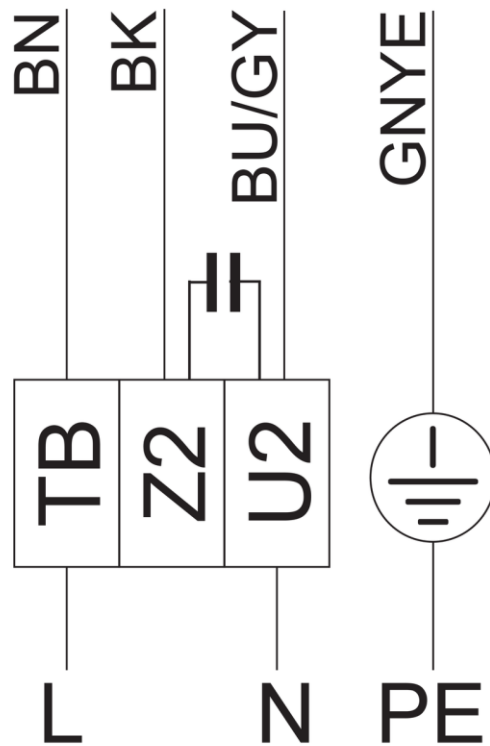
#### 4. Connection diagram

wiring diagram: 1360-177X.

1~ Motor mit Kondensator und  
Thermostatschalter.

1~ motor with capacitor and  
thermostatic switch.

177X-04



BN - braun, brown  
BK - schwarz, black  
BU/GY- blau oder grau, blue or grey  
GNYE - grün-gelb, green-yellow

## 5. EU-Declaration of conformity

### EU declaration of conformity

- Translation -  
(english)

ZA75-GB 2044 Index 016

**Manufacturer:**  
**ZIEHL-ABEGG SE**  
**Heinz-Ziehl-Straße**  
**74653 Künzelsau**  
**Germany**

**The manufacturer is solely responsible for issuance of the declaration of conformity.**

#### The products:

- External rotor motor MK..., MW..
- Axial fan DN..., FA..., FB..., FC..., FE..., FF..., FG..., FH..., FL..., FN..., FS..., FT..., FV..., VN..., VR..., ZC..., ZF..., ZG..., ZN..
- Centrifugal fan ER..., GR..., HR..., RA..., RD..., RE..., RF..., RG..., RH..., RK..., RM..., RR..., RZ..., WR..
- Cross-flow fan QG..., QK..., QR..., QT..

#### The motor type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter
- Electronically commutated internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC controller

#### These products comply with the following EU directives:

- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- ErP Directive 2009/125/EC, in conjunction with Regulation (EU) no. 327/2011

#### The following harmonised standards have been used:

- EN 60034-1:2010 + AC:2010
- EN 60204-1:2006 + A1:2009 + AC:2010
- EN 60529:1991 + A1:2000 + A2:2013 + AC:1993 + AC:2016 + AC:2019
- EN 61000-6-2:2005 + AC:2005
- EN 61000-6-3:2007 + A1:2011 + AC:2012

Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK..., MW..

All ErP-relevant information comprises measurements which are determined using a standardised measurement set-up. More details can be obtained from the manufacturer.

Compliance with the EMC Directive 2014/30/EU refers only to those products when they are connected by mounting / operating instructions. If these products are integrated into a system or supplemented with other components (e.g. sensing controls) and operated, the manufacturer or operator is responsible of the overall system for compliance with the EMC Directive 2014/30/EU.

Künzelsau, 28.10.2020  
(location, date of issue)

ZIEHL-ABEGG SE  
Dr. W. Angelis  
Head of Technics Ventilation Technology  
(name, function)

(signature)

ZIEHL-ABEGG SE  
Dr. D. Kappel  
Head of Electrical Systems  
(name, function)

(signature)

**ZIEHL-ABEGG**

## EC Declaration of Incorporation

- Translation -  
(english)

ZA87-GB 2044 Index 009

as defined by the EC Machinery Directive 2006/42/EC, Annex II B

### The design of the incomplete machine:

- Axial fan DN., FA., FB., FC., FE., FF., FG., FH., FL., FN., FS., FT., FV., VN., VR., ZC., ZF., ZG., ZN..
- Centrifugal fan ER., GR., HR., RA., RD., RE., RF., RG., RH., RK., RM., RR., RZ., WR..
- Cross-flow fan QD., QG., QK., QR., QT.,

### Motor type:

- Asynchronous internal or external rotor motor (also with integrated frequency inverter)
- Electronically commutated internal or external rotor motor (also with integrated EC controller)

complies with the requirements in Appendix I, Articles 1.1.2, 1.1.5, 1.4.1, 1.5.1 in EG Machinery Directive 2006/42/EG.

### The manufacturer is

ZIEHL-ABEGG SE  
Heinz-Ziehl-Strasse  
D-74653 Künzelsau

### The following harmonised standards have been used:

|                                     |                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| EN 60204-1:2006 + A1:2009 + AC:2010 | Safety of machinery; electrical equipment of machines; Part 1: General requirements                                                                      |
| EN ISO 12100:2010                   | Safety of machinery - General principles for design - Risk assessment and risk reduction                                                                 |
| EN ISO 13857:2008                   | Safety of machinery; safety distances to prevent danger zones being reached by the upper limbs                                                           |
| Note:                               | The maintenance of the EN ISO 13857:2008 relates only to the installed accidental contact protection, provided that it is part of the scope of delivery. |

The specific technical documentation in accordance with Appendix VII B has been written and is available in its entirety.

The person authorised for compiling the specific technical documentation is: Dr. W. Angelis, address see above.

The specific documentation will be transmitted to the official authorities on justified request. The transmission can be electronic, on data carriers or on paper. All industrial property rights remain with the above-mentioned manufacturer.

**It is prohibited to commission this incomplete machine until it has been secured that the machine into which it was incorporated complies with the stipulations of the EC Machinery Directive.**

Künzelsau, 28.10.2020  
(location, date of issue)

ZIEHL-ABEGG SE  
Dr. W. Angelis  
Head of Technics Ventilation Technology  
(name, function)



(signature)

ZIEHL-ABEGG SE  
Dr. D. Kappel  
Head of Electrical Systems  
(name, function)



(signature)

ZIEHL-ABEGG 