



M PLUS M Frąszczak M. Kruk E. Sp. J.
Obłazkowo 148, 62-300 Września
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OPERATION AND MAINTENANCE MANUAL

Exhaust fan **R2E 180-CG82-05 (KOND)**

Exhaust fan **R2E 180-CG82-12 (KOND)**

1. Technical specification

Motor manufacturer:	ebmpapst
Motor type:	M2E 068-CF
Max Air Pressure:	320 Pa
Max Air Volume:	450 m ³ /h
Speed:	2530 rpm
Input Power:	68 W
Input Voltage:	230 V~ 50 Hz
Capacitor:	2 µF
Max. temp. of transp. air:	up to +250°C
Weight:	2.30 kg

2. Technical description

This fan consists of galvanized steel mounting plate to which the external rotor motor.

In the -05 version, the outer rotating part of the engine is protected by a steel cover with ventilation holes.

In the -12 version, the outer rotating part of the engine is not protected by a cover. The motor is equipped with corrosion resistant, backward curved impeller.

3. Applications

The fan is designed for extracting (removing) flue gas from central heating boilers or fireplaces. It can also be used for exhaust or blowing hot air up to +250°C. Permissible ambient temperature is -25°C do +85°C.

It is not designed to work as a standalone device.

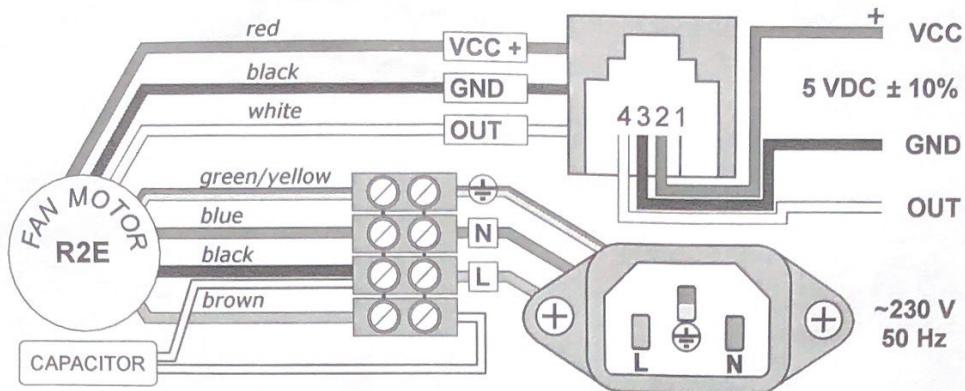
4. Installation of the fan.

The fan can be mounted directly on the flue (smoke conduit) of a boiler or a fireplace. The assembly method should take into account the possibility of cleaning the fan.

WARNING! After mounting, there must be no access to the rotating part of the fan.

5. Connecting diagram

The fan has single-phase induction motor with a capacitor.
It's also equipped with Hall Sensor IC.



Mains connecting cable should be 3 x 0.75 mm² in cross-section area (3x20 AWG). Qualified personnel only should connect the fan.

6. Exploitation and maintenance

To ensure fail-free operation, the following has to be done at least once a year (depending on dust levels):
check electrical installations,
carefully clean the fan blades and the protecting grill.

The fan should be disassembled before cleaning the dirty fan blades. This should be done by qualified personnel only.

7. Safety instructions

- 7.1. Electrical installation has to be made according to the applicable rules.
- 7.2. The fan is not designed to circulate high-dust air, steam, corrosive or explosive gases.
- 7.3. Execution of any work can be carried out at the fan only when the power supply is disconnected and by qualified personnel.
- 7.4. Assembly of the fan to other device has to protect and prevent access to the rotor.

DECLARATION OF CONFORMITY EC



The Manufacturer of the Products covered by this Declaration is:

M PLUS M Frąszczak M. Kruk E. Sp.J.

Address: Obłazkowo 148; 62-300 Września, Poland

Tel.: +48 61 4374920 Fax: +48 61 4374922

Fan series: WPA..., WPB..., WW..., WCP..., CMB..., G2E..., R2E..., R2D..., RF2C..., RR...,

equipped with asynchronous (or electronically commutated), commutated DC,
internal or external rotor motor,

are developed, designed and manufactured in accordance with the EC Directives:

2014/35/EC Low Voltage Directive (LVD)

2014/30/EC Electromagnetic Compatibility Directive (EMC)

2009/125/EC Directive establishing the requirements for energy-related products (ErP).

Conformity is declared to following standards (applicable to built-in components):

EN 60034-1:2010 + Corr:2010

Rotating electrical machines
Part 1: Rating and performance

EN 60204-1:2007 + A1:2009
+ Corr:2010

Safety of machinery - Electrical equipment of machines -
Part 1: General requirements

In case the fan or rotor is installed as part of a larger system, it is the responsibility
of the assembler of said system to ensure the compatibility with the directives.

Signed:

Date: 2018-02-04

Marzenna Frąszczak
(owner)

Edward Kruk
(owner)



The **Waste Electrical and Electronic Equipment Directive** (WEEE Directive) is the European Community directive 2002/96/EC on waste electrical and electronic equipment (WEEE) Waste equipment. This symbol indicates that when the end-user wishes to discard this product, it must be sent to separate collection facilities for recovery and recycling. By separating this product from other household-type waste, the volume of waste sent to incinerators or land-fills will be reduced and natural resources will thus be conserved.

WARRANTY



Fan type:

R2E 180-CG82-05
R2E 180-CG82-12

Motor type:

M2E 068-CF

Producer / Manufacturer stamp:	
 P. US MIM SPÓŁKA JAWNA M PLUS M Frażczak M. Kruk E. sp.j. OBŁACZKOWO 148, 62-300 Września tel. (061) 437-49-20, fax 437-49-22 NIP 783-00-07-027, REGON 630151518	

Date of manufacture:	Distributor / Seller stamp:
July 2025	
Date of sale:	

Notes:

Warranty terms:

- 1. Producer** M PLUS M company ensures good quality and proper operation of the fan when used according to the rules given in that manual.
2. Warranty period is 2 years from purchase date, not longer however than 3 years from manufacturing date.
3. The **Distributor (Seller)** is obliged to free warranty repair within 14 days from date of delivery of the fan to **Distributors (Seller) site**.
4. The **Distributor (Seller)** returns cost of shipping of the fan with economy parcel within warranty period.
5. Jurisdiction for all disputes is the local (Polish) court competent for the company M PLUS M, after exhausting amicable ways of resolving the case.
6. Loss of warranty rights in case of:
 - installation and application not according to this manual
 - mechanical damage
 - delivering for repair incomplete or being improperly repaired or machined fan
7. This warranty is void without date and stamp of sale, or changed by unauthorised personnel.