

## 1. Technical specification FAN TYPE WPA 120

Motor Manufacture:	ebmpapst	Soler&Palau
Motor type:	R2E 120-AR38-40	RF2C 129/062 K010
Max Air pressure:	360Pa	
Max Air volume:	285 M <sup>3</sup> /H	
Speed:	2500 rpm	2300 rpm
Input power:	83 W	75 W
Input Voltage:	230 V ~ 50 Hz	
Capacitor:		2 µF
Weight:		2.10kg

## 2. Technical description

This fan is made of two parts aluminum cast housing with external rotor motor with forward curved impeller. Terminal box.

Integrated inlet is equipped with protecting grill. Outlet flange has mounting holes.

## 3. Applications

Centrifugal fan is applied for blowing combustion air in central heating boilers, as well as for circulation of low-dust air of ambient temperature -25 C do +40 C. It is not designed to work as a standalone device.

## 4. Installation of the fan.

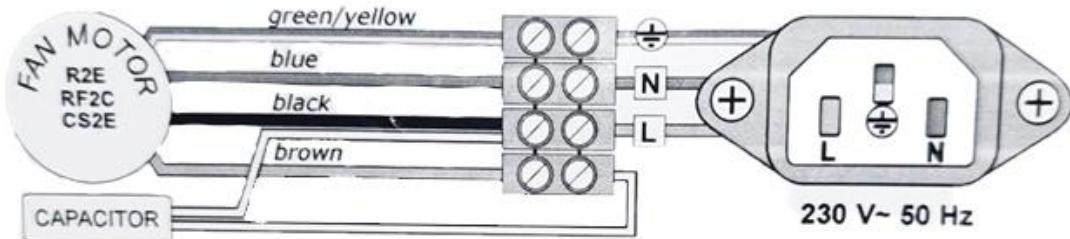
The fan can be mounted using mounting flange (M5 or M6 screws). Recommended working position-motor shaft in a horizontal position.

Warning: The fan rotor has sharp blades.

No access to the rotor should be possible after assembly on boiler or other device.

## 5. Connecting diagram

The fan has single – phase induction motor with capacitor.



Connecting cable should be 3x 0.75 mm<sup>2</sup> 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.

## 8. Flap (chimney draft controller)

Depending on the position of fan assembly on the boiler, for the proper operation of the flap, and adjustment of weight mounting position relative to the axle of flap is required.

The adjustment we start from:

- The selection of the position of the fan mounting (I, II or III)
- Then loose the M5 screw that secures the weight on the axle of the flap.
- Then grab the axle with fingers and set a flap in the fully open position (dashed line in the figure)
- Still holding the axle, set the weight in the manner shown underneath
- Then tighten the M5 screw that secures the set
- Now we can release the axle
- After setting the set you can still adjust the closing force of the flap by moving M 10 nuts on the thread.

