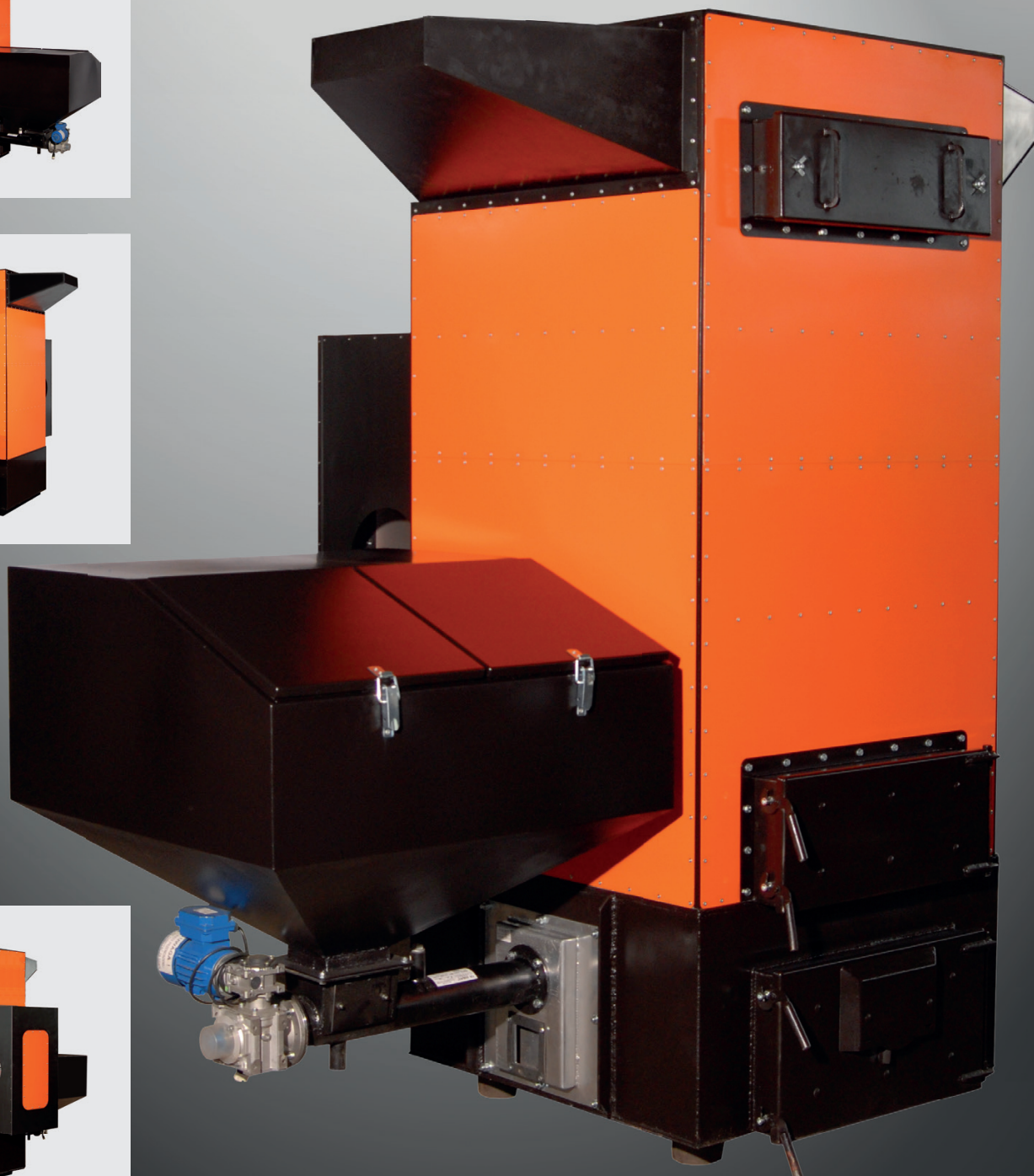


# robust<sup>®</sup> furnace of type C with a burner

Forced air furnace



# Robust furnaces of type C with a burner

## CHARACTERISTICS

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- Upper combustion furnace,
- Furnace – boiler plate of the thickness of 8 mm,
- Fuel – crushed coal, fine coal, pellet, grain seeds,
- Air for heating the room is taken from the hall's bottom part, pressed by a furnace exchanger and then distributed with air transporting channels – ITP,
- There is a possibility to install the furnace within a set of dust collector filters and to heat up the air which returns to the hall.

## VERSION OF A ROBUST FURNACE OF TYPE C WITH A BURNER

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The furnaces are manufactured in the following sizes: 38-60kW, 75-90kW, 100-150kW and marked as furnaces of the following types:

**Cp-45 PU, Cp-80 PU, Cp-150 PEG**

## ADVANTAGES

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- Heat felt from the moment of furnace activation,
- Great economy of heating costs in comparison with other solutions,
- No central heating installation or losses in conveying of hot air,
- Compact, module, modern construction,
- Simple operation and high efficiency,
- Self-cleaning exchanger set vertically,
- Long life cycle of the device,
- No corroding factor in the exchanger and installation,
- Chimney draught forced by the turbine allows for locating the furnace in any part of the hall without the need to build a high chimney,
- Furnace is equipped with an automatic fuel feeder,
- In summer period the furnace may serve as an **air-conditioner**,
- The furnace does not require a specialist room (**boiler room**),
- No obligation of carrying out of specialist tests – **UDT**.

## OPERATION

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The furnace operation is fully automatic and there is possibility to co-operate with a controller installed within the room. The operation is limited only to the process of manual fuel loading and maintenance of the device. Mechanical loading is also possible.

## TECHNICAL DATA

| Robust furnace                             |  | Type              | Cp-45 PU                          | Cp-80 PU                          | Cp-150 PEG                          |
|--|--|-------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| Device power*                              |  | kW                | 38-60                             | 75-90                             | 100-150                             |
| Maximum temperature of air supply**        |  | °C                | 80                                | 80                                | 80                                  |
| Chimney conduit                            |  | mm × mm           | 140 × 140                         | 180 × 180                         | 220 × 220                           |
| Chimney diameter                           |  | mm                | 133                               | 160                               | 200                                 |
| Capacity of the container of constant fuel | hard coal, pellet, grain seeds                     | kg                | 150                               | 250                               | 500                                 |
| Amount of heated air                       |  | m <sup>3</sup> /h | 1800                              | 2900                              | 5200                                |
| Diameter of pipes transporting hot air     |  | mm                | 2 × Ø250                          | 2 × Ø300                          | 2 × Ø400                            |
| Size                                       | width / outlets<br>height / flap<br>depth / filter | mm<br>mm<br>mm    | 630/1350<br>1970/2600<br>630/1130 | 750/1580<br>2350/3100<br>750/1250 | 1000/2100<br>2520/3370<br>1050/1650 |
| Mass                                       |  | kg                | 270                               | 350                               | 650                                 |
| Chimney height                             |  | m                 | 5.0                               | 5.5                               | 6                                   |
| Required chimney draught                   |  | Pa                | 30                                | 30                                | 30                                  |
| Motor of the gas combustion fan            |  | kW                | 0.18                              | 0.18                              | 0.25                                |
| Supply voltage                             |  | V                 | 230                               | 230                               | 230                                 |
| Motor of the main fan***                   |  | kW                | 2.2                               | 1.5                               | 4                                   |
| Supply voltage                             |  | V                 | 400                               | 400                               | 400                                 |

\* Device power depends on the quality and energy value of the fuel used in the device.

\*\* The temperature of air supply depends on calorific value of fuel and applied heat exchanger. The table contains maximum temperature of air supply.

\*\*\* Motor power depends upon the diameter and length of the air transporting channels. The table contains maximal motor power.

PU – Universal burner (pellet, eco-pea coal)

PEG – Eco-pea coal burner

## DEVICE EFFICIENCY

Size of surface to be heated

| Robust furnace     | Type             | Cp-45 PU | Cp-80 PU | Cp-150 PEG |
|--------------------|------------------|----------|----------|------------|
| Surface            | m <sup>2</sup>   | 200–250  | 350–450  | 750–1000   |
| Cubature           | m <sup>3</sup>   | 800      | 1400     | 3000       |
| Energy requirement | W/m <sup>3</sup> | 50       | 50       | 50         |

## FUEL CONSUMPTION

Estimated fuel consumption depends upon the following:

- External temperature,
- Thermal permeability of the building walls,
- Frequency of gate opening,
- Amount of air pumped out of the hall via pneumatic transport,
- Fuel calorific value.

## WARRANTY

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- We hereby grant a 5-year guarantee on subassemblies manufactured by our company.
- The contractor undertakes to fulfil its obligations under the guarantee within:
  - 7 working days form the date it is confirmed (via electronic mail or fax) that the relevant spare part necessary to remove the defect is available on the territory of the Republic of Poland,
  - 14 working days form the date it is confirmed (via electronic mail or fax) that the relevant spare part necessary to remove the defect is available on the territory of the European Union,
  - 28 working days form the date it is confirmed (via electronic mail or fax) that the relevant spare part necessary to remove the defect is available outside the territory of the European Union.

## PRICE LIST

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**In order to obtain information about the prices, please contact us at the following phone number:  
+48 604 47 62 14**

- Upon a client's demand, we prepare a project design and a specification of the air distributing installation (**ITP**) against payment.
- We provide assistance in the purchase of fittings (**ITP**) as well as in the installation assembly.