

# robust<sup>®</sup> furnace of type D

Forced air furnace



**robust24.eu**

Available in the following colours

Ral 5005

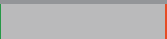
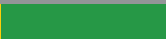
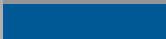
Ral 4006

Ral 1023

Ral 6018

silver

Ral 2004



# Robust furnaces of type D

## CHARACTERISTICS

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- Upper combustion furnace,
- Furnace chamber is lined with a ceramic lining,
- Fuel – wood in pieces briquette, pellet (sawdust, chips in 20% of the filling mass),
- 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**.

## VERSION OF A ROBUST FURNACE OF TYPE D

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The furnaces are manufactured in the following sizes: 25 kW, 35 kW, 45 kW, 60 kW and marked as furnaces of the following types:

**D-25, D-35, D-45, D-60**

## 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,
- Long life cycle of the device,
- No corroding factor in the exchanger and installation,
- 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. It is limited only to the process of manual fuel loading and maintenance of the device.

## TECHNICAL DATA

Robust furnace		Type	D-25	D-35	D-45	D-60
Device power		KW	25	35	45	60
Maximum temperature of air supply*		°C	80	80	80	80
Chimney conduit		mm × mm	160 × 160	180 × 180	200 × 200	220 × 220
Chimney diameter		mm	180	180	200	250
Capacity of the container of fuel		L	45	60	90	120
Amount of heated air		m <sup>3</sup> /h	800	1000	1200	1400
Diameter of pipes transporting hot air		mm	4 × Ø160	4 × Ø180	3 × Ø220	3 × Ø250
			Ø300	Ø350	Ø400	Ø450
Size	width	mm	710	780	860	980
	height	mm	1416	1560	1700	2000
	depth	mm	1160	1200	1300	1650
Mass		kg	400	500	600	750
Chimney height		m	6	6	6	6
Required chimney draught		Pa	30	30	30	30
Motor of the combustion gas fan**		kW	0.15	0.15	0.19	1.1
Supply voltage		V	230	230	230	230
Motor of the auxiliary fan		kW	0.075	0.075	0.075	0.075
Supply voltage		V	230	230	230	230

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

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

## DEVICE EFFICIENCY

Size of surface to be heated

Robust furnace	Type	D-25	D-35	D-45	D-60
Surface	m <sup>2</sup>	120-170	170-230	230-300	300-400
Cubature	m <sup>3</sup>	500	700	900	1200
Energy requirement	W/m <sup>3</sup>	50	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.