

Wood burning stove

General information

This manual contains details on the construction, operation, installation and handling of the JAD TOOLS Wood burning stove. If the user does not comply with the instructions specified in the manual, it will lead to loss of the warranty!

The manufacturer ensures that the device meets any requirements provided for in PN-EN 13240:2008 standard and has the CE certificate of conformity.

The heater is intended for heating of utility and storage rooms. The only recommended fuel to be used with the heater should be firewood of deciduous trees with humidity not exceeding 20%.

It is advised that the connection of the heater to the flue duct and its first use should be performed by a qualified fitter. The device is characterized by periodical combustion of fuel. During its operation, it can become hot and still maintain the temperature long after being extinguished. That is why it should always be operated while wearing protective gloves. During its operation, do not leave children near the heater without the supervision of an adult.

Technical specification of the device

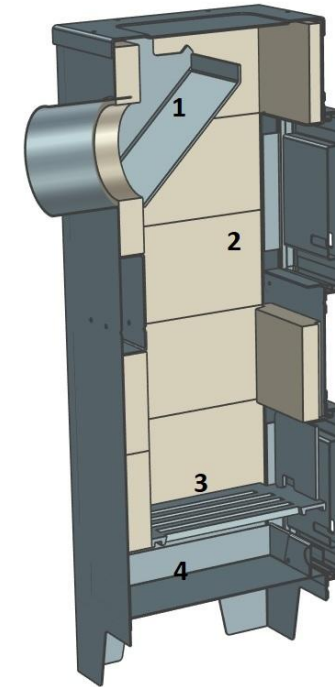
Model	Dimensions W/L/H [mm]	Outlet diameter [mm]	Weight [kg]	Power [kW]	Performance [%]	CO content in exhaust [%]	Exhaust temperature [°C]	Fuel feed [kg]	Chimney draught [Pa]
JAD TOOLS Wood burning stove 6kW	280/390/770	120	40	6	85.6	0.061	<400	1.4	12

Combustion parameters with reference to EC Regulation 2015/1185

Model	Particulate matter [PM at 13% O ₂]	Carbon monoxide [CO at 13% O ₂]	Organic gaseous compounds [OGC at 13% O ₂]	Nitrogen oxides [NO _x at 13% O ₂]	Seasonal energy efficiency
JAD TOOLS Wood burning stove 6kW	mg/m ³	mg/m ³	mg/m ³	mg/m ³	%
	20.6	759	31	54	75.6

Installation manual

Before starting the assembly, make sure that the device has all the accessories and did not get damaged during the transport.



Before starting the first fire, check the completeness of the device:

- 1 – deflector (it should be pushed close to the back wall of the furnace!),
- 2 – fireclay plate,
- 3 – grate,
- 4 – ash pit.

Technical conditions of the room in which the heater will be installed must be in compliance with the Ordinance of the Minister of Infrastructure of 12 April 2002 on technical conditions which must be fulfilled by buildings and their location, Polish Journal of Laws no. 75 item 690 dated 15 June 2002.

The room in which the device will be located should be facilitated with proper supply-exhaust gravity ventilation that must not cause formation of negative pressure. The supply of air for combustion and ventilation must be unobstructed. The available supply of air to the room should be at least 10 m³/h per 1 kW of nominal thermal input. Air intake grills should be constructed in such a way that they will not close on their own or get blocked. If there are several heating devices installed in the room, the supply-exhaust installation must be constructed in such a way that it will guarantee sufficient amount of air for combustion and ventilation for all the devices.

PRODUCT DATA SHEET

Supplier's name:	J.A.D. TOOLS s.r.o. Uničovská 1324/21 784 01 Litovel the Czech Republic
Model identifier:	JAD TOOLS Wood burning stove 6kW
Equivalent models:	-
Energy efficiency class:	A+
Direct thermal input:	6 kW
Indirect thermal input:	<i>Not Applicable</i>
Energy efficiency index:	114
Operating efficiency at nominal thermal input:	85%

Any information regarding precautions that must be applied during the assembly, installation and maintenance of the space heater have been provided in the manual.

The location of the heater should ensure easy access to the device for handling and maintenance. The surface on which the device will be standing must have proper load-bearing capacity and must be made of non-flammable material. If there is flammable floor directly in front of the doors of the furnace, secure the floor with a slab of non-flammable material reaching 50cm from the front and 30cm beyond the door edges. The said device and its connection pipes should be located at least 1.5m from any flammable or exposed structural elements of the building or other materials that could be destroyed through contact with hot air.

NOTE! The device must NOT be connected to a flue duct to which another heating device has already been connected.

The chimney that the device will be connected to must be tight and ensure draught not lower than 10Pa. The heater must be connected to the chimney with a non-thermally-insulated connector made of heat-resistant steel and with length of approx. 1.5 m. Pipes must overlap according to the draught direction while their connection must be tight. If angle joints are used, they must be equipped with tightly closed inspection holes. Do not insert the pipes/connector too deeply into the chimney since it poses the risk of blanking off the flue duct, which will reduce the draught. The cross-section of the flue duct should be the same throughout the entire length and must not have any rapid narrowing or changes in the direction of exhaust flow.

User's manual

Fuel

The recommended fuel for the burner is **firewood of deciduous trees with humidity not exceeding 20%** (such humidity corresponds to cleft wood held for approx. 2 years in a well-ventilated place under shelter). The furnace feed should consist of 2 "standing" chunks of wood with height of approx. 15 cm and total weight according to the table - Fuel loading. It is recommended that the distance between the furnace feed and the combustion chamber should be at least 3 cm.

NOTE! Exceeding the specified fuel batch will increase emission of carbon monoxide and the temperature of exhaust, which may pose a direct threat to the user's health. Do not use waste, plastics, flammable substances, bituminous coal or wet wood for burning.

Starting the fire

During the first uses, the heat-resistant paint that the heater is covered with will sinter, which may generate an unpleasant smell of burning paint coat. The room must be properly ventilated. The unpleasant smell should disappear after several initial uses.

The exhaust damper of the heater should be set in a fully open position. Put several small split logs onto the grate and set them on fire using paper or lumps of a special fire starter.

NOTE! Do not use flammable liquids. Vapor from a flammable liquid might form an explosive mixture.

Next, when the batch of wood is completely burned, put another 2-3 split logs onto the layer of glow and wait until they are completely burned in order to cover the glow with another sufficient batch of wood (table - Fuel loading).

When opening the doors to add fuel, make sure that no burning elements fall out of the heater.

To change the primary/secondary air, use the adjustable damper located in the upper/lower door.

NOTE! The secondary air damper can be opened only when starting the fire, when the doors are closed and the flame is inside the combustion chamber. In case of burning with nominal power, the damper should remain closed. Opening the damper may lead to a rapid increase of the temperature of exhaust (even up to about 500 °C) and faster combustion of fuel.

Burning method

1. open the exhaust damper,
2. put a proper amount of wood on the layer of glow (table),
3. open the primary air inlet until flames cover the loaded fuel,
4. when the batch is covered in flames, fully close the primary air inlet and the exhaust damper (if available) and maintain the same conditions until the whole batch is completely burned out.

Fire safety

In order to use the heater safely:

1. do not subject the device to excessive heat strain,
2. install a CO (carbon monoxide) detector in the room,
3. keep a fire extinguisher in an easily accessible place.

In case of ignition of soot in the chimney:

1. extinguish the furnace by removing the glow and the fuel,
2. close the supply of air to the burner (do not open the doors!),
3. evacuate people and animals that are in the room,
4. if necessary - call the fire department,
5. observe whether the nearby flammable objects did not catch fire from the overheated chimney pipe or sparks.

Cleaning and maintenance

It is recommended to inspect and clean the heater, its connector, ash pit and the chimney on a regular basis. What is more, the chimney and flue ducts should be inspected and cleaned from time to time (at least once a year) by a chimney sweep.

The device must be handled with care and protected against mechanical damage.

Any modifications in the construction or appearance of the furnace shall lead to loss of the warranty! During eventual repairs, use only original spare parts of the manufacturer.

The glass pane of the heater (if equipped) should be cleaned with a damp cloth and, if necessary, with special-purpose agents, only when the device is cool. It is recommended to clean the surface of the furnace dry, with a soft brush. Wet cleaning is forbidden since the paint that the device is covered with is not resistant to rust. In order to avoid condensation and possible corrosion when the device is unused for a longer period (e.g. in summer), clean any ashes and fuel residues. The doors must be slightly opened and valves set in open position.

Recycling of the heater

Once the period of suitability for use expires, individual elements of the heater must:

1. steel – be handed over to a local recycling station,
2. cast iron - be handed over to a local recycling station,
3. fireclay plates – be placed in standard containers for waste segregation,
4. glass (if present) – be placed in standard containers for waste segregation.

TERMS AND CONDITIONS OF THE WARRANTY

1. The device is covered with a 2-year warranty.
2. The warranty shall cover only manufacture and material defects. The manufacturer guarantees proper functioning of the device provided that installation and exploitation rules described in this manual are respected.
3. Any defects arising from the purchaser's ignorance shall not be covered by the warranty. That is why the purchaser shall be obligated to visually examine the purchased device in the presence of a seller or driver of the transport company.
4. The warranty shall not cover mechanical damage that occurred during the transport of the heater from the seller to the Customer.
5. The warranty shall not cover circumstances of force majeure independent from conditions of exploitation (flood, fire, etc.).
6. The warranty shall not cover replacement or repairs of parts that are subject to natural wear, such as: fireclay plates, the vermiculite, sealing cords, the grate, the deflector and the internal cast-iron walls.
7. The warranty shall not cover any deformation of the heater arising from operation at high temperature where such deformations do not affect its functionality.
8. The warranty shall not cover damage to glass panes as well as discoloration of the paint on the device.
9. The warranty shall not cover breakdowns resulting from improper exploitation, assembly or use.
10. The warranty shall not cover defects resulting from usage of improper furnace fuel.
11. In case of a complaint, the purchaser shall be obligated to deliver to the point of sales a filled in warranty card along with a copy of the proof of purchase and a detailed description of the defect (including the manner and time of its occurrence).
12. The manufacturer shall obligate to take any necessary measures to respond to the received complaint within 14 working days from the submission of the complaint and to remove any defects as quickly as possible. However, the above-mentioned period can be extended if it is necessary to import or produce specific replacement parts.

Seller [stamp and signature]	Model:	Fitter [stamp and signature]
	Purchaser's details:	
Date:	Date of purchase:	Date: