

OPOP spol. s r.o.

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HOT-WATER BOILER H 730 Pyro

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The design and surface finish of steel hot-water boiler H 730 predispose it for storey and central heating of family houses, with a maximum hydrostatic height of 20 m. This model enables burning of solid fuels, i.e. brown coal and wooden pellets by pyrolytic method, i.e. gasification of fuel on a grate and subsequent combustion of produced gas in a firebrick lined combustion chamber.

Note: Wood is only a substitute fuel which does not guarantee achievement of full boiler performance, especially large pieces are used.

A) Technical Specification

The front boiler section is formed by a fuel container with a hinged stoking door. The actual boiler body is welded from steel sheets. From a top view it is divided into three sections:

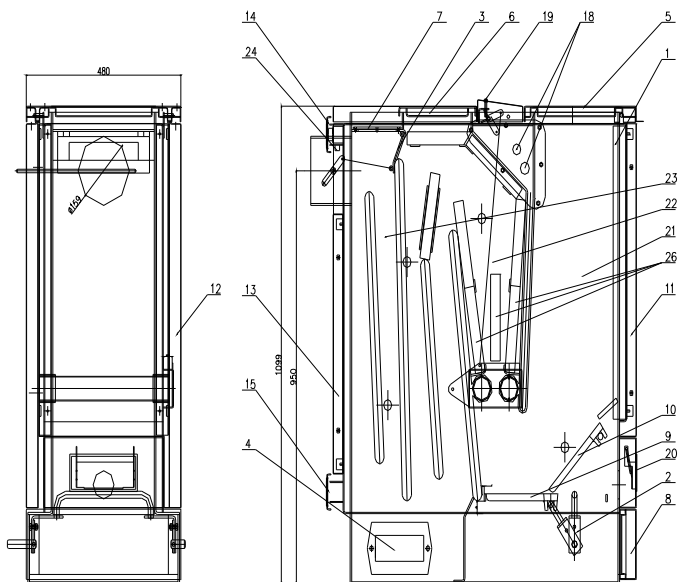
- The front section behind the front wall houses the hopper shaft.
- The central section contains the combustion chamber, which has a firing flap on top, providing for direct exhaust of combustion gases into the flue throat, for easier boiler lighting and to facilitate purging of hopper of gases produced by burning fuel prior to addition of fuel.
- The rear boiler section holds a hot-water exchanger where combustion gases flow underneath the bottom edge of the last partition and rise into the flue throat.

The fire grate is fitted with a sliding cascade-shaped grate controlled by a lever on the side of the boiler.

Flanges for water supply and discharge from the boiler (pipe diameter 2"), flue throat, sockets for combustion air regulator (3/4"), for supply and discharge valve (1/2") and the safety valve sensor pocket (1/2") are located at the rear of the boiler.

The boiler walls are covered by surface finished metal sheets. The stoking and ash-tray doors is made from surface-finished metal sheeting. The front dressing sheet is equipped with measuring instruments (thermometer and manometer), which monitor the temperature and pressure of heating water in the boiler.

B) Main Dimensions



1. Kotelové těleso
2. Roštový mechanismus
3. Zátěpící klapka
4. Čistící otvor
5. Přikládací dvířka
6. Kryt spalovacího prostoru
7. Kryt výměníku
8. Popelníková dvířka
9. Posuvný rošt
10. Šikmý rošt
11. Kryt přední
12. Kryt boční
13. Kryt zadní
14. Příruba topné vody
15. Příruba vratné vody
16. Jímka regulátoru spal. vzduchu
17. Jímka čidla zabezpeč. ventilu
18. Vstup a výstup chladicí smyčky (zabezpečovací ventil)
19. Regulace sekundárního vzduchu
20. Klapka primárního vzduchu
21. Násypná šachta
22. Spalovací komora
23. Výměník
24. Nátrubek pro připojení tlakoměru
25. Kouřovod
26. Samotové čily
27. Teploměr , tlakoměr

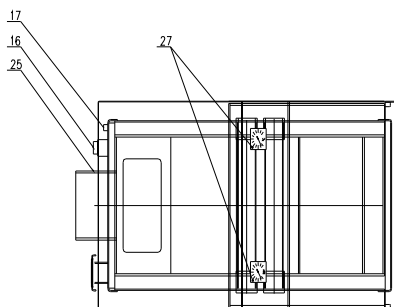


Fig. Boiler

Popisky k obr.

- | | |
|---|--|
| 1. Kotlové těleso | - Boiler body |
| 2. Roštový mechanismus | - Grate mechanism |
| 3. Zatápěcí klapka | - Firing flap |
| 4. Čistící otvor | - Cleaning outlet |
| 5. Přikládací dvířka | - Stoking door |
| 6. Kryt spalovacího prostoru | - Combustion chamber cover |
| 7. Kryt výměníku | - Exchanger cover |
| 8. Popelníková dvířka | - Ash-tray door |
| 9. Posuvný rošt | - Sliding grate |
| 10. Šikmý rošt | - Inclined grate |
| 11. Kryt přední | - Front cover |
| 12. Kryt boční | - Side cover |
| 13. Kryt zadní | - Rear cover |
| 14. Příruba topné vody | - Heating water flange |
| 15. Příruba vratné vody | - Return water flange |
| 16. Jímka regulátoru spal. vzduchu | - Combustion air regulator pocket |
| 17. Jímka čidla zabezpeč. ventilu | - Safety valve sensor pocket |
| 18. Vstup a výstup chladící smyčky (zabezpečovací ventil) | - Cooling loop input and output (safety valve) |
| 19. Regulace sekundárního vzduchu | - Secondary air regulation |
| 20. Klapka primárního vzduchu | - Primary air flap |
| 21. Násypná šachta | - Fuel hopper |
| 22. Spalovací komora | - Combustion chamber |
| 23. Výměník | - Exchanger |
| 24. Nátrubek pro připojení tlakoměru | - Manometer connection socket |
| 25. Kouřovod | - Flue ducting |
| 26. Šamotové cihly | - Fireclay bricks |
| 27. Teploměr, tlakoměr | - Thermometer, manometer |

C) Technical Parameters for Coal (nut 2)

Operating draught	(mbar)	0.15
Water volume	(l)	48
Flue duct diameter	(mm)	160
Boiler hydraulic loss at ΔT 20°/10°	(mbar)	
Boiler class		2
Burning time	(hour)	4
Temperature regulation range	(°C)	max. 90
Minimum supply water temperature	(°C)	65
Fuel shaft volume	(l)	31
Filling opening dimensions	(mm)	258x315
Nominal heat output	(kW)	35
Heat output regulation range	(kW)	12-35
Combustion gas temperature at: Nom. heat output / min. heat output	(°C)	295/136
Mass flow of combustion gases at: Nom. heat output / min. heat output	(kg/s)	
Efficiency	(%)	84
Operating pressure	(bar)	2
Heating area	(m ²)	3.3
Boiler weight	(kg)	cca 270
Fuel consumption	(kg/hour)	7

Technical Parameters for Wooden Pellets

Operating draught	(mbar)	0.15
Water volume	(l)	48
Flue duct diameter	(mm)	160
Boiler hydraulic loss at ΔT 20°/10°	(mbar)	
Boiler class		2
Burning time	(hour)	2
Temperature regulation range	(°C)	max. 90
Minimum supply water temperature	(°C)	65
Fuel shaft volume	(l)	31
Filling opening dimensions	(mm)	258x315
Nominal heat output	(kW)	31
Heat output regulation range	(kW)	22-31
Combustion gas temperature at: Nom. heat output / min. heat output	(°C)	270/177
Mass flow of combustion gases at: Nom. heat output / min. heat output	(kg/s)	
Efficiency	(%)	86
Operating pressure	(bar)	2
Heating area	(m ²)	3.3
Boiler weight	(kg)	cca 270
Fuel consumption	(kg/hour)	8

Note: Fuel consumption is directly dependent on the quality and type of fuel used, as well as keeping the boiler's inside heat-exchanging surfaces clean.

D) List of Replaceable Spare Parts

1. Stoking door
2. Combustion chamber cover
3. Ash-tray door
4. Inclined cast-iron grate
5. Sliding cast-iron grate
6. Fireclay bricks
7. Firing flap
8. Grate actuation mechanism
9. Front cover
10. Side cover (left and right)
11. Scraper and poker for cleaning boiler surfaces
12. Brush (handle + steel brush)
13. Thermometer
14. Manometer
15. Automatic combustion air regulator
16. Water supply cock
17. Stoking and ash-tray door handles
18. Fibre gasket

E) List of Available Accessories

1. Scraper and poker for cleaning boiler surfaces
2. Brush (handle + steel brush)
3. Water supply cock
4. Automatic combustion air regulator
5. Stoking door handle + fixing screws
6. Grate regulation lever
7. Flange (2 pcs)
8. Fibre gasket (2 pcs)
9. M10 bolt (8 pcs)
10. M10 nut (8 pcs)
11. Washer 10,5 (8 pcs)

12. User manual with warranty certificate

F) Boiler Operation

Firing

The boiler is fired up like a normal fire. Place some paper on the grate, cover with lighting splinters (solid fire lighters can be used, e.g. PEPO, etc.). Then add some bigger pieces of wood, some logs and as much fuel (lignite or pellets from diameter of 16 mm) as is necessary to guarantee the required burning time, or fill up the fuel shaft, however, just enough not to obstruct the stoking door from closing tightly. Close the secondary air supply with a piece of lighting paper, light the paper through the ash-tray door. Close the ash-tray door and open the primary air flap. In case of a weak draught in the chimney open the firing flap.

CAUTION: Light the boiler with extra care, especially when adding larger amounts of fuel during lighting. If the lighting charge is too small and fails to light the fuel in the boiler you could end up having to clear out the grate and starting all over again.

To avoid possible escape of smoke when the stoking door is open for adding fuel, proceed as follows:

- slowly close the primary and secondary air supplies without stopping the fuel burning but to get the boiler to minimum output
- when the boiler is burning at minimum output, slightly open the stoking door for about 30 seconds which shall purge the fuel hopper of any accumulated combustion gases
- check that the hopper is sufficiently ventilated. If not, wait a while longer for the combustion gases to be exhausted and then you can open the stoking door entirely and add some fuel, however, just enough not to obstruct the stoking door from closing tightly
- after closing and securing the door reset the primary and secondary air flaps to the original position

CAUTION: insufficient ventilation of the hopper or too quick turning down of boiler burning (if the flame dies out) poses a risk of igniting combustion gases accumulated

in the fuel hopper and thrusting of a flame from the boiler and possible burning of the operator. This danger is greater when fuel is added to a boiler which only has small amount of fuel left. Therefore, we recommend adding fuel to the boiler in time, before fuel burns past the bottom edge of the first partition.

Adding fuel:

After opening the stoking door first, using appropriate tools, collect fuel remaining in the hopper onto the grate, this fuel is dried out and will help to renew the burning process after adding fresh fuel. Only then add a sufficient amount of fresh fuel.

Heating:

To achieve nominal output, i.e. 35 kW for coal or 31 kW for pellets, the secondary air flap must be open to a maximum, which is done by unscrewing the regulation bolt between the pressure and temperature indicators. Then close the primary air flap until it is open to approx. 1 to 1,5 cm. In this mode the boiler must burn evenly without greater vibrations, which are caused when the primary air supply is open too much. This mode also ensures cleanest combustion and highest boiler efficiency.

Removing ash

To provide for good supply of combustion air for perfect burning, it is necessary to occasionally remove burnt fuel remains – ash from the grate. This is done by moving the lever on the side of the boiler. This moves the grate and ash falls through onto the ash-tray. If the grate is covered in bigger pieces of cinder, remove this during boiler operation by more exaggerated movement of the lever. This activates the cascade grate and bigger fuel remains fall through onto the ash-tray. If the cinder remains hanging in the grate, move the lever vigorously to remove them.

Proceed like this to clean the boiler after heating.

Take care to avoid ash remains accumulating in the ash-tray, which could prevent supply of combustion air under the cast-iron grate.

Cleaning the boiler

To achieve the economical operation, and thereby maximum boiler efficiency, we

must thoroughly clean the inside of the boiler occasionally – once every 3-4 months (depending on heating intensity and type of fuel used). This is done by thoroughly scraping the deposits off the boiler walls using a steel brush, which is included as a boiler accessory. The boiler must be cleaned only when not in operation.

To clean the boiler proceed as follows:

1. remove the top rear boiler cover (by removing pins from the fixing springs)
2. unbolt the combustion chamber cover and exchanger cover
3. remove the fireclay bricks, which form the combustion chamber lining
4. thoroughly scrape the deposits off the boiler walls using a scraper and steel brush. When finished, check to see if all deposits have been removed (use a flashlight).
5. open the cleaning outlets at the bottom of the boiler and sweep out the removed deposits
6. in reverse order, put back the fireclay bricks and check their integrity and correct fit. Bolt back the combustion chamber cover and exchanger cover, check the exchanger for any leaks
7. put back the top rear cover
8. seal back the cleaning outlets
9. remove any cinder and ash remains from the grate by moving the lever
10. remove the ash from the ash-tray

CAUTION !!! Ash must be collected in a non-flammable vessel with a lid.

G) Boiler and Heating Equipment Maintenance

Prior to putting the heating system into operation fill the water system with water (“soft” water if possible). Occasionally check the water level in the heating system. Never

operate the boiler over 90°C. Gentle bubbling inside the boiler body at a temperature over 80°C is not a fault. However, bubbling is a fault if it occurs at a lower temperature accompanied by impacts, etc. This indicates incorrect installation or presence of air and insufficient water. If necessary, a liquid anti-freeze agent (Friterm) or anti-corrosive agent (Inhikor II) can be added to the water system. These are available at your local chemist or DIY store.

Only authorized service centres are permitted to put the system into operation, perform periodic maintenance and remedy any faults.

H) Safety Instructions for Boiler Installation and Operation

A solid-fuel boiler may be installed only by companies holding a valid certificate for boiler installation or by technicians authorized by our company (see List of Service Centres). A project complying with valid regulations must be prepared for the installation. We list basic installation conditions for information purposes.

Prior to putting the boiler into operation the boiler must be completed (elements to be installed after delivery are stored in the ash-tray as boiler accessories)

- installation and setting of the draught regulator

A pocket for boiler draught regulator installation is welded at the top rear section of the boiler. The draught regulator casing is screwed into the pocket (watertight connection), the apparatus is screwed into the casing so that the regulator head is turned into the correct position (see Fig.). After the first fire set the regulation valve to 30°C, fix the chain to the regulator arm, undo the other end of the chain and fix it to the choke lever, which is in the Closed position. After fixing the chain by turning the regulation head add combustion air by opening the choke. Detailed Installation Instructions are delivered with the regulator.

CAUTION !!! The minimum distance of the regulator head from the flue duct is 200 mm. If this head is installed at a smaller distance, the flue duct must be insulated, otherwise the plastic head cover could melt.

- installation of discharge valve

A socket, into which the discharge valve is screwed, is welded at the bottom rear section

of the boiler. **Close the discharge valve** prior to filling the system with water!

- connection to chimney

The boiler can be connected only to a chimney in compliance with 73 4201:1989 (Chimney and Flue Ducting Design).

Connection of a hot-water boiler must be performed only with the consent of the chimney organization.

The boiler must be connected to an independent chimney vent, with sufficient draught for all possible operating conditions.

Flue ducting connected to the chimney flue and fixed to the boiler flue duct must be connected securely to prevent accidental or spontaneous disconnection.

Flue ducting sections must be inserted into each other by at least 80 mm. We recommend that the flue ducting from the boiler to the chimney be shorter than 1 m and rising towards the chimney (approx. gradient 1:20).

The hot-water system must comply with ČSN 06 0310:1983 (Central Heating, Design and Installation), ČSN 06 0830:1996 (Safety Equipment for Central Heating and Heating of Service Water).

The boiler and flue ducting must comply with fire regulations ČSN 06 1008:1997 (Fire Safety of Heating Equipment), ČSN 73 0823:1984 (Fire-Technical Properties of Materials. Material Flammability Grades) and may be installed at a safety distance of 200 mm from flammable materials grades B, C1 and C2. The safety distance (200 mm) must be doubled if appliances and flue ducting are located near grade C3 flammable materials. The safety distance must also be doubled if the grade of flammability for a certain material cannot be determined.

The safety distance can be halved if a non-flammable insulation board (grade A), min. 5mm thick, is located 25cm from the protected flammable material (air insulation).

Breakdown of materials into flammability grades (see ČSN 73 0823:1984).

- A) non-flammable
- B) difficult flammability
- C₁) problematic flammability
- C₂) medium flammability
- C₃) flammable

A) non-flammable: stone, granite, sandstone, concrete, porous-concrete, foam concrete,

bricks, fireclay, mortars, plasters, metals, glass and other mineral melts, asbestos-cement boards

B) difficult flammability: Akumin, Izomin, pasterboard, heraklit, Lignos, Rajolit, Velox, novodur, Durufol B, Duroplast H, Dekorplast, Rotizol, basalt felt, Haver, glass mats

C₁) problematic flammability: deciduous wood, beech, oak, plywood, Hobrex, Sirkolit, Werzalit, Ecrona, Umakart

C₂) medium flammability: coniferous wood, pine, larch, spruce, chipboard, Piloplat, Duplex, Solodur, SP cork boards, cork parquets

C₃) flammable: laminated chipboard, sawdust board, Pilolamit, wood-fibre board, hobra, Sololak, Sololit, BA cork board, polystyrene, polyurethane

The boiler may be used in compliance with ČSN 33 20 00 - 3:1995 in basic environment AA5/AB5 provided that the boiler is put out of operation in time in circumstances leading to temporary presence of flammable gases or vapours and during works which could lead to a temporary risk of fire or explosion (e.g. bonding linoleum, PVC, etc.).

If the floor is made of flammable materials, the boiler must be positioned on a non-flammable heat-insulating plate which extends beyond the side of the boiler with the stoking and ash-tray doors by at least 30 cm, and 10 cm on all other sides.

INSTRUCTIONS FOR INSTALLATION AND USE OF PRESSURE EXPANSION VESSELS FOR STEEL BOILERS

- 1) The pipe leading to the expansion vessel must be as short as possible without any valves and with allowance for dilatation. The expansion vessel must be located so that it cannot be heated up by radiant heat.
- 2) Each heating system must be constructed in compliance with ČSN 06 0830 (Safety Equipment for Central Heating and Heating of Service Water), fitted with at least one reliable safety valve located on the outlet pipe on the boiler, and a manometer. Location, installation and size of safety valves must comply with ČSN 06 0830.
- 3) When installing the safety valve it must first be checked for correct setting (valve activation pressure 180 kPa). If incorrectly set the valve must be re-adjusted.
- 4) Installation and setting of the safety valve, as well as installation including testing

- and adjustment of gas pressure in the pressure expansion vessel may be performed exclusively by authorized persons. Prior to filling the system with water it is necessary to measure the gas pressure in the pressure expansion vessel, to see if it is higher than the hydrostatic height in the system.
- 5) The heat source must be equipped, amongst others, in compliance with ČSN 06 0830 and ČSN EN 303-5; with a draught regulator for solid fuel boilers. The highest operating temperature is limited to 90 °C.
 - 6) The pressure expansion vessel and supply pipe must be protected against freezing of water.
 - 7) The gas filling pressure value in the pressure expansion vessel must be adjusted by discharging to the system hydrostatic pressure value (cold boiler condition). Discharge is done using a Shraeder valve (automobile tyre valve) on the pressure expansion vessel and overpressure is measured using a manometer for measuring tyre pressure. By adding water to the system adjust the pressure to a value higher by max. 10 kPa than the hydrostatic height in the system.
 - 8) After filing the system with water, mark on the manometer the adjusted hydrostatic height and max. pressure in the system when the water reaches 90 °C.
 - 9) If, during operation, there is a change in pressure difference, as marked on the manometer (exceeding minimum or maximum pressure), the system must be checked, thoroughly air-bled, water added (cold boiler condition), and/or add gas pressure in the pressure expansion vessel as per manufacturer's instructions.
 - 10) When a pressure expansion vessel is used the maximum water column height in the heating system is 12 m.
 - 11) Every pressure expansion vessel must be externally checked at least once a year, including filling pressure check.
 - 12) Every heating system must have a detailed and approved project, including equipment for dissipating surplus heat in compliance with ČSN EN 303-5 Art. 4.1.5.11.3, and boiler installation and commissioning must be performed according to this project.
 - 13) With a correctly selected pressure expansion vessel the maximum real pressure difference must not exceed 60 kPa at a system water temperature from 10 to 90°C. This pressure difference can be checked during the heating test, when system water is heated from cold. If there is a greater pressure difference than 60 kPa, the pressure expansion vessel is incorrectly selected and there is a risk of pressure body damage.

SAFETY INSTRUCTIONS FOR BOILER OPERATION

For safety reasons and economical operation the boiler must be operated according to the instructions in this User Manual.

The boiler can be left without any supervision provided that its output is set so that the

system cannot be overheated (economical mode), or if it is fitted with an adjusted and functional output regulator, nevertheless, it must be checked occasionally.

CAUTION !!! During operation certain boiler parts (stoking, ash-tray doors, flue ducting) can be heated to a higher temperature and contact with these parts may cause burns.

The boiler may be operated only by adults familiar with this User Manual. Leaving children at the boiler without supervision is strictly prohibited. It is also prohibited to use any liquid fuels in the boiler or to increase its nominal output during operation.

The operator may perform only common maintenance and replacement of supplied spare parts. The operator may not alter the boiler construction, change its function or operate a damaged boiler.

Location of fuel - it is prohibited to store fuel behind the boiler or at a distance smaller than 400 mm from the boiler.

- the manufacturer recommends locating the fuel at a min. distance of 1 m from the boiler or in another room altogether.

Caution: No flammable objects may be placed on the appliance or within the safe distance from the boiler.

Please, pay attention to several important principles which must be observed to ensure safe and economical boiler operation.

- conscientious operation
- dry fuel of suitable granularity – brown coal (nut 2), wooden pellets diameter 16 mm
- adequate chimney operating draught
- clean boiler (ducts and vents)
- gastight boiler – correctly joined and sealed cleaning, stoking and ash-tray doors
- correct boiler output selection for the heated space

Note:

The manufacturer recommends equipping the heating circuit with a suitable mixing device, especially when using a circulating pump to ensure that the input temperature of heated water does not drop below 65°C.

Caution:

During the first fire in an absolutely clean boiler the surfaces may condense water so intensely that it may seem as if the boiler is leaking. However, this condensation disappears once the temperature inside the boiler exceeds 70°C. After starting the fire do not forget to close the firing flap.

D) INSTALLATION OF A BOILER WITH AN ANTI-OVERHEATING DEVICE

In compliance with ČSN EN 303-5 specifications and Ministerial Order 182/1999 boiler H730 Pyro is equipped with a safety heat exchanger for dissipating excess heat to prevent the water temperature inside the boiler from exceeding the maximum value of 110°C. This safety heat exchanger is designed as a flow-through water heater, which is controlled by a thermostatic discharge valve at the inlet. Safety discharge fitting TS 130 with dual sensor from Honeywell can be used.

Function: the sensor in the pocket at the rear of the boiler detects the water temperature, if the temperature in the boiler exceeds 95°C the valve automatically opens and starts supplying water to the safety heat exchanger, thus dissipating excess heat and preventing boiler overheating. Once the water temperature drops the valve automatically closes and stops cold water flowing to the safety heat exchanger. This action can be repeated depending on the quantity of fuel in the fuel hopper, or on the period of reduce heat consumption by the heating system.

Caution:

- installation must be performed according to Fig. and the valve manufacturer's instructions
- for correct valve function the valve must be connected to a permanent cold water supply, min. pressure 1 bar (municipal water mains recommended)
- check valve function at least once a year

J) Waste Disposal

Packaging material (paper and wood) can be burnt in a fire; PP straps, unburned remains and ash must be disposed of as municipal waste.

After the expiration of the boiler's service life, dispose of the casing and grates as metallic waste, insulation material and fireclay bricks must be handed in to a recycling centre.

K) Warranty Certificate

Hot-water boiler: H 730 Pyro

Serial No.

Manufacturer: OPOP spol. s r.o., Valašské Meziříčí, Czech Rep.

Tel.: 571 675 589, **fax.:** 571 611 225

Date of shipment from factory: _____

Warranty Conditions:

This Warranty Certificate contains a Quality and Product Certificate. The manufacturer hereby confirms that the product is checked and conforms with technical conditions and ČSN EN 303-5. The quality, function and design of the boiler is subject to a 24 month warranty from the date of purchase, however no longer than 30 months from dispatch from the factory. Defects in materials, design and workmanship shall be remedied as quickly as possible at our expense, provided that:

- the boiler is in normal technical condition as per the User Manual
- the boiler is connected to a chimney in compliance with ČSN 73 4210:1989
- the boiler is not mechanically damaged (no unauthorized modifications, except for alterations permitted in the User Manual)
- chimney draught in compliance with ČSN must correspond to values in this User Manual
- the customer presents this filled in Warranty Certificate
- all the manufacturer's instructions for pressure expansion vessels use are observed

Note:

When reporting a defect this Warranty Certificate must always be presented, address given and conditions described under which the defect occurred. The method and place of remedy shall be left to our discretion.

Date of technical review _____ Date of sale _____

Caution:

Steel weldment – its permanent tightness is subject to a 60 month warranty from the date of boiler dispatch from the factory. This warranty shall be honoured only if the no pressure expansion vessel was used in the heating system and the leak is caused by low-quality material or welding work. Any claim cannot be accepted if defects are caused by incorrect operation. If the warranty in the extended warranty period is honoured, we shall supply a replacement weldment, sent by courier or picked up by the customer. Costs of transportation, replacement and return of the defective weldment to the factory shall be born by the customer. If the defective

weldment is not returned to the factory within 30 days from date of sending the replacement weldment, the customer shall be billed the full price of the replacement weldment.

The boiler weldment is spray painted with a black water-based paint, which can lead to the peeling of this paint. Peeling paint has no effect on boiler function. After the first fire this paint is burnt off.

Claims procedure:

- 1) Present, personally, by mail or fax, a confirmed Warranty Certificate with proof of purchase.
- 2) Submit the exact address and telephone (optional), and description of conditions under which the defect occurred.
- 3) The manufacturer's service technician shall inform the customer of how the claim shall be processed:
 - a) send the claimed part for replacement
 - b) if proceeding according to a) is not possible, the manufacturer is entitled to determine the method, date and performance of repair by its service technicians or an authorized service centre
 - c) the user is obligated to enable the manufacturer to repair the defect as per clause b)
 - d) if the customer fails to enable access for repairs, the manufacturer shall regard such claim as settled
 - e) if the defect is irreparable, the customer shall be entitled to replacement of the defective part
 - f) if the claim is unqualified, i.e. defect or weldment leak not found by service technician, the claiming party shall be billed all related man-hour and travel costs
 - g) in case of an urgent claim contact the service centre on tel.: 571 675 252 or 602 743 970

Dear customer,

congratulations on purchasing our product. This entitles you to a 10% discount on spare parts and on purchase of coal from Mostecká uhelná společnost (coal

supplier). Detailed information on purchase of coal is included in the attached brochure. To claim these discounts you must fill in the Registration Card and post it to our address:

***OPOP spol s r.o.
Obchodní oddělení
Zašovská 750
757 01 Valašské Meziříčí
Czech Republic***

After receiving this filled in form we shall immediately send you your Customer Card which shall entitle you to spare parts discounts at your producer. When ordering spare parts always quote your Customer Card number.

Děkujeme za Vaši důvěru.

Cut here and send to our address.

.....

REGISTRATION CARD

Name..... product serial No.

Surname..... retailer.....

Street/No. product type

City.....

Post code.....

Telephone No. (optional).....

Signature.....

List of Solid-Fuel Boiler Service Centres

1 M V T - Tomášek - Pekárenská 109 - Trhové Sviny T. 386 322936 - 602 474189	Č. BUDĚJOVICE
2 ZEMAV RYBNÍK - Dolní Dvoříště T 380 324 104 - 602 468391	Č. BUDĚJOVICE
3 KTK KOVOSTAV - Jar. Kratochvíl - Starokřížská 37 - Ronov nad Doubravou T 469 690417	ČÁSLAV
5 Montážní Domažlická - Horáček - Janáčková 490 - T 379 724011- 602 882440	DOMAŽLICE
6 Václav Klejšmíd - Poděbradova 1170- Dvůr Králové T 499 620626 - 603 868404-5	DVŮR KRÁLOVÉ
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