The best wood and pellets

ATMOS

Combined boilers

ATMOS COMBI ■ WOOD – PELLETS
TYPE – DCxxSP, SP(X), SPT

ADVANTAGES OF ATMOS BOILERS

- **possible combination of individual types of fuels** – alternating fuel wood + pellets
- **High efficiency** for individual fuels – practically the same as

  for special pellet boilers (up to 92.3%)
- **Cheaper solution** – if we add up the cost of purchasing two boilers, their connection

  and smoke extraction, we find that one boiler, although more expensive, is more economical.
- **Automatic start function of the pellet burner** after the wood burns out
- **Small built-up space** – compared to multiple boilers
- **One chimney and flue**
- Environmentally friendly operation – for all types of heating
- **subsidized boiler DC 18 SP, DC 25 SP, DC 30 SPX, DC 32 SP, DC 40 SPT**

  – wood/pellets

BOILER CONSTRUCTION

The boiler itself is designed as a body with three chambers set one below the other. The upper two chambers are used for wood gasification, as you know from classic gasification boilers, which we produce as standard. The third, lowest chamber is fitted with the required burner at the front and lined with ceramics for optimal combustion quality.

DC 18 SP, DC 25 SP, DC 30 SPX, DC 32 SP
WOOD + PELLETS

Both systems are separated from each other by a water jacket, so they do not affect each other too much, and thus the boiler achieves high efficiency when heating with single fuels. The exhaust of flue gases into the chimney is solved by one outlet neck and therefore we have one chimney.

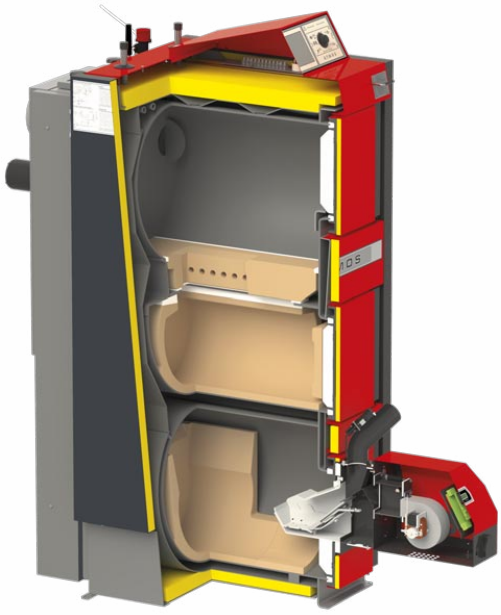
PANEL WITH STANDARD CONTROL

FUNCTION

The KOMBI series of boilers enables wood combustion on the principle of generator gasification in combination with a pellet burner. The boiler allows you to alternate fuels. If necessary, of course, there is a bridge, the possibility to buy a boiler without a burner, with the understanding that you will install it later.

Complete operation of the boiler and system is possible drive with ACD 03 control.

- Safety thermostat
- Thermometer
- Control thermostat
- Flue gas thermostat
- Thermostat per pump
- On/off switch
- **Possibility of automatic switching between fuels**



DC 18 SP, DC 25 SP, DC 30 SPX, DC 32 SP WOOD + PELLETS

NEWS *DC 40 SPT WOOD + PELLETS*

BOILERS AND BURNERS DCxxSP, SP(X), SPT

The boilers (**from model 2018 onwards)** are equipped with an automatic closing or opening function of the air supply

into the boiler/burner by means **of a servo drive** when heating with wood or pellets.

The boilers are equipped with **the AGF2 flue gas temperature sensor (TSV) and the boiler water temperature (TK) sensor KTF20** for the function of automatic burner start after the wood burns out.

In addition, the boilers are equipped with **two sensors (TV and TS) KTF20** for burner control according to two temperatures on the accumulation tank.

The whole set is sold in **the maximum equipment for fully automatic mode**

and easy installation.

ELECTRONIC CONTROL PANEL ATMOS ACD 03

DC 25 SP

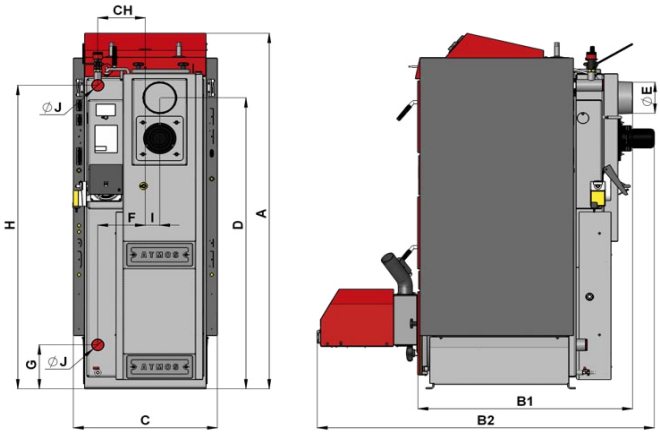
WOOD + PELLETS

The regulation governs:

- **Complete boiler operation**

  Incl. automatic switching between wood/pellet operation
- **Boiler circuit**
- **Three heating circuits (two heating circuits + controlled return)**
- **Charging the battery tank**
- **DHW heating**
- **Solar heating...**

The ACD 03 control is designed for retrofitting into the boiler panel.



Regulatory WOOD PELLETS

NEWS

DIMENSIONS	DC 18 SP	DC 25 SP	DC 30 SPX	DC 32 SP	DC 40 SPT
A	1665	1665	1665	1741	1755
B1	757	957	957	957	1230
B2	1301	1501	1501	1501	1792
C	643	643	643	678	680
D	1375	1375	1375	1448	1445
E	150 (152)	150 (152)	150 (152)	150 (152)	150 (152)
F	212	212	212	256	87
G	207	207	207	184	204
H	1436	1436	1436	1507	1507
CH	212	212	212	256	256
I	65	65	65	70	256
J	6/4”	6/4”	6/4”	6/4”	6/4”

TYP ATMOS SP		DC 18 SP	DC 25 SP	DC 30 SPX	DC 32 SP	DC 40 SPT
PERFORMANCE OF A WOOD BOILER	kW	**20,5**	**27**	**30**	**35**	**40**
PERFORMANCE OF PELLET BOILER (DCxxSP)	kW	**4,5 – 15**	**6 – 20**	**6 – 20**	**6 – 20**	**30**
PRESCRIBED CHIMNEY DRAFT	Pa	20	23	23	24	22
PRESCRIBED FUEL - WOOD		**DRY WOOD ABOUT** MOISTURE 12 – 20 % (HEAT 15 – 18 MJ/kg) ∅ 70 – 150 mm				
PRESCRIBED FUEL - PELLETS		**QUALITY WOOD PELLETS** ∅ 6 – 8 mm (WHITE PELLETS)				
PRESCRIBED FUEL - PELLETS	mm	330	530	530	530	730
CONTENTS OF THE WOOD HOPPER	dm^3	60	95	95	135	160
BOILER WEIGHT	kg	435	531 (506)	537	596 (571)	768
VOLUME OF WATER IN THE BOILER	l	78	109	109	160	131
PELLET BURNER TYPE		**ATMOS A 25** (for models DCxxSP(X)) – order code H0048, **ATMOS A 45** (for models DC 40 SPT) – order code H0352				
PELLET TANK		EXTERNAL – 240, 250, 300, 400, 500, 1000 liters				
CONNECTION VOLTAGE	V/Hz	230/50				
BOILER POWER AT START-UP (pellets)	W	572	572	572	572	530
BOILER POWER IN OPERATION (pellets, wood)	W	42/50	42/50	42/50	42/50	42/50
SUBSIDIZED BOILER IN THE CR		●	●	●	●	●
BOILER CLASS ACCORDING TO EN 303-5		5	5	5	5	5
MEETS EKODESIGN EU 2015/1189		DC 40 SPT	And	1665	1665	1665
ENERGY EFFICIENCY CLASS		A+	A+	A+	A+	A+
PREFERRED FUEL		WOODEN PELLETS	WOODEN PELLETS	WOODEN PELLETS	WOODEN PELLETS	WOODEN PELLETS

An up-to-date list of supported equipment can be found in the list of products and technologies at the State Environmental Fund of the Czech Republic (SEF) at svt.sfzp.cz

PNEUMATIC PELLET DELIVERY

APS 250, APS 500, APS 250 S

Pneumatic pellet conveying **APS 250 (S), 500** is a compact device used for convenient supply of pellets to the boiler from a large hopper located outside the boiler room.

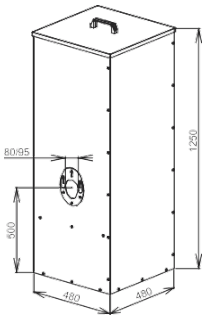
The storage tank is created from free storage spaces in the house or outside the heated building. A textile silo is also very often used as a storage tank, which allows for easy and quick installation.

The compact pneumatic pellet conveyor **ATMOS APS 250 (S), 500** with a buffer hopper is designed for boiler outputs from 5 to 80 kW.

- Transport height up to 5 m
- Transport distance up to 16 m

PELET TANKS

250 l

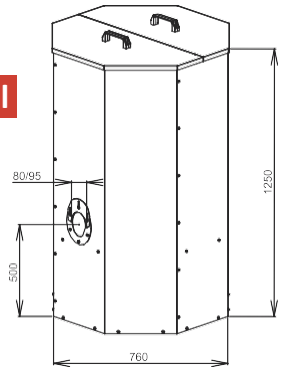


This is the **smallest** size.

In the case of a small boiler room, when we cannot use a larger pellet tank volume.

This tank stores 163 kg of pellets, i.e. approx. 730 kWh. (10 p.)

500 l

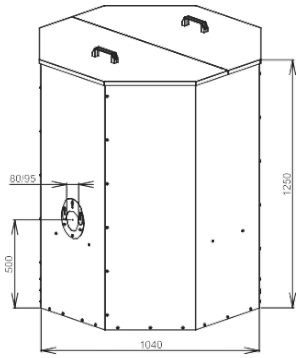


It is a **medium** size.

In the case of a small boiler room, when we cannot use a larger pellet tank volume.

This tank stores 325 kg of pellets, i.e. approx. 1463 kWh. (21 p.)

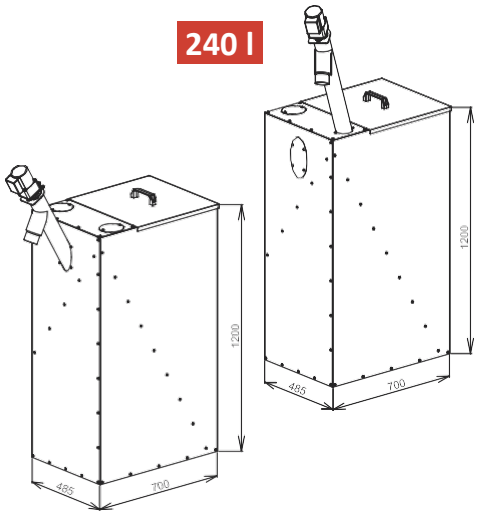
1000 l



This is the **largest** size.

This tank stores 650 kg of pellets, i.e. approx. 2925 kWh. (43 p.)

240 l

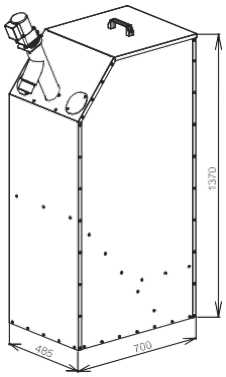


AZPD / AZPU 240 – this is a set of pellet tanks with a volume of 240 l with a DRA25 conveyor – 1.3 / 1.7 m, which is designed for small and cramped boiler rooms. Allows the tank to be placed

in close proximity to the boiler so that the assembly takes up little space. In a tank with a useful volume

156 kg of pellets, i.e. approx. 700 kWh, are stored in 240 l. (10 p.)

300 l

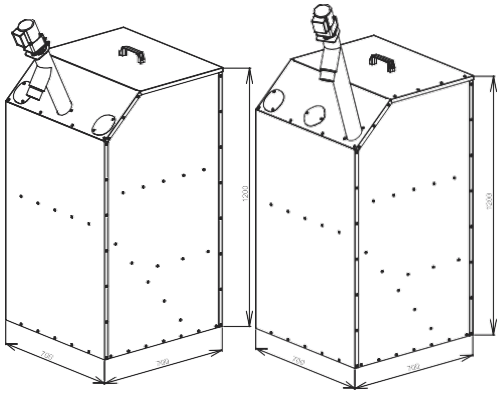


AZPD 300 – This is a pellet tank set with a capacity of 300 l

with the DRA25 – 1.3 m conveyor, which is designed for small and cramped boiler rooms. It allows the tank to be placed in close proximity to the boiler so that the assembly takes up little space. In the tank

with a useful volume of 300 l, 195 kg of pellets, i.e. approx. 880 kWh, are stored. (13 p.)

400 l

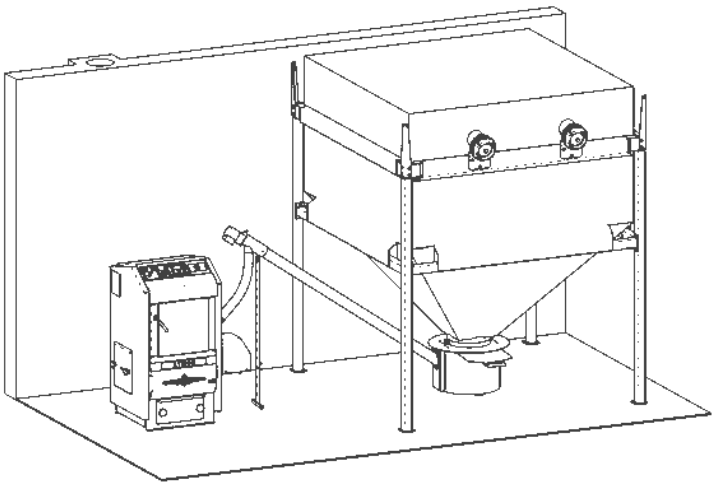


AZPD / AZPU 400 – this is a set of pellet tanks with a volume of 400 l with a DRA25 conveyor – 1.3 / 1.7 m, which is designed for small and confined boiler rooms.

It allows the tank to be placed in close proximity to the boiler so that the assembly takes up little space. In the tank

with a useful volume of 400 l, 260 kg of pellets, i.e. approx. 1170 kWh, are stored. (17 p.)

Pneumatic pellet transport can be installed in all pellet tanks.



ATMOS TEXTILE TRAY

set	volume (m3)	pellets (t)	side dimensions (mm)
ATZ 5	4,4 - 5,5	2,9 - 3,6	1960 x 1960 x 2 320
ATZ 6	5,3 - 6,5	3,5 - 4,2	1960 x 2360 x 2 320
ATZ 7	6,3 - 7,9	4,1 - 5,1	2360 x 2360 x 2 320

To nejlepší na dřevo a pelety...

89 Let
Tradice od roku 1935

SALESPERSON:

ATMOS

JAROSLAV ČANKAŘ AND SON ATMOS

Velenského 487

CZ 294 21 Bělá pod Bezdězem

Czech Republic

Tel.: +420 / 326 / 701 404, 701 414

Technical information: tel.: +420 326 / 706 517

Sale of spare parts: tel.: +420 326 / 706 550, 706 566
Internet: www.atmos.cz, www.atmos.eu

E-mail: atmos@atmos.cz,atmos@atmos.eu

PRODUCER:

02/24 CZ