



J|A|S|P|I[®]

Wood boilers

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The natural
option

Jaspi Econature 40
Jaspi YPV 40

NORTHMAN



Wood boiler as a heat source

Wood boiler uses natural and renewable materials to heat up your home.

Powerful wood boilers can provide all the heat in standard size homes and are often used as a main heat source.

They are often connected to a thermal store / accumulator which in turn can accept additional heat sources, for example heat pumps and solar panels.

To make the most out of your wood boiler, the logs used should be 0,3 - 0,5 M in length, dry with a moisture content of 25% or less. This normally means that the wood is cut at least a year prior to burning.

If the logs are too wet, they might still burn but will not do so efficiently so less heat is released and the need to clean the boiler is also increased.

Our wood boilers have been developed with generations of experience and are manufactured using the best available materials and the latest production technology.

All our boilers are extensively inspected and tested prior to dispatch to ensure years of reliable service without a loss in performance.

Jaspi wood boilers use two technologies:

- Traditional wood boilers where the air is fed to the lower part of the burning chamber and the fire burns like in a fireplace and the heat is released to the upper part of the boiler.

The advantage of these boilers is that they do not need electricity for the burning process and can also accept a wide range of burning medium.

- Gasification boilers where the burning is fan assisted and the fire burns 'upside down' towards the bottom of the boiler.

The advantage of this type of a boiler is that it achieves much higher burning temperature and thus increases the boiler efficiency.

The burning process is more controlled than in the traditional wood boilers and the burning can be interrupted by a click of a switch.

These type of boilers work only with a good quality logs and require electricity.



JASPI YPV 40 Traditional heavy-duty wood boiler

YPV 40 is an upper combustion wood boiler designed for high burning temperatures. It has an internal 80 litre water tank and the boiler must always be connected to the thermal storage tank. The boiler is also equipped with an internal cooling coil to prevent overheating.

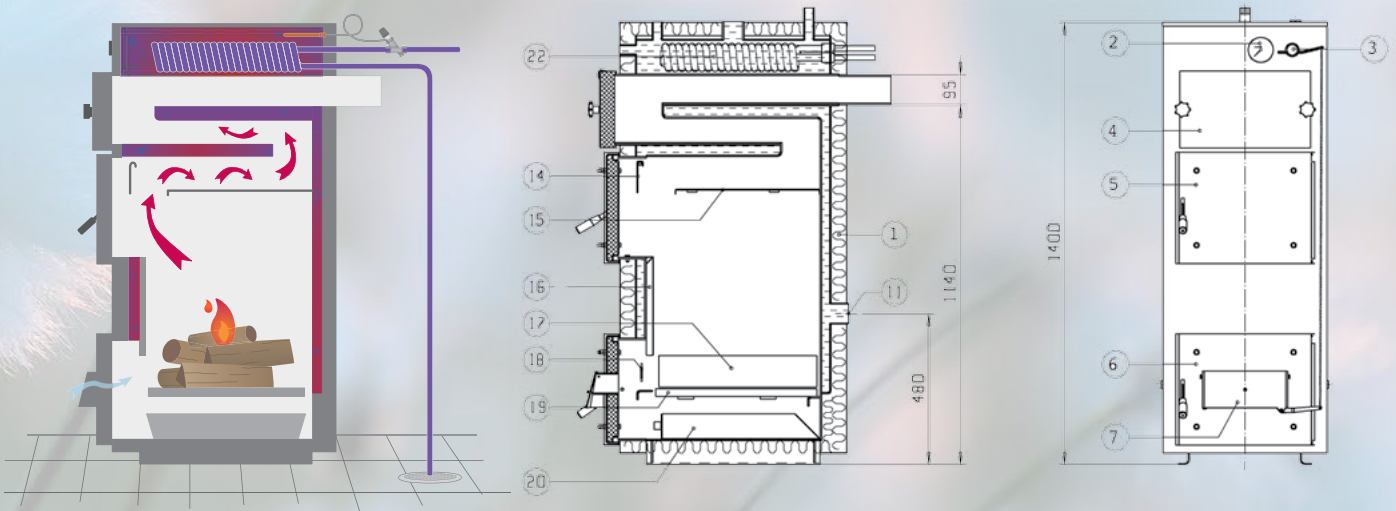
Thanks to the optimized burning technique, the boiler cleaning frequency is also reduced. Patented combustion air deflectors, a key for more efficient burning, are installed in the burning chamber. The boiler is also fitted with a removable burning chamber choke plate which can be used to reduce the burning area and the power of the boiler between 20-40kW.

All the fire surfaces can be cleaned easily, and ashes can be removed with an ash container included in the standard delivery. A large burning chamber accepts logs up to 50cm in length, less fill-ups through the burning cycle.

Jaspi YPV40 does not require electricity connection to work.



	Power [kW]	Size [mm] H x W x D	Burning chamber [mm] H x W x D	Weight [kg]	Water capacity [l]	Working pressure [bar]	Working temperature [°C]	Min. air supply [Pa]	Part number
Jaspi YPV 40	20-40	1500 x 520 x 720	900 x 350 x 530	270	80	1,5	100	5	5058030



PARTS

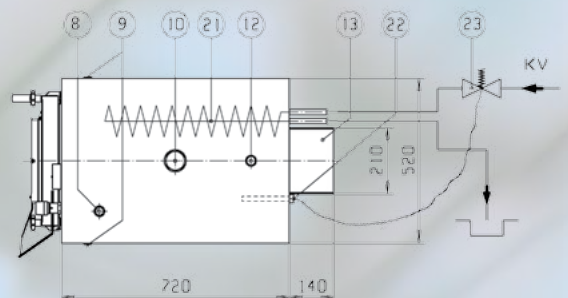
- | | |
|--------------------------------|---|
| 1. Insulation (50 mm) | 13. Flue (210x95 mm) |
| 2. Pressure / temp gauge | 14. Flue gas diverter |
| 3. Air adjuster DN 20 (R¾") | 15. Flame diverter |
| 4. Cleaning hatch | 16. Air diverter |
| 5. Filling hatch | 17. Burning chamber plates (2 pcs) |
| 6. Service / inspection hatch | 18. Burning chamber guard |
| 7. Air valve | 19. Burning grate |
| 8. Thermostat DN 20 (R¾") | 20. Ash pan |
| 9. Drain DN 15 (R½") | 21. Boiler cooling coil (Ø18) |
| 10. Heat flow DN 50 (R2") | 22. Anti-boiling valve connection DN 15 (R1") |
| 11. Heat return DN 50 (R2") | 23. Anti-boiling valve (Jaspi TSK) |
| 12. Pressure valve DN 25 (R1") | |

Standard delivery:

Temperature/pressure gauge, thermostatic air valve, cleaning set, anti-boiling valve, flue extension.

Flue recommendation:

Stainless steel min. Ø 180 mm (250 mm²), Brick 180 x 180 mm (300 cm²)
Height >4 m.



Jaspi YPV40 must always be connected to a thermal store. Recommended size is between 1000-2500L. Using a thermal store ensures a correct return temperature and cleaner burning process. It also allows several heat sources to be connected together and provides ample amount of domestic hot water.

JASPI ECONATURE High-efficiency Gasification Wood Boiler

Jaspi Econature is a modern high-efficiency gasification wood boiler. It offers much higher efficiency compared to the traditional wood boilers.

The burning is fan assisted, burning chamber has ceramic plates and the burning is in two stages; First the traditional yellow flame burns the wood, the second burning happens in a lower chamber where the remaining wood gases burn in a very high temperature, with a white flame.

Burning is clean and the amount of remaining ash is low.

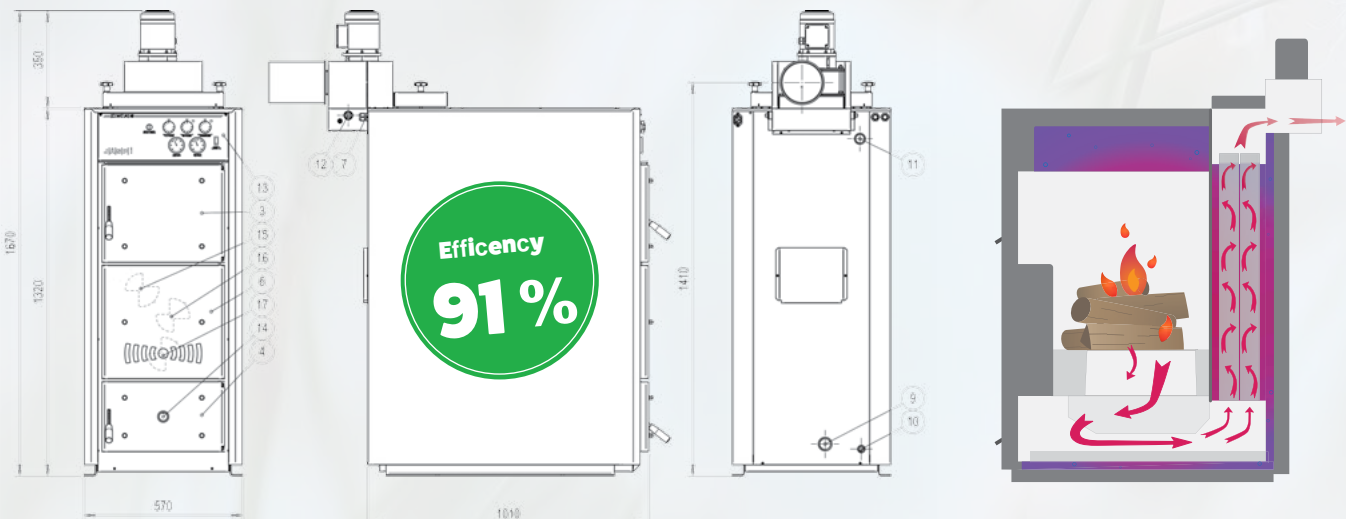
Maximum log length of 0.5 M and a large burning chamber means that you can charge a large thermal store often in only one full burn.

Recommended thermal store / accumulator size to be used is between 1500-3000 l.

Econature boiler is equipped with thermostats which prevent overheating and will switch the boiler off when the wood runs out.



	Power [kW]	Size [mm] H x W x D	Weight [kg]	Water capacity [l]	Pressure [bar]	Temperature [°C]	Air [Pa]	Part no
Jaspi Econature 40	40	1670 x 570 x 1160	450	120	1,5	100	5	5058050



PARTS

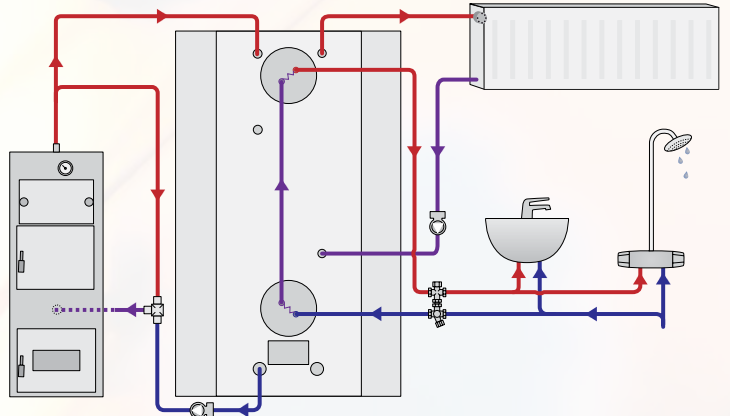
1. Fan motor
2. 90 ° adjustable flue connection
3. Filling hatch
4. Service / inspection hatch
5. Cleaning / turbulence pipe hatch
6. Air chamber
7. Electric cable grommets
8. Heating flow DN 32 (R1 ¼")
9. Heating return DN 32 (R1 ¼")
10. Drain DN 15 (R½")
11. Expansion DN 25 (R1")
12. Gas analyzer connection point DN 15 (R½")
13. Control panel
14. Observation window
15. Upper air adjuster plate
16. Lower air adjuster plate
17. Secondary air adjuster
18. Insulation 75 mm
19. Ceramic burning plate
20. Turbulence pipes

Flue recommendation:

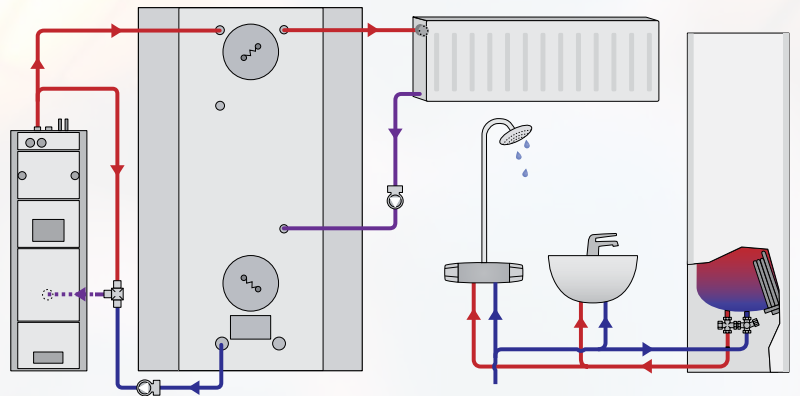
Stainless steel > Ø 140 mm,
Brick > 180 x 180 mm (300 cm²).
Height > 4 m.

Example installations

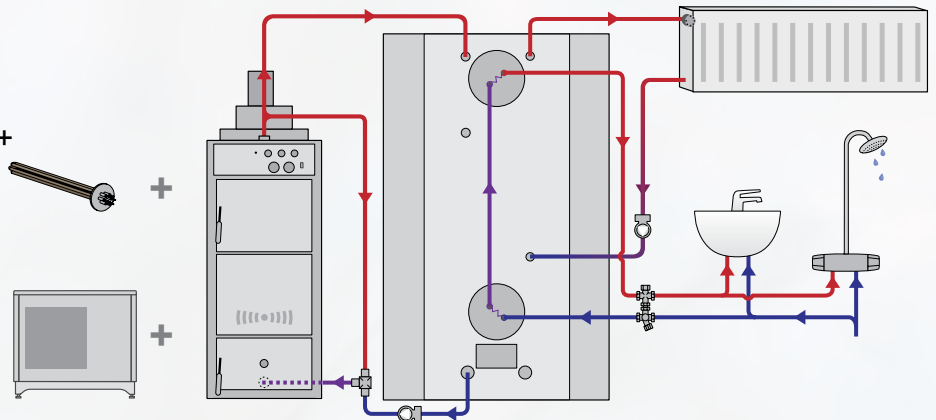
Jaspi YPV 40 + Jaspi Oval Hybrid accumulator



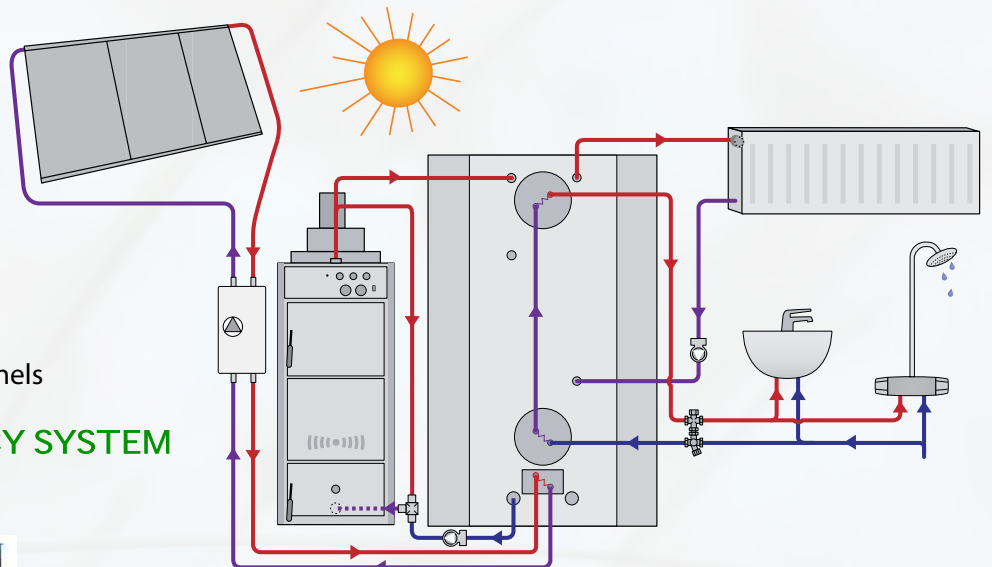
Jaspi Ecowood 25 + Jaspi Oval Hybrid accumulator + DHW tank



Jaspi Econature 40 + Jaspi Oval Hybrid accumulator + Heat pump + immersion back-up



Jaspi Econature 40 + Jaspi Oval Hybrid accumulator + Solar panels



HIGH EFFICIENCY SYSTEM

ACCUMULATORS FOR THE WOOD BOILERS

JASPI OVAL HYBRID 1000 & 2000



AKVA EK 1000 - 3000



AKVA GEO 1000 - 3000



AKVA SOLAR 1000 - 3000



For more information about the suitable accumulators,
please visit www.northmangroup.co.uk

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