



# JÄSPI ECONATURE SOLID FUEL BOILER

## ENVIRONMENTAL COMPATIBILITY - EFFICIENCY - COMFORT

JÄSPI ECONATURE is a new generation solid fuel boiler. The boiler has a significantly higher efficiency than traditional wood-fired boilers. A ceramic fire bar and an afterburner provide an actually high combustion temperature. High-temperature combustion is cleaner and provides minimum tar and soot emission and highly effective use of firewood energy. The average efficiency value in a five-hour combustion cycle is 85 %.

JÄSPI ECONATURE has been developed for a highly efficient, clean combustion process. The combustion process is controlled through the ceramic fire bar by an induced-draft fan which ensures the best possible, equal draft during the whole burning process. The high combustion efficiency and temperature considerably reduce firewood consumption, as well as heating and cleaning efforts. The clean combustion and the obtained environmental certificate also make it possible to use the boiler in high density areas.

The JÄSPI ECONATURE furnace is designed for half-metre firewood. The combustion time varies from two to two and a half hours depending on firewood quality and furnace filling. Once the firewood is burnt down, the automatic furnace control stops the exhaust fan so that you do not have to visit the boiler room after the last filling. The boiler is always connected to an energy accumulator. The boiler's pump thermostat controls the charging unit connected to it between the boiler and the accumulator, which confirms the sufficiently high temperature of boiler return water.

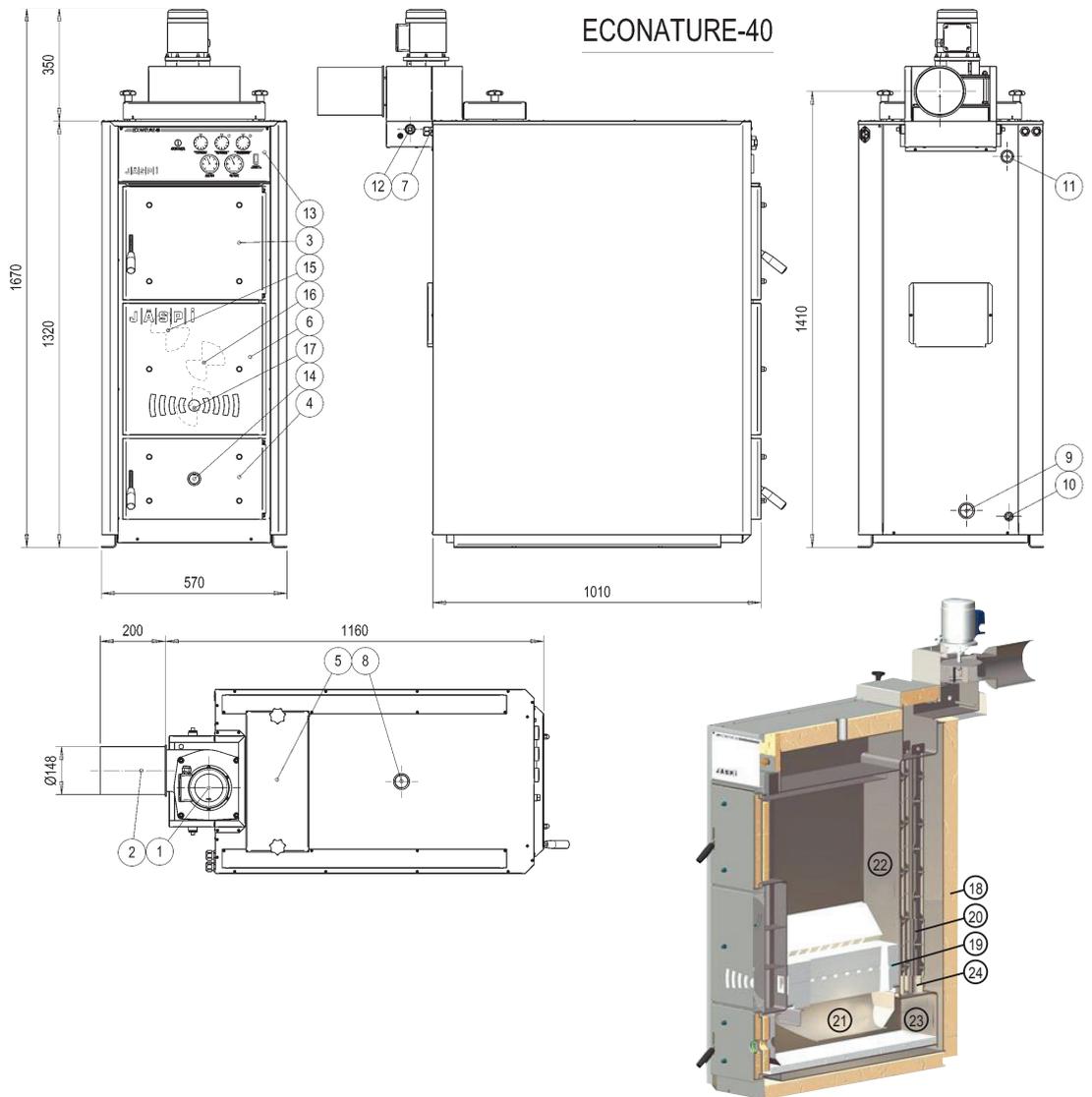


## TECHNICAL DATA:

JÄSPI-ECONATURE provides high efficiency operation. Tested per EN 303-5, it showed an efficiency of 85 %. Boiler operation and maintenance can be done at the front and on top. Sensors and control instruments are located at a convenient height. Note that wood quality and moisture are essential for fuel consumption and reliable operation. The moisture of burning wood must be lower than 25 %. Suitable wood is 50 cm long.

### SCOPE:

1. Induced-draft fan
2. Flue nozzle (90° rotatable in both directions)
3. Filling port
4. Maintenance hatch
5. Cleanout
6. Air chamber hatch
7. Electric leads
8. R32 F-threaded outlet to accumulator
9. R32 F-threaded return from accumulator
10. R15 F-threaded drain connection
11. R25 F-threaded expansion connection
12. R15 F-threaded flue gas detector / analyzer connection
13. Control panel
14. Flame monitor glass
15. Upper primary air adjusting plate
16. Lower primary air adjusting plate
17. Secondary air adjusting plate
18. 75 mm mineral wool insulation
19. Ceramic fire bar
20. Turbulators
21. Firing throat
22. Storage furnace
23. Combustion furnace
24. Convection ducting



JÄSPI MODEL	Boiler dimensions, mm			Furnace dimensions, mm			Power kW	Volume l	Weight kg	Design pressure, bar	Design temp., °?	Min. draft, Pa
	Height	Width	Depth	Height	Width	Depth						
Econature	1670	570	1160	600	350	550	40	120	450	1.5	100	5

Stack recommendations: for a metal stack, min. Ø 150 mm; for a brick stack, min. 180 ? 180 mm<sup>2</sup> (approx. 300 cm<sup>2</sup> = whole brick). Stack height: min. 5 m.

We reserve the right to modify design and dimensions.



### KAUKORA OY

PL 21, Tuotekatu 11, 21201 RAISIO  
Tel.: 02-437 4600, Fax: 02-437 4650  
www.kaukora.fi • kaukora@kaukora.fi



ISO 14001  
ISO 9001  
EN 729-2

Dealer:



### Windy Ridge Corporation

190 Ossipee Mtn Hwy  
Tamworth, NH 03886  
www.veha.com  
sales@veha.com

**1-800-639-2021**