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R SERIES SUPER CONDENSING BIO-FUEL BOILER

Range from 10kW to 615kW

FEATURES:

**Year-round maximum
condensing**

**Efficiency between
92 and 99% GCV**

**Higher efficiency at maximum
mid-winter load**

Low NOx

Environmentally friendly

**Ultra high efficiency plus cheap
fuel means major savings**

**Year round condensing boiler
even with constant temperature
82°C-71°C**

**On/off, high/low/off and
modulating burners available
depending on output**



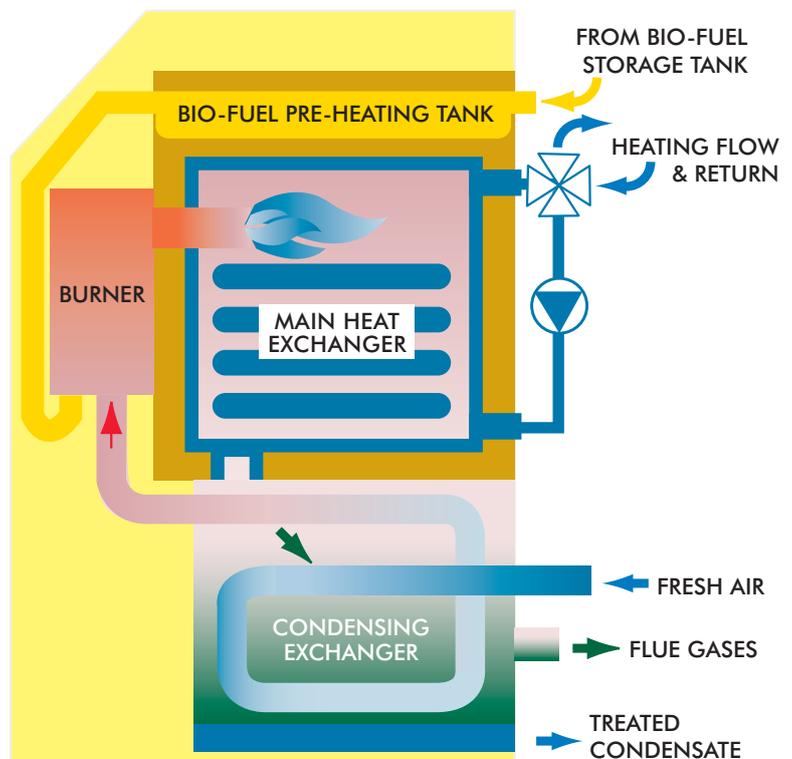
Atlantic Boilers Super Condensing Bio-Fuel Boiler

The R Series year-round super condensing boiler can now burn bio-fuel.

The bio-fuel is kept at temperatures just above freezing in an external or banded vessel, then piped to a pre-heat tank within the R Series boiler, from which it passes to the burner. The bio-fuel is a naturally grown fuel and burns with the same maximum condensing efficiency as fuel oil and natural gas.

The R Series year-round maximum condensing boiler has two distinct heat exchangers, the first of developed quality steel design and the second of high-grade plastic design. The flue gases leave the first heat exchanger at temperatures below 90°C, and are then extracted from the second condensing heat exchanger at temperatures always below 50°C. For combustion air entry temperatures below 30°C, efficiencies are obtained which always exceed 92% up to 99%. These conditions apply throughout the year in the UK.

Fresh air is drawn either from a balanced flue or conventional chimney inlet. It enters a polypropylene condensing exchanger where it is pre-warmed by the outgoing flue gases. The pre-heated fresh air is passed on to modulating bio-fuel oil burner, where the air is burnt with the oil in the combustion chamber. The products of combustion are passed through the main heat exchanger, then through the condensing exchanger being cooled down by the incoming fresh air and then leave the boiler at temperatures between 15°C and 45°C. The R Series year round maximum condensing boiler is most efficient in mid-winter when the heat energy requirement is at its maximum.



Fine bio-fuel oil spray from the nozzle