

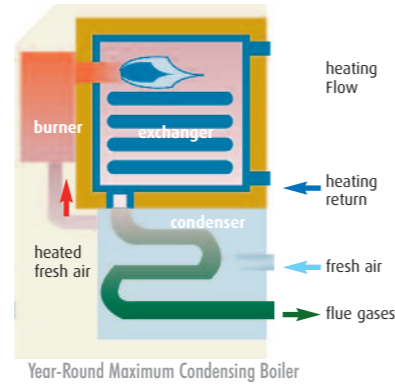
THE R SERIES YEAR-ROUND MAXIMUM CONDENSING BOILER BURNS BIO-DIESEL, LIGHT OIL, KEROSENE, RAPESEED OIL, NATURAL GAS AND LPG

CONDENSING

# R SERIES

## YEAR-ROUND MAXIMUM CONDENSING BIO-FUEL BOILER Range from 15kW to 600kW

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 heat exchanger at temperatures always below 50°C. The introduction of combustion air through the condensing exchanger lowers the flue gas temperature below dewpoint, hence there is no need for return water temperature to be low. The boiler will condense to its maximum efficiency even at 82°C flow and 71°C return. For combustion air, at inlet temperatures below 30°C, efficiencies always exceed 92%. These conditions apply throughout the year in the UK. The R-Series Boiler burns bio-diesel, light oil, kerosene, natural gas and LPG. Recent development has included vegetable and waste oil in B100 form. For all these fuels efficiencies exceed 92% GCV rising to 99.5% GCV.



Energy rating 'A'



Model R	R15	R22	R40	R60	R90	R150	R200	R300	R400	R500	R600
Maximum Output kw	16.7	22	40	60	90	150	210	315	370	485	600
Minimum Output kw	10.6	15	11.5	20	33	40	48	80	80	250	300
Dry Weight kg	125	200	300	438	794	1014	1014	1789	1975	2150	2625
Length mm	940	1000	1220	1220	1750	2030	1340	2770	2770	2770	4144
Width mm	350	445	545	545	740	885	1225	1225	1425	1425	1900
Height mm	1165	1365	1510	1510	1740	1945	1985	2365	2250	2250	2740

*The bio-fuel boiler burns renewable fuel and, at the same time, halves the energy burnt!*

### FEATURES:

Efficiency between 92 and 99% GCV

Higher efficiency at maximum mid-winter load

No pollution

Environmentally friendly

Ultra high efficiency + cheap fuel = major savings

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

Modulating burners from 90kW upwards

## ATLANTIC SUPPLY HIGH EFFICIENCY BOILERPLANT THROUGHOUT THE UK

CONDENSING

### M SERIES MODULATING LOW NO<sub>x</sub> CONDENSING BOILER

OUTPUTS FROM  
29kW to 472kW

The **M Series Modulating low-Nox condensing boiler** has a unique fully pre-mix natural gas burner. Filtered air is drawn from the boiler room, which then passes through a venturi where it mixes with the natural gas supply before passing through a variable speed centrifugal fan. The air/natural gas mix then passes vertically down a series of burner tubes where it is ignited to give a circular 'carpet of flame' running evenly from top to bottom of the combustion chamber. Heat output can be modulated from 100% down to 25%. Throughout the range, the NO<sub>x</sub> level remains below 40mg/m<sup>3</sup>



### LRK SERIES MODULATING CONDENSING BOILER

OUTPUTS FROM  
530kW to 3000kW

The **LRK Series** is designed for oil and gas firing with efficiencies from 85% GCV to more than 95% GCV. The three-pass exchanger embodies quality, longevity, engineering and reliability. No minimum flow rate is required and the hydraulic design eliminates thermal stress and cold spots. There is modulation down to 17% output for gas and down to 40% output for oil.



HIGH EFFICIENCY

### NA-R ECONOMIC REVERSE FLAME HOT WATER BOILER

OUTPUTS FROM  
70kW to 2907kW

The **NA-R reverse flame hot water boiler** is fired by natural gas, LPG, light or heavy oil. Heat outputs from 70kW to 2907kW, Working temperatures up to 110°C, Working pressures up to 8 BARS. The burner flame is reversed in the same chamber. The returning hot gases are forced to meet the burner flame to ensure full combustion. The intensive heat of the reversing flame is transferred to the boiler water. Final heat transfer occurs in the following tubular passageways. Gas turbulators increase the heat transfer to a maximum level.



ELECTRIC

### GWR, COMPACTE and MULTI-ELEC ELECTRIC BOILERS

OUTPUTS FROM  
36kW to 630kW

The **COMPACTE electric boiler** is designed for any low pressure hot water heating system up to 95°C working temperature and 4BARS working pressure. The models range from 36kW to 72kW with two-stage control of output. Generally the COMPACTE is available within a few days of order.

The **MULTI ELEC electric boiler** is designed for any low pressure hot water heating system up to 95°C working temperature and 4BARS working pressure. The models range from 36kW to 630kW with three-stage control of output. Models 36kW to 288kW are available within a few weeks of order.

The **GWR wall-mounted electric boiler** is designed for heating systems up to 85°C and 3BARS working pressure. There is a low temperature model arranged to work at 55°C or below. The four models range from 6kW to 18 kW output. The GWR is available within a few days of order.



DHW GENERATION

### EXPRESSO PACKAGED PLATE HEAT EXCHANGER WITH C20 BUFFER STORAGE

200-1000 L

The **EXPRESSO** package builds upon the effectiveness of the RS TURBOFLOW plate heat exchanger. Both the plate heat exchanger and the insulated buffer vessel are made of austenitic stainless steel. The plate heat exchanger delivers water at the required temperature within 3 seconds. The domestic hot water buffer storage is a safeguard against peak demand and reduces boiler cycling. The pre-fabricated compact design streamlines the boiler house.

The **RS TURBOFLOW plate heat exchanger** is also available for chilled and glycol water, steam, pool water, bore hole waters, sea water, district heating, combined heat and power, pressure differential, solar heating. For these and other requirements, a variety of plate heat exchanger metals together with a variety of gaskets and brazings are carried in stock or on rapid response.



ATLANTIC BOILERS has supplied condensing and highly efficient boilerplant to many Universities, Hotels, Hospitals, Social Care Buildings, Leisure Centres, Offices and Housing Developments, plus other types of building. Coupled with the boilers, ATLANTIC also supply condensing and highly efficient domestic hot water generation, and back-up commissioning, spares and servicing throughout the UK.