

BIOMASS BOILER HEATING SYSTEMS





RAINBOWHEATANDPOWER.CO.UK



ADVANCED HEATING TECHNOLOGY





01

5 YEAR WARRANTY

The complete boiler including all electronic controls and wearing parts.

04

INDUCED DRAFT FAN

Generates negative pressure in the combustion chamber and ensures the highest levels of reliability and safety.

02

PATENTED BURNER SYSTEM

For consistently clean combustion.

05

SELF CLEANING HEAT EXCHANGER

Automatic cleaning maximises heat transfer. No build-up of efficiency reducing deposits.

03

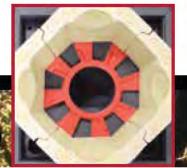
COMBUSTION CHAMBER TILES

Robust silicon carbide tiles are wear resistant and replace conventional fire bricks.

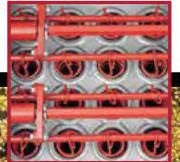
06

LAMBDA CONTROL

Ensures optimised combustion and the cleanest burn.











07

OPTICAL MONITORING

For reliable combustion monitoring.

10

RESILIENT FUEL DELIVERY SYSTEM

Sealed bearings for low maintenance.

80

SUPPORTED DRIVE TORQUE MOTORS

Direct drive – no chains or gears to break or snap.

09

DISCHARGE AUGER CONTROL SENSOR

Features energy saving mode for low power consumption.

11

TWO-PIECE AUGER CHANNEL

For easy maintenance, the agitator box lid is separate to the auger channel.

12

ELECTRONIC CONTROL

Modular control, of up to 16 heating circuits, timers and thermostats.











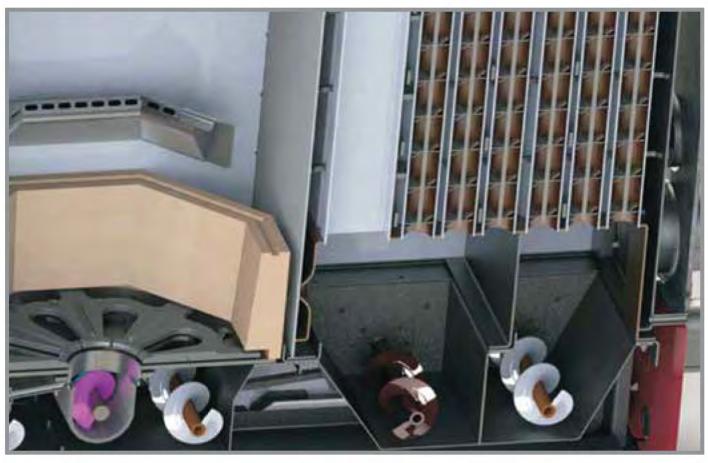
SL199-250KW

- Up to 250kW with a single unit, can cascade multiple units up to 1,000kW.
- Heating efficiencies of over 95%.
- Heat exchanger features 6 rows of vertical, tubular cylinders. These enable multiple
 passes of hot flue gas and are automatically cleaned by turbulators to give high
 efficiencies.
- Automatic ash removal into an external 240 litre container on wheels as standard.

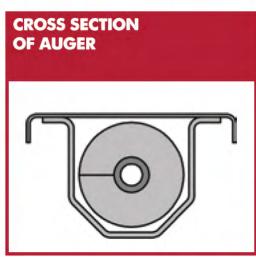


SL199-250kW

HEAT EXCHANGER FEATURES 6 ROWS OF VERTICAL CYLINDERS









SL30-150KW

- Up to 150kW with a single system, can cascade multiple boilers up to 600kW.
- Heating efficiencies of over 93%.
- Heat exchanger features 4 rows of vertical, tubular cylinders. These allow multiple passes
 of hot flue gas and are automatically cleaned by turbulators to give high efficiencies.
- · Ash created is automatically compacted into 2 large and easily removed drawers.



SL30-150kW

HEAT EXCHANGER FEATURES 4 ROWS OF VERTICAL CYLINDERS





FUEL DELIVERY SYSTEMS



STANDARD ROOM DISCHARGE

for fuel storage areas up to 4m wide

- Heavy duty bevel gears.
- Agitator arms maximum width 6cm, maximum length 2.5m.
- The agitator disc stops rotating under the weight of a full fuel store, reducing power consumption.



MEDIUM ROOM DISCHARGE

up to 5m wide fuel stores

- Heavy duty bevel gears.
- Agitator arms maximum width 8cm, maximum length 3m.
- Sliding cover plate.
- Agitator disc stops rotating under the weight of a full fuel store, which reduces power consumption.

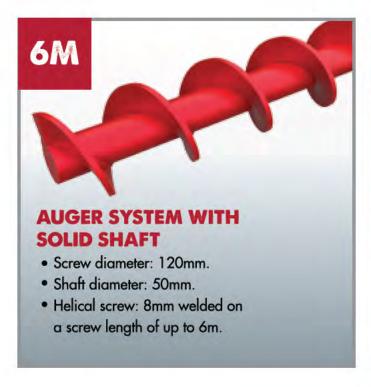


TELESCOPIC ROOM DISCHARGE

for storage areas with diameters of up to 6m

- Heavy duty bevel gears
- Telescopic arms, link chains and springs.
- Cover plate with slide.
- Agitator disc stops rotating under the weight of a full fuel store, which reduces power consumption.

FLEXIBLE SYSTEMS CONFIGURED TO YOUR REQUIREMENTS









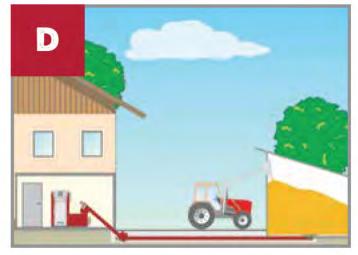
CUSTOM FUEL FEED SYSTEMS

A RANGE OF INTELLIGENT, ROBUST & RELIABLE FUEL FEED AND DELIVERY SYSTEMS TO MEET A RANGE OF PROJECT REQUIREMENTS

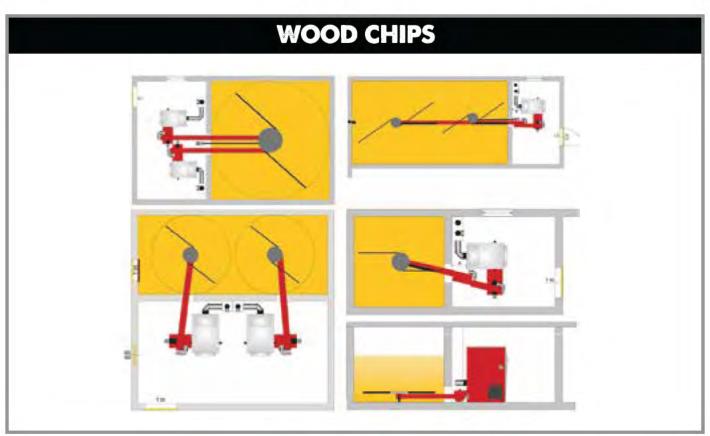








SUITABLE FOR A WIDE RANGE OF APPLICATIONS







ELECTRONIC MANAGEMENT SYSTEM MODERN CONTROL TECHNOLOGY



ELECTRONIC CONTROL PANEL

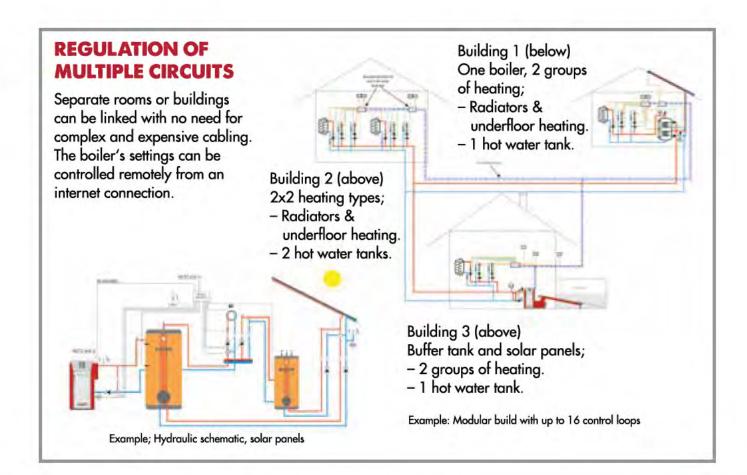
The electronic control panel is based on a sleek, modern, modular design and allows control of 16 individual heating circuits.



CLEAN COMBUSTION

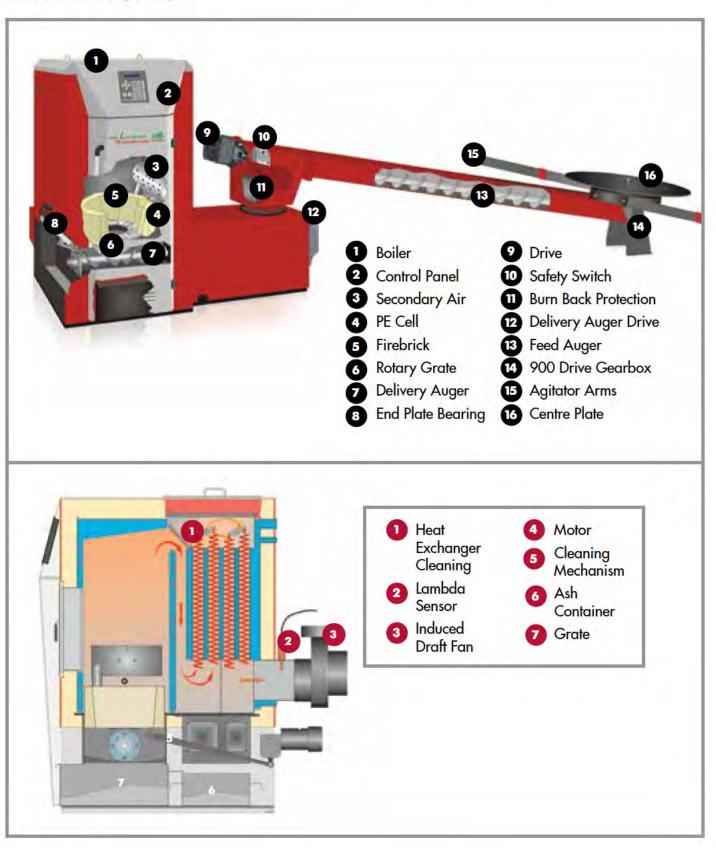
Lambda sensor regulation to ensure optimised fuel combustion.





KEY FEATURES SL30-150KW SERIES

KEY FEATURES





SL 199-250 WOOD CHIP AND WOOD PELLET BIOMASS BOILER

SPECIFICATI	ONS	SL 199	SL 250 250	
Max Heat Output	kW	199		
Min Heat Output	kW	70	70	
Combustion Efficiency	%	91.1 Min 95.3 Max	91.1 Min 95.3 Max	
Width	mm	1,175	1,175	
Height	mm	1,800	1,800	
Depth	mm	2,650	2,650	
Flow & Return Dia	mm	73	73	
Flue Diameter	mm	250	250	
Flue Connection Height	mm	1,370	1,370	
Boiler Weight	kg	2,100	2,100	
Auger Weight	kg	180	180 390	
Water Content	Litres	390		
Power Supply	A/V	16A, 400V	16A, 400V	





TECHNICAL SPECIFICATIONS

SL 30-150 WOOD CHIP AND WOOD PELLET BIOMASS BOILER

SPECIFICATION	SMC	SL 30	SL 40	SL 50	SL 65	SL 80	SL 110	SL 150
Max Heat Output	kW	30	40	50	65	80	110	150
Min Heat Output	kW	8.4	8.4	12.4	12.4	21.5	23.7	41.9
Combustion Efficiency	%	93.1 Min 93.3 Max	93.0 Min 93.1 Max	91.9 Min 92.1 Max	93.1 Min 93.5 Max	91.7 Min 93.0 Max	91.3 Min 93.7 Max	91.8 Min 93.8 Max
Width	mm	630	630	770	770	870	870	1,050
Depth	mm	1,050	1,050	1,050	1,050	1,265	1,265	1,465
Height	mm	1,330	1,430	1,430	1,530	1,520	1,620	1,810
Flow & Return Diameter	mm	40	40	40	40	40	40	40
Flue Connection Diameter	mm	180	180	180	200	200	200	250
Flue Connection Height	mm	650	650	650	650	650	650	650
Boiler Weight	kg	555	595	675	740	920	980	1,405
Auger Weight	kg	82	82	82	82	83	83	85
Water Content	Litres	73	87.5	110	116	120	190	340







FROM DOMESTIC AND AGRICULTURAL TO COMMERCIAL REQUIREMENTS;



WE HAVE THE PERFECT BIOMASS HEATING SYSTEM.



BIOMASS HEATING BY:





UK DISTRIBUTOR;
RAINBOW HEAT
AND POWER

UNIT 5, CEDAR COURT, LOWMAN WAY, TIVERTON BUSINESS PARK, TIVERTON, DEVON, EX16 6GT

LET'S TALK ABOUT YOUR PROJECT CALL 01884 212 044
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