

BioLyt
Wood pellet boiler

Hoval



Output range 50 - 160 kW

Why choose BioLyt?

The BioLyt wood pellet boiler delivers market-leading efficiency and cost effective performance. When it comes to carbon-neutral heating, the BioLyt will suit all manner of medium to large buildings, including hotels, schools and district heating networks. Our wide range of boilers will suit almost any customer's space heating requirements.

Economical



Saving money and carbon together

- **Consistently high efficiency** through innovative combustion technology
- **Independent** of fuel supply prices on the international oil and gas market
- **Low fuel costs** accelerate return on investment

Ecological



Low impact on the environment

- **Low CO₂ emissions** due to excellent combustion efficiency
- **Sustainable and renewable heat energy**
- **Wood and sun – a winning combination** for a future-proofed heat supply

Sophisticated



A perfect choice when updating your system

- **Low space requirements** due to compact size
- **Simple conversion** from fossil fuel to wood
- **Flexible, automatic suction transport** of pellets over a distance of up to 20 metres
- **Available as a powerful combination** alongside your existing boiler plant

Easy to use



Easy to use and reliable

- **Automated supply of pellets** convenient and easy to use
- **Automated cleaning** of heating surfaces and burner
- **Low maintenance** and easy emptying of ash box
- **Remote maintenance and system monitoring** through optional TopTronic® online

The BioLyt range extends from 50 kW boilers up to 160 kW units, offering numerous innovative construction details that make it the perfect choice for upgrades and new installations. At Hoval we have the perfect system for almost any requirement.



BioLyt (50 - 70)

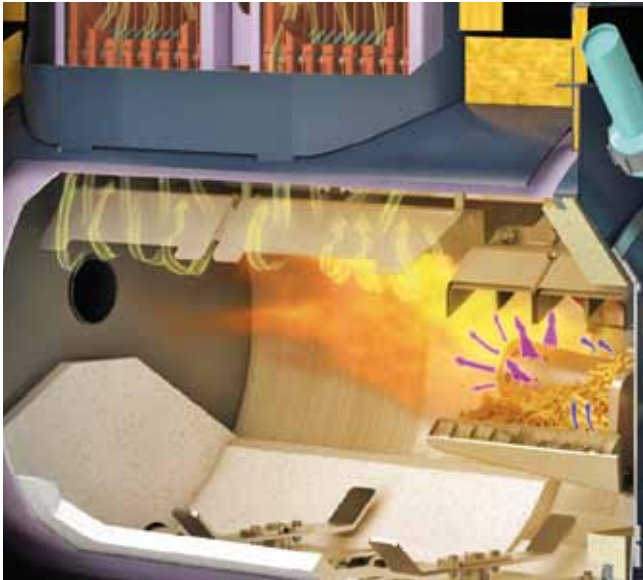
Innovative, low-carbon heating for small and medium sized commercial applications

BioLyt (110 - 160)

Highly efficient, low carbon heating for commercial applications

BioLyt

Featuring our patented 'thermolytic' heat exchanger



High combustion efficiency – very low emissions

With its sophisticated combustion process, the BioLyt meets the requirements of EN303-5 Class 3 for emissions and efficiency.

- **The primary wood gasification stage** converts the solid fuel to wood gas by the addition of primary air.
- **In the subsequent combustion stage**, the wood gas is mixed with secondary air and burned fully and cleanly.
- **Horizontal combustion** improves burn-out and energy yield while also lowering emissions.



Automation with efficiency over 90%

With the aid of the lambda sensor, the microprocessor-driven combustion control achieves optimal combustion conditions with minimum pollution. It automatically detects variations in pellet quality and compensates as necessary.

Combined with the patented 'thermolytic' heating surfaces, this ensures optimal heat transfer with consistently high efficiency levels.



Consistent performance

The heating surfaces are designed to transfer heat energy to the heating water circuit. If the surfaces become clogged, heat transfer is less effective and fuel consumption and emissions will rise.

The 'thermolytic' heating surfaces with a motorised self-cleaning mechanism minimise the build-up of ash and optimise boiler efficiency. Additionally, a powerful forced draught fan ensures automatic and thorough cleaning of the burner tube.

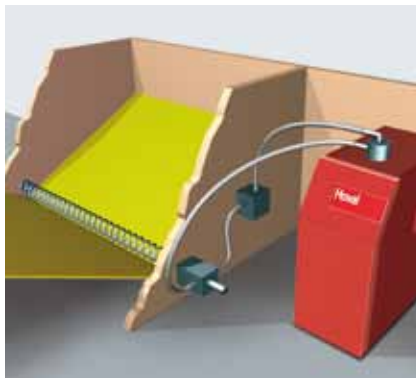


Ash disposal

Carefully planned technical solutions make operation and maintenance of a BioLyt system quick and user-friendly.

The BioLyt ash removal system automatically transports the ash to a specially-designed container.

These containers are on wheels so the ash can be conveniently removed. Pellet ashes are an excellent plant fertiliser.



Automated operation

The BioLyt pellet supply system transports the pellets from the storage facility to the BioLyt hopper.

The suction supply system is compatible with all pellet storage systems and can be readily installed due to its flexible design. (Applies to models 50 and 70 only.)

Hoval offers a wide choice of silos, which can also be cascaded if required.



Expertise in system combinations

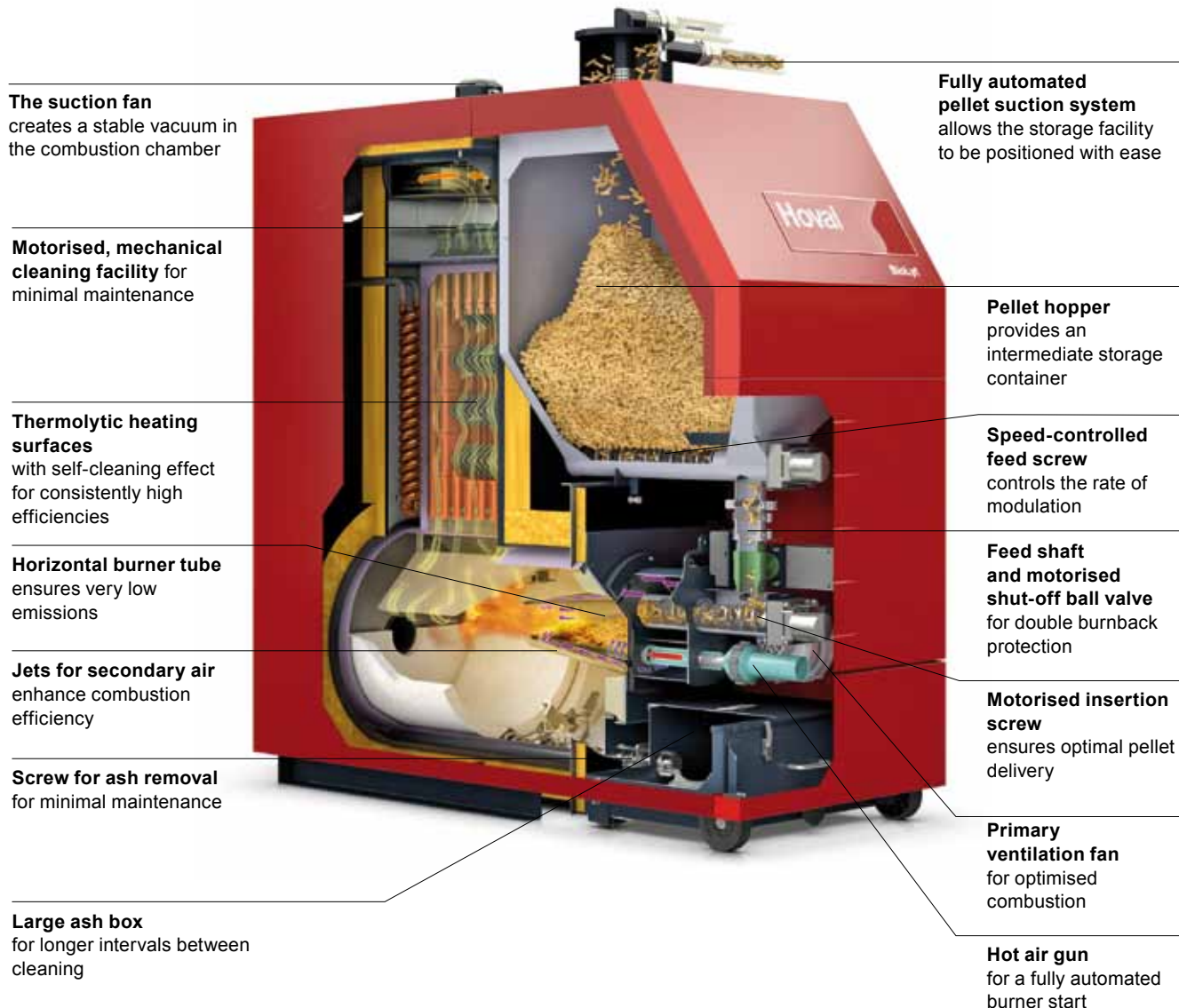
The BioLyt range can easily be incorporated into other heat supply systems.

With Hoval system technology and our experience it is easy to integrate different heat sources to match your requirements.

- Bivalent systems with gas or oil boilers to help meet peak demand
- Integration of solar energy systems

BioLyt (50 - 70)

Innovative, low-carbon heating for small and medium sized commercial applications



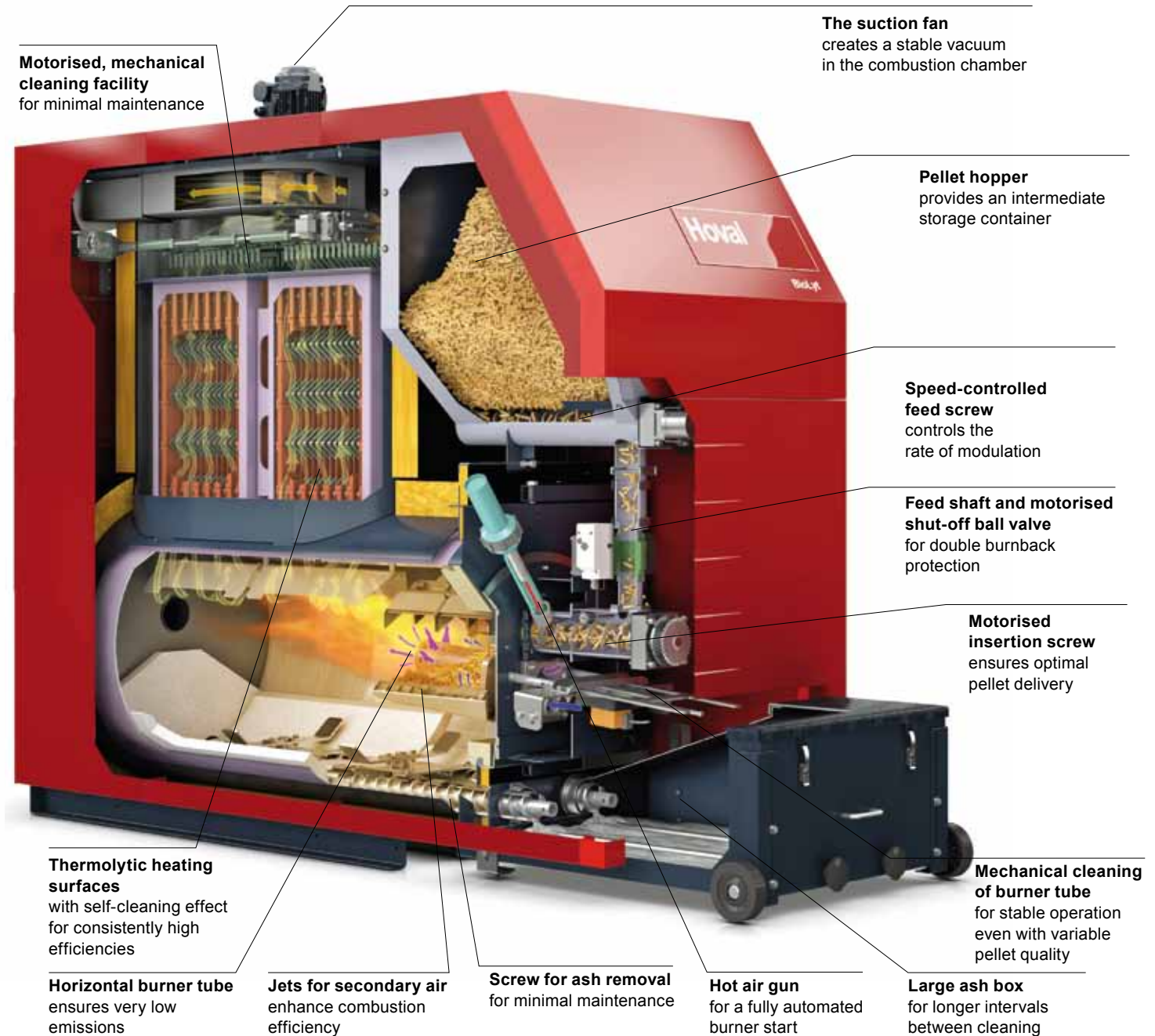
Technical data -BioLyt		(50)	(70)
Heat output range	kW	14 – 49	20 – 69
Boiler efficiency at nominal heat output	% net	>90	>90
Pellet box capacity	litres	200	
Boiler weight	kg	640	780
Dimensions with automatic pellet feed W/H/D	mm	740/1945/1820	800/2025/1845

For smaller power outputs of 10 – 26 kW, see separate brochure
 For detailed technical information please refer to separate brochure

Subject to modification

BioLyt (110 - 160)

Highly efficient, low carbon heating for commercial applications



Technical data - BioLyt		(110)	(130)	(160)
Heat output range	kW	31 – 105	39 – 130	43 – 156
Boiler efficiency at nominal heat output	% net	>90	>90	>90
Pellet box capacity	litres	200		
Boiler weight	kg	1340	1340	1340
Dimensions with automatic pellet feed W/H/D	mm	895/2050/2675		

For smaller power outputs of 10 – 26 kW, see separate brochure
For detailed technical information please refer to separate brochure

Subject to modification

Efficient, easy to use and ecological

Wood pellets are the energy of the future



Wood – a fuel with a future

The use of wood as a modern source of energy deserves consideration.

Locally sourced, carbon-neutral and renewable, it offers a first-rate price-performance ratio.

The high performance BioLyt lets you utilise the advantages of pellets as a modern energy source in buildings with large energy requirements.

Pellets – compressed bundles of energy

The raw material used for the manufacture of wood pellets is from waste products such as saw dust and shavings from the wood processing industry. The raw material is compressed into small cylinders under high pressure. The naturally occurring lignin in the wood works well as a binding agent.

Two kilograms of pellets will generate approximately the same heat energy as 1 litre of heating oil. Your supply of pellets can be economically stored in a fabric silo or a pellet room, and are delivered by the supplier in special tankers.



Efficient heating with wood pellets

Unpredictable fluctuations in oil and gas prices are increasingly causing developers to consider wood as an alternative fuel to oil or gas.

The BioLyt simultaneously addresses ecological concerns, user-friendly technology, and demands for high energy efficiency.

By coupling the BioLyt with double or multi-boiler systems, its heat output can be further multiplied.

Furthermore, with its compact dimensions, easy-to-install connections, and flexible suction supply, the BioLyt is particularly well suited for upgrades and for replacing old heating systems.

Intelligent TopTronic® control and Hoval system solutions

A professional integrated approach



Sophisticated management for your heating system

The TopTronic® control is the brain of every Hoval system. Innovative microprocessor technology ensures smooth and continuously monitored operation.

The LCD display provides information on operating data, while a single rotary pushbutton and seven keys are used to activate heating programs and settings. If manual intervention is necessary, the required program can be found in seconds in the self-explanatory user guide.



Room control – an added bonus

One degree warmer. Two degrees cooler. With this control you can set the system to economy mode or switch it off. This practical control unit not only enhances comfort, but also makes it easy to regulate the temperature to the nearest degree, without leaving the room.



Remote access via TopTronic® online

The TopTronic® online feature allows you to control and optimise your heating system remotely. The user-friendly interface is accessible from either your PC or Smartphone.

Additionally, previously programmed phone numbers can receive fault notifications via SMS on a mobile phone, so that you can always be in touch with your system.



Flexibility to suit any need

With the move towards renewable energy, an ever-evolving range of technologies is being integrated into building heating systems. TopTronic® can control systems with up to five heat generators and ten mixing circuits. Therefore, a wide range of energy sources such as solar and biomass can be utilised together, delivering a well-coordinated system to meet your heating demands.



Domestic hot water

Hoval offers a wide variety of domestic hot water storage units ranging from 160 to 10,000 litres.

Our extensive product range can provide solutions to meet most building conditions producing hot water as economically and ecologically as possible.

An expert partner



One-stop shopping

With us you can easily incorporate gas, oil, heat pump, solar, CHP, or biomass energy solutions into your heating system.



Technical advice

We are happy to assist you and your planning partners in developing intelligent systems, allowing you to take advantage of our expertise and the experience of our specialists.



After sales

For specialist commissioning and maintenance of your Hoval equipment, contact our service and spares department.

Hoval Ltd
Northgate
Newark-on-Trent
Nottinghamshire
NG24 1JN
United Kingdom

Phone 01636 672 711
Fax 01636 673 532
email boilersales@hoval.co.uk
www.hoval.co.uk

Responsibility for energy and environment

Hoval follows a policy of continued improvement and reserves the right to change specifications without notice.

Hoval