

BioStor™ for Agriculture

Collinson
RENEWABLES 

WOOD PELLET STORAGE AND CONVEYING

Wood pellet boilers are an environmentally friendly, safe and convenient way of heating a multitude of applications, appliances require a constant supply of wood pellets and for larger systems an automated system is the only way to guarantee a reliable supply of heat.

The 60° cone and smooth internal walls of BioStor provide excellent mass flow for EN plus grade wood pellets.

Special Features

- Volumes from 6.7m³ to 54.3m³
- Galvanised or Plasteel™ (plastic coated galvanised steel) construction
- Smooth internal walls
- Pressure relief valve
- AutoVent
- FloView™ SafetyClean Panel
- External filler pipe with Storz coupling
- Independent exhaust pipe for discharge of dust to a safe zone
- Level Indicators
- Crane lifting points
- Galvanised support structure designed to Eurocode 1, Part 1-4
- Clearance under cone plate: 1300mm for conveyor discharge
- Explosion Relief Panels

Range of 6 Plasteel™ Finishes

Juniper Green
BS 12B29

Olive Green
BS 12B27

Moorland Green
BS 12B21

Merlin Grey
BS 18B25

Slate Blue
BS 18B29

Vandyke Brown
BS 08B29

Colour samples available on request



After a long, long life Collinson Silos are 100% Recyclable

Silos
Conveyors

Benefits

The agricultural sector has embraced the Government's commitment to cut greenhouse emissions, this adaptable industry is endeavouring to reduce their environmental impact working towards lower or even carbon neutral sites by reducing reliance on fossil fuels and improving energy efficiency, biomass heating is an effective method to help achieve these goals.

Collinson specialise in the design and planning of wood pellet installations to include agricultural, commercial and public buildings.

Benefits of a wood pellet heating system include:

- Income from the Governments RHI* scheme
- Potentially reduce your bills
- Environmentally friendly
- Carbon neutral emissions
- Clean and efficient fuel
- Pellets are easily stored and transported
- Improved sustainability appeal for your products

*The UK Government's RHI scheme is designed to reduce our country's reliance on fossil fuels and cut our greenhouse emissions and is a major driver to use biomass heating technology for all types of non-domestic building. The scheme offers a fixed, index-linked income for every unit of heat you generate over a 20 year period.



Experience tells us that every installation is different, for specific advice on your project contact our sales team on **01995 606 451**

IMPORTANT NOTE

Please allow extra capacity in the silo you choose to allow for:

- a) Variations in product density due to aeration of product during pneumatic silo filling.
- b) Variable density of the product due to manufacturing specification.
- c) Internal design, to facilitate even distribution of pellets during pneumatic filling.

As such we recommend you allow extra spare capacity of 30% over and above the size of loads you are planning to have delivered.

Filling

Filling is undertaken via a storz coupling connection between the delivery vehicle and silo, the optional Cyclone collects any dust generated during filling.



Optional ancillary equipment

- Transition piece, the silo is supplied with a clear upper discharge and slide, if our standard aperture does not match your conveyor we are able to fabricate a suitable transition.
- Cyclone dust collector, attached to the exhaust retains dust expelled during filling, minimising atmospheric dust and keeping the base clean.

Additional information

A clean, green, efficient heating method, wood pellets are usually made of highly compressed sawdust, pellet quality is essential with most systems designed to accommodate EN plus grade pellets however just by the nature of the product dust can be created during handling, which when exposed to a source of ignition can potentially create an explosive atmosphere, so often a basic silo just isn't sufficient.

Detailed guidelines for managing explosion risk can be found in the ATEX and DSEAR directives, to accommodate this we have incorporated many features into our recommended specification, but don't worry we will explain the facts and you can make your choice.

Delivery info

- Collinson Silos are delivered and erected by vehicles fitted by hydraulic tipping gear which erects the silo onto the concrete base.
- The concrete base must be easily accessible with a firm approach of all obstructions, overhead wires, trees etc.
- Overhead wires must not be too close to the silo when erected. For single silo delivery the vehicle and its load is approximately 10m long, 3.5m wide and 4.8m high. If access is not suitable the silo can be lifted into position utilising a crane.