

BIOSTOR™

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 ensure 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
- Plasteel™ (Plastic coated galvanised steel) construction
- Smooth internal walls
- Pressure relief valve (0.1 bar)
- AutoVent
- FloView™ SafetyClean
- External filler pipe with Storz coupling
- Heavy duty top filler bend (5mm wall thickness)
- 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
- Explosion panels
- BioStor™ Control Panel
- ATEX (Zone 22) High Level Sensor to prevent overfilling
- ATEX (Zone 22) Low Level Sensor to shut down the system
- (Zone 22) Explosion Panels and Burst Detection Sensors

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

SILOS CONVEYORS





Collinson specialise in the design and planning of wood pellet storage and conveying systems to suit medium to large scale installations to include commercial, agricultural and public buildings such as schools, hospitals and libraries to name just a few.

Wood pellets are a sustainable source of energy usually made of highly compressed sawdust, just by the nature of the product there are many factors to be considered when choosing your storage and a basic silo isn't sufficient, Collinson have addressed this by incorporating the necessary features in to the BioStor™ Range to provide the ideal storage solution.

Based on our extensive experience, to assist in supplying the most appropriate technology for the project, Collinson provide guidance notes for all involved in the 'system' process.

All our equipment complies with DSEAR* to provide a safe, efficient material handling solution whilst maintaining pellet quality.

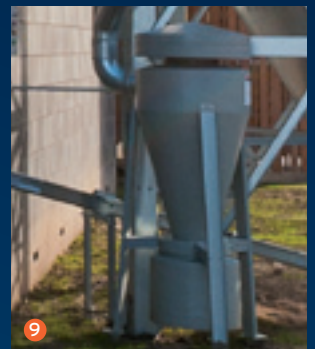
Recommended Specification

1. ATEX (Zone 22) High Level Sensor to prevent overfilling
2. ATEX (Zone 22) Low Level Sensor to shut down the system
3. ATEX (Zone 22) Explosion Panels and Burst Detection Sensors
4. Filler pipe with Storz couplings, lockable upgrade is available
5. BioStor™ Control Panel

Optional Equipment

6. ATEX (Zone 22) Re-order Sensor to prompt the operator
7. ATEX (Zone 22) Pneumatic pinch valve to prevent over filling/pressurisation
8. Adaptors, if our standard aperture does not match your conveyor we are able to fabricate a suitable adaptor
9. Cyclone dust collector to retain dust expelled during filling, minimising atmospheric dust and keeping the surrounding base clean.
 - DayStor acts as a buffer storage to supply wood pellets to the boiler when multiple silos are used
 - Centreless and vacuum Conveyors to safely transport the pellets in a closed system to contain any dust
 - Load Cells and a load cell mounting frame for accurate weighing of silo contents

*A full explanation of DSEAR and ATEX guidance and regulations is available on our website



Experience tells us that every installation is different, for specific advice on your project contact our sales team on 01995 606451

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.

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