



TOTAL VENT A RETRACTABLE ROOF POLYTUNNEL FROM HAYGROVE

(Pending International Patent Application PCT/GB2022/050212)

- Patent pending design to mechanically roll the polythene to the tunnel apex
- Providing the ultimate venting flexibility for climate management
- Fully sealable with the option of fitting retractable shade nets and steel rainwater gutters

YIELD AND QUALITY

The ability to fully open and fully close tunnel provides the agility to manipulate the growing climate to maximum effect. Yield and crop quality have the potential to excel with the improved tunnel management by boosting plant health, pest and disease management, pollination, and reduced plant stress.

Total Vent can not only protect the crop from extreme weather events, but also provides the agility for frequent and precise venting adjustment. This creates a consistently optimal environment dependant on the crop stage, diurnal fluctuations and weather.

MAXIMISING YOUR INVESTMENT

Total Vent structures are wider and higher than traditional polytunnels which brings both economic and agronomic advantages. Total Vent can be built with a leg height of up to 4 metres and a bay width of up to 10 metres. The amplified air volume buffers temperature and humidity changes, creating a more stable environment for the crop to thrive, while wider bay widths allow for an increased planting density maximising your investment.



TOTAL VENT ENGINEERING

Our patent pending design enables the roller tube to move freely up and down the hoop without high labour requirements. Operated by an electric or mechanical gearbox, the Total Vent drive system can relate to environmental farm management systems, in order to integrate the Total Vent with existing sensors and irrigation infrastructure.

Total Vent can be built with bay widths of up to 10 metres, comparable to those of a glasshouse. Haygrove can confidently offer wider bay widths due to the use of strong HSO steel. HSO steel is our High Strength Oval Steel which has proven itself to be the popular choice for growers worldwide.

Using mechanised venting no longer constricts tunnels to human working height. Vents positioned above the crop are more effective, and the Total Vent is available with a range of leg heights to suit your growing objectives. The wider bay widths and higher leg options provide the option for an increased air volume, which buffers climate fluctuations and creates a more consistent growing environment.



RAINWATER GUTTERS

Haygrove Rainwater Gutters are designed to harvest rainwater run-off from the tunnels' catchment area. Water can then be collected and stored for crop irrigation.

Gutters provide an effective seal to the leg rows, reducing the risk of water damage to crops and preventing water build up inside the tunnels. Haygrove gutters are manufactured from pre-galvanised steel, adding considerable strength to the leg row of the tunnel.

RETRACTABLE SHADE NETS

A Retractable Shade Net option offers an additional climate management tool to maximise the potential of the crop. The shade net can be deployed strategically throughout the day to balance UV light exposure and VPD management for optimal growing conditions.

A mechanised system, which operates over an area of up to one hectare at a time, pulls the shade nets on and off. This system can be used with a wide spectrum of netting types and even thermal screens to suit your specific growing requirements.



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