

Inverters

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The development of reliable inverters at reasonable prices has opened the door for many new opportunities to improve crop storage equipment, that simply weren't available before they came along. Welvent are working with the Telemecanique range, in line with their policy of using all Group Schneider electrical components.



As well as providing a speed control facility which brings new levels of control to many systems or applications – they have the advantage of reduced starting loads, which can be important where electrical supply is limited. They also have the advantage of a power factor correction effect – which could reduce running costs by around 20%, significant by any standard.

Refrigeration

The incorporation of inverters into the Welvent range of refrigeration units, has been used to provide increased levels of control over the output temperature of the system. This potentially greatly improves the temperature control in the store particularly for processing crops, or part full stores. It also reduces the running costs of the store, particularly under part load situation. Inverters are also incorporated into the condensor fan control system for improved head pressure control again with efficiency improvements, particularly in cold weather.

Fan Systems

The use of inverter technology with grain drying fans has a number of benefits.

- Reduced starting loads
- Reduced running current
- Improved control

The main benefit is the ability to use one big fan in place of 2 smaller units with consequent cost reduction, whilst still maintaining low start loads, the ability to vary the fan speed to match the tonnage is the bonus. A constant pressure control system will also automatically match the fan speed to provide the required pressure.

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