

PST

Data sheet

On-Floor Drying Control System.

The PST on-floor drying control system is used for automatic start/stop of low-pressure blower and heater.

Kongskilde PST on-floor drying control system is used for automatic start/stop of low-pressure blower and heater in an on-floor storage system according to a preset %RH condition.

Using a minimum of manual effort the PST system ensures efficient and economic drying of various crops.

The PST on-floor drying control system assists in the process of drying the

crop to the desired final moisture content. Investing in the PST system eliminates expenses for a standard star/delta starter for the low-pressure blower.

The drying process in an on-floor drying and storage system is based upon using natural air or slightly heated air. This gives very narrow tolerances for, when to start and when to stop the blower and the heat source. As the natural air constantly changes

temperature and relative humidity, it is practically impossible to control an on-floor storage system manually without a significant loss of energy. Manual control also makes it difficult to obtain the desired final moisture content, which often results in extra expenses when the crop is sold.

The PST on-floor drying control system eases the working process and will prove itself profitable within a short time.





Principle of PST

The PST system consists of a special automatic star/delta starter corresponding to the size of the blower, an outside humidistat, and a humidistat placed in the main channel. The PST star/delta starter is equipped with a main switch and a switch for blower and heater, which permits selection between manual and automatic operation through humidistats. Operation hours for blower and heater can be monitored permitting continuous control of the energy consumption.

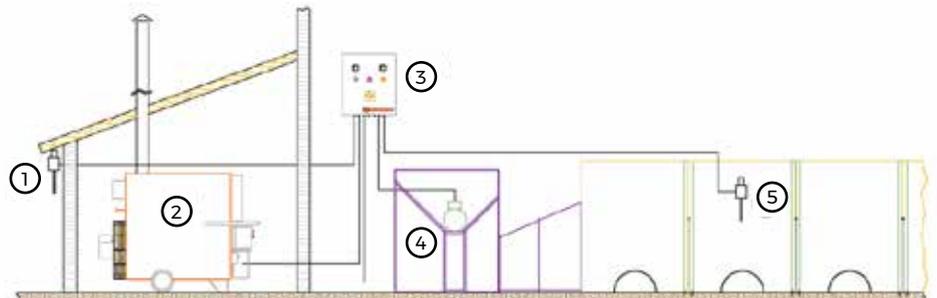
Function

When handling grain with high moisture content, most often the natural air has sufficient drying ability and the blower is therefore only controlled by an outside humidistat.

When handling grain with lower moisture content, it is profitable to add heat to obtain the desired final moisture content as soon as possible. The heat source is controlled by a humidistat placed in the main channel. This humidistat is adjusted to a relative humidity according to the desired final moisture content of the grain.

Furthermore, the outside humidistat can be adjusted so the blower/heat source is switched off automatically if the natural air has an extremely high relative humidity. Blower and heater are switched on automatically, when the humidity has fallen to an acceptable level again.

Using the PST system ensures that the blower and heater are controlled in a manner that carries out the correct drying process in the shortest possible time with a minimum consumption of energy.



1. Humidistat, outside
2. Heat source
3. PST control panel
4. Low-pressure blower
5. Humidistat, main channel

PST Control System	Motor size
PST 100	7.5 kW
PST 150	11 kW
PST 250	18.5 kW
PST 400	30 kW
PST 500	37 kW
PST 600	45 kW
Humidistat/hydrostat	

Kongskilde Industries A/S

Tel.: +45 72 17 60 35

grain@kongskilde-industries.com

www.kongskilde-industries.com