

Data Sheet 85

DRYER CONTROL UC-85



Cimbria Dryer Control is a unique control system for all Cimbria Continuous Flow Dryers.

The panel is equipped with starters for all motors.

The Motor Starter / Control Panel is controlled from a Computer where the Dryer is split in detailed screens. Here process-parameters can be adjusted; process-measurements and status of Fans, Heater and Discharging etc. are shown.

The control system is constructed to meet exactly the needs of each single grain, to obtain a long storage time and high germination.

The control system is prepared for Cimbria Dryers and customized for all kinds of units delivered together with the Cimbria Dryer.

Faults from the related units occur on the Alarm list, and a signal for Siren/Horn/Bell is tripped.



The Control Panel has to be placed in a controlled environment.

The control system uses symbols guiding the operator.

The main page consists of several touch areas related to features of the control system.

Main picture (Process picture)

10 relevant grain species to be stored and recalled

Detailed settings of each Recipe

Discharge parameters

Trend with all relevant temperatures displayed

Cooling section control for changing area of cooling

Fan details with all fans and air shutters

Service data

Alarm list - Ongoing alarms

Max. load	Dryer dependent
Operating voltage:	3 x 400 / 230 Vac.
Frequency:	50 Hz
Operating temperature:	0 °C ...+35 °C
Input Voltage:	24 Vdc.
Output relays	NO contacts
Temperature sensors	PT100



Start-up of the dryer is done in only 3 steps. First start Fans then Burner and when temperature is right then start the Discharge.

The discharge will now run a timer cycle depending on the set Pause time. Each time there is a discharge the Burner will go on small flame and the Fans / Airflow will stop to prevent dust from coming out of the Dryer, as soon as the Discharge is finished Fans and Burner will restart.

Dryers with adjustable Cooling zone are equipped with motorized flaps and can be operated from the Computer.

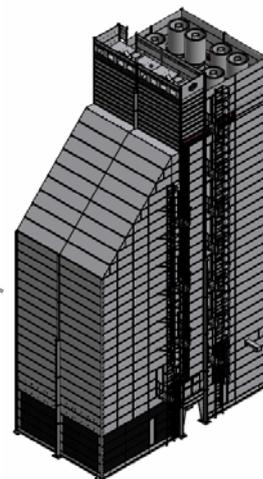
Trends will display all relevant temperatures at all times.

There is a service module displaying operational hours of all motors, and when the set point of maintenance is reached, an alarm in the alarm list will be raised.

The control is supplied with a manual mode for testing all motors and air valves in service mode.

Detailed schematics for all cables are supplied with each dryer.

Communication between Computer and Panel is Ethernet.



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