Columbus

a round controller for a round world

AGM 20 Basic

Agromatic

A Technocon Company

The Columbus AGM 20 Basic climate controller is an advance easy to use 20 or more stage
controller developed specially for modern tunnel ventilated poultry houses .
The Columbus have a color touch screen for easy operation with help of its ICON operation system .
The Columbus can operate 3 Heat zone Minimum ventilation, Tunnel ventilation total 9 fan stage,
Air inlet, Cooling curtain, Cooling, Light, feed and water .
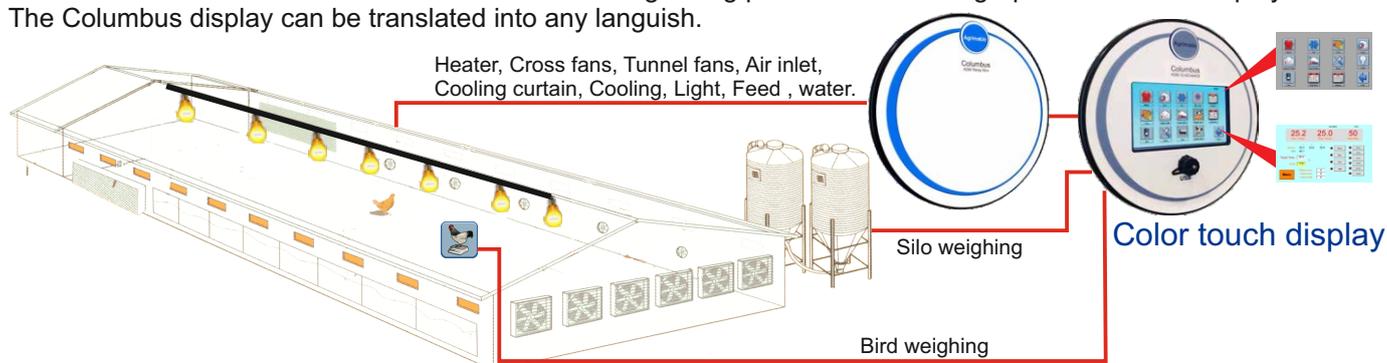The Columbus have option for silo weighing , Bird weighing , Co2 control as well humidity control.
The Columbus have a automatic temperature reduction curve and a weight curve for automatic calculation
of the minimum ventilation.
The Columbus have a USB port for transfers of all its set point to other Columbus controller on the farm
for easy set up.
The Columbus will collect information as temperature, humidity, water consumption, feed consumption.
(option bird weighing silo weighing)
The Columbus will show the collect info for the whole growing period in table and graphs on its color display.
The Columbus display can be translated into any languish.

Heater, Cross fans, Tunnel fans, Air inlet,
Cooling curtain, Cooling, Light, Feed , water.

Silo weighing

Bird weighing

Color touch display

The Columbus AGM 10 climate controller can be ordered for various application as a OEM product .
To the Columbus AGM20 Basic the following equipment can be connected.
20 or more relay output, Up to 2 Silo weigher, 2 bird weigher, Humidity sensor,Co2 sensor, Static pressure sensor.

Columbus AGM 20 Basic

The Columbus AGM 20 basic climate controller have the following function:
3 Heater, 9 Fan group, 1 Cooling, 1 Air inlet ,1cooling curtain, light timer, feed timer,1 Alarm for high and low temperature.
It is possible to set the minimum ventilation groups working on a cycle timer according to the weight curve calculation.
It is possible to set the minimum fan group to rotate between the minimum fan group so each time another fan group will
be the minimum ventilation group to give a even air flow in the house.
The Cooling have a on/off timer, If a humidity sensor is connected it is possible to stop the cooling when the
humidity is high by a set point. If the humidity is over a humidity set point a additional fan will be activated.
An automatic temperature curve will deduct the requested temperature for the whole growing period.
A automatic weight curve will calculate the minimum ventilation timer and add more fans if needed for the minimum
ventilation.
The position of the air inlet or cooling curtain can be set for each fan step in %.
The Air inlet/ cooling curtain will move to each new position according to the fan operate in the house.

The Columbus has 3 stage of climate control.

The Columbus will change the stage automatically according to the measured inside and out side
temperature .
* Cross ventilation air is going through air inlet cross fan are working.
* Transition ventilation air is going through air inlet and tunnel fan are working.
* Tunnel ventilation air is going in through cool curtain tunnel fan are working.

Columbus AGM 20 Basic output

Color touch display

Columbus AGM 20
Technical specification
110 to 260 volt operation.
4 analog input for temperature sensor.
3 digital input for water count feed count feed back
  from inlet.
2 0 to 10 volt out for light dimmer and speed control.
1 Isolated RS 485 for optional silo weigher.
1 RS 485 for additional sensor as Humidity, CO2,
  Temperature sensors, Static pressure sensor,
  Bird weigher,
1 USB port.

ALARM

FAN

COOL

HEAT

USB PORT

LIGHT

INLET / CURTAIN   CHICK SCALE   SILO

info@technocon-eng.com   www.agro-matic.com