

# Clima 500

- Complete climate control
- User-friendly interface
- Efficient energy management
- Reliable operation



Optimum climate control  
in up to 14 greenhouse blocks !

The Clima 500 provides fully automated climate control for modern horticultural businesses of up to 14 blocks (or zones). Since the computer is tailor-made to your specific requirements, you only pay for what you actually going to use. This is not only advantageous in terms of cost, but also enhances its ease of operation. Extensive use in the field has demonstrated that the Clima 500 is a sound and reliable climate computer.

**HortiMax**  
growing solutions



# Clima 500

## Synopta®

Synopta® is the Windows-based software which allows you to operate the Clima 500 and registers all of the measurement data from the sensors. It features a user-friendly interface for viewing and adjusting controlled variables. Thanks to its extensive data display options, virtually all variables can be shown in summaries or graphs.

## Controls

Regular program updates ensure that the Clima 500 continues to meet the latest requirements. It features centralized controls for boiler systems, a Combined Heat & Power (CHP) unit and a buffer tank (set up as either a conventional or open buffer) or parallel buffer tanks. Also included is a Gas Meter Feedback module which ensures that you do not exceed the gas consumption limits specified in your gas contract.

The Clima 500 includes the following controls for each block:

- Central heating (3 separate heating systems)
- Hot-air heating
- Ventilation (roof and side-wall ventilation)
- Fans
- Temperature integration
- Fogging (also suitable for roof sprinkling)
- Humidity
- Pad & fan
- Screens (2 individual screens)
- Supplementary lighting
- Cyclic lighting
- CO<sub>2</sub> enrichment
- Crop protection

The Clima 500 also contains a 'free programming' section to customize the unit to your own unique needs.

## Measurements

A wide range of measurement options are available to ensure optimum control. For instance, the Clima 500 can be connected to an Ektron-II C sensor box for fast and accurate temperature, humidity and CO<sub>2</sub> readings. An added advantage of the Ektron-II C is that it hardly requires any maintenance. Two sensor boxes can be connected for each block (or zone) and control can be based on either one sensor box or the average of both.

The computer can also be linked up to an IR plant temperature sensor which measures the crop temperature in a particular block. This value enables the computer to calculate the fruit temperature. If the fruit temperature is too low, there is a risk of condensation forming on the fruit surface which may lead to disease and loss of quality. A plant temperature sensor therefore allows you to adjust climate control before condensation can occur. If you need more inputs than provided on the basic model, an expansion cabinet is available which includes an additional 32 inputs and 64 outputs.

## More information?

Please contact HortiMaX +31(0) 15 362 03 00 or one of our dealers near you. You can also visit our website at [www.hortimax.com](http://www.hortimax.com).

Technical specifications	
Housing	Metal
Dimensions (l x w x d)	40 x 60 x 21,5 cm
Weight	25 kg
Power supply	180 - 250 VAC/ 50-60 Hz (other voltages available)
Connected load	100 VA (and an additional 100 VA for each expansion cabinet)
Inputs	32 (0-4 mA)
Outputs	64 (24 VDC, 50 mA)
Communication	1 x RS-232
Alarm outputs	Potential-free (maximum starting current is 50 mA, 24 VDC)