

## climate control

THE R&D&I DEPARTMENT AT **ULMA AGRÍCOLA**, TAKING ADVANTAGES OF ITS EXPERIENCE IN THE SECTOR, HAS DEVELOPED A WIDE RANGE OF EQUIPMENT TO FULLY AUTOMATE ITS GREENHOUSES.

AT THE MOMENT **ULMA AGRÍCOLA** COUNTS ON AN EXTENSIVE RANGE OF CLIMATE CONTROLLERS IN WHICH THE LATEST GSM TECHNOLOGY CAN BE INCORPORATED, AS WELL AS VARIOUS SENSORS, INVERTER BOXES AND SIGNAL AMPLIFIERS.

### climate control

The large LCD screen, along with the detailed menus, makes this a user-friendly tool in spite of its high level of sophistication. It is your best friend to get the most of your installation.

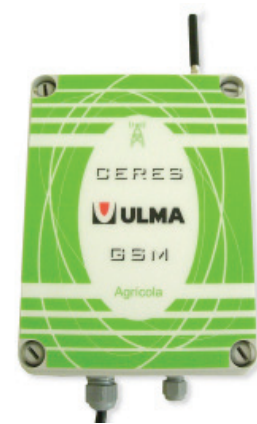


### GSM technology

CERES is a module that allows the latest GSM technology to be incorporated in the Micro Climatic System climate controller. It is a remote surveillance, control and supervision system that gives the user greater peace of mind while away from the facility.

CERES counts on a list of mobile telephones, which the user can fully configure, from which queries can be made, manoeuvres performed and notices received about any incident in the facility, using simple SMS text message.



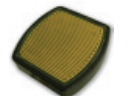



CERES allows the user to know the status of the facility anytime, anywhere.



### sensors

**ULMA Agrícola** offers a Wide variety of top- quality sensors, in keeping with the precision and reliability required for all of the components of our climate control system.

Using these sensors, even the most complete meteorological station can be configured.

ANEMOMETER	THERMOMETER	RAIN SENSOR	WEATHER VANE	PYRANOMETER	COMBINED TEMPERATURA AND HUMIDITY
					

### inverter boxes and signal amplifiers

Inverter boxes with circuit breaker protection to control the rotation direction of the fan motors and screens.

All of the power phases consist of top-of-the-range components.

The equipment protection level is IP-55 (dust and water).



# quality and technology...

... for agriculture



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## Greenhouses

Tunnel · Circular Multispan · Gothic Multispan · Integral Equipment



# ULMA

Agrícola

# ULMA



ULMA AGRÍCOLA IS A COMPETITIVE EVER- DEVELOPING COMPANY THAT IS SPECIALIZED IN COLLABORATING WITH GROWERS, PROVIDING A COMPREHENSIVE RANGE OF UNDER COVER GROWING SYSTEMS.

operating in more than 50 countries

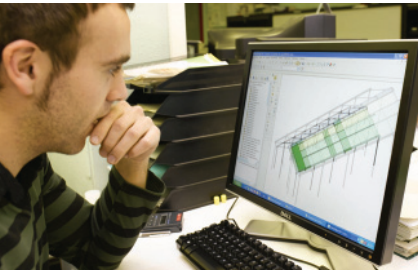


It fulfils European design and installation regulation in force under the **UNE 13031-1 STANDARD**, using processes in which the total Quality policy prevails having received the **ISO 9001** certificate.



Since 1979 **ULMA Agrícola** manufactures its own materials to build greenhouse structures, using completely automated processes ranking from shaping the tube to the end product and distribution thereof.

Its large multidisciplinary engineering department is trained to undertake any Project succesfully, applying the largest design and calculation technology to make the most of the customer's available resources.

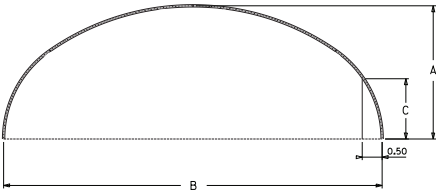


TUNNEL

**ULMA Agrícola's** TUNNEL range offers a high quality greenhouse made of galvanised steel and designed to optimise the terrain.

The alternatives in coverings, ventilations and frontal solutions facilitate their use in different applications.

Model	8,50	9,50
<b>A</b> - Ridge height	3,20	3,30
<b>B</b> - Width	8,50	9,50
<b>C</b> - Height to 0.5m.	1,70	1,70



integral equipment

**ULMA Agrícola** advices you about the most adequate equipment to obtain the suitable climate for each type of crop.

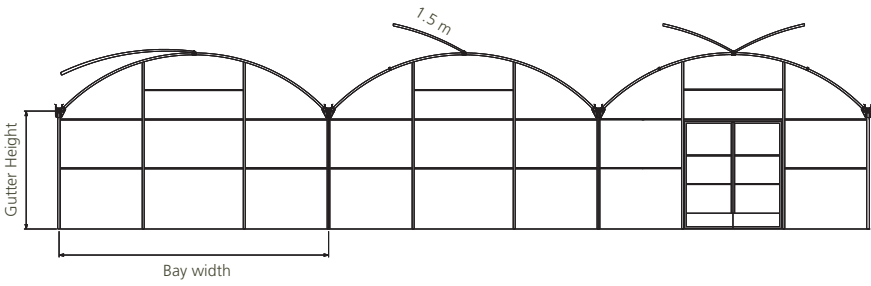
**ULMA**, with its greenhouses, enable not only the covering of an area but the creation of different microclimates modifying several parameters: temperature, humidity, light, etc. that affect the increase in productivity an quality inside the greenhouse using thermal screen, heating, humidification, extracting fans, air moving fans, etc.



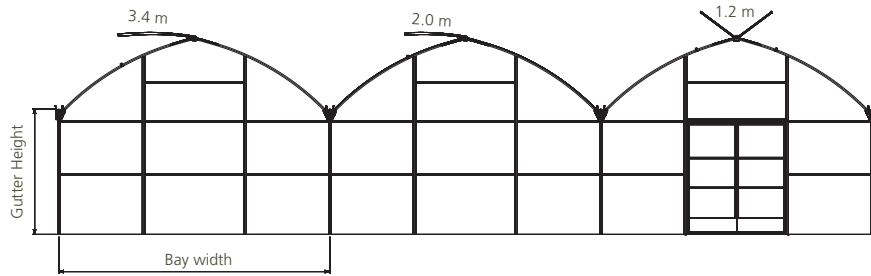
ULMA'S MULTISPAN GREENHOUSE IS A MODULAR EASY TO INSTALL SYSTEM DESIGNED TO CREATE OPTIMUM CONDITIONS FOR EACH CROP

MULTI SPAN

CIRCULAR MULTISPAN (M)



GOTHIC MULTISPAN (G)



Multi Span range, the Gothic Model, is designed to achieve more inside space. The gothic form of the structure and the slope of the arches makes better use of sunlight and also reduces the risk of dropping onto the crop, due to a better drainage into the gutters. The structure design makes the most of the inside space available in the greenhouse.

MODEL	M-6	M-8	M-9	G-8	G-9
Bay width	6,40	8,00	9,00	8,00	9,60
Spans	2,50	2,50	2,50	2,50	2,50
Distance between external pillars	2,50	2,50	2,50	2,50	2,50
Distance between internal pillars	5,00	5,00	5,00	5,00	5,00
Crop support bar	5,00	5,00	5,00	5,00	2,50
Gutter Height	3,50 4,00 4,50 5,00	3,50 4,00 4,50 5,00	3,50 4,00 4,50 5,00	3,50 4,00 4,50 5,00	3,50 4,00 4,50 5,00
Ridge height	4,85 5,35 5,85 6,35	5,20 5,70 6,20 6,70	5,45 5,95 6,45 6,95	5,60 6,10 6,60 7,10	6,00 6,50 7,00 7,50

growing facilities

Growing vegetables, decorative plants and cut flowers are some of the most common activities that **ULMA Agrícola** greenhouse have been dedicated to.

Usually this kind of facilities are equipped with a range of indoor climate control equipment.



industrial buildings

In this case, the covering most commonly used is rigid plate, polycarbonate or sandwich panel.

In order to achieve the maximum trusses or K reinforcements are used to have more space between the pillars, allowing vehicles to drive around inside.



livestock farms

All kind of farms have been equipped with under cover greenhouse structures using any of the covering materials that **ULMA Agrícola** provides.

This make these facilities difficult to distinguish outwardly from the industrial buildings or growing facilities.



garden centres

Like any retail establishment, Garden Centres aim to look alter design and details. This is why the most popular covering for this type of facility is the plate of glass panel cover.

Thermal screen and growing benches are very useful as inside equipment.



other

The different options and reinforcements that **ULMA** provides in its greenhouses, as well as the various solutions for coverings, automations and equipment, determine the possibility of using the structure in any application requested by the client.

In this way, real productive systems are created, backed by the consulting and service that **ULMA Agrícola** offers, facilities for a variety of crops, establishments for livestock, etc.

