

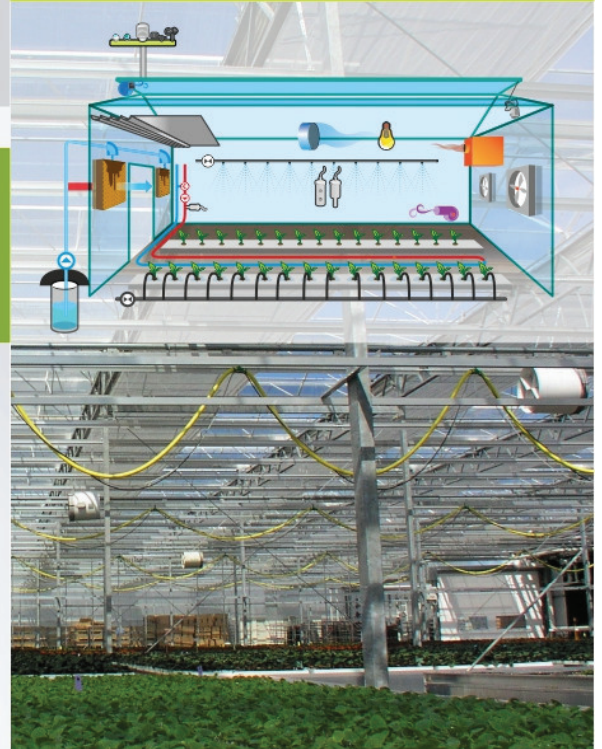
Controller for the complete management of the greenhouse climate up to 4 environments.

DESIGNED&PRODUCED BY SPAGNOL

C-Fenix



{...the tranquillity of doing the right thing at any time...}



In every greenhouse the accurate control of the climate is a fundamental requirement to guarantee the optimal growing conditions of the cultivation.

C-Fenix is intelligent, efficient, precise and reliable. It controls the climate based on the real growth needs of the cultivation, optimizing energy consumption. Each greenhouse, both for the area of placement and for the type of cultivation need specific plants.

C-Fenix can manage any type of plant installed in the greenhouse. With the **MC-Net**, **MC-Cloud**, **MC-SMS** services, the user always has complete remote control of the system.

C-Fenix Climate controller

Controller of the climate up to 4 environments and up to 4 daily periods.

C-Fenix is a climatic controller suitable for all those installations that, even if simple, require a precise and reliable control of the technological plants in the greenhouse. Suitable for the control of up to 4 environments (max.4 daily periods) it is completely configurable and expandable to adapt to every need of control.

An intuitive graphic interface with icons makes the controller easy to use and simplifies the programming and visualization of the process parameters.

The MC-Net supervision software connected to C-Fenix becomes a powerful system of control, supervision and analysis on the computer both in the company and outside.



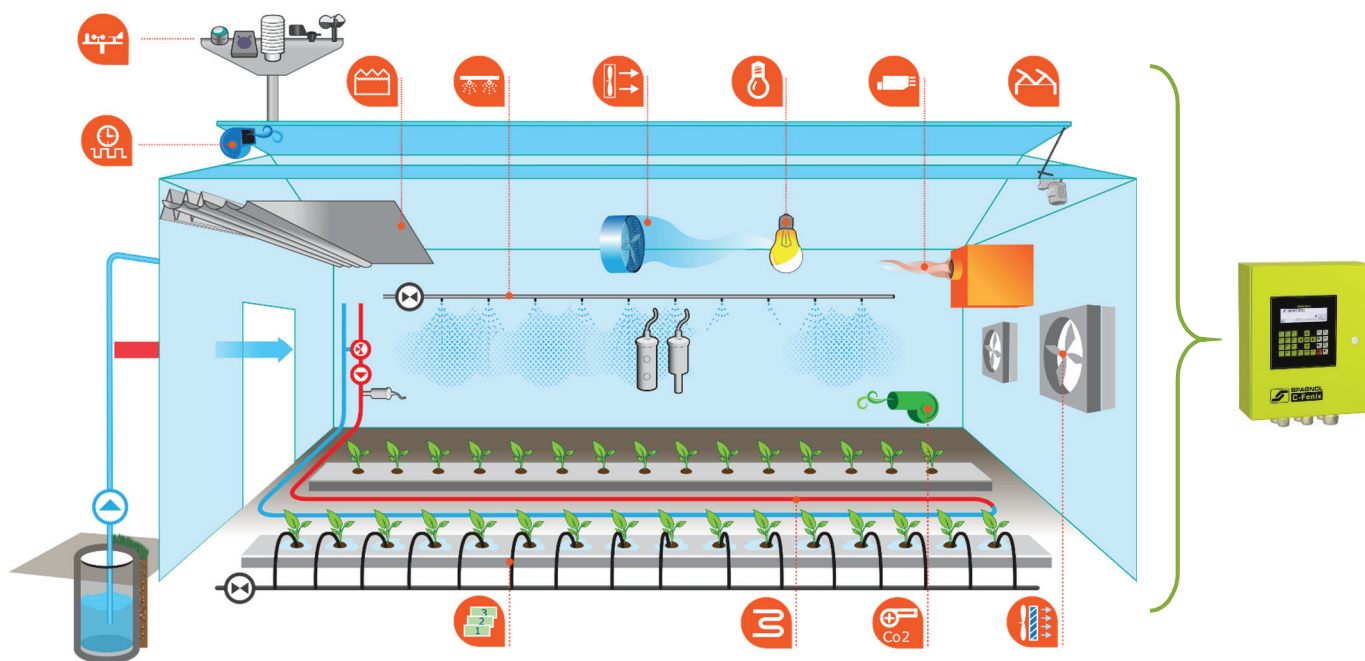
The mobile modem accessory allows you to receive text messages or calls in case of alarms or anomalies. On C-Fenix with 230 / 240VAC power supply, this accessory combined with the power backup accessory allows you to be informed in case of power failure from the network.




Like all Spagnol controllers, C-Fenix can also be supervised with Spagnol MC-Cloud and managed through the Web portal or with the Android and iOS app. The connection can be made via a network cable (with internet connection) or by installing the mobile modem accessory. In any case, it is always possible to supervise C-Fenix on-premises (installation on site) using the Spagnol-MCNet supervision software. Mixed cloud/on-premises solutions are also possible.



- Up to 4 climatic environments
- 4 daily periods
- Dynamic control assignments



C-FENIX BASE:

	Code	Description
	302001010	FENIX-M-23S-C, C-Fenix Controller base with electric power of 220-240VAC 50-60Hz, completed of: <ul style="list-style-type: none"> • 8 relay outputs⁽¹⁾ for the command of 24VAC loads⁽²⁾ • 8 S-BUS sensor inputs⁽¹⁾ • 2 free slots for I/O expansion boards

⁽¹⁾ Outputs and inputs have predefined factory function (see product manual). Outputs and inputs function can be customized by using the USB console cable or Bluetooth console board (see Accessories). ⁽²⁾ Maximum total load: 80VA.

C-Fenix base doesn't have any sensors or control program.

Sensors (both weather and environment), control programs, expansion boards and expansion box shall be added based on needed of control.

METEO SENSORS:

Description	Code	Description	Code
 Wind speed sensor	303002011	 Rain presence sensor	303002013
 Wind direction sensor	303002012	 Radiation sensor	303002001
 Temperature and humidity sensor	303002014	 Sensors support	303002021








Every sensor uses 1 input sensor S-BUS on C-Fenix. C-Fenix base has 8 input sensors S-BUS. If the input sensors are not enough, a board of 8 input sensors can be added (code ESH0144). C-Fenix has place for other 2 expansion boards. More boards can be added with more expansion box. (see 'Accessories')

CLIMATE ZONE SENSORS:

Description	Code	Description	Code
 Electronic temperature and humidity sensor with environmental protection	303001001	 Dry bulb/wet bulb temperature and humidity sensor in ventilated box	303001003
 Electronic temperature and humidity sensor in ventilated box	303001002	 CO2 sensor in ventilated box	303001004
 Heating pipe temperature sensor	303003001		

Every sensor uses 1 input sensor S-BUS on C-Fenix. C-Fenix base has 8 input sensors S-BUS. If the input sensors are not enough, a board of 8 input sensors can be added (code ESH0144). C-Fenix has place for other 2 expansion boards. More boards can be added with more electric panel expansions. (see 'Accessories')

CONTROL PROGRAMS:








Control:	A - Max. control number	B - Outputs for each control	Code
 Climate zone to control	4	-	ATT0101
 Vent control	8	2	ATT0102
 ON/OFF heating control	4	1	ATT0103
 Modulating heating control	8	3	ATT0104
 Fan control	4	1	ATT0105
 Fog valve control	4	1	ATT0106
 Fog pump control	1	1	ATT0107
 Screen control	4	2	ATT0108
 Cooling control	4	4	ATT0109
 CO2 dosing control	4	1	ATT0112
 Light control	4	1	ATT0111
 Inflating control	4	1	ATT0110
 Alarm output	1	1	

EXPANSION BOARDS

Description	Code	Description	Code
 8 relay outputs board	ESH0141	 8 S-BUS inputs board	ESH0144

C-Fenix has place for other 2 expansion boards. More boards can be added with more electric panel expansions. (see 'Accessories')

ACCESSORIES:

Description	Code	Description	Code
 Cellular modem for alarm reporting and cloud service* (*subscription required)	304003001	 Expansion boxes	Page 131
 Backup power (only for FENIX-M-23S-I)	Page 133	 Console USB cable	EAP0816
 Cloud service	Page 146	 Console Bluetooth board	304003006
 MC-Net supervision software	Page 144		