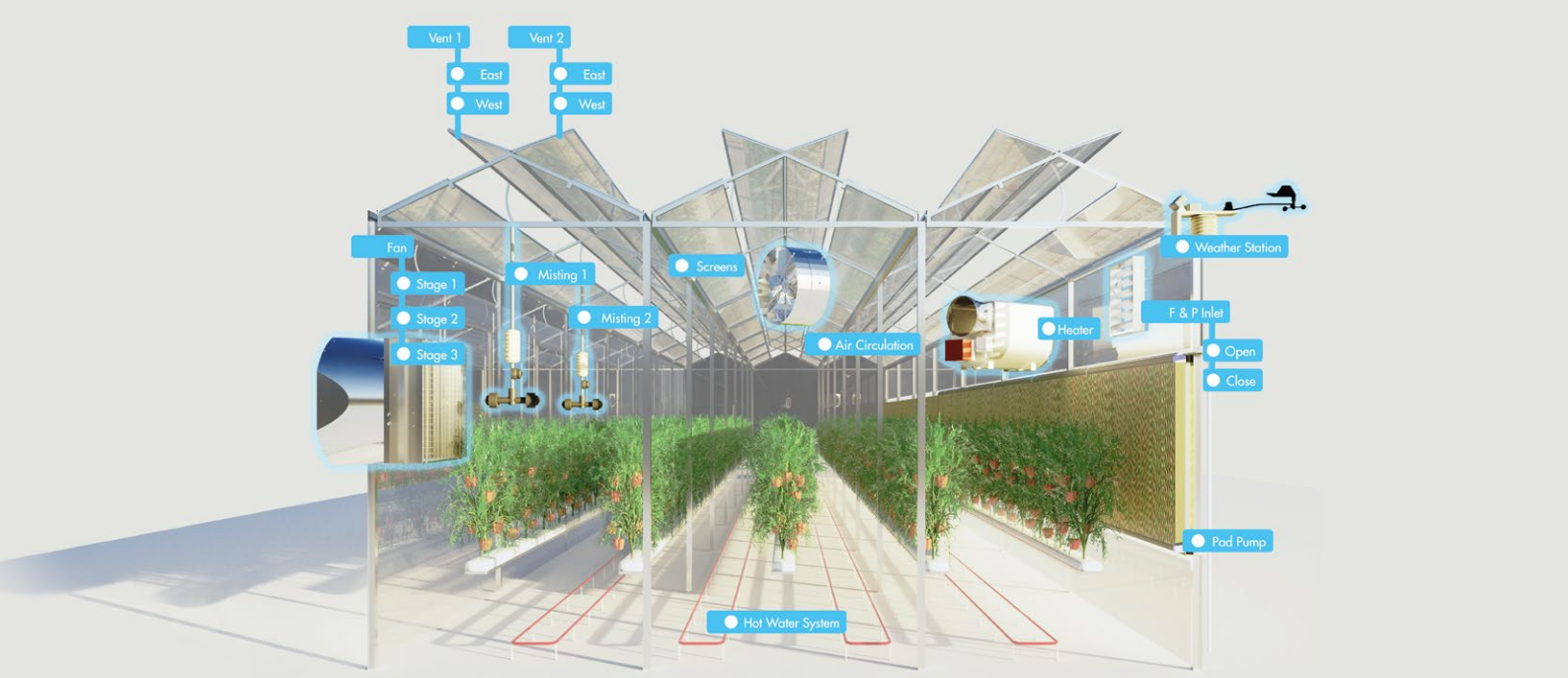


Climate & Irrigation Controllers

2022



Greenhouse Automation



GreenClimate

Munters GreenClimate controller helps to achieve a higher climate uniformity and the desired indoor conditions, managing parameters like:

- Temperature (cooling, heating)
- Relative humidity (ventilation, air circulation, heating)
- Climate uniformity (air circulation)

GreenClimate can manage up to 4 independent zones:

- Weather station information is shared between all climate zones
- A network of interconnected controllers is able to control up to 50 zones

Note: communication cards sold separately, must be added when ordering the controller

Text	Description
GRH	Greenhouse
EN	English
DO	Digital Output
DI	Digital Input
AI	Analog Input
Z	Zone
DD	Double Door

Product description	Code
GREEN CLIMATE -GRH-EN-MUR-230V-DO16-8DI-11AI-1Z	960-01-00001
GREEN CLIMATE -GRH-EN-MUR-230V-DO16-8DI-11AI-1Z-DD	960-01-00002
GREEN CLIMATE -GRH-EN-MUR-115V-DO16-8DI-11AI-1Z	960-01-00003
GREEN CLIMATE -GRH-EN-MUR-115V-DO16-8DI-11AI-1Z-DD	960-01-00004
GREEN CLIMATE -GRH-EN-MUR-230V-DO16-8DI-11AI-2Z	960-01-00005
GREEN CLIMATE -GRH-EN-MUR-230V-DO16-8DI-11AI-2Z-DD	960-01-00006
GREEN CLIMATE -GRH-EN-MUR-115V-DO16-8DI-11AI-2Z	960-01-00007
GREEN CLIMATE -GRH-EN-MUR-115V-DO16-8DI-11AI-2Z-DD	960-01-00008
GREEN CLIMATE -GRH-EN-MUR-230V-DO16-8DI-11AI-3Z	960-01-00009
GREEN CLIMATE -GRH-EN-MUR-230V-DO16-8DI-11AI-3Z-DD	960-01-00010
GREEN CLIMATE -GRH-EN-MUR-115V-DO16-8DI-11AI-3Z	960-01-00011
GREEN CLIMATE -GRH-EN-MUR-115V-DO16-8DI-11AI-3Z-DD	960-01-00012
GREEN CLIMATE -GRH-EN-MUR-230V-DO16-8DI-11AI-4Z	960-01-00013
GREEN CLIMATE -GRH-EN-MUR-230V-DO16-8DI-11AI-4Z-DD	960-01-00014
GREEN CLIMATE -GRH-EN-MUR-115V-DO16-8DI-11AI-4Z	960-01-00015
GREEN CLIMATE -GRH-EN-MUR-115V-DO16-8DI-11AI-4Z-DD	960-01-00016

Accessories



Expansion Box

- Water and dust tight
- Indoor use only
- Each controller can support up to 3 expansion boxes
- Adds up to 64 relays
- Maximum of 256 relays in a network
- Cards not included, sold separately

Product description	Code
GREEN CLIMATE EXP-L -GRH-EN-MUR-230V	960-02-00001
GREEN CLIMATE EXP-L -GRH-EN-MUR-115V	960-02-00002



Weather Station

Provides data on outdoor conditions:

- Temperature
- Humidity
- Wind speed
- Wind direction
- Rain detection
- Radiation

Product description	Code
GREEN W.STATION-WD-WS-SR-MUR-230V	960-07-00001
GREEN W.STATION-WD-WS-SR-MUR-115V	960-07-00002



CO₂ Sensor

Measures CO₂ and sends data to GreenClimate to increase ventilation, needed to add CO₂, or to manage CO₂ injection through tanks or direct heaters.

- Range: 0 - 5000 PPM
- Accuracy: +/- 3%
- Data transmitted using a 4 - 20 mA output

Product description	Code
CO2-GRH-MUR	960-14-10007

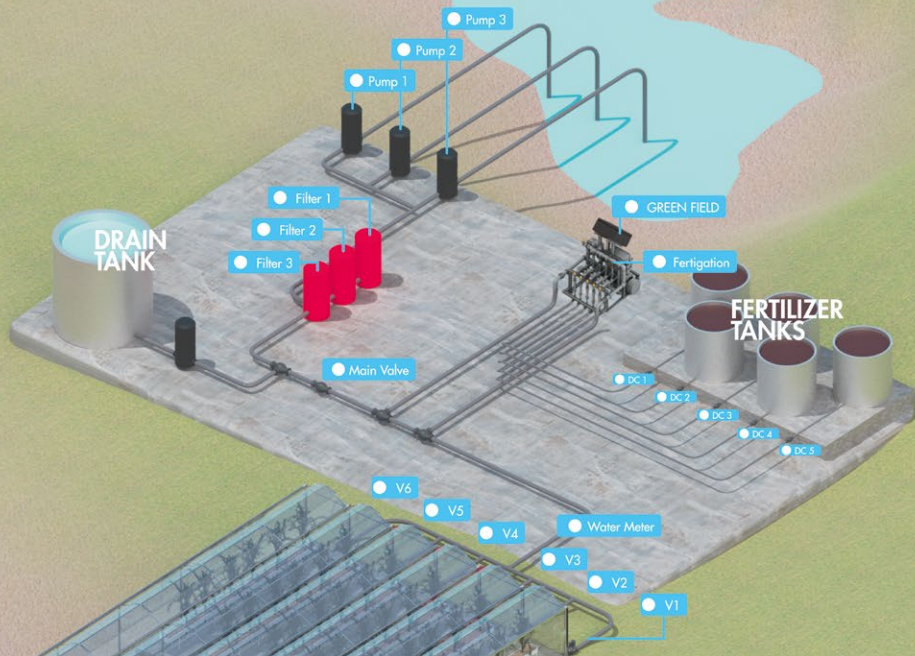


GreenBox T+H

Unit includes a temperature and a humidity sensor and sends data to GreenClimate to initiate dehumidification, heating or cooling processes.

- Relative humidity range: 0 - 100%. User define RH set point to trigger dehumidification process
- Temperature range: -30° to +50° C
- Easy to maintain or repair in the unfortunate case of malfunction

Product description	Code
GREEN BOX-GRH-EN-MUR-T	960-08-00004
GREEN BOX-GRH-EN-MUR-T-RH	960-08-00005



Irrigation Automation



GreenField

Munters GreenField controller provides control and management over irrigation systems, maximizing the yield and the quality of the harvest while automating irrigation and fertigation processes. GreenField helps to boost plants growth and gives the exact amount of water and nutrients the plant needs, to reduce waste and environmental impact.

- Modular design allows scalability to grower's exact needs
- Precision operation with dynamic irrigation programs, responding to environmental inputs
- Punctual control over fertilizer supply and dosing programs
- Supports large amount of analog input/output devices, digital/pulse inputs, relays dry contacts, DC latch outputs
- Up to 64 outputs or 256 with expansion boxes

Note: communication cards sold separately, must be added when ordering the controller

Text	Description
GRH	Greenhouse
EN	English
DO	Digital Output
DI	Digital Input
AI	Analog Input
Z	Zone
DD	Double Door

Product description	Code
GREEN FIELD -GRH-EN-MUR-230V-DO16-8DI-11AI	960-03-00001
GREEN FIELD -GRH-EN-MUR-230V-DO16-8DI-11AI-DD	960-03-00002
GREEN FIELD -GRH-EN-MUR-115V-DO16-8DI-11AI	960-03-00003
GREEN FIELD -GRH-EN-MUR-115V-DO16-8DI-11AI-DD	960-03-00004
GREEN FIELD-GRH-EN-MUR-230V-DO0-8DI-11AI-PAN	960-03-00014

Irrigation Automation



GreenField ECO

Munters GreenField ECO controller provides control and management over small to medium size irrigation systems, maximizing the yield and the quality of the harvest while automating irrigation and fertigation processes. A cost-effective, not scalable solution with a large range of functionalities.

- Advanced EC/pH control
- Irrigation according to quantity, time, external conditions
- Dynamic irrigation and dosing programs
- Up to 15 outputs
- No modular expansion capabilities
- Hardware package supports analog and digital inputs
- Program supports filter flushing, cooling, misting programs

Note: communication cards sold separately, must be added when ordering the controller

Product description	Code
GREEN FIELD ECO -GRH-EN-MUR-230V-DO15-6DI-5AI	960-04-00001
GREEN FIELD ECO -GRH-EN-MUR-230V-DO15-6DI-5AI-DD	960-04-00002
GREEN FIELD ECO -GRH-EN-MUR-115V-DO15-6DI-5AI	960-04-00003
GREEN FIELD ECO -GRH-EN-MUR-115V-DO15-6DI-5AI-DD	960-04-00004



GreenJet

Munters GreenJet is a complete fertigation unit and includes pump, dosing channels and water loop.

Compatible with Munters GreenField, GreenField ECO and EC-pH, all sold separately.

Accessories



Text	Description
MT	Metal Panel Mount
D	Dual Sensors Readings



Green EC-pH

This transmitter is designed to receive a signal from the EC and pH sensors that measure the water acidity (pH) and electrical conductivity (EC) and translate the signal into a 4 – 20 mA output to be read by GreenField or GreenField ECO or third party controller.

- Accurate EC data for an exact supply of fertilizer
- pH measurement to prevent nutrient deficiencies or toxicity
- Available in plastic box (single unit) or metal box (single or double unit)

Product description	Code
GREEN EC-PH -GRH-EN-MUR	960-05-00001
GREEN EC-PH -GRH-EN-MUR-MT	960-05-00002
GREEN EC-PH -GRH-EN-MUR-D-MT	960-05-00003

Product description	Code
EC ELECTRODE PT100 12 MM	960-99-00043

Product description	Code
PH GLASS 12 MM BNC CONNECTOR	960-99-00044

Expansion Box

- Water and dust tight
- Indoor use only
- Each controller can support up to 3 expansion boxes
- Adds up to 64 relays
- Maximum of 256 relays in a network
- Cards not included, sold separately

Product description	Code
GREEN FIELD EXP-L-GRH-EN-MUR-230V	960-15-10001
GREEN FIELD EXP-L-GRH-EN-MUR-115V	960-15-10002

Weather Station

Provides data on outdoor conditions:

- Temperature
- Humidity
- Wind speed
- Wind direction
- Rain detection
- Radiation

Product description	Code
GREEN W.STATION-WD-WS-SR-MUR-230V	960-07-00001
GREEN W.STATION-WD-WS-SR-MUR-115V	960-07-00002

Communication

GreenField App

Munters GreenField App, an advanced app used to connect to GreenField or GreenField ECO controllers, enables full management over the irrigation and fertigation operations anywhere, anytime.

- 24/7 access to irrigation controllers
- Simple and enhanced user experience
- Web, Cloud, and cellular connectivity
- Push notifications
- Multiple user privileges
- Irrigation controllers analytics
- Multi language support

Compatible with Munters GreenField or GreenField ECO and available for iOS and Android by downloading the application RotemNet Web. For networks with Munters GreenClimate controller, Munters GreenNet is the only viable option.

GreenNet

GreenNet communication and management PC software can manage an entire line of controllers (climate or irrigation and climate). This software allows the farmer to collect and view data, displayed in tables or graphs, and to change settings remotely using the TeamViewer platform.

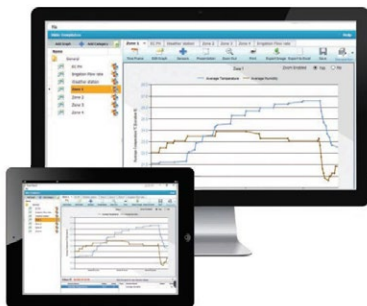
- User friendly Graphic User Interface
- Remote control over configuration and management
- Analytics of each controller's performance
- Available with climate controller or irrigation and climate (combined) controllers

CommBox

Munters CommBox enables remote access to Munters climate, irrigation and fertigation controllers (GreenClimate, GreenField and GreenField ECO) from any computer, tablet or smartphone. Once the connection to the system is set, CommBox allows controllers management through Munters GreenField App or Munters GreenNet.

Product Description	Compatible with	Code
COMMBOX-GRH-EN-MUR-JB485-WEB	GreenField App	960-13-10001
COMMBOX-GRH-EN-MUR-CMGB-JB485-WEB*	GreenField App	960-13-10029
COMMBOX-GRH-EN-MUR-JB485	GreenNet	960-13-10019
COMMBOX-GRH-EN-MUR-CMGB-JB485*	GreenNet	960-13-10027
CommBox retrofit kit for GreenField App MSATA SSD 32GB COMMBOX GREENFIELD APP	GreenField App	960-99-00114

*With global modem



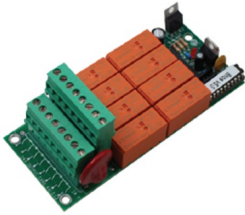
Accessories



Communication Card

The communication card RS485 is required to connect the controller to CommBox. Suitable for GreenClimate and GreenField.

Product description	Code
GREENHOUSE CONT. COMMUNICATION RS485 CARD	960-99-00006

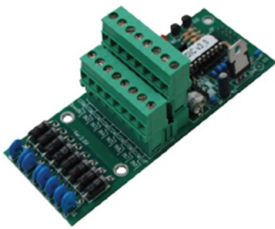


Digital Outputs Card (24V and dry contact)

The digital outputs cards are needed to add up to 8 digital outputs to the controller (or to the expansion box).

- Up to 5 cards 24V can be installed in the controller (or in the expansion box)
- Up to 3 dry contact cards can be installed in the controller (or in the expansion box)

Product description	Code
24V digital outputs (8) card	960-99-00002
Dry contact digital outputs (8) card	960-99-00003



Digital Inputs Card

The digital inputs card is needed to add up to 8 digital inputs to the controller.

- Up to 3 dry contact cards can be installed in the controller (or in the expansion box)

Product description	Code
Dry contact digital inputs (8) card	960-99-00004



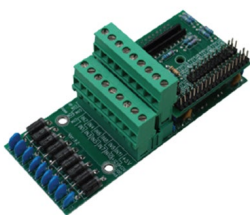
Analog Outputs Card*

The analog outputs card is needed to add up to 4 (4-20 mA) analog outputs to the controller. The card includes surge and lightning protection circuits (external protection not required).

- Up to 2 cards can be installed in the controller

Product description	Code
Analog outputs (4) card	960-99-00037

*Compatible only with Munters GreenField controller (dosing channel control)



Analog Inputs Card

The analog inputs card is needed to add up to 11 (4-20 mA / 0-5 V) analog outputs to the controller (or to the expansion box). The card includes surge and lightning protection circuits (external protection not required).

- Up to 4 cards can be installed in the controller (or in the expansion box)

Product description	Code
Analog inputs (11) card	960-99-00005



For more information, visit: munters.com/greenhouse/