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# UVGERMI®

ULTRAVIOLETS DE HAUTE TECHNOLOGIE

*Specialist in  
soil-less crop drainage water  
treatment using UV reactors*

● ○ ● MADE IN FRANCE

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## GERMISERRE 12

> **Flow rate:** up to 12 m<sup>3</sup>/h

The **GERMISERRE 12** enables the treatment of drainage water from soil-less crops to be able to re-inject it with the new nutritional solution into the crop being cultivated. The water must be treated to prevent the risks of crop contamination by fungi, bacteria or viruses. This method for re-using stored drainage water enables major savings in both fertiliser and water.

### TECHNICAL SPECIFICATIONS

**Equipment to treat a flow rate of substrate drainage water of up to 12 m<sup>3</sup>/h for a minimal transmittance value of 25% (over 10 mm at 254 nm) and a UV dose of at least 250 mJ/cm<sup>2</sup>.**

#### CONTROL CABINET

- Dimensions: 1,500 x 1,000 x 420 mm
- Power supply: 380 V TETRA/ 50 Hz
- 1 PLC
- 1 supervision station with touch screen
- Fault reporting to the customer supervision station
- 1 power light indicator
- 1 light indicator for lamp operation, 2 light indicators for faults

**Full warranty:** 2 years

**After-sales in France**



#### MAIN CHARACTERISTICS

- 24 UV reactors, each with 1 x 300 Watt lamp
- Total electrical power: 9.6 kW
- Total germicidal power: 2.76 kW UVc
- Lamp service life: 16,000 hours or 2 years (maximum limit of 5 starts per 24-hour period)
- 2 sampling valves at module entry/exit
- 3 pumps, with a flow variator on the main pump
- Filter with 20 µm screen, automatic cleaning
- Flow meter
- Set of PVC-body electrovalves for management of the various operating modes
- Chemical cleaning kit for the quartz sleeves
- Pressure sensor
- Pressure valve
- Pressure limiter
- Dimensions of the stainless steel chassis: 1,5 x 2,7 m

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## INSTALLATION AND OPERATION

The **GERMISERRE 12** is designed for installation in a clean, dry and well-ventilated building. It is simple to install as all the equipment is assembled onto a stainless steel chassis. The automatic operation of the UV reactors, filter and pumps means minimal maintenance of the skid.

A user-friendly supervision station is provided on the front of the cabinet. The PLC provides a full overview of the chassis: real-time operation traceability, failure resolution and alarm log.

The maintenance of the **GERMISERRE 12** is also performed automatically: full chemical cleaning of the UV reactors, counter-current filter cleaning. The only intervention requiring a technician is the replacement of the UV lamps every 2 years.

