

## WARNING:

This manual contains information on safety measures and precautions to be considered when installing and commissioning the product. It is therefore necessary to read this manual before installing and commissioning the product.

Keep this manual for future reference.

Failure to follow the instructions in this manual when installing, commissioning, or using this product will exclude the manufacturer's liability for any damage to persons, the product or the installation, and will void the user's warranty.

## ELECTRICAL / ENVIRONMENTAL FEATURES:

**Power supply voltage:** 230V single-phase

**Rated operating frequency:** 50Hz

**Power grid neutral system:** TT system

**Installation overvoltage category:** 3

**Maximum operating altitude:** 2000m

**IP rating:** 55

**IK rating:** 07

**Operating temperature:** 0°C to + 35°C

**Probe operating range:** -40°C to + 110°C

**Max. operating relative humidity:** 100% at 25°C. 50% at 35°C

## SAFETY WARNING:

The person responsible for product installation and commissioning must have the qualifications required for this type of work: licensed/certified electrician or qualified pool maintenance technician. Please comply with the applicable accident prevention regulations.



A 20A overcurrent protection device is required, as well as a lockable power disconnection device, at the start of the installation, allowing the pool electrical box to be locked out.

Before any operation, disconnect and lock out the power supply to the product.

## MOUNTING:

Secure the electrical box exclusively in the equipment room or indoors, using screws and plugs suited to your support and the mounting holes provided for this purpose (or mounting brackets if available).

## CONNECTION:

It is imperative to verify the presence of a 30mA differential protection device upstream or in the electrical box, in accordance with NF C 15 100, or the standards in force in your country.

If such a device is not present, it will be necessary to install one. We can offer you several solutions (please consult us).

Pass the cables of the equipment to be connected to the electrical box through the grommets or cable glands mounted on the box.

**The electrical box must be connected according to the diagram supplied with this manual.**

Do not connect more products than normally provided for on the box. Connecting several cables of different cross-sections to the same terminal can result in a risk of fire.

### **Power supply connection:**

Connect the box according to the diagram attached to this manual.

The power supply for the GEL'ELEC module is 230V-.

### **Probe connection:**

Connect the probe to the module location provided for this purpose (see attached diagram). The probe should be placed outside the equipment room, but away from direct sunlight or bad weather, in order to prevent measurement errors.

You can extend the probe, using 2\*1 mm<sup>2</sup> cable; however, take care to make a clean connection, and to avoid running the cable close to heat sources, which can disrupt the measurement.

### **Filter contact connection:**

- The electrical connection must be made on systems equipped with a WA Conception filter box. Except for the above-ground range, where connection is impossible.
- Disconnect all voltage sources before carrying out any work on the box.
- Never make connections under voltage.
- Connect the electrical box according to the diagram attached to this manual.
- The box must be connected to a filter contactor (control part) to avoid destroying the display relay. Do not connect

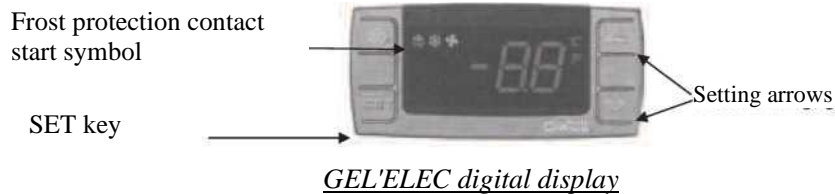


the box in any other way.

## COMMISSIONING AND OPERATION

### How to change the setpoint.

1. Press the SET key for more than 2 seconds
2. Setpoint value is displayed and °C is activated
3. Change the setpoint value using the setting arrows within 10s.
4. To save the new setpoint value, press the SET key again or wait 10s.



- Pump start-up takes place at “set point” minus one degree.
- The pump is stopped at the “setpoint”.

This operating mode prevents unwanted start-ups and shutdowns when the air temperature fluctuates by a few degrees at the setting point.

### For example:

Setpoint set to 0°C

At -0.5°C, pump off

At -1°C pump starts up

The temperature rises slightly to -0.5°C, the pump remains active

The temperature reaches 0°C (setpoint), the pump stops.

Your filter box must be powered up, and the pump circuit breaker switched ON to ensure proper operation of this device.

## MAINTENANCE:

For all maintenance operations on the product, it is essential to disconnect (cut off) and lock out the power supply.

### Error message P1 displayed:

Probe connection problem, check connections at digital display terminal (power off) or that probe is not cut/nicked.

### The pump does not switch on at the setpoint:

Note that the setpoint defines the pump shutdown temperature. The pump switches on at -1° below the setpoint.

### The pump does not stop:

Check that the setpoint is not set too high.

Check that the connection has been made via the control section of the filter contactor. Otherwise, the relay will be damaged!

## INFORMATION:

Our boxes comply with the following European directives:

- Decree 95-1081 of 3/10/95 transposing the European LOW VOLTAGE Directive 2006/95/EC of December 2, 2006
- Decree 2006-1278 of 10/10/2006 transposing the European EMC Directive 2004/108/EC of December 15, 2004

Standards applied:

- EN 61439-1 standard: Low-voltage switchgear assembly  
Part 1. General rules  
March 2012
- EN 61439-3 standard: Low-voltage switchgear assembly  
Part 3. Distribution boards intended to be operated by ordinary persons (DBO)  
September 2012

The products delivered by WA Conception are defined by the professional when sending the order form. They are therefore designed to meet your needs, without any modifications other than single-phase or three-phase pre-wiring (if your box allows it).

All modifications to the delivered electrical box not approved by WA Conception will result in loss of warranty. Furthermore, such modifications will release WA Conception from any liability for damage to equipment connected to the electrical box, or the creation of an incident (electrocution of a person, short-circuit, malfunction, abnormal heating, etc.).

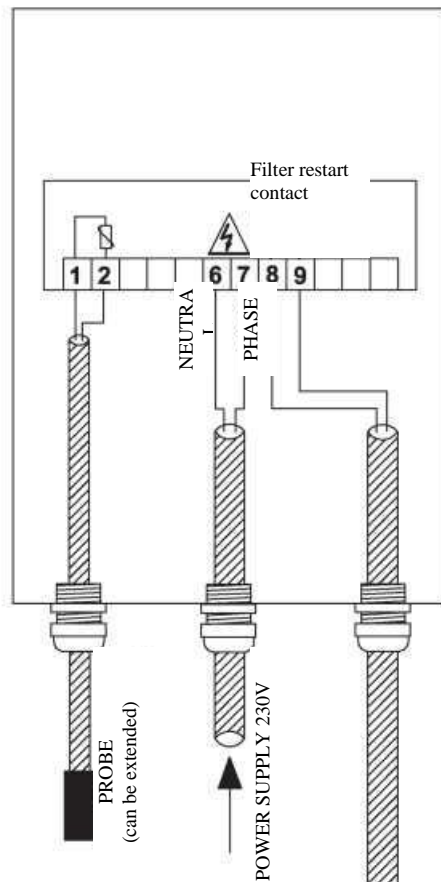
**Warranty: Our boxes are guaranteed for 1 year (from the date of sale of the product by WA Conception).**

**Do not leave this manual or any other easily flammable documents inside the electrical box!**

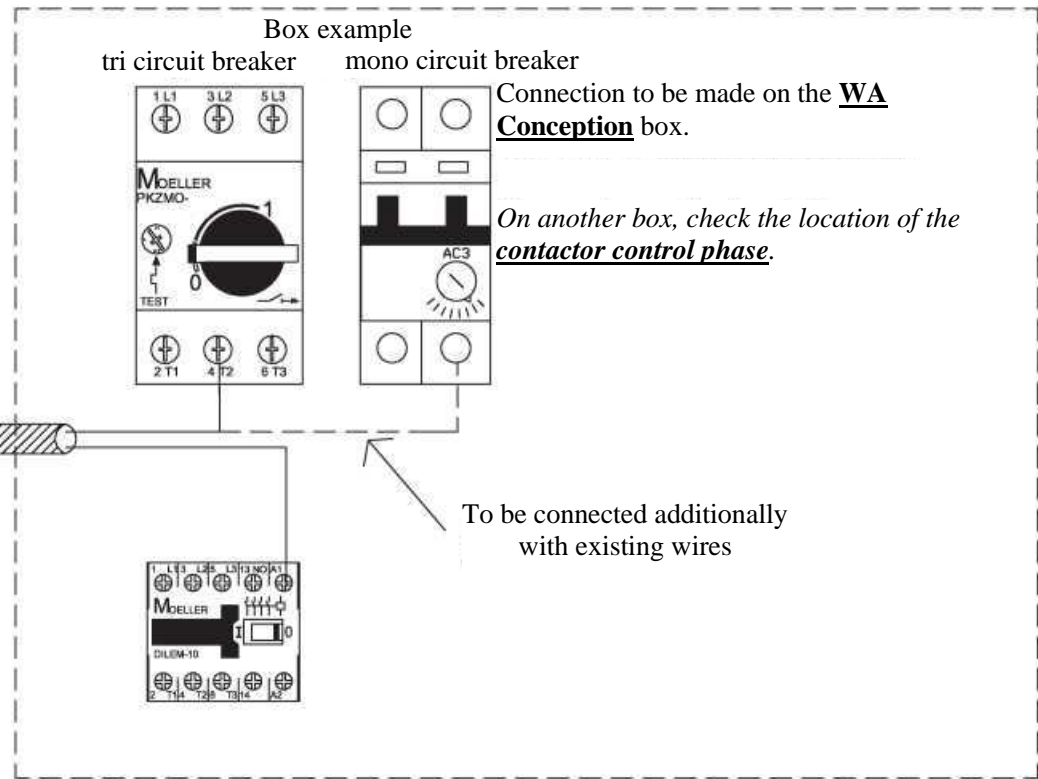


# GELELEC' connection

## GELELEC' BOX



## ELECTRICAL BOX FOR FILTRATION



GELELEC'  Conception