



## Methods of assembly and installation

### Control panel for heat exchangers with pump ¾ "-1" or without pump

Failure to comply with these installation methods prevents the manufacturer from being liable for damage to the equipment, the environment, material assets or people.

It's about YOUR security!

#### 1. Destination:

This control panel for heat exchangers with heating pump and check valve or without pump can be used to operate an exchanger and to regulate the temperature of swimming pools, whirlpools, aquariums and similar systems..

#### 2. Safety warnings:

- 2.1 This appliance is not intended for use by persons (including children) with limited physical, sensory or mental abilities or who lack experience and / or knowledge, unless supervised by a person responsible for their safety or receiving instructions from such person. on the use of the appliance.
- 2.2 Warning: never open the control panel without having switched off the mains circuit breaker and secured it against accidental activation.

#### 3. Safety information:

- 3.1 3.1 A circuit breaker and a RCD (0.03 A) must be installed on the power supply line.
- 3.2 3.2 The electrical installation must necessarily provide for grounding.
- 3.3 3.3 The control panel must be connected to permanently laid pipes.
- 3.4 3.4 For the electrical connection use a standard H07 RNF cable.
- 3.5 3.5 Observe CEI 64-8 / VDE 0100 in the cable cross sections.

#### 4. Dangers:

the power supply to the control panel must be automatically cut off if the filter pump stops. It must not be able to be switched on if the filter pump is not running (see circuit diagram)! It is advisable to introduce a delayed shutdown device for the filter pump. The heating pump must be disconnected from the mains approximately 10 minutes before the filter pump.

#### 5. Information about functions:



- 5.1 The check valve protects the exchanger from no-load operation on the primary side. Otherwise there is a danger of overheating of the exchanger.
- 5.2 The digital electronic temperature controller with the flow of water displays the real temperature of the pool water.
- 5.3 Setting the desired pool water temperature is easy. See the instruction for use of the Ascon E 51A temperature regulator.
- 5.4 The intervention differential is set at 0.5 ° C. To change it, see the instruction for use of the Ascon E 51A temperature regulator.
- 5.5 The green light is visible if the circulation pump is on.
- 5.6 With the ON / OFF key you can switch the exchanger on or off.

Technical information	Set ¾"	Set 1"	Command control
Art. No.	10 12 01	10 12 02	10 12 03
Pump power	6 - 44 W	6 - 44 W	mass. 60 W
Power	3 VA	3 VA	3 VA
Voltage	230 V	230 V	230 V
Frequency	50 Hz	50 Hz	50 Hz
Degree of protection	IP 54	IP 54	IP 54
control panel	0 - 42°C	0 - 42°C	0 - 42°C
Temperature regulation	red	red	red
ON / OFF switch	green	green	green
Pump LED indicator	3,3 m3/h	3,3 m3/h	/
on	¾"	1"	/


#### 6. Instructions for use of the Ascon E 51A digital electronic temperature controller:

- 6.1 Contacts 1 + 2: power supply 230V AC 50/60 Hertz
- 6.2 Contacts 4 + 5: to be used to control the filter pump
- 6.3 Contacts 6 + 7: temperature sensor
- 6.4 With power on, a test cycle appears on the display and then the temperature in the heat exchanger. After starting the filter pump, the pool water temperature appears on the display.

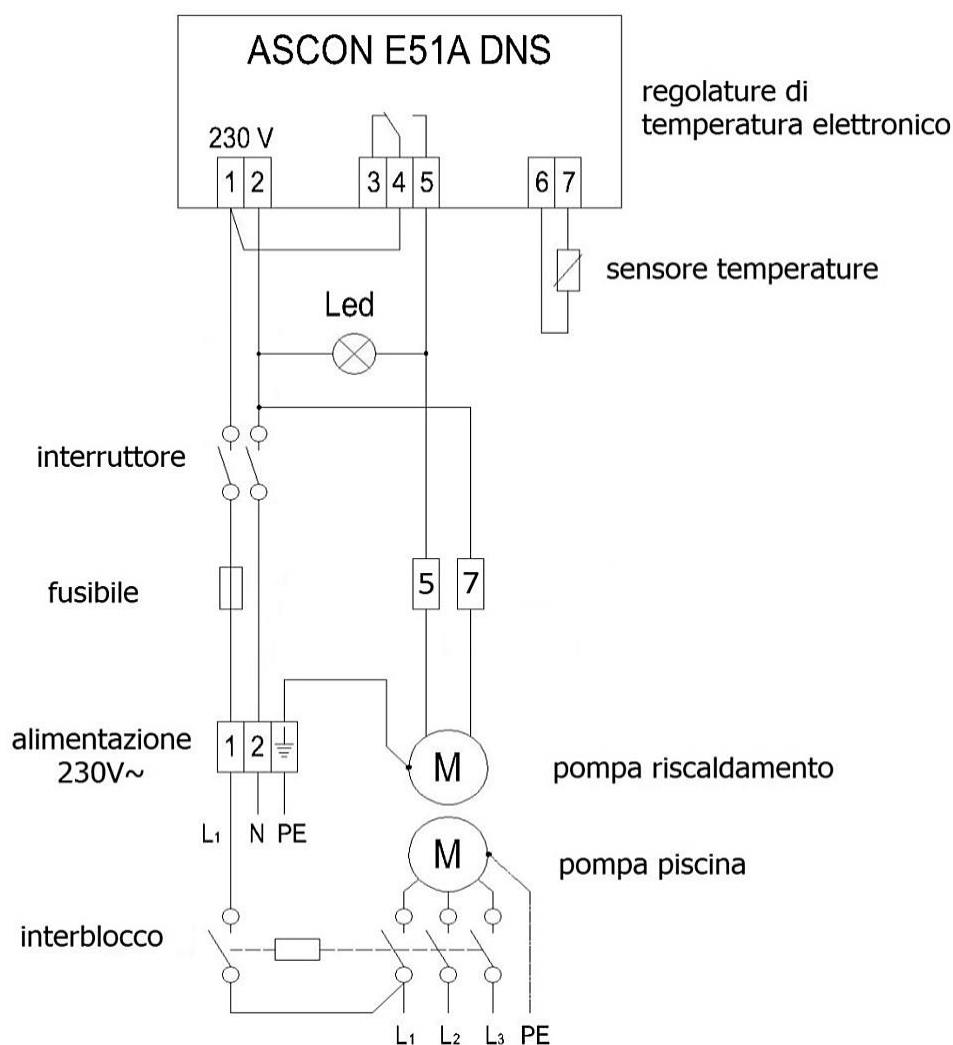
## 7. Setting the desired pool water temperature:

- 7.1 Briefly press the "P" key. Then appear on the display alternately the indication "SP" and the set switching point (set pool water temperature).
- 7.2 Using the arrow keys (  o  ) you can change the switching point (pool water temperature). The minimum temperature setting is 1 °C, the maximum is 42 °C.
- 7.3 To confirm, press the "P" key briefly. If the key is not pressed, the selected value is also memorized automatically after 15 seconds.

## 8. Setting the intervention differential:

- 8.1 In the factory, the intervention differential is set at 0.5 °C. If the pool water has reached the set temperature, the filter pump turns off until the pool water temperature drops by 0.5 °C.
- 8.2 This value can be changed. By pressing at length the "P" key you enter the menu and a flashing "d" appears. Press the "P" key again briefly and the set value appears. This can be changed using the arrows. The scale ranges from 0.1 °C to 30 °C and can be moved gradually by 0.1 °C. Confirmation occurs by pressing the "P" key.
- 8.3 Exiting the menu occurs automatically after 30 seconds or manually by long pressing the key .

## 9. Circuit scheme:



## 10. Please keep this mounting and installation mode for future use.