

EN

# **INSTALLATION GUIDELINES**

INSTALLATION/SERVICING/MAINTENANCE/SAFETY ADVICE



IN-GROUND POOL COVER

ROLLENERGY EVOLUTION





#### PLEASE READ THESE INSTRUCTIONS CAREFULLY AND KEEP THEM FOR FUTURE REFERENCE

Please read this manual carefully to help you understand all of the information and to ensure safe installation, use and servicing. We are not held liable for any damage arising due to a failure to respect the instructions set out in this manual.

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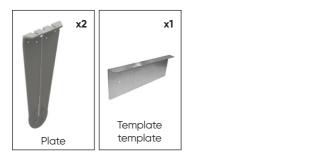


### DESCRIPTION



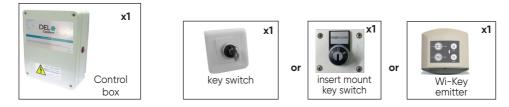
### **COMPONENTS PROVIDED**

### > PLATE





### > CONTROL BOX AND COVER CONTROL



### > OPTION





### DESCRIPTION



### > COUNTERWEIGHTS

Counterweight Quantity depending on width of pool





### BEAM SUPPORTS – Model and colour according to order (1 Packing)

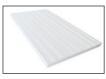




### DECKING – Model according to order (1 pallet)



IPE



Aluminium





### TOOLS REQUIRED FOR ASSEMBLY



### **PACKING LIST**

Example – for a 5.00 x 10.00m pool with roman stairs Plates+control box:  $10.65 \times 0.45 \times 0.25/40$ kg Packing Reel system:  $10.15 \times 0.15 \times 5.10$  m/40kg Packing Beam:  $10.15 \times 0.15 \times 5.10$ m/34kg Packing Beam support:  $10.30 \times 0.20 \times 0.20$ m/10kg Packing Decking:  $11.20 \times 1.00 \times 0.50$ m/100kg pallet

#### Total weight: 230kg

### ASSEMBLY



### INFORMATION

For swimming pools made of concrete, aerated concrete, solid or hollow masonry.

For polyester shell or panel pools, use a concrete belt and sealing blocks to secure the plates and locking kits.

Quantity of concrete (in litres) for 1 plate sealing block:

Pool surface (m<sup>2</sup>)x2.5=X litres of concrete

Open pool: the cover is rolled up into the pit that is covered with decking. These lay on a beam that is fitted into Beam supports that need insert mount or may use hanging mounts or be pegged.

The shaft for thecover is Tubular at a depth of 55cm below the top surface of the pool and is supported by 2 plates that are fastened to the wall.

Power is supplied by an control box located in a technical room.

Limit switches can be set directly on the control box.

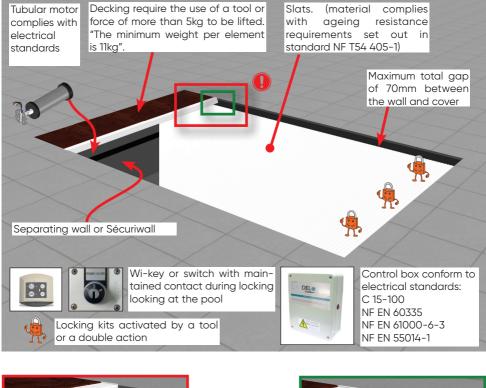
Opening and closing control is carried out via a switch located in a place from where the pool can be seen.

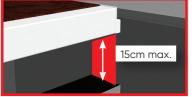
The cover is made of articulated waterproof slats that float on the surface of the water.





### TO ENSURE THAT THE COVER COMPLIES WITH STANDARD NF P90-308









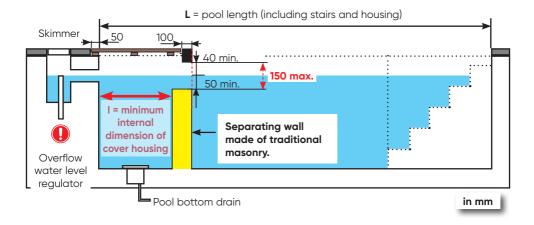
- On mirror or infinity pools, DEL covers do not comply with French standard NF P90-308 unless the pool is equipped with a Vitalia INFINITY control box to automatically lower the water level by at least 2cm when the pool cover is closed.
  - Currently, DEL covers including an adjustable fitting to go over a ladder on the side of the pool do not comply with standard NF P90-308.
  - Unless the alarm manufacturer indicates otherwise, inmersion alarms are not compatible with DEL covers.

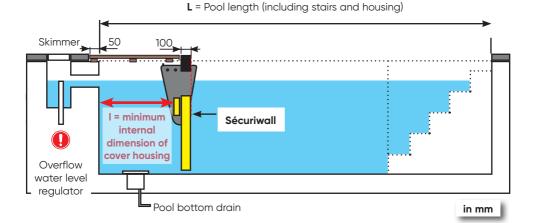




CHARACTERISTICS AND VERIFICATION OF THE INTERNAL DIMENSIONS FOR COVER PIT

The walls of the housing must be vertical and parallel with each other.



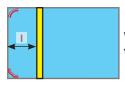




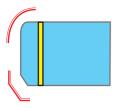


L (in m)	< 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17
l (in mm)	548	574	598	621	643	664	684	703	722	740	758	775
Decking 750mm 900mm												
L	17	18	19	20	21	22	23	24	25	26	27	28

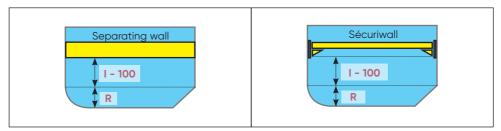
(in m)	to 18	to 19	to 20	to 21	to 22	to 23	to 24	to 25	to 26	to 27	to 28	to 30
<b>l</b> (in mm)	791	807	823	839	854	869	883	897	911	925	938	965



With right angles or shelves and cut-off corners  $\leq$  10cm behind the pit.



With shelves or cut-off corners > 10cm behind the pit.

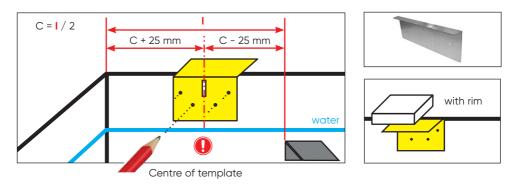


• The I measurement (minimum internal dimension of the pit) must be taken from the edge of the shelf or cut-off corner.

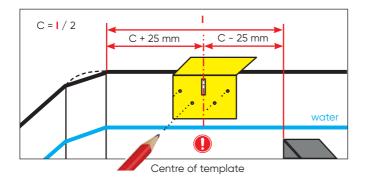


### TEMPLATE

### **RIGHT ANGLE**



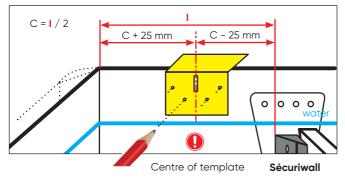
### SHELVES OR CUT-OFF CORNER WITH BRICK SEPARATING WALL



- Carry out the Template for both sides of the pit.
  - The deck fastenings must be above the water level.



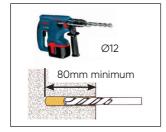
### > RIGHT ANGLE OR SHELVES OR CUT-OFF CORNERS WITH SÉCURIWALL

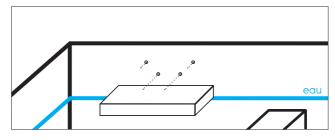


• Carry out the Template for both sides of the pit. 

• The deck fastenings must be above the water level.

### DRILLING





• Clean the drilled holes well

• For pools with water in, put a polystyrene sheet or something similar on the water to contain the dust when you drill.





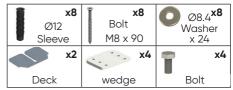
### **FASTENING THE DECKS**

Remember to leave room for the motor cable to go to the Junction box.

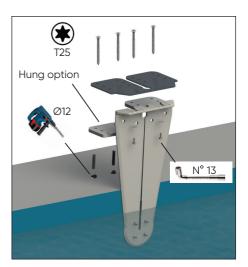
### > FAÇADE FASTENING

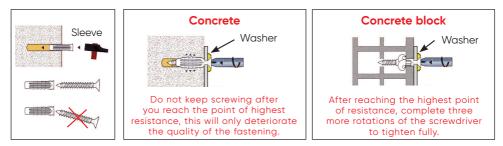


#### HANGING MOUNT FASTENING AS AN OPTION





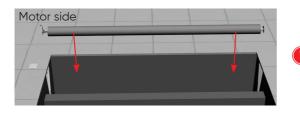








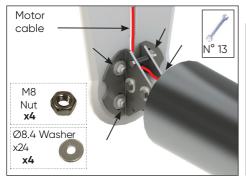
### INSTALLATION OF THE REEL SYSTEM



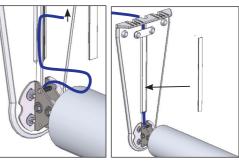
- Do not carry the reel system by holding the motor cable
- If there is water in the pool, let the reel system fill up with water.
  - Test the motor before launching.

### FASTENING THE REEL SYSTEM TO THE DECKS

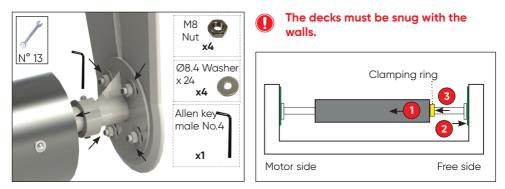
### MOTOR SIDE



Put the motor cable into the groove in the deck.



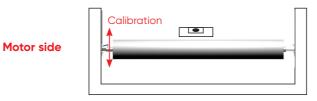
### **FREE SIDE**







### ENSURE THAT THE REEL SYSTEM/POOL ARE PERPENDICULAR



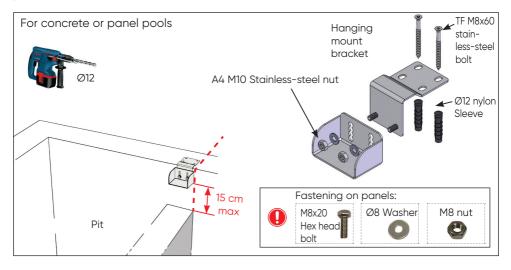
### ENSURE THAT THE REEL SYSTEM/POOL ARE PERPENDICULAR



To allow the cover to be rolled out, it is essential for the reel system to placed perpendicular to the length of the pool.

### **BEAM SUPPORT**

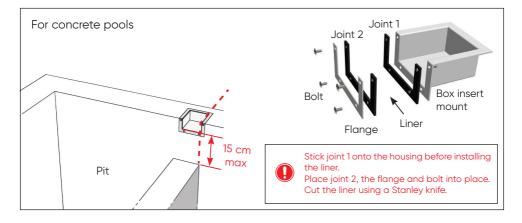
### > ADJUSTABLE HANGING MOUNT VERSION



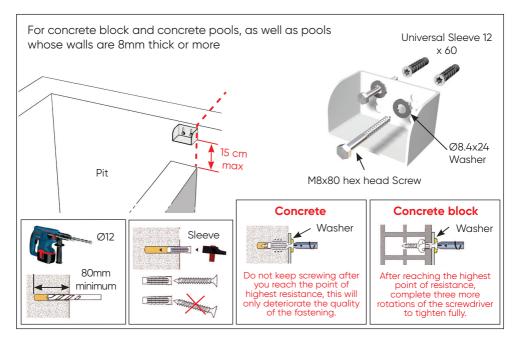




### VERSION INSERT MOUNT

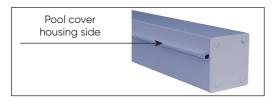


### > PEGGED FAÇADE VERSION



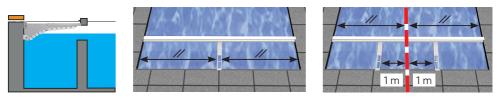


### **INSTALLING THE BEAM**





#### MIDDLE TELESCOPIC SUPPORT

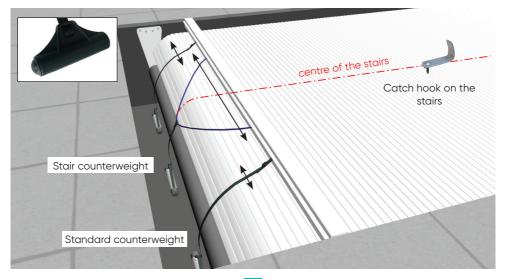


For pools that are more than 6m wide, remember to install 1 or 2 intermediate Beam supports in order to support the centre of the beam (see enclosed leaflet).

### **INSTALLING THE COUNTERWEIGHTS**

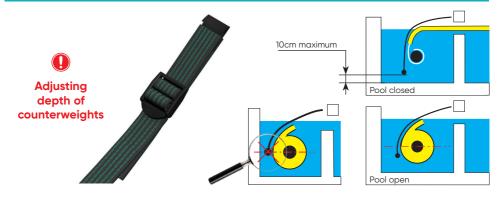
The counterweights ensure that the cover is rolled up correctly by "holding" it against the axis. Lateral movement of the counterweights provides "correction" if the reel system rewinds unevenly in relation to the centre of the pool.

The stair counterweight holds the stairs in place, so they do not fall backwards.

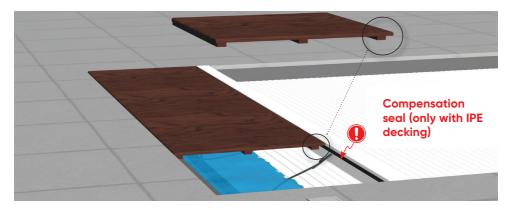




### INSTALLATION OF THE COUNTERWEIGHTS



### INSTALLING THE DECKING



Dimensions must be determined in compliance with the applicable standard.

If the decking are not supplied by DEL, you are responsible for their compliance.

The use of decking that do not comply with the standard will de facto render the entirety of the installation non-compliant. In order for the duckboard to comply with standard NF P90-308, DEL recommends that the following instructions must be respected:

- The wood used must be Class 4 and have a minimum lifespan of 3 years. E.g.: Ipe, doussie, merbau, moabi, padauk, or robinia for wood that has not been treated and Scotch pine or maritime pine for treated wood.
- The minimum effort required to lift a duckboard must be 5kg. The minimum weight for each element must be 11kg. Failing this, the decking must be fastened down or only removable by using a tool.
- The maximum space between the boards must be less than 7mm, in order to avoid anything being trapped between them.
- In order to prevent any risk of corrosion, the bolts should be made of A4 stainless steel or equivalent.





### **ELECTRICAL CONTROL BOX**

#### MOUNTING THE CONTROL BOX

- The control box must be fixed to the wall of the equipment room in an easily accessible position, between 1 metre and 1.80 metres above the floor.
- The box must be securely fixed to the wall using the screws and plugs supplied with it.
- Caution: if you decide to fix your enclosure by any other means, please ensure that it is securely fixed, as the guarantee may not apply. Please note that adhesives are not considered to be a reliable means of fixing.





No warranty if box is drilled. If the enclosure is drilled, be sure to seal the fixings. Use the fixings supplied with the box to maintain the IP rating.

### **CONTROL BOX**

The electrical connection of the equipment must only be carried out by a qualified professional, and they must comply with the manufacturer's instructions in addition to the following applicable standards and regulations:

- NF C15-100: Low voltage electrical installations.

- CEI 60364: Electrical installations for buildings.

Please refer to the leaflet enclosed with the control box to ensure correct installation.



Incorrect installation may result in an electric shock, or it may damage the unit. We recommend that you disconnect the control box from the electricity supply prior to any work being carried out on it.

Any specific electrical supply line must be protected by a 30 mA of type F circuit breaker along with a sufficient overcurrent protection control box.

We recommend use of a shielded cable with a nominal cross-section that is not lower than the one indicated in the following table:

Current rating of unit	Nominal cross-section
А	mm²
≤0.2	Flat twin tinsel cord a
> 0.2 and ≤ 3	0.5 a
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1.0 (0.75) b
> 10 and ≤ 16	1.5 (1.0) b
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6
> 40 and ≤ 63	10

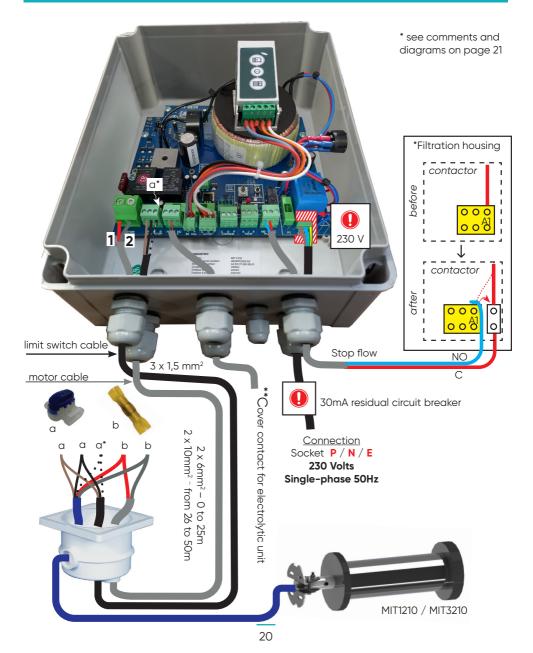
NOTE: For power cables supplied with poly-phase units, the nominal cross-section of the conductors is based on the maximum cross-section of the phase conductors at the end of the power cable that is intended to be con-nected to the terminals of the unit.

- a These cables can only be used if their length, as measured between the point where the cable or cable protector enters the equipment and the connection to the mains supply, does not exceed 2 m.
- b Cables that have the cross-section indicated in brackets can be used for mobile units if their length does not exceed 2 m.





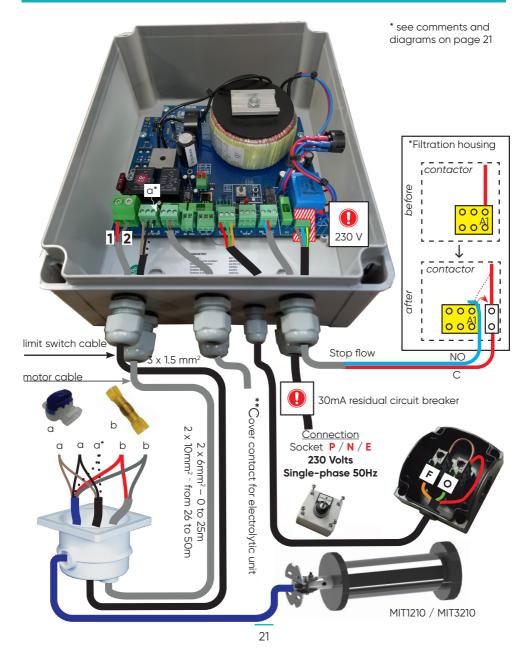
### WIRING FOR MIT 1210-3210 CONTROL BOX WITH WI-KEY CONTROL







### WIRING FOR MIT 1210-3210 CONTROL BOX WITH INSERT MOUNT KEY SWITCH CONTROL







\* "PUMP" terminal block Piloting the filtration pump.

When the cover is moving: Contact C-NO open (stop filtration) and contact C-NC closed (filtration).





\*\* "SALT" terminal block electrolyser control

From 80% closed: Contact C-NO closed and contact C-NC open

From 20% open: Contact C-NO open and contact C-NC closed

The position of the dry contact is saved in the memory in case power to the control box is ever switched off.

a\*: .... Wire may or may not be present according to the type of motor.



Its location must allow you to check that no-one has entered the pool during the operation.



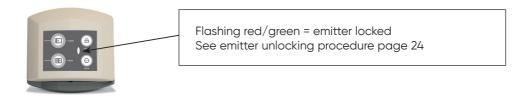


We advise you to put some waterproofing gel in the Junction box once the wiring is completed.





### WI-KEY CONTROL



	Receiver	Emitter		
Manufacturer	DEL	DEL		
Reference	Wi-Key receiver	Wi-Key emitter		
Category	3 (NF EN 300220-1)	3 (NF 300220-1)		
	50m open field range	50m open field range		
Range	25m through a concrete wall	25m through a concrete wall		
Power supply	12 to 48Vcc 30mA max	2 batteries 1.5V AAA		
Protection rating	IP40	IP54		

The emitter must be set outside the volume 0 position. (volume 0 is the part that is underwater, even temporarily).

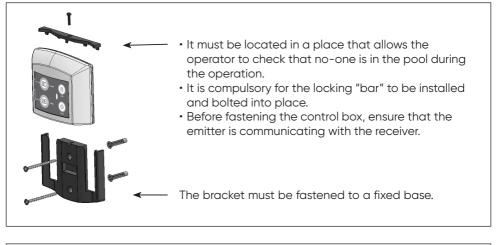
The distance between the emitter and the receiver must not exceed:

- 50m open field range.
- 25m behind a single wall.
- 15m behind multiple walls or a particularly thick wall.

Frequency bands used by the emitter-receiver: 868MHz to 868.6MHz Maximum power of the radiofrequency: 10mW

We advise you to check the emitter receiver connection prior to fastening into place.

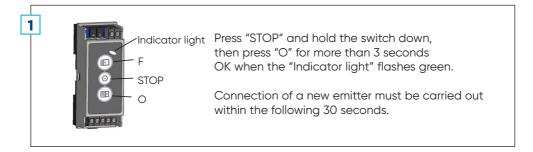






### **CONNECT A NEW EMITTER**

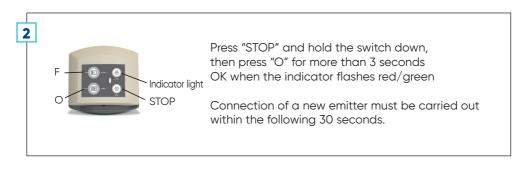
Receiver







#### Emitter



### > LOCK WI-KEY

### **WILOCK WI-KEY**

- Press 
   and keep pressing
- At the same time: press successively on the following 3 switchs:



- The () indicator light remains on (
- = emitter unlocked

Green LED	>	Wi-key unlocked
Flashing green/red LED	>	Wi-key locked
Orange LED	>	Battery level low
Red LED	>	Batteries need to be changed (2xLR03)





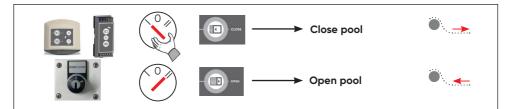


Any person carrying out work on the electrical parts must be qualified and wear PPE (personal protective equipment): gloves, goggles, mat, etc...

Warning: use of the pool cover control switchs present in the housing (Wi-Key receiver) must only be carried out by a person who is absolutely certain that there is no risk and that no-one will enter the pool during the operation.

### SETTINGS

### > CHECK WIRING



If the control logic is not respected, check the wiring of the installation.

### > PROGRAMMING THE LIMIT SWITCHES

- 1. To save the starting position reference, place the cover in the open position. Use forced mode if required by setting the "FORCED" switch to ON.
- 2. Put the "FORCED" switch back to OFF.
- 3. Set the "PROG" switch to ON.
- 4. Unroll the cover while holding the switch in the "Close" position (if the motor does not start, the "DEFAULT" indicator light (red LED) is not lit and the switch wiring is correct, invert the motor wires).
- 5. Release the switch once the pool is fully covered.
- 6. If required, go back (switch to Open position), this absolutely must be followed by closing the pool.
- 7. Set the "PROG" switch to "OFF".





### > PROGRAMMING THE TORQUE LIMITER (AUTOMATIC SWITCH)



The automatic switch protects the system from any potential oversights with regard to the unlocking of the fastening control boxs, when the pool is opened.

If the cover is blocked, the motor will stop automatically.

#### The different reasons for a blockage:

- Fastening control boxs have not been unlocked.
- The cover is scraping (on a beam, on the pool rim...).
- Presence of an object in the pool (robot, counterweight...) that is blocking the cover.
- 1. First set the limit switches for the cover.
- 2. Put the cover into the closed position.
- 3. Put the torque limiter adjustment potentiometer into the 1 position.
- 4. Open the cover.
- 5. If the protection is triggered (motor stops and orange protection light flashes), close the cover again, increase the torque limiter by one position and open the cover. Repeat these operations until you reach the "high sensitivity" position of the torque limiter that allows you to open the cover without triggering the protection system.
- 6. Once the "high sensitivity" position has been set, we recommend that you increase the position of the torque limiter setting by one in order to obtain an average sensitivity setting. This setting will help avoid the system being triggered at random times.

The torque limiter is only active when the protection LED is lit (orange, not flashing). To deactivate it, simply put the torque limiter setting potentiometer to the 0 position.





### > LED SIGNALLING

Initialisation (Red LED green LED and orange LED flash alternately).
Signal from sensor (motor working, regular slow flashing).
Lit and not flashing = Problem with sensor (check the connections and cables).
Lit and not flashing = Problem with the software (reprogramme the limit switches).
Lit and not flashing = Control of over-torque.
Fast flashing = Over-torque fault.
Slow flashing = Acquiring over-torque protection.

### **> RESTORE FACTORY SETTINGS**

In order to restore factory settings, switch the box off then switch it on again while pressing the "SETUP" switch for 4 seconds. This operation must necessarily be followed by reprogramming the limit switches.



Any person carrying out work on the electrical parts must be qualified and they must comply with the manufacturer's instructions in addition to the applicable standards and regulations.



During any intervention, the technician must wear PPE (personal protective equipment): gloves, goggles, mat, etc...

We recommend that the installation be disconnected from the power prior to any intervention taking place.

#### WATER LEVEL IN POOL

- In order to ensure maximum safety and correct operation of the rewinder, always check that the water level in the pool remains constant and complies with the manufacturer's requirements (for greater comfort, use an overflow and a water level regulator).
- A water level that is too high is due to the overflow being obstructed by leaves or other items.
- A water level that is too low means that there is a risk of blockage.
- In case of a recess or a handrail, the water level must be controlled by a level regulator.

#### WATER FILTRATION AND TREATMENT

- Programme filtration to take place at a time when the sun is shining on the pool and ensure that it is set to work all the time when the water reaches 25°C.
- In order to ensure that your installation will last, the water in the pool must be correctly treated in compliance with the applicable standards and recommendations (NF EN 16713-3).
- The pH, hardness and alkali levels of the water must be checked and adjusted as often as is necessary (although you will need to ensure that you don't correct these three parameters independently of each other but do so using the Taylor table and provide the water with balance with regard to the three parameters analysed).



#### CARE (responsibility of the customer)

- Clean your slatted cover thoroughly twice a year (when opening the pool for the season and when winterising it). This is even more important if your pool water is hard. To do this, use a descaling cleaner (see catalogue) and rinse with a water spray.
- Inspect the entire system if an abnormal load is placed on the cover (such as in the event of a fall).
- · Inspect the straps annually.
- Do not wash IPE duckboard with a high pressure washer, we recommend washing them regularly with clean water and a non metallic brush.
- Do not run, walk with care, the surface of the gratings can be made slippery by poor maintenance.
- Take care to clean the gratings regularly so that their surfaces do not become slippery.
- If the gratings become slippery, remove them and clean them mechanically.
- Cleaning and maintenance by the user must not be carried out by unsupervised children.





- All interventions must be carried out by a professional, who will contact the manufacturer if necessary (contact details on the back page of this document).
- All spare parts must come from the manufacturer or comply with standard NF P90-308.
- · Check that the installation is working correctly.
- Inspect the cover thoroughly.
- It is necessary to check at the start of every season and if any accident has occurred (if anything has fallen onto the cover, if hail has struck the cover, if the cover has had to bear any abnormal weight etc...) check that none of the slats has sustained any visible damage that may affect the safety of the cover (cracked slats, holes, deformations, etc...). Make sure that you change the slats or the entire cover if required.
- In summer or in winter, do not place an opaque sheet over the cover: this may damage the slats due to high temperature.
- Check the state of the straps (seams) and in particular the wear on the anti-abrasion sleeve. If the latter is no longer fulfilling its role of protecting the strap against abrasions from the pool rim, then replace it.
- Once a year, check that the electrical connections are sufficiently tight.
- · Customer service: contact details on back page of document.





- Do not hesitate to ask our authorised distributors for advice.
- If the power cable is damaged, it must be replaced: by the manufacturer, its aftersales service or similarly qualified persons in order to avoid danger.



#### WINTERING

• Position the cover in the closed position and keep the water level constant in accordance with the manufacturer's recommendations.



- During the winter season, in the event of snowfall, it is essential to remove snow from the roof using a brush with a telescopic handle.
- Snow should be removed from the cover using a blunt tool (such as a synthetic floor brush or broom).
- Winterise the pool according to its geographical location.
- · Close the cover in the safety position.
- Leave the batteries connected to the reel and do not cover the solar panel.
- We recommend installing an Ivernéa winter cover or an Ivernéa Plus protective cover to protect the cover from UV rays and dirt.

#### **SPARE PARTS**

Online catalogue :



https://www.my-cfgroup.fr/fr/pieces-detachees





Please read the recommendations set out below with care.

### WARNING

Swimming pools can represent a serious danger for your children. Drowning can happen very quickly.

Children who are close to a swimming pool need to be watched constantly and actively, even if they know how to swim.

Learn lifesaving skills.

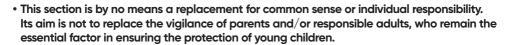
The physical presence of an adult is absolutely essential whenever the pool is open.



Memorise the telephone numbers for the emergency services and ensure that they are displayed close to the pool.







- Warning: safety is only guaranteed when the cover is closed, locked and correctly installed in compliance with the manufacturer's instructions.
- The cover must systematically be closed if you are absent from home, even for a very short period.
- Check that no persons and no foreign objects are in the pool before and during opening and closing operations.
- Store the devices and/or tools needed to operate the covers out of the reach of children.
- Operation of the mechanism must only be carried out by a responsible adult.
- With the exception of movable floors, movable terraces and the covering elements provided for this purpose (e.g. gratings), do not climb, walk or jump on a safety cover.
- Take all necessary measures to prevent access to the pool for young children until the cover is repaired or when a malfunction is observed that prevents closing or in case of temporary unavailability of the equipment or the pool.
- Respect the water levels designated by the manufacturer.
- Children must not play with the appliance.
- This appliance may be used by children aged 8 and over, and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have received supervision or instructions concerning the safe use of the appliance and understand the hazards involved.

A child can drown in less than 3 minutes, no type of protection can ever replace the watchful eye and vigilance of a responsible adult.

### RECYCLING



#### PACKAGING



Dispose of the packaging in line with current rules and regulations.

#### **END OF LIFECYCLE**



- Do not put your scrapped equipment or used batteries in with unsorted household waste.
- You are responsible for disposing of all of your waste, in particular electrical and electronic equipment by taking it to a collection point where recycling and valorisation are carried out.
- Certain products potentially contain substances that are dangerous for the environment, and you need to ensure that these are eliminated or neutralised.
- Make sure that you are aware of all existing recovery and collection systems.



discard the manual in line with the current regulations.





### STANDARD

• This cover complies with standard NFP 90-308.

### WARRANTY CONDITION

log on to www.del-piscine.fr to consult all our guarantees.



https://www.del-piscine.fr/rechercher-une-garantie

### DEL SAS

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