Aquareva

SOLIFLOW by PROCOPI

Soliflow
Compact filtration unit

Installation and operating instructions

To be read carefully and kept for future reference.

2014/03 - Indice de révision : H - code : 0026901

TABLE OF CONTENTS

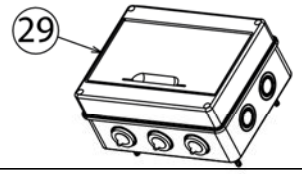
Thank-you for choosing SOLIFLOW, an efficient and reliable compact filtration unit. Please read these instructions carefully before installing or operating your SOLIFLOW, they contain important information concerning handling and use. Keep these instructions in a safe place for future reference.

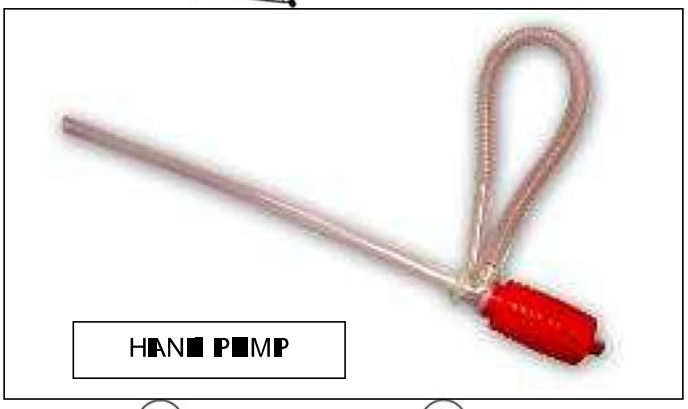
ndex	Nbr	Cc	mponent descr p ɔt on
1	1	c	ɔwer f ter body
2	2	n	termec ɔ ate f ter body
3	1	S	p ash p
5	1	C	entra ɔrace
6	1	ɔ	ate
7	12		hermop ast screw Ø7x50 washer
8	1	ɔ	ump
9	1		ront brace
10	1	W	nter z ng cover sea
11	1		ous ng
12	2		ange gasket
13	1		ange
14	1	S	k mme r f ap
15	1	c	ɔam f a p
16	1		m
17	16	S s	e f tapɔ ng countersunk pos crew 5 5 x 25 A4 dr v
18	1		ang e ɜ bracket
19	1	३	ang e bracket

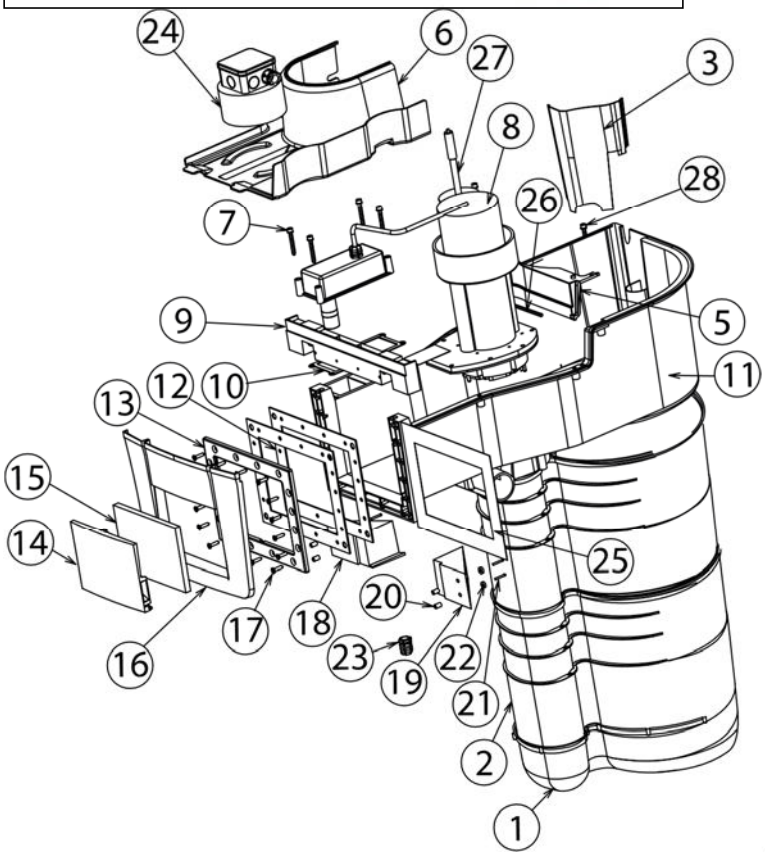
20	4 S	pacer Ø8 x Ø4 3 x 13
21	4 Se	f tapp n g mac h ne screw 3 9 x 25 A2
22	4 S	pacer Ø12 x Ø4 3 x 4
23	1 C	ab e g a and,Capr g11 nut
24	1 s	o at on transformer opt on
25	1 W	orks te protect v e cover
26	1 c	ong hex head key
27	1 C	ogg ng g nd c ator
28	2 h	ermop a ast screw Ø7x20 washer
29	1 C	ontro p ane , 50
30	1 W	nter z ng cover

EXPLODED VIEWS

THE HOUSING







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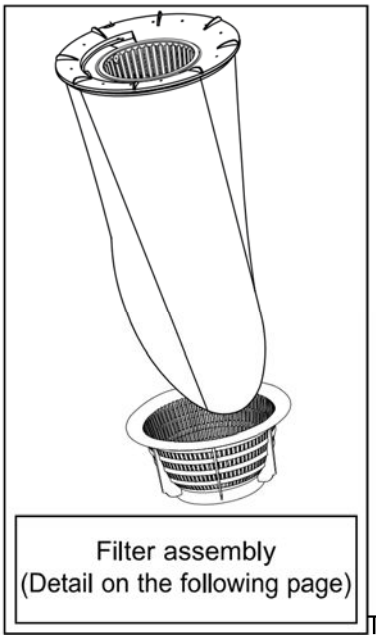

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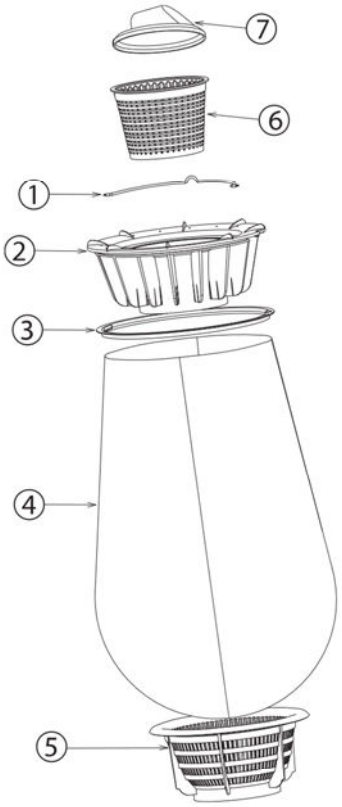
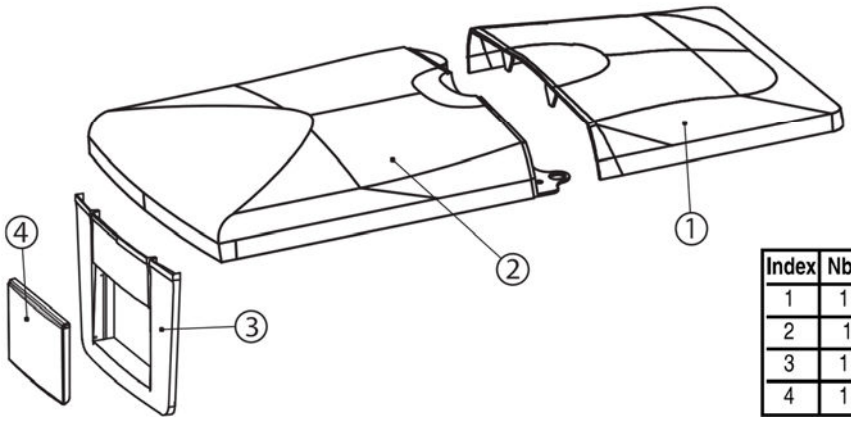
2014/03 - Indice de révision : H - code : 0026901

FILTER ASSEMBLY



Index	Nbr	Component description
1	1	Handle
2	1	Cyclone
3	1	Flow Lock
4	1	Multiflow
5	1	Filter bottom basket
6	1	Prefilter basket
7	1	Skim vac SV 200

THE LIDS



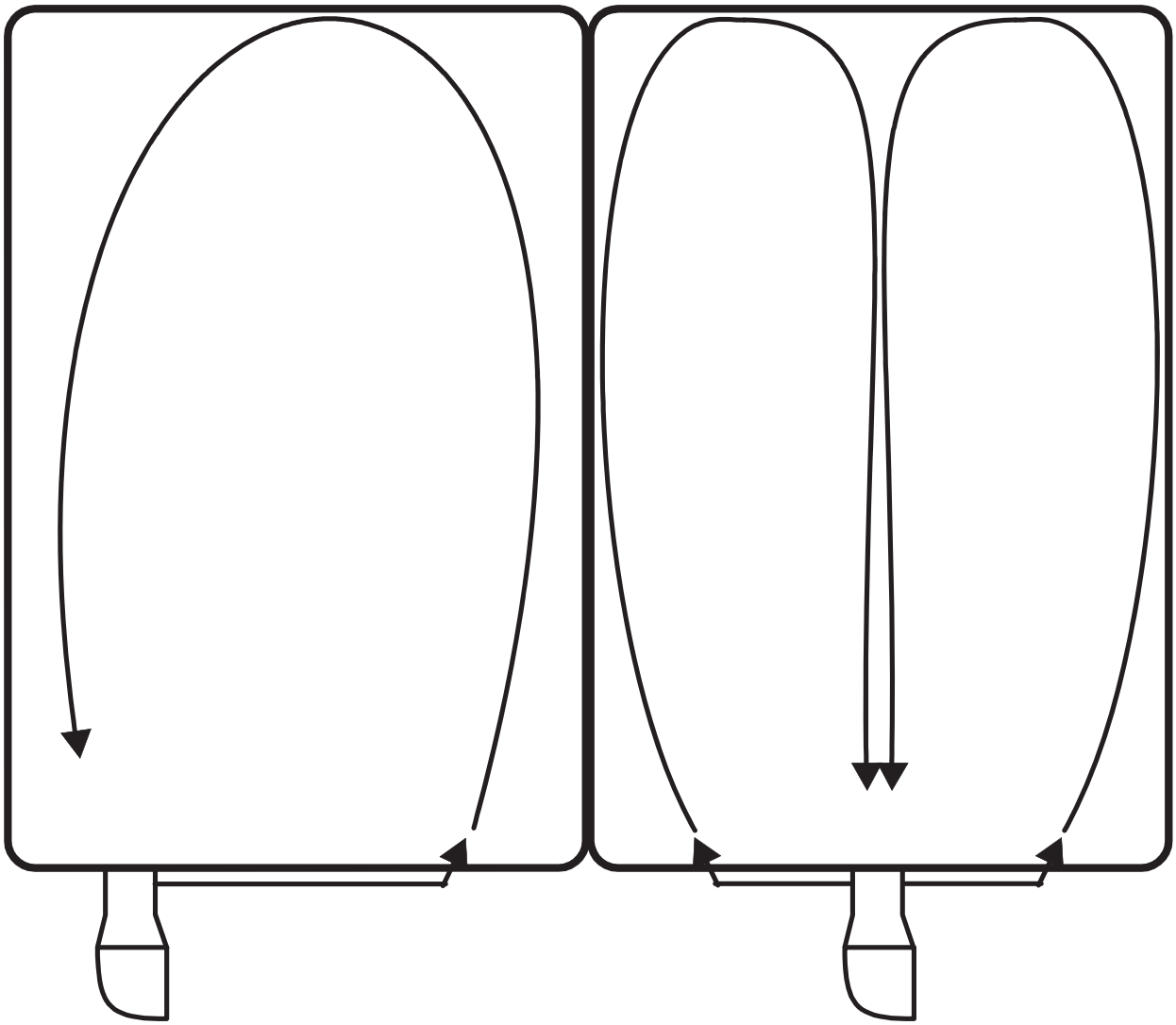
Index	Nbr	Component description
1	1	Rear lid
2	1	Front lid
3	1	Flange trim
4	1	Flap

INSTALLATION TOOLS

- Phillips screw driver
- Electrician's flat head screw driver
- Stanley knife
- Spirit level
- Metal saw
- Screw clamp
- Tape measure
- Drill with Ø6 mm bit
- Teflon tape
- PVC glue and solvent
- PVC pipe and unions (Ø50 mm)

SITING

SOLIFLOW may be installed with one or two return fittings.



NSTA AT ON W TH ONE RETU RN TT NG

NSTA AT ON W TH TWO RETU RN F TT NGS

Theuse of 2 return fitting is recommended to limits pressure drops and improve water circulation.
For maximum efficiency, and to avoid accumulation of debris in the swimming pool, SOLIFLOW should be positioned facing the prevailing wind.

INSTALLATION RECOMMENDATIONS

IMPORTANT!
To optimise the efficiency of SOLIFLOW's constituent parts, particularly the over-flow, the unit must be perfectly level.

CONCRETE STRUCTURES

Create an opening 500 mm wide and 300 mm high (height measured from the top of the pool wall) fig 1.
Check that the front brace and flange are correctly mounted on the SOLIFLOW unit.
Line the top of the brace up with the top of the pool wall to establish the vertical position.
The horizontal position will be determined by the flange that must be flush with the pool waterproofing.
The upper reinforced concrete belt should be continuous, thus it should either pass around or underneath SOLIFLOW.

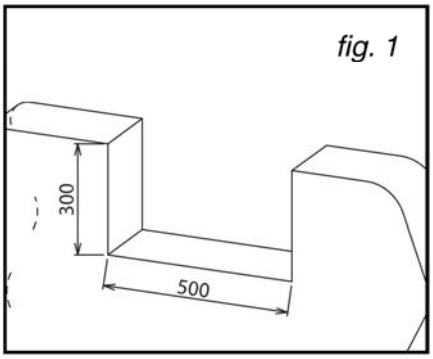


fig. 1

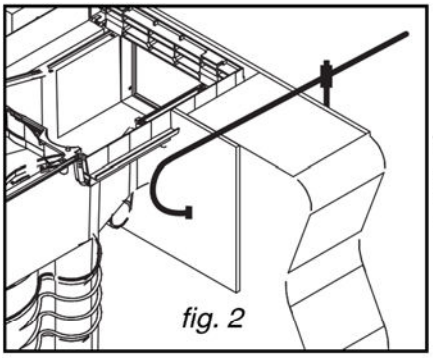


fig. 2

To seal the unit in position, place one board in front of the opening and another between the wall and SOLIFLOW (fig 2) and hold them in position using a clamp.

THIN WALLS - PREFABRICATED STRUCTURES

Mount the front brace on SOLIFLOW (a few dots of PVC glue will help).
Line the top of the brace up with the top of the pool structure to establish the vertical position.
Using the flange as a template, make a cut-out in the structure. Drill two additional holes for the pre-fix screws *(fig 3a)*.
Position a gasket on the suction mouth and attach SOLIFLOW to the structure using the pre-fix screws *(fig. 3b)*.

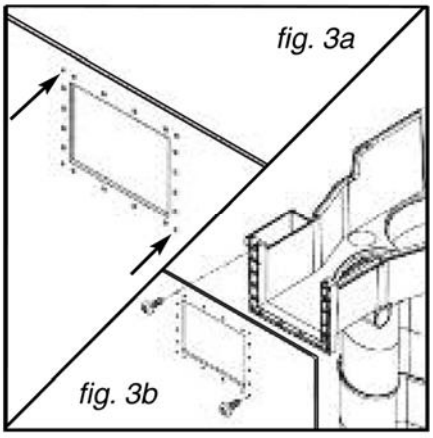
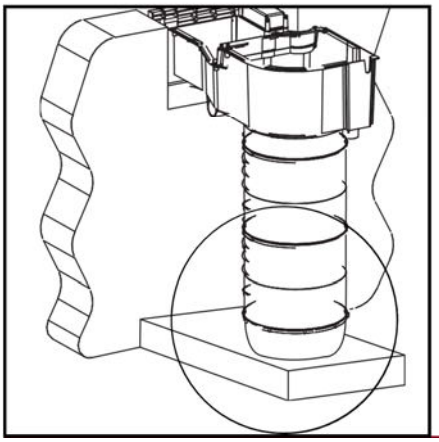


fig. 3a

fig. 3b



BLOCKING

Position SOLIFLOW on a supporting concrete base *(fig. 4)*.
The area 40 cm around the soliflow unit should be back filled with stabilised sand.

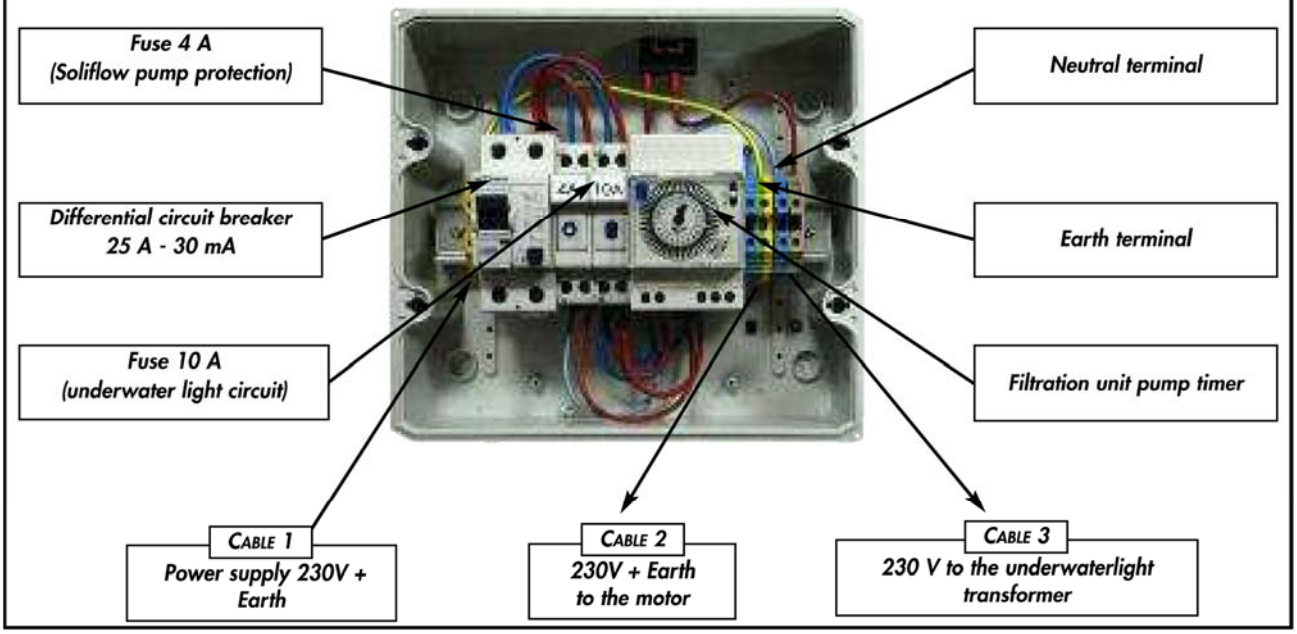
2014/03 - Indice de révision : H - code : 0026901

PRE-WIRING

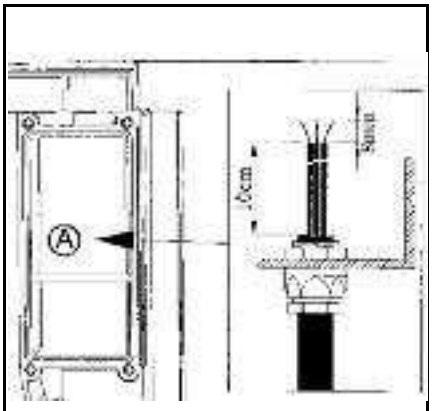
CAUTION! WIRING SHOULD BE CARRIED OUT ACCORDING TO THE RULES OF THE ART.

THE CONTROL PANEL SHOULD BE INSTALLED IN A PROTECTED LOCATION CLOSE TO SOLIFLOW (HOUSE, GARAGE, POOL HOUSE)

FILTRATION UNIT ELECTRICAL PANEL



Cables 2 and 3 should be routed to the SOLIFLOW connection box (see below).
Although cable 3 is only needed if an underwater light is installed, we recommend that you lay it now to facilitate retrofitting of an underwater light at a later date.
The cable cross section should be 3 x 2.5² for the motor power supply and 2 x 2.5² for the underwater light.



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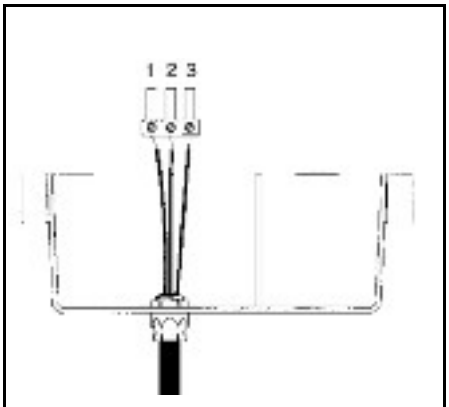
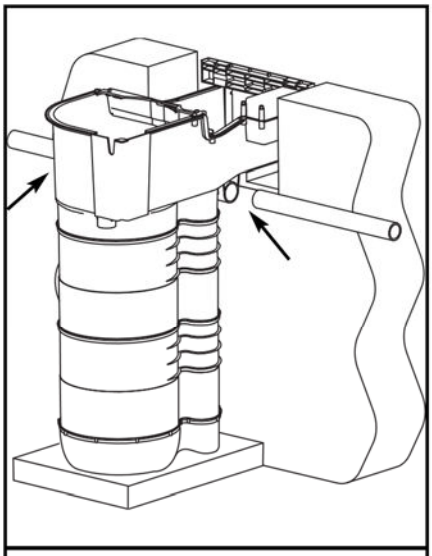
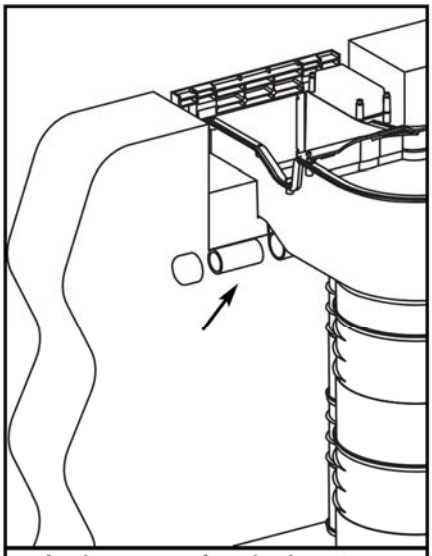


A Pump supply 3 Volts output	CONNECTION TO THE CONNECTO Motor power supply neutral Earth 3 Motor power supply live

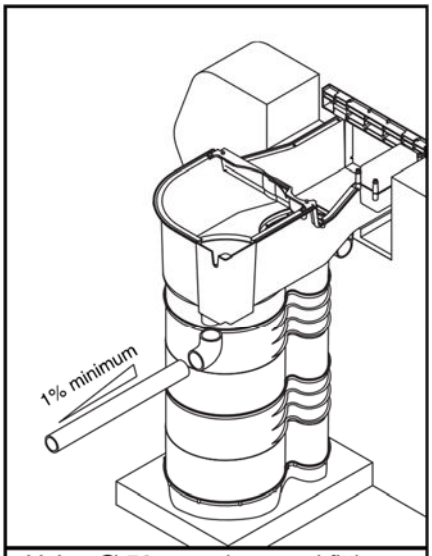
PLUMBING



Connect the return fittings to the outlets on SOLIFLOW.



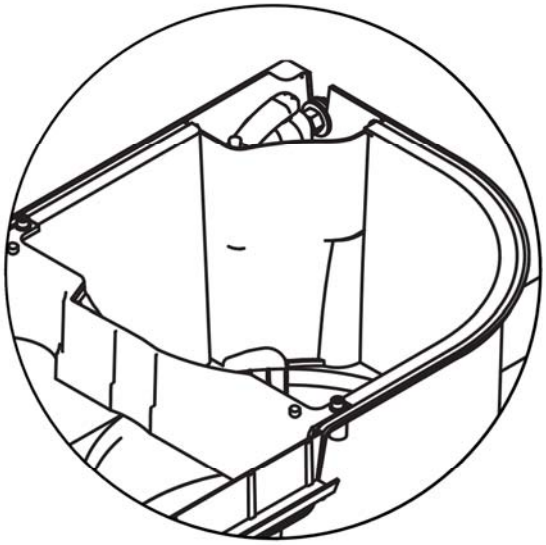
In the case of a single return fitting configuration, blank the outlet that is not in use.



Using Ø 50 mm pipes and fittings, connect up the overflow, a slope of at least 1 % is mandatory.

CAUTION

If the overflow is installed incorrectly (or not at all) the water level can rise too high, even to the point of flooding the motor and other electrical components. This type of incident is not covered by any guarantee.



Insert the splash lip.

INSTALLATION OF THE CLOGGING INDICATOR

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WIRING

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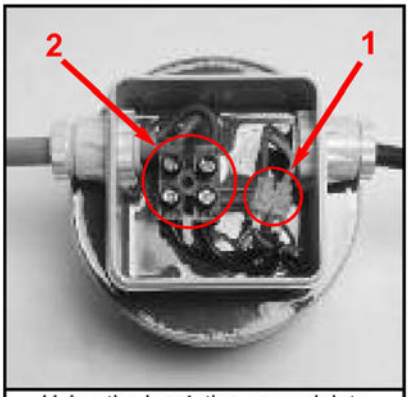
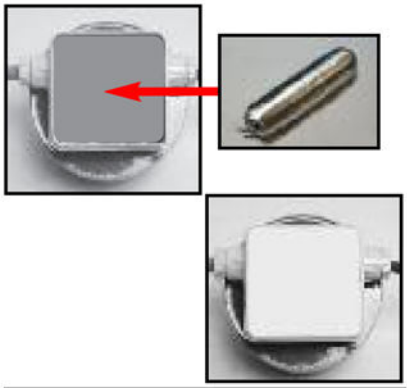
ut the d on the c n nect c on box an d f x t n pos t on
us ng 4 thermop a st sc rews Ø7 x50 washer

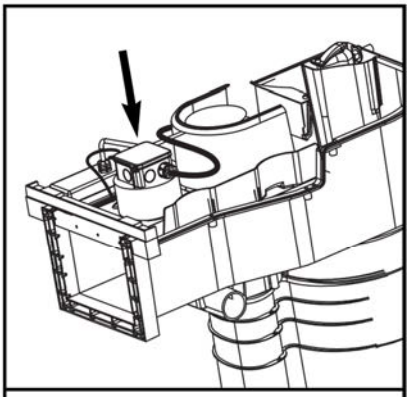
UNDERWATER LIGHT OPTION



Using the insulating screw joints provided, connect the transformer. The 230 volt input should be connected to the thinner wire (1) and the underwater light to the thicker wire (2).

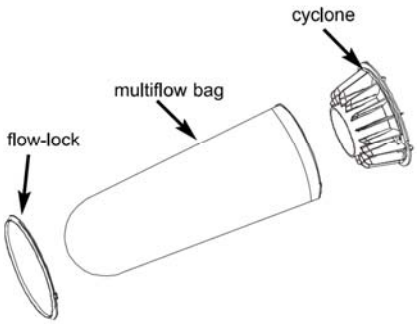


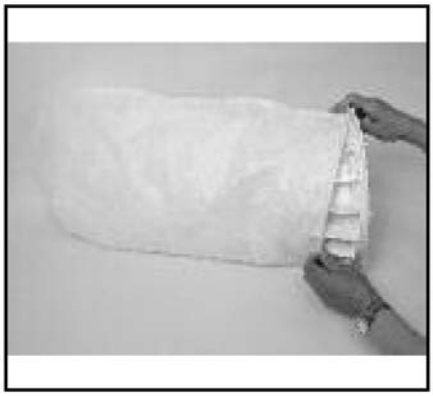
Pour the packet of resin into the junction box and replace the lid. Caution: Once this is done, no further interventions on the junction box will be possible



Place the transformer in its niche on the plate.

INSTALLATION OF THE CYCLONE





Fit the cyclone into the filter bag. Fasten with the flow-lock. Make sure that the plastic tab on the flow-lock clips into the depression on the cyclone.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FITTING THE LIDS

SKIMMER FLANGE AND FLAP

Caution: the flange absolutely must be mounted, even in the case of tiled concrete pools.
The flange supports both the trim and the skimmer flap.

Place the front cover in position to lock

Place the cover in position

2014/03 - Indice de révision : H - code : 0026901

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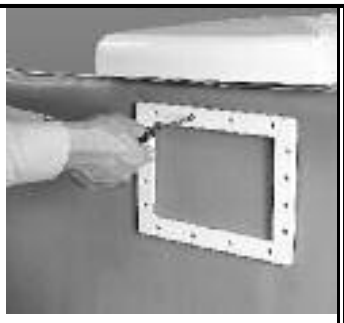

Mount t e f anç e on to ɔ c

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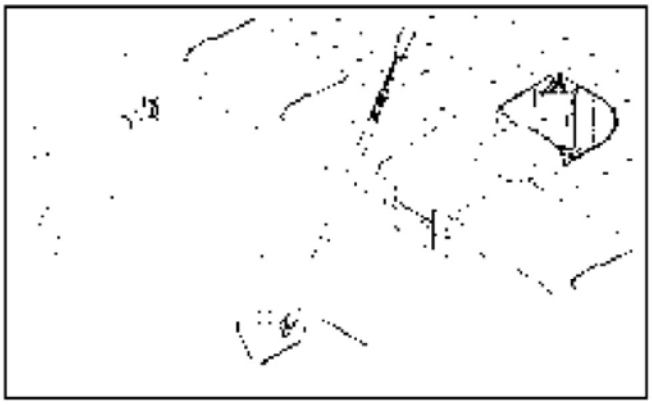
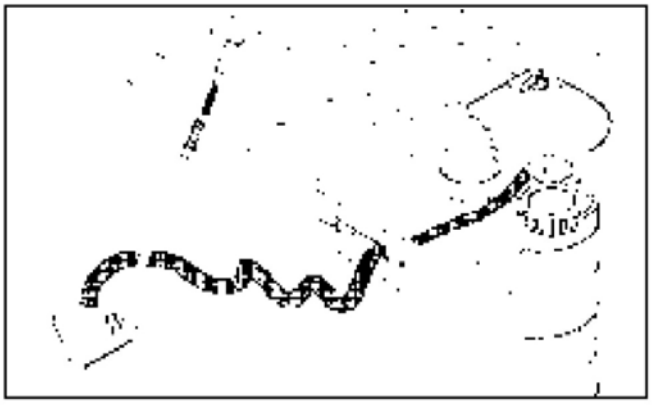
t e secon on to ɔ of t e water ɔroof nç water ɔroof nç C ɔ toç et er

CONNECTING A VACCUM CLEANER

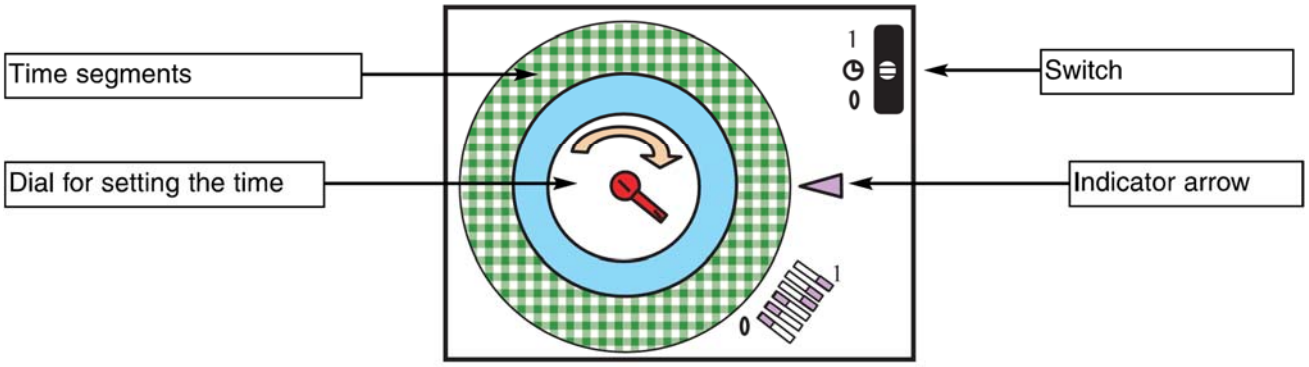
- Remove the rear lid from SOLIFLOW
- Switch filtration on.
- Hold the end of the vacuum hose in front of a return fitting until all the air is purged.



- Keeping the hose under water, insert it through the SOLIFLOW suction mouth.
- Insert the hose into the skim-vac and place it in the prefilter basket. Suction holds it in position.
- Pass the cleaner slowly over the bottom of the pool. Once the pool is clean, stop the filtration to facilitate removal of the skim-vac. Be careful not to damage the skimmer flap when withdrawing the hose.



TIMER OPERATION



POSITION OF THE SELECTOR

Central position ⏲ .... : Operation according to the timer programme

Position "1" .....: Filter runs continuously

Position "0" ..... : Total stop

RTA TO THE ATE LEVE TH L

PROGRAMMiNG

a) - Lift up the transparent flap to gain access to the dial.

b) - Programme the run time by pushing segments of the dial towards the exterior. Each segment represents 30 minutes.

For example: To programme the filter to run between 1300 and 1600 hours (1 pm to 4 pm), push the 6 corresponding segments towards the exterior.

c) - Set the time by turning the dial in the direction indicated by the arrow until the correct time is shown opposite the indicator arrow. For more precise time setting, turn the minute hand only. The small hand of the clock is printed on the inner dial (see the sketch above).

CAUTION! Never turn the dial anti-clockwise.

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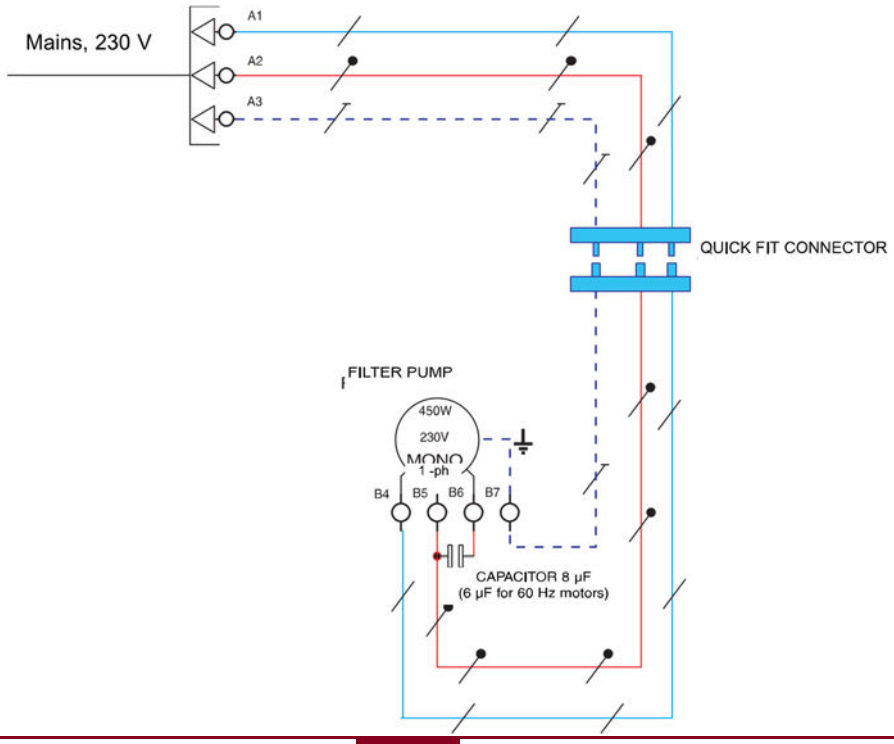
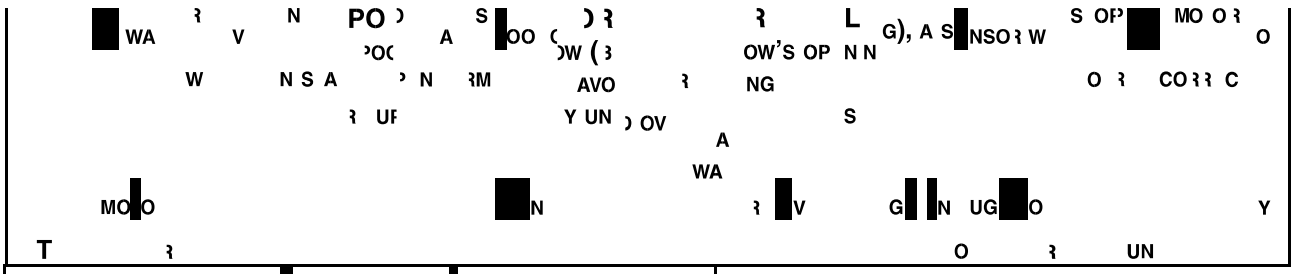




W R NG D AG RAM

MAINTENANCE

CLEANING THE MULTIFLOW BAG

Inspect the interior of the cyclone regularly and remove any leaves or other debris. This will improve the filtration flowrate and prolong the service life of the multiflow bag. The frequency of inspections will depend on the pool environment.

REPLACING THE MULTIFLOW FILTER BAG

emove t e s › as › from t e

The multiflow bag should be replaced every 4 to 5 weeks on average. The actual replacement frequency will be determined by the pool volume and the level of pollution.

A drop in the return flow rate and/or turbulence in the Cyclone indicates that the filter bag is clogged.

To facilitate removal of the multiflow bag, empty it following the instructions provided below:

- raise the multifow bag slightly and twist the long hex head key towards the interior of SOLIFLOW
- rest the multifow bag on the long hex head key.
- using the hand pump, remove water from the multiflow bag.
- once the water level has dropped sufficiently, remove the bag and Cyclone.

Replace the bag.

Put the Cyclone and the level regulator splash lip back in position.

SOLIFLOW is ready to go again.

WINTERIZING

- Disconnect SOLIFLOW's power supply. If the pool is fitted with other optional accessories (underwater lights or heating), disconnect the power supply to these items also.

- Withdraw the Cyclone. Remove and dispose of the multiflow bag.

- Loosen the 4 screws to remove the lid from the connection box, disconnect the quick disconnect fittings.

- Unscrew the 8 self-tapping screws Ø 7x50 holding the pump in position and remove it.

- Place the winterizing cover over the connection box, first making sure that the seal is in position. Fix it in position using 4 Ø 7x50 self-tapping screws.

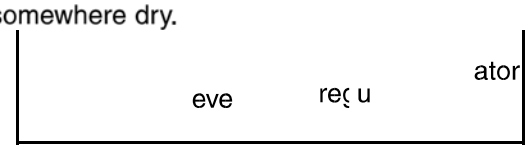
- Place a plastic bottle containing 10 cm of sand in the filter body, the sand ballast will keep it partially submerged.

- Slide a partially inflated ring or inner tube into the skimmer mouth.

- Fill the pool up to the overflow and shut off the water supply to the level regulator.

- Put the lids back on the SOLIFLOW unit.

- Store all the items removed somewhere dry.



TROUBLESHOOTING

PROBLEM: Air bubbles rise from the return fitting(s)

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PROBLEM: Significant drop in SOLIFLOW's flow rate with no air bubbles rising from the return fitting(s)

PROBLEM: Dirt is being returned to the pool through the return fitting(s).

Th

F LTE R	
Cause	**So ut on**

The f ter bag s c ogged (So f ow's f ow rate has dropped s gn f cant y)	ter bag rep ace the bag Cartr dge c ean or rep ace the cartr dge
cator s fau ty (the f ow e c ogg ng nd rate s norma)	ɾep ace the c ogg ng nd cator
Cause	**So ut on**
The pump turb ne s obstructed	[) sconn ect the power supp y [) smant e the pump and c ean the turb ne ɾ easse mb e the pump and reconnect the power supp [) o not fc ɔrget to reset the t mer y
Cause	**So ut on**
e f ter bag s ho ed (too c ogged)	ɾep ace the f ter bag or cartr dge
The f ter bag s ncorrect y pos t oned	Adjust the pos t on of the f ter bag or cartr dge
After th s type of prob em, check the pump turb ne for debr s (see the prev ous sect on)	

WATER LEVEL

PROBLEM: The pool is too full and overflowing over the coping.

Cause	So ut on
e overf ow has not been connected	Connect the overf ow to a grav ty dra n
e overf ow s c ogged	Remove the obstruct on
Caut c on Usu a y w hen a poo overf ows the pump s f ooded D sconnect the power supp y and ca a qua f ed e ectr c an to check SO OW and carry out the necessary repa rs	

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L FLC

PROBLEM: The pump does not start.

PROBLEM: The pump runs intermittently. This is caused by overheating of the motor.

Cause	So ut on
e fuse protect ng the motor s fau ty	ɜep ace the fuse w th a fuse that has th e sa **f th e fuse b ows a ga n, ca a profess ona**
ere s no power supp y to the motor	Ch eck the power supp y from t he contro pa **s must be done b y a qua f ed pro fess**

The motor capac tor s fau ty	[ ) sc onnect the pow er supp y ꝛ ep ace the capac tor ꝛ ecc ɔnnect the pow er supp y [ ) o n ot forget to res et the t mer
ocked by debr s e pump turb ne s b or some other obje ct	[ ) ect the power supp [ ) e t he pump and c e ꝛ mb e the pump and [ ) ɔrg et to reset the t sconn y smant an the turb ne easse reconnect th e p o not fc mer

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Th **Th**

Th

Cause	So ut on
e water eve n the poo s too ow	E g eve up See the sect ons dea ng w th water 3r n the water e ve ssues
e pump turb ne s b ocked by debr s	[ ) ect the power supp [ ) e t he pump and c Re mb e the pump and [ )c ɔrg et to reset the t sconn y smant ean the turb ne ɜasse reconnect t he power supp ɔ not fc mer y
e pump turb ne s broken	[ ) sconn ect the power supp y [ ) smant e t he pump and re p ne Reɜasse mb e the pump and re power supp [ )c ɔ not fc ɔrg et to reset the t m ace the turb ɜconnect the er y

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PROBLEM: The underwater light does not turn on

Careful! These interventions must be carried out by a qualified electrician

UNDERWATER LIGHT	
Cause	**Solution**
s not supp ed w th The transformer 230 V	rmer nput te rm na n the contro pa ane s Check the vo tag e at the tra ansfo Check the co ond t on of the fuse Reconnect t he p ower supp y

e transformer s fau ty	Rep ace t w th a transformer that has the same rat ng
ve at the e 12 V current does not arr b bu	ca ne between the transformer and the Check the e ectr underwater ght
b but e 12 V current a rr ves at the bu the bu b does not g ht up	Rep ace the fau ty bu b

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