



aqua
de-light®
www.aquadelight.com

Installation Instructions MULTICOLOUR ILLUMINATOR COMPACT PLUS Red Green Blue Underwater-Illumination

Important information: The aqua de-light ILLUMINATOR can only be used under water. Ensure that the device is fully submerged before it is switched on.

1. Installation-related remarks

- 1.1 In order to illuminate a swimming pool, one LED aqua de-light MULTICOLOUR ILLUMINATOR COMPACT PLUS should be installed per approx. 20 m³.
- 1.2 To avoid glare the lights should not be placed towards the viewing direction. We recommend installing the lights at approx. 0.45 m below the edge of the swimming pool.
- 1.3 The installation always depends on type of pool. We generally recommend that the MULTICOLOUR ILLUMINATOR is installed with one of the three following possibilities.

2. Technical data

MULTICOLOUR ILLUMINATOR:

Technique: MULTICOLOUR ILLUMINATOR for low voltage
Illuminator input: 12 V, AC
Peak current: 1,3 A
Peak power input: 15 Watts
Light intensity: +/- 1200 Lumen
Level of protection: class II, IP 68

Transformer:

Mains voltage: 230 V / 50 Hz
Secondary voltage: 12V / 3,3 A, AC
Power output: max. 45 Watts

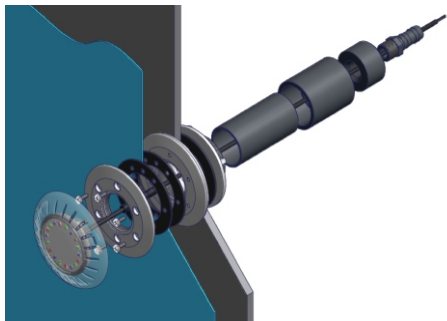
Please note:

The MULTICOLOUR ILLUMINATOR must only be operated with an original aqua de-light AC power transformer !


3. Installation Instructions

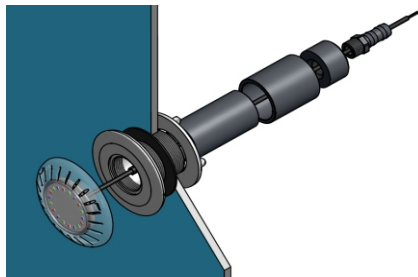
3.1 Drawing 1 - Installation for Liner Pools

- 1x MULTICOLOUR ILLUMINATOR
Ø120 mm with 18 LEDs, 0,2 m cable,
IP 68 female connector and red -Ring
- 1x 2,6 m cable with IP 68 male connector
- 6x stainless steel screws M5 x 14 mm
- 1x ABS-flange
- 2x silicone gaskets for liner
- 1x wall inlet R2" ABS
- 1x silicone gasket for pool surface
- 1x locknut ABS
- 1x extension pipe Ø50 mm PVC
- 1x straight joint PVC
- 1x end cap Ø50 mm with thread 1/2" PVC
- 1x conduit socket, thread 1/2" PVC




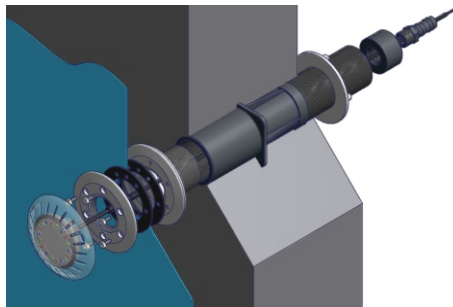
3.2 Drawing 2 - Installation for Polyester Pools / Stainless Steel Pools

- 1x MULTICOLOUR ILLUMINATOR
Ø120 mm with 18 LEDs, 0,2 m cable,
IP 68 female connector and red -Ring
- 1x 2,6 m cable with IP 68 male connector
- 1x wall inlet R2" ABS
- 1x silicone gasket for pool surface
- 1x locknut ABS
- 1x extension pipe Ø50 mm PVC
- 1x straight joint PVC
- 1x end cap Ø50 mm with thread 1/2" PVC
- 1x conduit socket, thread 1/2" PVC



3.3 Drawing 3 - Installation for Concrete Pools

- 1x MULTICOLOUR ILLUMINATOR
Ø120 mm with 18 LEDs, 0,2 m cable,
IP 68 female connector and red -Ring
- 1x 2,6 m cable with IP 68 male connector
- 6x stainless steel screws M5 x 14 mm
- 1x ABS-flange
- 2x silicone gaskets for liner
- 1x wall inlet R2" ABS
- 1x wall inlet for concrete R2" PVC
- 1x locknut ABS
- 1x end cap Ø50 mm with thread 1/2" PVC
- 1x conduit socket, thread 1/2" PVC



4. Electrical installation

The entire electrical installation must be carried out by a skilled and authorized electrician in accordance with your country's relevant standards. Place the power transformers in a dry area outside the danger zone (min. 3 m), e.g. in an installation cabinet and run the low voltage cables in the shortest possible manner to the individual illuminators.

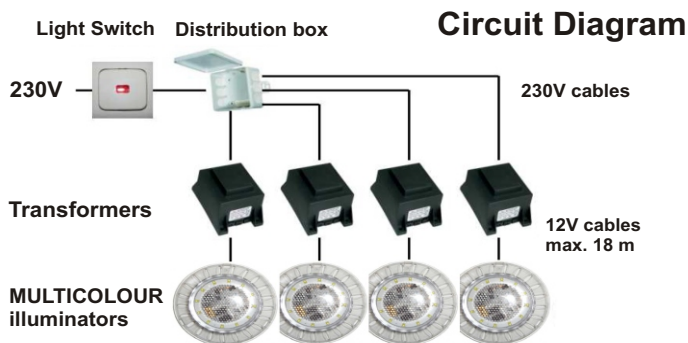
The temperature of the power transformer units must not exceed the maximum of 40° C. Air circulation must be guaranteed on 3 sides. Stacking the transformers or putting them in rows is not permitted and causes overheating.

If you need more than one transformer, connect them parallel and attach them to the 230 V mains with a single regular power switch (see drawing).

Important note!

It is absolutely essential to use one original power transformer per MULTICOLOUR ILLUMINATOR. They are adapted in voltage and power to work with our product. If transformers other than the original units are used, no warranty can be given. It can even be a safety risk to yourself.

Proper functioning of the MULTICOLOUR ILLUMINATOR can only be secured if the low voltage cable between the transformer and the illuminator is as short as possible. If this cable has to be extended, use a cross-section of 1,5 mm² up to a length of 10 m and a 2,5 mm² up to a length of 18 m. Longer cables can produce loss of power and other malfunctions.



5. Operating instructions

The MULTICOLOUR ILLUMINATOR consists of 3 x 6 blocks of light emitting diodes (LEDs), which generate many colours and other intermediate shades, for example

<i>cold white</i>	<i>green</i>	<i>yellow</i>	<i>red</i>
<i>pink</i>	<i>light blue</i>	<i>rose</i>	<i>royal blue</i>

When power is switched on, all above-mentioned basic colours are run consecutively at an interval of 14 seconds. The transition from one colour to the next will be slow and smooth with many pleasant colour variations.

By briefly switching the power **off and on** within a maximum interval of 1 second, the last colour can be “frozen”.

To re-activate the colour-change mode, just switch power **off and on** again for a maximum of 1 second (see above). The colour cycle will start anew.

6. Additional information

Please note: Faulty operation, power disruptions or loose connections may block the colour control electronics. This might happen if the power is switched on and off repeatedly within a short time (< 5 secs). In this case one or several illuminators can remain without function or may not run synchronized. Your aqua-delight MULTICOLOUR ILLUMINATOR is not damaged in these cases, and you can eliminate that operating fault by a reset procedure as follows:

Switch the power **off and on twice within 3 seconds**. Then the normal colour change cycle will restart with white.

Your authorized dealer

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Illumination

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