

LED Lighting Solutions

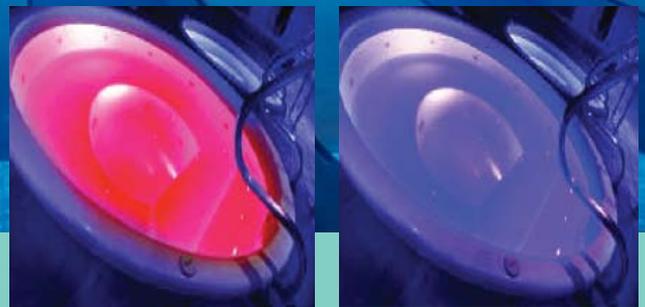
Underwater lighting for swimming pools and spas has come a long way forward since its original conception. It is now possible for it to take advantage of the recent developments in LED lighting technology, to bring you brighter and more reliable LED lights.

The Thermalec LED lights have been designed to be a direct replacement for the PAR56 light fitting which has been the norm for many years. We can now fit our units into many of the leading manufacturers' niches, so there is no need to make a complete refurbishment of your pool and spa lights. As part of the design, the Thermalec niche allows water to pass behind the light. This has two advantages, one is to keep the light cooler, this will enhance the life of the LED light and secondly, it reduces the amount of dirt and mould normally associated with underwater lights, as water will normally be trapped behind the light and allows algae to grow.

Thermalec's LED lights are rated at 36watts, although this may seem to be lower than normal underwater lights, the high efficiency and type of LED light used emits more light through the water, bringing a greater ambience to your pool or spa for you to enjoy.

Our LED lights are available in Blue and White as single colours and a multi colour unit, enabling you to bring bright light and clarity to the water.

We are also able to provide lights in our own flush mounting niche. This single unit LED lighting system allows you to mount the light on the side wall or floor of your pool.



Benefits include:

- High light output
- Energy savings
- Long life up to 10 times that of a normal light
- Compatible with existing PAR56 installations
- Ease of installation
- No dead areas of water behind light
- Colour options (*See reverse for details*)

Energy Savings: A conventional 300 watt light will use up to GBP £210 of electricity in one year. The equivalent Thermalec® LED unit will use GBP £25. When this saving is considered along with the frequent replacement of conventional underwater lights, then pay back periods may well be under 12 months.

Health and safety: Most underwater lights have an area directly behind the light that can trap water. This water is stagnant and allows bacteria to breed at an alarming rate. Anybody that has changed an underwater light will confirm this.

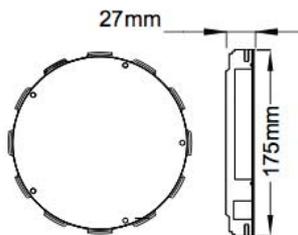
The Thermalec® unit allows water to flow from the rear of the light back into the pool or spa. This is achieved by convection through cut outs built into the light surround.

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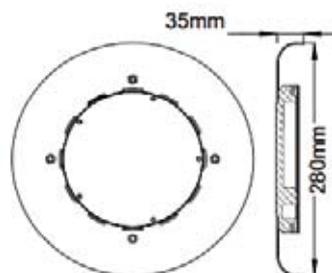
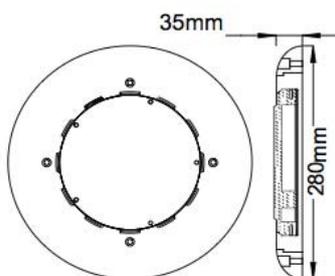
TECHNICAL DATA POOL LIGHTS

| | |
|-----------------------|----------------------------------------------------------------|
| Dimensions | 170mm dia x 24mm deep IP68 Stainless Steel & acrylic enclosure |
| Power requirement | 12 Volts AC 40VA |
| Power consumption | 36 Watts |
| Operating temperature | 0-40 degrees centigrade |
| Cable requirement | 2 off CSA 1.5mm for power |
| Colours available | Blue, White and Colour changing |



Installation Kits

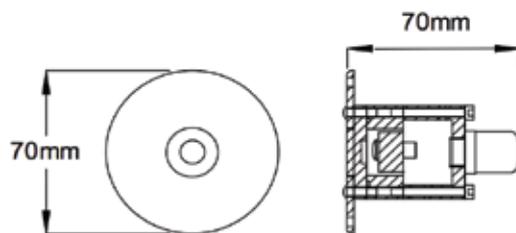
The Thermalec® LED lamp fits Astral, Certikin, Aqua Pharos and Pahlen with the use of our own adaptor kits. The picture opposite shows the unit installed in an Astral Niche.



The Thermalec® LED is designed to fit flush to the pool wall without the need for a niche. The surface mount bezel is available in stainless steel or white plastic.

TECHNICAL DATA MINILIGHT

| | |
|-----------------------|------------------------------------------------------------------|
| Dimensions | 70mm dia x 70mm deep IP68 Anodised aluminium & acrylic enclosure |
| Power requirement | 3.3 Volts AC 350mA |
| Power consumption | 1 Watts |
| Operating temperature | 0-40 degrees centigrade |
| Cable requirement | 2 off CSA 0.5mm for power |
| Colours available | Blue, Green, Red and White |



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