

LED Lighting Works Out For Budget Gym Operator



i-motion

A 24-hour health club usually consumes a significant amount of energy. It's a problem that newly-established, budget gym operator, i-motion gym, was determined to address and, thanks to an LED lighting solution from One Electrical, has reduced energy consumption by more than 70%.

i-motion gym is a revolutionary health club experience offering affordable fitness programmes at half the price of larger gym operators. Part of the £1.2m refurbishment to transform a former 15,500 sq ft gym in Parkgate, Rotherham into a state-of-the-art fitness centre was to replace every fluorescent light fitting with like-for-like LED products. Eliminating any inefficiency from the lighting system before launch ensured savings could be passed on to the customer.

Gareth Evans, managing director at i-motion gym, explains: "As a low cost gym operator it is crucial that we obtain minimum operational costs wherever possible.

"Due to our 24-hour operation, lighting would have accounted for around 50% of our total electricity costs, which is a significant part of our monthly bill."

Project Introduction

One Electrical is a manufacturer and distributor of own-branded lighting and wiring accessories, specialising in LEDs. Quality solutions that enable end users to reduce their carbon footprint and drive down energy costs and competitive pricing made One Electrical an ideal supplier for the i-motion scheme.

Over 300 LED products were installed throughout the premises with a total consumption of 7,127W, which equates to 0.46W per sq m. This included:

- 43 10W LED Fire Rated Down Lights
- 17 3W LED Emergency Bulkheads
- 13 80W LED High Bays
- 74 36W 600 x 600 LED Panel Lights
- 16 18W round LED Panel Lights
- 13 22W round LED Panel Lights
- 57 LED T8 Tubes
- 37 GU10 COB LED Lamps
- 7 LED 2D Lunar Fittings
- 8 68W 1200 x 600 LED Panel Lights
- 30 bespoke purple, orange, green and blue LED Tube Fittings for wall and ceiling hanging
- 80m colour changing RGB LED Flexible Strip Lighting

To create an energising, high-intensity ambience, colour changing RGB LED flexible strip lighting was installed throughout the studio areas.

Bespoke purple, orange, green and blue LED Tube Fittings, for both wall and ceiling hanging, were tailored to each 'zone', for example orange signifies the cardio area and purple designates functional free weights.

24-hour operation also meant sourcing LEDs that replicate natural daylight to create a bright space for clients to enjoy their fitness experience. This has proved hugely beneficial to staff and members, boosting motivation and productivity.

Evans continued: "The benefits in terms of safety and comfort have proved advantageous for the company. The LED lighting supplied by One Electrical is flicker free, provides constant brightness and replicates natural daylight, which is crucial with our 24/7 opening hours."



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Gareth Evans, managing director of i-motion gym

The refurbishment took place over a five-week period from September - October 2013, with the gym opening its doors on 9 November 2013.

Evans continued: "Since our launch, we've had a number of clients compliment us on the quality of light within the gym."

Prior to the refurbishment, the previous gym-chain averaged a membership portfolio of 1,800 clients. i-motion gym now boasts a clientele of more than 3,500.

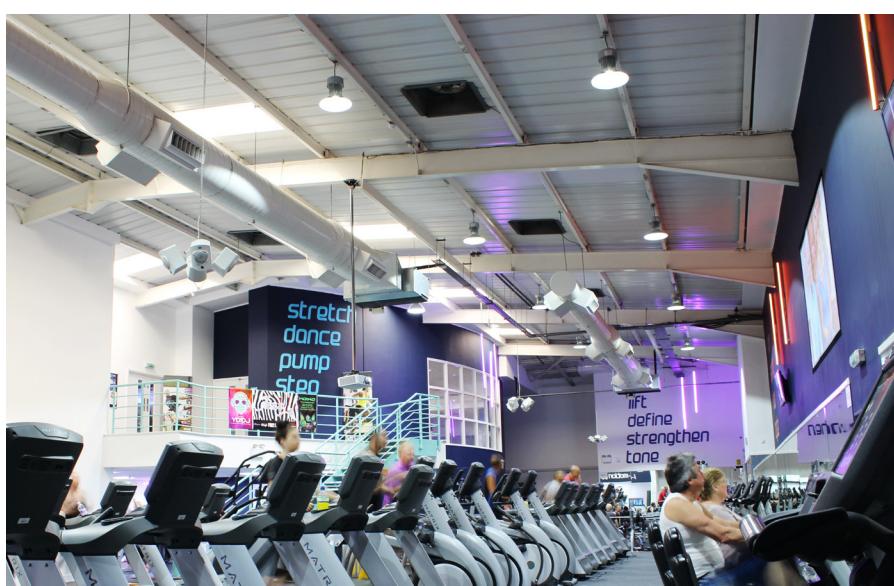
Financial Benefits

The previous lighting was inefficient, unattractive and required regular maintenance. Since converting to LED, i-motion gym has acquired a 70% reduction on its energy consumption, resulting in quarterly savings of more than £1,500.

Each LED product offers a life expectancy of 50,000 hours, compared to just 8,000 hours with traditional fluorescent lighting, meaning decreased maintenance and lamp replacement costs. With 24/7 operation, the new lighting is expected to last more than five years, generating an overall saving of more than £34,000.

Evans concluded: "We are now on the process of locating our second premises in the North West, with a plan to open 30 stores nationwide over the next five years. Each will feature the same quality and consistency of LED lighting supplied by One Electrical."

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About One Electrical

A UK based distributor of own branded quality electrical wiring accessories and lighting products, specialising in an extensive range of innovative, energy efficient LED lighting products. We are a recognised supplier to all UK national electrical wholesale groups and have hundreds of independent lighting & electrical wholesale customers, with more than 1,500 active UK accounts.

A Carbon Trust Accredited Supplier, One Electrical Ltd offers an LED lighting solution for every application; carrying extensive stocks of over 300 unique LED product lines with wattages ranging from 2W up to 200W, all with high lumen efficiency performance.

The product range includes retrofit products and also complete LED luminaires for both commercial and domestic applications. They are also able to supply bespoke LED products designed to exacting requirements; and offer a Relux based lighting design service. All of the LED products have a long life expectancy of 50,000 hours and are supplied with a minimum 2 year warranty.



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