A range of IP65 rated LED luminaires for high quality low energy lighting in wet, dusty environments

- Installation features include quick fix with Connect options, through wiring and BESA box compatibility (600mm spacing)
- Highly efficient LEDs (103 Lm/W) reduce energy consumption and costs, and provide further savings arising from longer maintenance lifecycles (50,000 hours @L70, Ta 25°C)
- Choice of emergency lighting and DALI dimming control
- The traditional design gives an aesthetically pleasing appearance - ideal for point for point replacement on refurbishment projects

Applications
- Cold storage
- Loading bays
- Multistory car parks
- Industrial plants
- Warehouses
- Storage areas

Lamp Information
- Lifetime 50,000 hours (@L70, Ta 25°C)
- 6400 Lm (62W), 4300 Lm (42W)
- 103 Lm/W
- Colour temperature 4000K
- CRI 80
- 5 MacAdams
Energy efficiency

The example below compares the performance and lifetime cost of 2x58W HF luminaires against AquaForce II LED

Multistory Car Park: 30m x 20m

This example is an underground car park which uses 2x58W HF luminaires. As part of a refurbishment programme the luminaires are being replaced point for point with AquaForce II LED 6400. The lifetime is over a 10-year period and the car park is used 24-hours a day, 7 days a week.

Over the 10-year period there is a 42% energy saving each year.

<table>
<thead>
<tr>
<th>Luminaires</th>
<th>Power</th>
<th>Energy consumption/yr</th>
<th>Energy saving %</th>
<th>Avg cost saving/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>AquaForce II 2x58W HF</td>
<td>107</td>
<td>2,334 kWh</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>AquaForce II LED 6400 HF L840</td>
<td>62</td>
<td>1,344 kWh</td>
<td>42</td>
<td>224 EUR</td>
</tr>
</tbody>
</table>

**Investment costs vs. running costs of solution (absolute)**

**AquaForce II 2x58W HF**

- Total investment cost: 88% savings

**AquaForce II LED 6400 HF L840**

- Total investment cost: 32% savings

- Total running cost over lifetime: 42% savings

**Dimming with lighting controls**

In most waterproof applications there is not always a need to operate the luminaires 100% at all times. Users tend to come in and out of the task space so by combing lighting controls with our standard dimming solution you can still provide good light levels as and when required but also maximise any energy saving potential within the space.

**Overview**

AQUAF2 LED 6400

**Ordering Guide**

Supplied complete with LEDs

<table>
<thead>
<tr>
<th>Description</th>
<th>Wt (kg)</th>
<th>SAP Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQUAF2 LED 4300 HF E3 L840</td>
<td>2.6</td>
<td>96241870</td>
</tr>
<tr>
<td>AQUAF2 LED 4300 HF E3 L840</td>
<td>2.8</td>
<td>96241941</td>
</tr>
<tr>
<td>AQUAF2 LED 6400 HF E3 L840</td>
<td>3.1</td>
<td>96241942</td>
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<tr>
<td>AQUAF2 LED 6400 HF E3 L840</td>
<td>3.3</td>
<td>96241943</td>
</tr>
<tr>
<td>AQUAF2 LED 6400 HF QF CONNECT L840</td>
<td>3.2</td>
<td>96241972</td>
</tr>
</tbody>
</table>

**Accessories**

- FORCE2 FIX/CH KIT: 0.02 | 96503167
- FORCE2 MCA KIT: 0.10 | 96233817
- FORCE2 MRS KIT: 0.06 | 96503169

**Materials/Finish**

- Canopy: polycarbonate
- Diffuser: polycarbonate with linear prisms
- Gasket: expanded polyurethane
- Toggles: stainless steel
- Gear tray: steel, white enamelled finish

**Installation/Mounting**

Cable entry positions at the back and each of the fitting. Supplied with IP65 grommet. Stainless steel quick fix brackets supplied with each luminaire. Stainless steel toggles are captive in the canopy to prevent loss during maintenance. Steel gear tray is retained and suspended by spring latches. Conduit mounting, chain suspension and catenary suspension kits are all available as accessories. Suitable for all indoor plus external under cover only applications.

**Specification**

To specify state:
High performance LED IP65, dust and moisture proof luminaire with polycarbonate canopy, polycarbonate diffusers and steel toggles, 4300 lumens/6400 lumens options, Ra80, 4000K, long service life of 50,000 hours with 70% light output.
As Thorn Aquaforce II LED