



PRESS RELEASE

OREON LAUNCHES THE SMALLEST AND MOST POWERFUL 1000W LED FIXTURE FOR GREENHOUSE HORTICULTURE

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IJSSELSTEIN, 3 February 2020. Oreon, the innovative Dutch developer and manufacturer of high-end LED grow lights for greenhouse horticulture, presents its new fixture at Fruit Logistica in Berlin, Germany. Oreon's Dutch Powerhouse, called Monarch, produces a light output of up to 3100 $\mu\text{Mol/s}$, with an efficiency of 3.1 $\mu\text{Mol/J}$. This makes the Monarch the most compact and powerful LED fixture on the market. Oreon was the first to introduce LED lighting in greenhouses in 2009, and now, more than 10 years later, Oreon once again presents a world-class LED fixture.

Efficient in many ways

All Oreon's Dutch Powerhouses operate with a unique water-cooling technique. This enables the compact Monarch to achieve a light output of up to 3100 $\mu\text{Mol/s}$ at an energy consumption of 1010W. That means even more light and fewer fixtures in the greenhouse. The result is not only a lower investment and lower installation costs, but perhaps more importantly: less sunlight being blocked in the greenhouse. Replacing a 1000W HPS fixture with the Monarch lets a grower provide around 60% more light on his crop.

In short: the smallest LED fixture with the biggest impact.

Benefits of water-cooling

Alongside enabling a high output, a compact fixture and high efficiency, the water-cooling system also provides benefits for the climate in the greenhouse. Less radiant heat means fewer temperature fluctuations, resulting in stable humidity and CO₂ values. Another advantage is the possibility of reusing the dissipated heat, making full use of the lamp's energy consumption. The active water-cooling also ensures a low operating temperature for the lamp, benefiting both the light output and the lifespan of the electronics and LEDs.

Oreon's latest LED fixture retains all the qualities and features that make Oreon's Dutch Powerhouses so successful, from its robust design and glass LED cover, to a low operating temperature and ease of maintenance.

The Monarch operates at voltages from 200 to 480 VAC, making it suitable for all types of electrical installations. The Monarch is available immediately in any desired light spectrum and can be supplied with a wide or narrow beam angle; this allows the best possible light uniformity to be achieved for any type of crop.

With the arrival of this powerful LED fixture, Oreon lets every grower improve the quality of his crop, reduce costs and increase total yield, with any desired light level and spectrum.

Oreon will present the Monarch at the Holland Pavilion at Fruit Logistica in Berlin from 5 to 7 February, Hall 3.2 – Stand C07.

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Oreon is the Dutch innovative developer and manufacturer of high-tech LED grow lights for greenhouse horticulture. Oreon started its research and intensive testing of the fixtures and technology more than ten years ago. The first commercial project with water cooled LED fixtures was installed in a greenhouse in 2009. Now Oreon's LED fixtures are used across the world in greenhouse horticulture, above a variety of different crops. Oreon stands for innovation, quality and flexibility. Our mission is to offer growers specific LED lighting solutions, in order to further optimize their growth and business case. The market potential is constantly developing and the demand for artificial lighting is increasing rapidly. Oreon works closely together with renowned parties across the world.