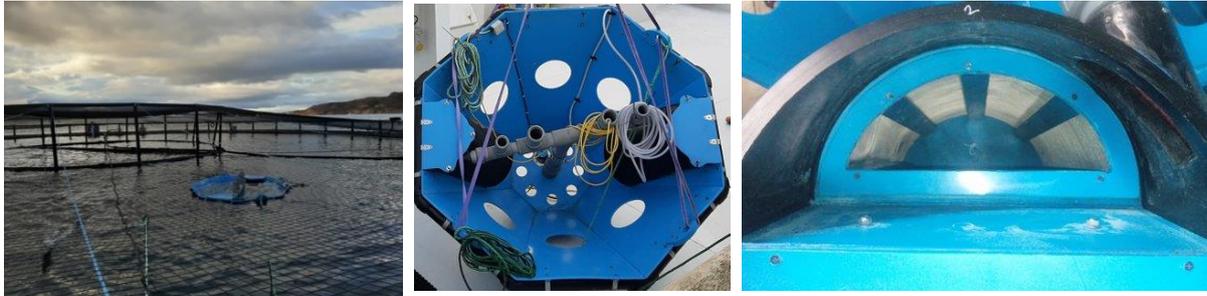


Project Case Study

Client:	Kerr Mac Aquaculture
Project:	Lice-O-Lator
Dates:	July 2019 – Present



Description:

Kerr Electrical are an established business, owned and operated by electrician Gavin Kerr providing services in the Argyll area. Gavin and business partner Dougie Macpherson set up Kerr Mac Aqua Solutions Ltd in early 2019 and have combined their skills to develop a unique non-intrusive device which can significantly reduce juvenile sea lice, plankton and amoeba, and improve gill health in marine aquaculture.

The Lice-o-Lator simply works by the specially selected blue light giving the highest propensity for attracting juvenile sea lice, algae and plankton. The system works by the compressed air flow which attracts the juveniles flowing into the filters where they are captured. The device uses services already on site - electricity and compressed air.

The specially formulated device floats on the surface of the pen and recirculates the water on the top 1/3rd of the cage every 24 hours.

Scope of Works:

Northern Light have worked closely with the team providing innovation support in developing the most commercially viable business plan for their product. We have secured support from industry and regulatory bodies leading to them to successfully securing a trial deployment with a marine fish farm.

Through this trial it ensured they had validated trial data. By securing this we are now in discussions currently in securing R&D/ Innovation grant funding to build further devices for a large scale commercial deployment.

Key Points

Sea lice and ongoing issues with gill health is consistently seen as the largest challenge to fish health and as a result as marine aquaculture as a whole. The Lice-O-Lator is robust, easy to use and effective. As a result of our stakeholder engagement on behalf of the company, we have seen brilliant results over the past 6 months, with the hopes for a large scale commercial deployment within the next quarter.