Ground-breaking delousing technology!



Fish welfare is good business sense!

The FLS Delousing System ensures minimal loss of biomass during delousing treatment due to its very gentle handling of the fish. This gentle handling results in extremely low mortality and helps the fish resume feeding again on the same day as the delousing treatment. Choosing the FLS Delousing System can save huge sums per delousing per cage. We'll be happy to show you our calculations!



Thorough training and follow-up

FLS Delousing System is simple to use and requires very little maintenance. Full training will be given on a training vessel operated by our partner Pure Shipping. We offer proper training so that the crew can achieve topguality results the first time they use the equipment. This means that you can enjoy all the benefits of the FLS Delousing System from day one.



Profitable investment

The FLS Delousing System has low energy consumption and low operating costs. Along with competitive pricing, this ensures a profitable solution with documentable results and excellent fish welfare. We will be pleased to provide a quotation and design proposal for your solution.

Using this system, we protect the quality of our fish, and supply the right quality to our customers.

Eldar Arne Henden - CEO, Pure Farming AS



Find out more. Contact us:

E-mail: office@fls.no Phone: (+47) 71 52 94 20

Flatsetsund Engineering AS Lunvikveien 42, 6523 Frei, Norway

www.fls.no



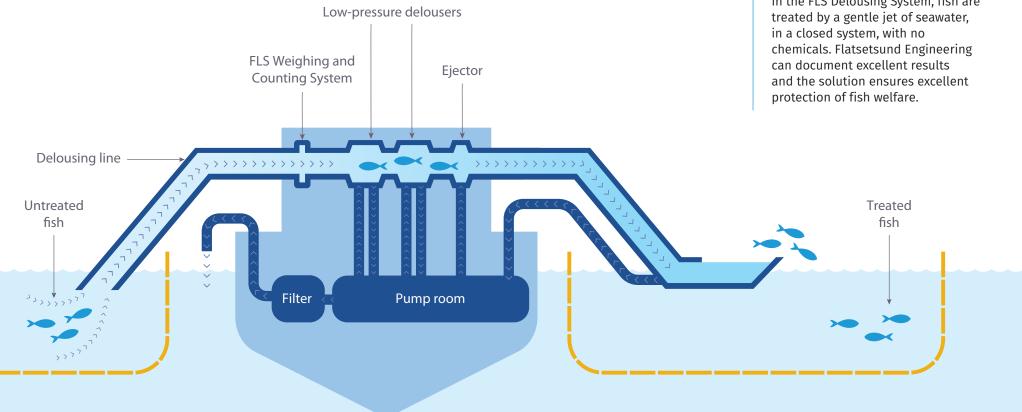
FLS Delousing System Safe, effective, profitable!

FLS Delousing System

Safe, effective, profitable!



The FLS Delousing System is a market-leading solution for removing salmon lice. We deliver high-quality Norwegian technology and optimum fish welfare - at a competitive price. In our modular design, each line is operated separately, and it is easy to increase the capacity of the installation by simply adding lines.





Fully tested system with high delousing effect

The FLS Delousing System has been comprehensively tested in the fishfarming industry and our solution has been shown to yield superb results. We can document that the system removes 95 per cent of mobile lice, 95 per cent of sexually mature lice and 50 to 70 per cent of sessile lice. The excellence of these results, combined with the gentle treatment of the fish, has generated substantial interest in the market and made the FLS Delousing System the preferred solution of both fishfarmers and service providers.

Large capacity - tailored to your needs

The system has a capacity of 40-50 tonnes/hour per line, and of approx. 20 tonnes/hour for small fish and brood fish. Cleaner fish require no sorting. They are gently processed through the closed system. The FLS Delousing System has low energy requirements, at only approx. 80 kW per line. The system is modular and easily extended by adding more lines. Because of this, the capacity of the solution can be readily optimised to meet your needs. The FLS Delousing System has an integrated FLS Weighing and Counting System. The FLS Delousing System is designed for fish of average weights between 1 and 10 kilos.

Louse-secure filtering - 150 µm filter on board

The new generation FLS Delousing System provides total louse collection without risk of releases into the sea. This is achieved by treating all the water on board and filtering it through a filter solution customised to your needs. The fish are separated from the treatment water as they are delivered to the pen. The treatment water is sucked back and filtered on board. This is a totally new solution for filtering, completely unlike the old filter bag arrangement. The new filter solution offers the same high quality fish welfare as before, but with much better and more user-friendly filtering.

Gentle handling for optimum fish welfare

The FLS Delousing System superbly safeguards both fish welfare and the environment. The system is chemicalfree and uses only seawater as a transport and treatment medium. The solution is very gentle on the fish. Treatment pressure is only 0.2-0.8 bar. Use of the system has yielded very low mortality rates (0.1%). Treatment time is only 2 seconds, with a total transport time of 10-15 seconds. The system has no internal moving parts, which helps ensure good fish welfare.

User-friendly design provides complete control

The FLS Delousing System is easy to use and allows you to control all aspects of the treatment. The flushing nozzles are fitted with cameras connected to a monitor, the FLS Weighing and Counting System is fully integrated and there are filter bags for louse collection. The system also provides continuously variable adjustment of all water flows with variable frequency drive pumps and remote-controlled valves. All functions are monitored and controlled from a touch screen in the control room. The FLS Delousing System can be used in all temperatures, and is easy to disinfect.

Green delousing

In the FLS Delousing System, fish are

Flatsetsund Engineering: Innovation and development

Flatsetsund Engineering has designed and manufactured advanced solutions for the aquaculture industry for many years. The first version of the ejector now used in the FLS Delousing System was developed back in 1991. The company won an innovation award for the FLS Delousing System at AquaNor in 2011. The system is under constant development. Generation 10 is now being supplied to customers, generation 11 is in development. The company's thorough testing and improvements have made the FLS Delousing System a market-leader.