



## Lagoonner



## Remote Systems for Hazardous Environments



## About Us

Established more than twenty years ago, Non Entry Systems Ltd (NESL) is a leading global manufacturer of specialist non-man entry tank cleaning equipment, sludge handling equipment and sludge treatment & oil recovery plants.

NESL is located in Swansea, South Wales in the United Kingdom and operates from an eighteen thousand square-foot facility. As all equipment is conceived, designed and manufactured on-site the facility incorporates offices, R&D, design, fabrication, assembly, testing, preparation & painting, and electrical workshops.

NESL are renowned experts in the design, manufacture and delivery of specialist equipment and systems and offer quality tailored solutions and systems that meet the needs of professional safety conscious contractors. We work closely with our customers, suppliers and end users to ensure compliance with the varying regulatory specifications in different countries. All NESL products are built to operate and last in hazardous environments and as such all products conform with the latest industry regulations such as ATEX, UL, and CE. In addition, all of the company's products are designed with functionality and user-friendliness in mind.

To ensure the highest standards possible, NESL has its own project managers who oversee each and every build. Components not manufactured in-house are sourced from trusted suppliers not only locally but from around the world that meet the same high levels of excellence as NESL. Each major component is catalogued, every serial number recorded and each item of equipment built by highly trained and experienced individuals.

All of the company's products and systems are the result of decades of design, testing, engineering expertise, innovation, dedication and first-hand experience of tank cleaning and its challenges. All these factors have contributed to NESL's equipment operating on storage facilities and refineries around the globe. Through our network of global agents, we are able to respond to any request, at any time.

## Clients Include

- Department of Energy – United States
- IBKA – Europe
- Veolia – Europe & United States
- Evergreen – Canada & United States
- Waste Reduction Services Ltd – United Kingdom
- KSS – Kazakhstan
- Environ – Nigeria
- Sepor – Spain
- Clean Harbors – United States
- PSC – United States
- NG – Norway
- Denholm Macnamee – United Kingdom
- PetroTech Services – United Kingdom

## Products & Services

Whatever requirements you or your client have we have a solution available and in the rare circumstances we don't have one readily available, we'll work with you and your client to find one. NESL have been put to the test many times in the past and have always been able to provide an innovative, cost effective and safe solution.

The NESL Lagoon system has been produced to complement our range of sludge handling equipment.

The complete system consists of a single twenty foot double door container with a built in electro-hydraulic power pack, Lagoon vehicle, umbilical, storage reel and control stand.

The compact design of the unit allows for a small site footprint and the container doors allow for sufficient air flow over the power pack to ensure all oils are maintained at the correct temperature.

Variable displacement piston pumps are incorporated into the power units' design to ensure lower heat generation. Coolers are also fitted to maximize efficiency.

The Lagoon comes complete with a choice of on-board lobe pump with a pumping capacity of eighty-two cubic meters per hour or above. The unit is ideal for the removal of heavy sludge from the lagoons, settlement ponds, interceptors etc. As standard the unit is fitted with a rotating macerator front end which is interchangeable with other types of heads.

The attached umbilical comes with an anti-static outer sheath as standard and houses the hydraulic lines used to control the unit. The discharge hose connection can be to the client's specification and ranges from fire hose to layflat.

The Lagoon is fitted with a mast that extends out of the lagoon and is fitted with a coloured directional indicator. This allows the operator to know exactly where the lagoon is located and aids in the systematic tracking of the unit over the lagoon floor.

The Lagoon is manually operated using a simple directional hand control valve system.





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