



# Portable Emergency Pumping System for Maritime Applications

Your preferred partner on the journey towards a cleaner tomorrow

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**LAMOR**



## Lamor's Portable Emergency Offloading Pumping System for Oil and HNS

Lamor has over 40 years of experience in designing, installing, and manufacturing industrial machinery and oil recovery equipment. We are committed to oil spill response, recovery, and clean-up operations globally. Our innovative technologies, services, and tailored solutions, ranging from oil spill response, waste management, and water treatment to soil remediation and plastic recycling, benefit customers and environments all over the world. Let's find the best solution for your needs.



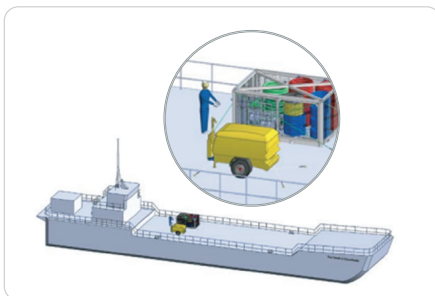
## Ensuring maritime safety and pollution response globally

The equipment system is a portable emergency offloading/transfer pumping system for oil and liquid Hazardous Noxious Substances (HNS) for maritime applications, including response to marine pollution. The system has been designed to be compatible with over 700 different substances.

The complete system contains, as a minimum, the following compatible components:

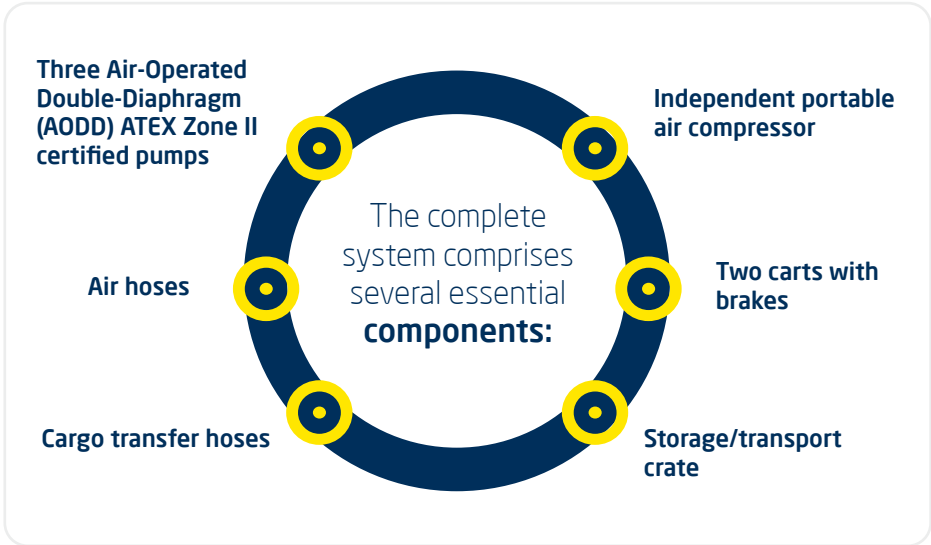
- A set of three air-operated double-diaphragm (AODD) ATEX Zone II certified pumps manufactured from different materials to ensure comprehensive compatibility with various substances
- Air hoses
- Cargo transfer hoses, compatible with pumps and applications
- Independent portable air compressor
- Two carts with brakes for easy transport, handling and operation of air and cargo hoses
- Pumps are installed for trolleys to enable safe and easy handling
- Storage/transport crate

The system is designed in such a way that it can be easily stored and operated from the deck of a vessel or at a suitable harbour location at short notice without the need to be pre-fitted or customised in any way. The system and its components are equipped with dedicated lifting points.



# Equipment system overview

The fully independent system is designed for easy storage and operation on vessels or at harbours without pre-fitting or customization. Dedicated lifting points enhance handling and deployment efficiency. The system complies with the Essential Health and Safety Requirements of Directive 2006/42/EC or equivalent standards.



## Pump Specifications

Pumps are constructed for extended use, allowing for transfer and multiple pumping cycles without compromising quality and performance. The design facilitates quick on-site repairs and part replacements during operations. Each AODD pump is ATEX Zone II certified.

### Key pump features

- Pumping capacity: minimum 42m<sup>3</sup>/h
- Valve type: Ball
- Pneumatic pressure adjuster: 1-8 bar
- Delivery head: 80m
- Max pressure: 8 bar
- Air filter regulator, water separator
- Operating temperature: -20°C to +95°C
- Inlet/outlet diameter: 2"
- Substance group marking
- Set of spare parts and detailed manual for each pump

## Air Supply Hoses

### Air supply hoses designed with:

- Connections compatible with pump and compressor
- Operating temperature: -20°C to +60°C
- Adequate diameter and max. working pressure
- Two units of 25m, 50m, and 100m each

## Cargo Transfer Hoses

### Cargo transfer hoses specifications

- Compatible with pumped substances
- Diameter: 2"
- Operating temperature: -30°C to +100°C (Highly Aggressive Chemical Hose, FEP: -40°C to +150°C)
- Reinforced with steel spiral
- Camlock connections
- Length per pump: 5m, 10m, and 25m each

## Independent Portable Air Compressor

### Compressor features:

- Compatible with pumps
- Free air delivery: max 5 m<sup>3</sup>/min
- Normal working pressure: 7 bar
- Max designed pressure: 10.3 bar
- Outlet valves compatible with pumps
- Three outlet valves
- Air pressure gauge, air dryer
- Operating temperature: -20°C to +50°C
- Diesel engine
- Remote control
- Portable on wheels
- Weight: 749 kg

## System Packaging

### The complete system is packaged for ease of storage, road, and air transportation:

- Two packages: one wheeled compressor with towing bar, one storage rack for pumps, hoses, and accessories.
- Fits one air freight P1P base each (162.5cm height, 223.5cm width, 317.5cm length)
- Storage rack constructed from marine-grade materials.
- Painted and labelled as per requirements.
- Includes two carts for hose and pump handling.

# Benefits of using the Lamor system

## **Efficient pollution response:**

Lamor's system ensures a rapid and effective response to oil spills and HNS incidents, minimizing environmental impact.

## **Safety assurance:**

ATEX Zone II certification and compliance with safety standards provide confidence in the system's safe operation.

## **Downtime reduction:**

Quick and easy on-site repairs and replacements reduce downtime, enabling continuous operation during critical situations.

## **Versatile deployment:**

The portable system allows for deployment in various marine environments, contributing to comprehensive pollution response.

# Training services and tailored training programs

Secure your organisation's future with environmental preparedness. Lamor offers comprehensive training at project completion, ensuring your team is equipped with the knowledge to handle diverse environments and conditions. Lamor's training services ensure your team is ready for every challenge.

## Your benefits

### **Correct installation and connection**

Ensure proper setup and connection of all components for seamless operation.

### **Equipment optimization**

Precise entry of equipment characteristic values for optimal performance.

### **Enhanced safety**

Training focuses on safety protocols, ensuring the secure and efficient use of equipment.

### **Expert support**

Our experts answer any questions related to the equipment, providing ongoing support.

### **Familiarization with systems**

Your staff becomes proficient in using the supplied systems, enhancing operational efficiency.



# LAMOR

Let's clean the world

## Lamor in brief

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Lamor is one of the world's leading providers of environmental solutions. For four decades, we have worked to clean up and prevent environmental incidents on land and at sea.

Environmental protection, soil remediation and material recycling: Our innovative technologies, services and tailored solutions, ranging from oil spill response, waste management and water treatment to soil remediation and plastic recycling, benefit customers and environments all over the world.

We are capable of vast and fast operations thanks to our connected ecosystem of local partners, steered by our experts. Lamor's share is listed on the Nasdaq Helsinki (ticker: LAMOR). Further information: [www.lamor.com](http://www.lamor.com)