

HIGH CAPACITY SKIMMER SYSTEM

LAMOR LUT 5 80

GENERAL DESCRIPTION

The Lamor High Capacity Skimmer is a containerised oil pollution recovery system fitted with one self-propelled skimmer-head connected to an umbilical hose. It is stored on a reel with an integrated telescopic crane arm from which the skimmer-head is deployed directly hanging from the umbilical hose. To allow for a wider recovery range the skimmer-head is fitted with exchangeable modules (e.g. weir and/or brush).

MAIN COMPONENTS

The system is composed of the following main components:

- 1 x Skimmer unit LWS 1300 with brush adapter and screw pump
- 1 x Umbilical hose system
- 1 x Containerised hydraulic diesel power pack
- 2 x 10 ft ISO standardised flat racks with a 20 ft removable steel container roof with maximum height 4000 mm (hose reel system with skimmer)
- 1 x 10 ft Container (for diesel hydraulic powerpack)

KEY CHARACTERISTICS

The system is fully autonomous diesel-hydraulic operated. All components (reel, telescopic arm and skimmer) are hydraulically driven and they can be operated locally and by a wireless EX-proof remote control. Working range of radio remote being up to 750 m.

The complete system is ATEX certified to operate in Zone 2 according to Directive 2014/34/EU (equipment Group II category 3) or equivalent. The key characteristics of the system are:

- The skimmer head is equipped with 2 x 20 kW thrusters making the system mobile for use in J/U sweep configurations.
- The oil adheres to the rotating brush wheels and is separated and cleaned from the brushes into a collection sump. The LBA 1300 brush wheels collect all types of oil, including diesel, fresh crude, high viscosity bunker oil and emulsions, while collecting almost no free water (below 2%). The maximum pumping capacity of the system is 140m³/h.
- The oil collected is off-loaded by a Lamor Positive Displacement Archimedes Screw (PDAS) pump type GT A 140 and transferred via the floating hose. This stainless steel pump has a water/steam annular injection on the inlet and a debris cutting knife to handle solids such as seaweed, plastics and ropes.

- Containerised Explosion Proof Lamor Power Pack LPP 95 J is powered by a water cooled diesel engine and serves as a high capacity multipurpose power pack designed for the flexible operation of many types of hydraulically operated oil spill clean-up equipment. The unit is certified to Atex Zone 2, II 3G Ex h IIA T3 Gc.
- The Lamor Umbilical Hose Reel is equipped with a telescopic crane arm with a max reach of 5.7 m with a lifting capacity of 1.5 t. The whole unit is mounted on a 10 ft flat rack with turntable, and can be rotated 360° on the 10 ft flat rack platform in both directions.
- The 5" umbilical hose is 80 m long. It is a unique integrated, free-floating sleeve containing all hoses for recovered oil transfer, water injection and hydraulic hoses to operate the offshore skimmer, pump(s), propellers, etc.

TECHNICAL SPECIFICATIONS

LENGTH	6056 MM
WIDTH	2437 MM
HEIGHT	4000 MM
DEPLOYMENT TIME	60 MINUTES
WEIGHT	15000 KG

STORAGE & TRANSPORT

The Lamor High Capacity Skimmer System is stored on two 10 feet ISO standardized flat racks and equipped with a 20 ft removable steel container roof with walls and doors, fitted with twist locks and forklift channels for easy transport. The roof construction is easily attached/detached to/from the flat racks.

OPERATIONS

The system is designed in such a way that it can be installed and operated on deck of a vessel, fitted with twist-locks for 10/20ft ISO container, without being pre-fitted or customized in any way. The system, once installed and connected, is designed for one-man operation (deployment, maneuver and retrieval) using independently local controls and wireless remote controls.