

SKIMMER SYSTEM**LAMOR LFF 400W****OFFSHORE SKIMMER****Annex 5 - Equipment Infosheet****GENERAL DESCRIPTION**

The Lamor offshore skimmer is a high capacity free-floating skimmer designed for open sea oil recovery operations.

The LFF 400W is designed for deployment from a vessel into an area where oil has been contained. It is fitted with two hydraulic thrusters, allowing the operator to manoeuvre the system to where oil is most heavily concentrated.

The radio remote control system, which is included in the skimmer system, can operate the skimmer functions from a distance of up to 150 meters.

BRUSH MODULE

Oil adheres to the rotating brush wheels and is separated and cleaned from the brushes into a collection sump. The LFF 400 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%).

PUMP

The oil collected is off-loaded by a powerful Lamor Positive Displacement Archimedes Screw (PDAS) pump type GT A 115 and transferred via the supplied floating hose. The efficiency of the pump is increased due to a water/stream annular injection on the inlet and a debris cutting knife to handle solids such as seaweed, plastics and ropes. The pump is constructed from robust seawater resistant aluminum for the casings and stainless, acid proof steel internals with special seals that ensure the pump remains 'dry'.

KEY CHARACTERISTICS

- Free-floating offshore skimmer
- One PDAS pump, capacity 115m³/h
- Brush skimmer module with brush wheels
- Two thrusters, remote control

TECHNICAL SPECIFICATIONS

LENGTH	2280 MM
WIDTH	2280 MM
HEIGHT	1955 MM
DEPLOYMENT TIME	APPROX. 10 MIN.
POWER REQUIREMENTS	70 KW
HYDRAULIC FLOW	160 L/MIN
HYDRAULIC PRESSURE	210 BAR
PUMPING CAPACITY	115 M ³ /H
FREE WATER COLLECTED	BELOW 5%
WEIGHT (ONLY SKIMMER HEAD)	750 KG
WEIGHT (SYSTEM ON FLAT RACK)	4 TONNES

HOSE WINDER

The Lamor hose winder is designed to store hydraulic and oil transfer hoses. The winder frame is produced from steel and is protected with marine grade painting. The winders are of sea water resistant aluminium.

The construction allows the transfer hoses and the hydraulic hoses to be winded and locked separately. The frame is equipped with 4-point lifting points and forklift channels. The maximum storage capacity of the winder is 60 meters of hydraulic hoses and oil transfer hose.



STEERING THRUSTERS AND REMOTE CONTROL

The LFF 400W is designed for deployment from a vessel into an area where oil has been contained. The skimmer is hydraulically operated and it is fitted with two hydraulically driven stern tunnel thrusters to allow the operator to manoeuvre the skimmer to where oil is most heavily concentrated.



STORAGE

The 20 ft flat rack container for skimmer set is ISO standardised and is equipped with twist locks for transportation, lifting hooks and forklift channels.

The container is an open type, tarpaulin covered flat rack type unit to enable easy deployment of the system. The container comes equipped with twist lock for transportation, lifting hooks and forklifts channels.

POWER PACK

The Lamor LPP 90 Cu power pack is powered by a water cooled diesel engine and serves as a high capacity multipurpose power pack. The power pack is containerised within a steel frame designed to ensure a good air circulation inside the power pack frame.



TECHNICAL SPECIFICATIONS

LENGTH	2300 MM
WIDTH	1400 MM
HEIGHT	1800 MM
WEIGHT	2000 KG
HYDRAULIC PRESSURE	210 BAR
HYDRAULIC FLOW	320 L/M
POWER	90 KW AT 2200 RPM

EQUIPMENT AVAILABILITY

LOCATION	COMPLETE ADDRESS	NUMBER OF SYSTEMS
Equipment Assistance Service (EAS) Baltic Sea	Narwicka 7a str., 80-557 Gdansk, Poland	1 stored on a 20ft flat rack container