

SKIMMER SYSTEM

LAMOR LAS 125 ARCTIC SKIMMER



GENERAL DESCRIPTION

The Lamor arctic skimmer (LAS) is a special purpose oil recovery system designed for operation in extreme cold and broken ice conditions. The LAS is normally deployed by a crane or davit but can be also used as free floating skimmer utilizing the optional floats when required. The LAS is equipped with a warm water heating system to improve recovery in arctic conditions. The LAS provides an efficient and practical solution to recovery in arctic conditions.

BRUSH MODULE

The LAS incorporates static ice deflection pipes and rotating brush wheels for oil separation and collection. The two brush wheels collect and separate the oil from the water. Any encountered ice pieces are crushed by the ice crushing screws inside the hopper. These screws also feed the oil to the built-in Lamor pump.

PUMP

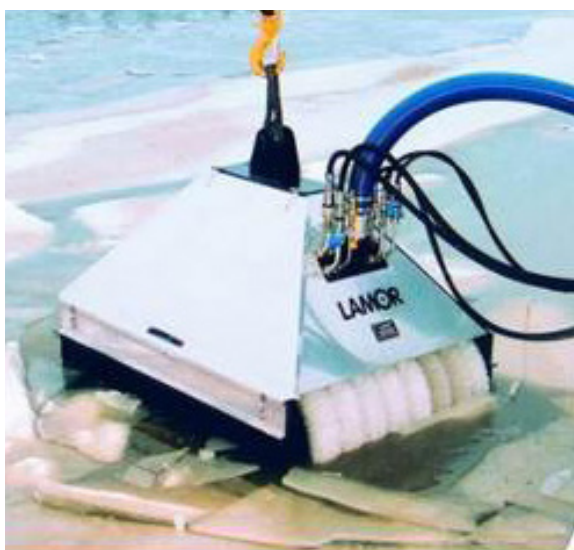
The oil collected is off-loaded by a powerful Lamor Positive Displacement Archimedes Screw (PDAS) pump type GT A 115 and transferred via the supplied floating hose. The efficiency of the pump is increased due to a water/stream annular injection on the inlet and a debris cutting knife to handle solids 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

- Oil spill recovery in arctic conditions
- One PDAS pump, capacity 115m³/h
- Brush skimmer module with ice crushing screws
- Warm water heating system
- Skimmer floats enable operation as free-floating skimmer

TECHNICAL SPECIFICATIONS

LENGTH	2980MM
WIDTH	3110MM
HEIGHT	2182MM
DEPLOYMENT TIME	APPROX. 10 MIN.
POWER REQUIREMENTS	80KW
HYDRAULIC FLOW	185 L/MIN
HYDRAULIC PRESSURE	210 BAR
PUMPING CAPACITY	115 M ³ /H
FREE WATER COLLECTED	BELOW 5%
WEIGHT (WITHOUT FLOATS)	840KG
WEIGHT (SYSTEM ON FLAT RACK)	4 TONNES



HOSE WINDER

The Lamor arctic skimmer 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 hydraulic hoses to be winded and locked separately. The frame is equipped with 4-point lifting points forklift channels. The maximum capacity of the winder is to store 40 meters of hydraulic hoses and lay-flat transfer hose.



FLOATS

The sea water resistant aluminium floats can easily be connected to the skimmer. In this way, the skimmer is converted from a crane operated skimmer to a free floating offshore skimmer. The floats are shaped to guide the oil into the brush skimmer. The robust floats are equipped with four point lifting eyes.



TECHNICAL SPECIFICATIONS

LENGTH	2980MM
WIDTH	790MM
HEIGHT	900MM
WEIGHT	165KG EACH

STORAGE

The 20ft 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 90Cu power pack is powered by a water cooled Cummins 4.5 liters turbocharged 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	2300MM
WIDTH	1400MM
HEIGHT	1800MM
WEIGHT	2000KG
HYDRAULIC PRESSURE	210 BAR
HYDRAULIC FLOW	320L/M
POWER	90KW AT 2200RPM

