

## CONTAINERIZED ARCTIC SKIMMER

### SYSTEM LRB150



#### GENERAL DESCRIPTION

The Lamor Containerized Arctic Bucket Skimmer System LRB 150 is a standalone specialized oil recovery system for the recovery of oil in ice covered waters. The oil recovery system is mounted on a flat rack with 20ft container footprint and is protected by a removable container roof when in storage. The system is versatile and can therefore be operated in both warm and cold climate. It can also recover a wide range oils with viscosity over 1 milj. cSt.

#### MAIN COMPONENTS

The Skimmer system is composed of the following main components:

- Lamor Oil recovery bucket LRB 150 R, with roto tilt
- Oil transfer pump GTA 115, Stainless steel
- Set of 5" Oil transfer hoses with heat tracing
- Set of hydraulic hoses
- Foldable Knuckle boom crane
- Hydraulic Power Pack, LPP 56 K Arctic , Stage V
- Heat Generator, closed circuit
- Water injection pump
- Radio Remote control
- Accessories / Spare Parts
- All installed on 20ft Flat Rack with removable container roof

#### KEY CHARACTERISTICS

The key characteristics of the skimmer system are:

- The containerized arctic skimmer system is versatile and can recovery a wide range of oils;
- The system has been designed mainly for arctic environment but can also be used in tropical climate;
- The system is designed to be assembled and operated from the deck of a vessel or harbor pier. The systems if fully autonomous;
- It can be deployed rapidly and has excellent maneuverability;
- The systems designed to be operated from a radio remote control but is also equipped with manual controls as back up;
- All the main components of the Oil Transfer Pump are of Stainless steel making it extremely resistant to corrosion;
- With the Heat generator the system can be pre-heated before start-up ;

## TECHNICAL SPECIFICATIONS

### CONTAINERIZED ARCTIC SKIMMER SYSTEM LRB150

#### General system

OPERATING TEMPERATURE	-30°C - + 40°C
STORAGE DIMENSIONS	20FT ISO container
WEIGHT	11 000 Kg

#### Bucket Skimmer LRB 150 and pump GTA 115 SS

RECOVERY CAPACITY (CERT.)	151,4 m <sup>3</sup> /h
PUMPING CAPACITY (CERT.)	121,4 m <sup>3</sup> /h
DISCHARGE PRESSURE	14 bar

#### Crane

REACH	12300 mm
LIFTING MOMENT	17,84 Mt

#### Hydraulic Power Pack LPP 56 K, Arctic Stage V

TYPE	Diesel hydraulic
POWER	56 kW
HYDRAULIC FLOW (MAX)	250 l/min
HYDRAULIC PRESSURE (MAX)	300 bar

#### Heat Generator

TYPE	Closed circuit
POWER	35 kW

## STORAGE & TRANSPORT

The equipment part of the Lamor containerized arctic skimmer system LRB 150 are stored on a 20ft flat rack with a removable container roof. When the container storage roof is installed the dimensions of the system are the same as on a standard 20ft shipping container.

## OPERATIONS

The system is designed in such a way that it can easily and quickly be taken into use by two operators. Before deploying the system it needs to be properly secured using container locks with a standard 20ft shipping container footprint. The system can be used over the side or stern of a vessel or barge or alternatively from the dock side. When choosing the deployment location the cranes reach needs to be taken into consideration. To connect the bucket to the crane an additional 6m space required in front (same side as bucket is stored) of the platform. Additionally, 1m clearance around the platform is required during operations. When mounted on a vessel the reach of the crane and the weight of the skimmer should be considered. The crane and skimmer are operated from a radio remote control. There is also an option for controlling the functions manually from the hydraulic control valve.

