

## COMBINED RECOVERY SYSTEM

### NOFI Current Buster 4 (AllMaritim)

#### GENERAL DESCRIPTION

The NOFI Current Buster 4 is a high-speed oil containment and recovery system, designed to be operated from a single vessel only. The system consists of an inflatable boom with an integrated oil water separator and a temporary storage tank of 40m<sup>3</sup>. It does not require continuous pumping and is to be emptied when full. NOFI Current Buster will stay out at spill site collecting oil and the vessel with tank capacity will shuttle between spill site and land with the recovered oil. The NOFI Current Buster system is a well proven system used in oil spills globally.



#### MAIN COMPONENTS

The NOFI Current Buster 4 system is an autonomous system composed of the following main components:

- 1 x NOFI Current Buster 4 oil boom with separator and oil storage
- 1 x Hydraulic cooperated boom reel
- 1 x BoomVane 1.0 with drop back system
- 1 x Sea Anchor complete with kill line (for vessel deployment)
- 1 x Diesel Hydraulic Power Pack
- 1 x Set of spare parts and accessories
- 1 x 10ft ISO Container

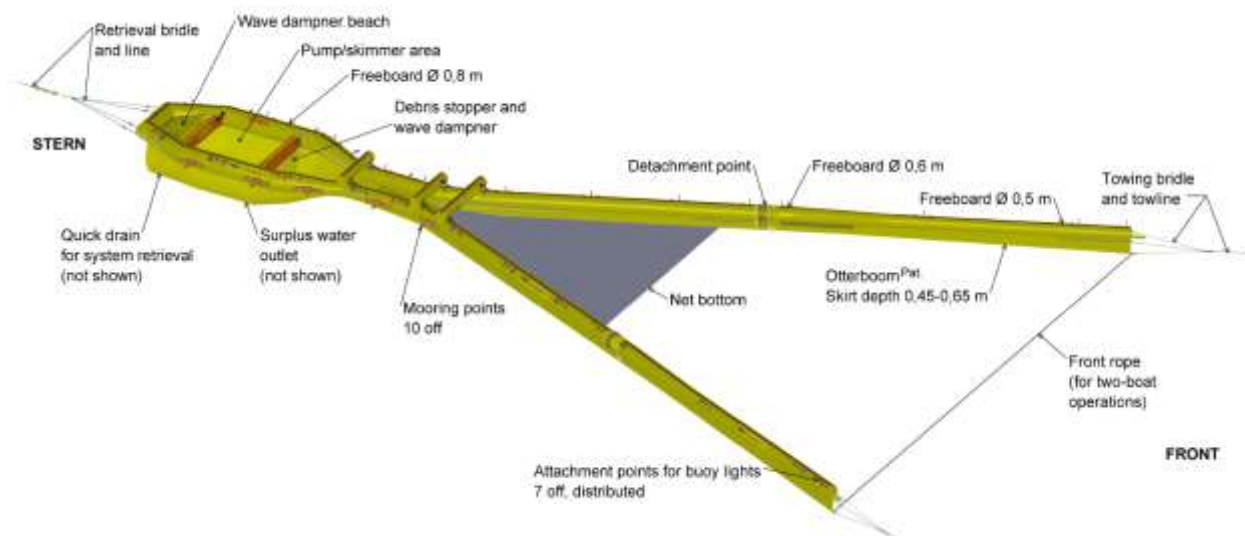
## KEY CHARACTERISTICS

The NOFI Current Buster 4 system ensures superior clean-up capabilities in tidal, wind and wave currents due to its high Speed Through Water (STW) capability. Given its design, the hydrodynamic shape reduces the drag force and allows the system to move easier through water. Together with the optimised shape of the separator arrangement, it stabilises the movement of the liquids and the separator in the temporary storage area. The system is also capable of operating faster and more efficient than conventional oil boom configurations, by using only one vessel in conjunction with a boom vane. This provides a significant advantage as it allows the system to achieve much higher towing speeds, of up to 4.4 knots. The key characteristics of the system are:

- Single vessel operation by use of boom vane;
- Hydrodynamic shape ensuring optimal performance in wave conditions and low towing resistance;
- Operational limitation are braking waves.
- Enhanced manoeuvrability due to single vessel operation;
- Open separator arrangement allowing for easy access for pumps, facilitating debris removal and visual monitoring;
- Oil contained in the system is stored in the separator area.
- Allows build-up of a layer of up to 1.2-meter-thick oil in the separator area, thus ensuring oil and not water to be pumped to the vessel's tank. Pump is pumping below surface thus preventing debris getting into the pump and allowing for significantly longer operational time and less servicing of pump.
- Suitable for any type of oil without any adjustments.

## TECHNICAL SPECIFICATIONS

|                            |                                                                          |
|----------------------------|--------------------------------------------------------------------------|
| Total length:              | 36.8 m                                                                   |
| Sweep length:              | 23.8 m                                                                   |
| Sweep opening (up to):     | 23.0 m                                                                   |
| Separator net volume:      | 20-26 m <sup>3</sup> (at 4 knots STW)                                    |
| Freeboard:                 | 0.5 to 0.8 m                                                             |
| Draft:                     | 2.2 m                                                                    |
| Sweeping speed flat water: | up to 4.4 knots                                                          |
| Sweeping speed in waves:   | 2 – 4 knots (wave limitations are braking waves)                         |
| Weight of system:          | 10ft ISO Container incl. full system and accessories, approx. 3.8 tonnes |



## STORAGE & TRANSPORT

The system is fully containerised and is stored inside one 10ft ISO CSC container with the Current Buster system on reel, BoomVane, power pack, air blowers, spare parts and all accessories.

NOTE: The equipment will be provided without lifting appliances.

## OPERATION

The system is to be towed with a single vessel in combination with a paravane named BoomVane, which eliminates the need of a second towing vessel. The system can be deployed from land and towed out or from a vessel.

Vessel/ towing boat requirements recommendations for from land deployment:

- Minimum towing force (bollard pull); 3.0 ton
- Directional stable with deep keel (recommended)
- Crane for deployment of boom vane, capacity of 250kg (recommended)
- Capstan for recovery of BoomVane (recommended)

Additional vessel/ towing boat requirements recommendations for at sea deployment:

- Stern opening of minimum 4.5 metres for safe deployment of the system;
- Deck space for 1 x 10' ISO CSC container with minimum 4 meter from container to stern of vessel

In order to deploy the system in a safe and efficient manner four people are recommended. The system can be deployed and retrieved in both directions with separator first or sweep arms first.

Example of use of NOFI Current Buster:

