COMBINED RECOVERY SYSTEM

NOFI CURRENT BUSTER 6 (ALLMARITIM)

GENERAL DESCRIPTION

The NOFI Current Buster 6 is a high-speed containment, decanting and recovery system designed to be deployed and operated from one single vessel only. The system consists of an inflatable boom with a decanting arrangement and a pump system for transferring the collected oil from the separator area to the vessel.

MAIN COMPONENTS

The system is composed of the following main components:

- 1 x NOFI Current Buster 6 boom on reel
- 1 x BoomVane 1.5 with drop back system
- 1 x Sea Anchor complete with kill line
- 1 x Pump Unit DOP250
- 1 x Umbilical 105 m (40 m + 65 m) with reel
- 1 x Diesel Hydraulic Power Pack 73 kW ATEX II
- 1 x Oil Transfer system for continuous pumping to vessel
- 1 x Set of spare parts and hoses
- 1 x 20ft ISO Container, 2 x 10ft ISO Containers

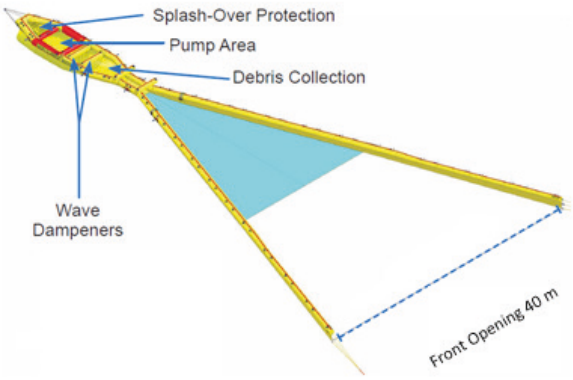
KEY CHARACTERISTICS

The NOFI Current Buster 6 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 efficiently 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 5 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;
- 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 Current Buster is stored in the separator area until the pump is activated;
- Allows build-up of a layer of up to 1.5 meter with oil in the separator area, thus ensuring oil and not water to be pumped into 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;
- Certified to operate in Hazardous Area Zone II in accordance with the ATEX Directive (ATEX 94/9/EC) or similar;
- Suitable for any type of oil without any adjustments.

TECHNICAL SPECIFICATIONS

TOTAL LENGTH	65.0 M
SWEEP LENGTH	41.3 M
SWEEP OPENING (UP TO)	40.0 M
SEPARATOR NET VOLUME	35-40 M^3
FREEBOARD	0.8 TO 1.0 M
DRAFT	2.6 M
SWEEPING SPEED FLAT WATER	UP TO 5 KNOTS
SWEEPING SPEED IN WAVES	2 – 4 KNOTS
PUMPING CAPACITY	100 M^3/H (CONTINUOUS), 125 M^3/H (INTERMITTENT)
UMBILICAL	105 M (40M ON DECK + 65 M IN THE WATER)
WEIGHT OF THE SYSTEM	20FT ISO CONTAINER WITH CURRENT BUSTER AND POWER-PACK, APPROX. 8700KG
	10FT ISO CONTAINER WITH UMBILICAL EQUIPMENT, APPROX. 4000KG
	10FT ISO CONTAINER WITH BOOM VANE AND PUMP, APPROX. 3000KG



STORAGE & TRANSPORT

The NOFI Current Buster 6 system is fully containerised and is stored as follows:

- 1 x 20 ft ISO container for the Current Buster system on reel, pump unit, power pack, hydraulic air blower and spare parts
- 1 x 10 ft ISO container for the Boom Vane 1.5 system
- 1 x 10 ft ISO container for floating umbilical for oil transfer from oil separator to vessel

NOTE: The equipment will be provided without lifting appliances.

OPERATIONS

NOFI Current Buster 6 can be towed with a single vessel in combination with a paravane named BoomVane, which eliminates the need of a second towing vessel.

The vessel suitable for single-vessel operation of the Current Buster 6 must be directional stable and/or with ability for sideways movements (i.e. side propeller/thruster). This is because the BoomVane will pull sideways during operation. The vessel must also be suitable to act as a towing vessel and be able to tow with sufficient pull force (i.e. 15 tonnes in the speed range of 2 – 5 knots). In addition, the vessel will need to meet the following requirements:

- Stern opening of minimum 6 metres for safe deployment of the system;
- Deck width of minimum 9 metres;
- Deck space capacity to allow the storage of the containers (1 x 20 ft, 2 x 10 ft) plus a clear space of 10 meters from the stern for deployment purposes;
- Crane on starboard side to deploy boom vane (400 kg lifting capacity when stretched out);
- Capstan at stern for BoomVane and sea anchor recovery.

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 (i.e. starboard or port side), although the standard configuration should be for starboard side.

EQUIPMENT AVAILABILITY

LOCATION	COMPLETE ADDRESS	NUMBER OF SYSTEMS
Equipment Assistance Service (EAS) North Sea	Barra Business Park, Mounie Drive, Oldmeldrum, Aberdeenshire, AB51 0GX, UK	2 x NOFI Current Buster 6
Equipment Assistance Service (EAS) Baltic Sea	Narwicka 7a str., 80-557 Gdansk, Poland	1 x NOFI Current Buster 6
Equipment Assistance Service (EAS) Adriatic Sea	38/40 via del Trabaccolo Ravenna, Italy	1 x NOFI Current Buster 6

Note: The information is based on the manufacturer's documentation