

POLAR BEAR - ICE SKIMMER - New Generation of Ice Skimmers developed in cooperation with SINTEF Material and Chemistry in Norway.

PROVEN OIL SPILL TECHNOLOGY



POLAR BEAR - ICE SKIMMER

The design of the POLAR BEAR Ice skimmer has benefited from a continuing development programme over nearly 3 years. The resulting system is a very versatile, reliable, powerful and seaworthy oil skimming system that can be used in ice-infested waters.

The POLAR BEAR is a powerful offshore ice skimmer which because of its compact hexagonal design ensures optimal contact with the surface surrounding the skimmer.

The POLAR BEAR is equipped with an Archimedes screw pump, the DOP 200 DUAL (or other DOP Pump) for offloading the oil and smaller lumps of ice.

The POLAR BEAR Ice Skimmer has integrated floats which gives the skimmer a very good ability to float.

It is very easy to remove and replace a module on the Ice Skimmer.



Advantages - Polar Bear Ice Skimmer:

- Compact hexagonal design Optimal contact with the surface surrounding the skimmer.
- 6 individual collecting brush modules enables the skimmer to collect in a range of 360°
- 6 individual collecting brush modules driven by 6 individual hydraulic motors in two separate circuits ensures a uniform rotation, enables each side of the skimmer to be individually operated.
- Removable brush modules easy to remove and replace.
- Long brush bristles when rotating slowly limits the actual pick up of ice.
- DOP DUAL 200 Pump for offloading oil, smaller lumps of ice and cutting up debris.

TECHNICAL DATA

DIMENSIONS

2.25 m Lenath: 2.50 m Width: Height: 1.85 m

WEIGHT, DRAUGHT AND BUOYANCY

750kg approx Weiaht: Draught: 10 m

Buoyancy from internal floats: 1.05m³ BRUSH MODULES Number of brush modules:

Number of Brush wheels: Outer diameter of brush drum:

Width of each brush module 900 mm Bristle length:

Bristle material: Bristle hub material: POM

Scraper/sealing device:

HYDRAULIC SYSTEM

Brush-Module Hydraulic motor: Hydraulic flow *):

Hydraulic pressure: Hydraulic quick couplings**):

Hydraulic motor speed:

Off-loading pump Hydraulic motor:

Hydraulic flow *) Hydraulic pressure:

Hydraulic quick couplings**):

Hydraulic motor speed: 0-800 rpm *): IMPORTANT: The hydraulic flow must be adjustable within the

**): Other types available on request.

INTEGRATED OFF-LOADING PUMP

Designation:

range given.

Type: Pump casing: Pump suction

Replaceable sealing discs: Sealing ring: Wear plates

Screw shaft

6 pcs. 9 pcs/module 290 mm

100 mm PA 6

Stainless steel/nitrile rubber

OMP200 (200 cc) 6 pcs. 0-10 l/min

210bar (max) 1/2" TEMA male/female

(Return/Supply) 0-50 rpm

OMTS160

0-130 I/min

210bar (max) 3/4"TEMA male/female (Re

turn/Supply) 3/8"TEMA male (Drain)

DOP 200 DUAL (or other DOP

Pump) Archimedes screw pump Seawater resistant aluminum Free open end-suction 10 Polyethylene HD Polyethylene HD Stainless steel

Plate wheel High tensile steel High tensile steel 1½" (Ø 38 mm) Debris size through pump:

For more information on Oil Spill Response systems, please visit www.desmi.com

