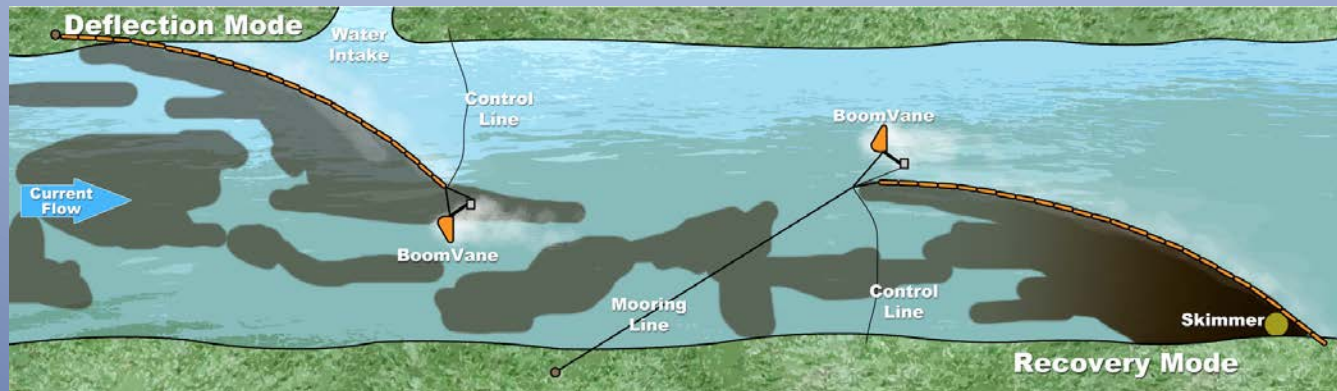


BoomVane™



BoomVane™



BoomVane™ is a device for deploying oil containment boom into shallow rivers and other waterways by harnessing the power of the current. This BoomVane™ is designed for both shore based and vessel operations with shallow draft oil boom.

BoomVane™ is constructed as a cascade of vertical wings mounted in a rectangular frame. Powered by the current, the BoomVane™, held by a single mooring line only, swings out towards the opposite shore with the oil boom in tow. This powerful yet light and handy tool enables rapid boom deployment - it can be operated in waters with heavy traffic since the control rudder allows for fast and effortless system retrieval from mid-stream.

.5m BoomVane™



.5m BoomVane™

Materials:

Frame, vanes, rudder & stabilizer wing: Marine grade aluminum

Float: GRP, foam-filled (EPS & PU), in padded PVC carrying bag

Connector plate, pins, bolts: all stainless steel

Shackles: Stainless steel

Mooring/tow line:

100m / 320ft of 10 mm dia Dyneema SK 75 double braid (break load >5000 kg),
stainless steel thimble, PU float and PVC line bag

Bridle line: Dyneema SK 75 dia 10 mm

Control line: 150m / 492ft 4mm dia float line on reel

Blocks: Ronstan industrial series

Control rudder return springs: Plastic coated GRP rods, aluminum holders

Draught: 0.5m / 21 inch

Overall dimensions & weight:

Wing unit: 1785 x 310 x 505 mm / 70 x 12 x 20 inch 35 kg / 77 lbs

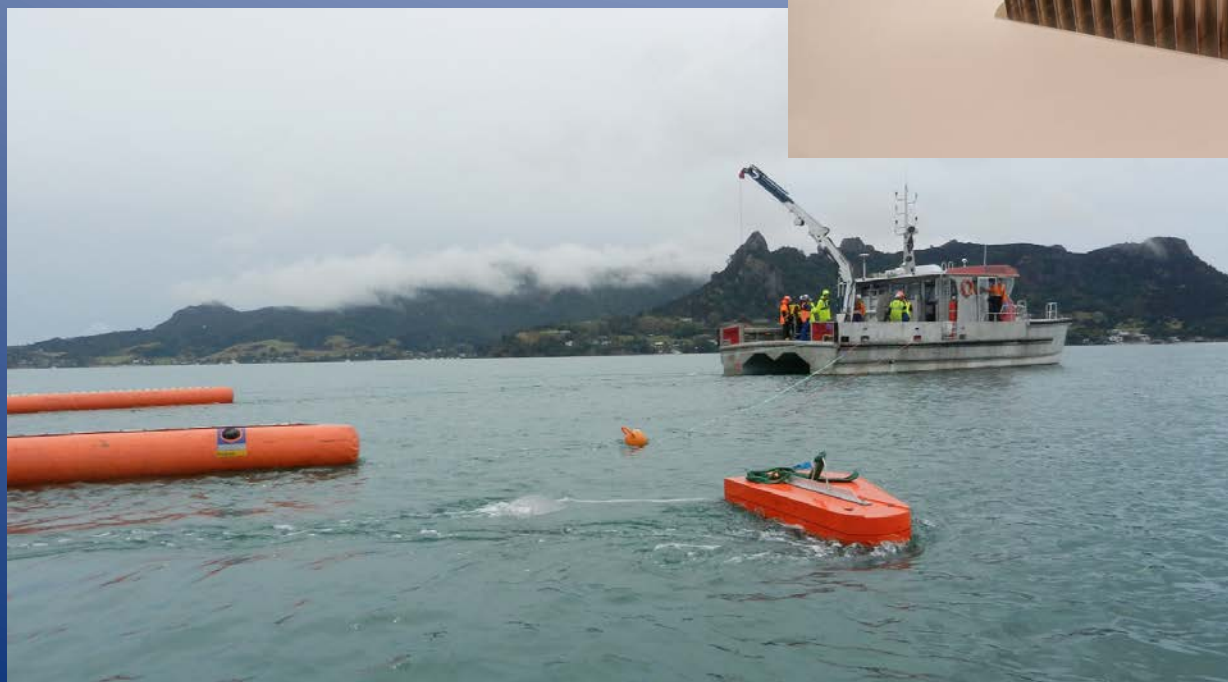
Float unit: 1400 x 205 x 800 mm / 55 x 8 x 32 inch 16 kg / 35 lbs

Performance:

Water speed range: 1-5 knots

Boom length: 75 – 90m / 250 – 300 ft shallow draught boom (not included)
(typical - varying with type/size of boom and site conditions)

1m BoomVane™



1m BoomVane™

Materials:

Frame, vanes, rudder & stabilizer wing: Marine grade aluminum

Float: GRP, foam-filled (EPS & PU), in padded PVC carrying bag

Connector plate, pins, bolts: all stainless steel

Shackles: Stainless steel

Mooring/tow line:

150m / 492ft of 12 mm dia Dyneema SK 75 double braid (break load >7000 kg),
stainless steel thimble, PU float and PVC line bag

Bridle line: Dyneema SK 75 dia 10 mm

Control line: 150m / 492ft 4mm dia float line on reel

Blocks: Ronstan industrial series

Control rudder return springs: Plastic coated GRP rods, aluminum holders

Draught: 1.1m / 43 inch

Overall dimensions & weight:

Wing unit: 1785 x 310 x 1012 mm / 70 x 12 x 40 inch 46 kg / 101 lbs

Float unit: 1400 x 205 x 800 mm / 55 x 8 x 32 inch 16 kg / 35 lbs

Performance: Water speed range: 1-5 knots

Boom length: 100-150 meter (300-500 feet) shallow draught boom (not included)
(typical - varying with type/size of boom and site conditions)

1m BoomVane™



1.5m BoomVane™



1.5m BoomVane™

Materials:

Frame, vanes, rudder & stabilizer wing: Marine grade aluminum

Float: GRP, foam-filled (EPS & PU), in padded PVC carrying bag

Connector plate, pins, bolts: Stainless steel

Shackles: Stainless steel

Mooring/tow line:

Dyneema SK 75 double braid stainless steel thimble, PU float and PVC line bag

Blocks: Ronstan industrial series

Draught: 1.6m / 62 inch

Overall dimensions & weight:

Wing unit: 2500 x 410 x 1850 mm / 98 x 16 x 72 inch 250 kg / 550 lbs

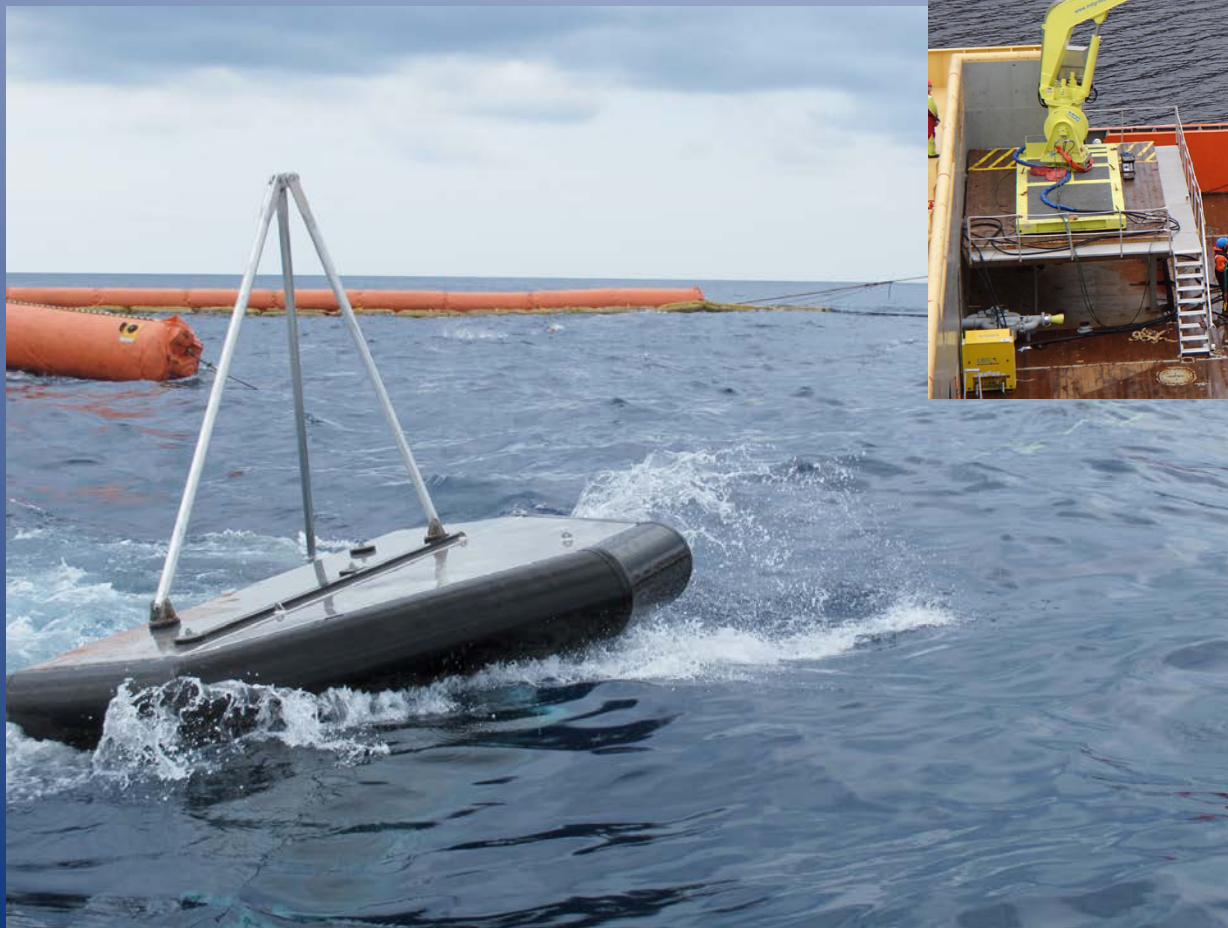
Float unit: 2350 x 205 x 1300 mm / 92 x 8 x 51 inch 30 kg / 66 lbs

Performance: Water speed range: 1-5 knots

Boom length: 100-150 meter (300-500 feet) Near Shore or Coastal boom (not included)
(typical - varying with type/size of boom and site conditions)

Also suitable for offshore sweeping systems.

2m BoomVane™



2m BoomVane™

Specifications;

Frame, vanes, rudder & stabilizer wing: Marine grade aluminum

Arm/cascade hinges: Stainless steel A4 (Nord-lock)

Tow Bridle: 150 m Ø 18 mm 26,5 ton SK78 mooring/tow lines 18 mm Dyneema SK78 single braid, soft eye, PU float and PVC line bag

Shackles, bolts, lift bridle: A4 stainless steel

Float fender: Neoprene Trellex 60

Float filling: Polystyrene

Draft: 2100 mm / 83 inches

Weight: 550 kg / 1,212 lbs

Shipping dimensions on a heavy duty pallet: 3.9 x 2.2 x 1.7m 900kg

BoomVane™ Spray Dispersant System



BoomVane™ Spray Dispersant System

The BoomVane Spray has been developed with funding from NOFO (Norwegian Clean Seas Association for Operating Companies). The objective of this joint effort was to come up with a spray system that would apply dispersant from small coastal vessels. The resulting system has been extensively tested and offers a number of advantages over conventional ship mounted units;

- Wider spray width than conventional arms (20m)
- Dispersant is applied at correct droplet size and height for effective dispersion of the oil
- Dispersant is applied well away from the towing vessel and personnel
- Dispersant can be applied close into shore without putting vessel at risk (ideal for deep and high energy shorelines)
- High application accuracy

Dispersant application can be performed at 4 to 5 knots and in wind speeds up to Beaufort 5.

BoomVane™ Spray Dispersant System

BoomVane;

Vanes, rudder & stabilizer wing, frame :	Marine grade aluminum
Float:	GRP, foam-filled (EPS & PU), in padded PVC carrying bag
Connector plate, pins, bolts:	Stainless steel
Shackles:	Stainless steel
Mooring/tow line:	150m / 492ft of 12 mm dia Dyneema SK 75 double braid (break load >7000 kg), stainless steel thimble, PU float and PVC line bag
Bridle line:	Dyneema SK 75 dia 10 mm
Control line:	150m / 492ft 4mm dia float line on reel
Blocks:	Ronstan industrial series
Control rudder return springs:	Plastic coated GRP rods, aluminum holders
Draught:	1.1m / 43 inch
Tow Tower:	With adjustable stays and tension line winch, topline bollard and base plate kit for boat installation, rigging.

BoomVane™ Spray Dispersant System

Pump set;

Engine:	Yanmar L70 Diesel engine with electric start and hand start. Spark arrester
Pump:	Self-Priming side channel pump. 100 Litres per minute @ 3 bar
Pipework:	Stainless steel
Frame:	Stainless steel with a set of removable wheels and axle
Flow Meter:	1 x Outlet flow meter
Valves (Manual):	1 x Flow control valve
Hose Line:	25m x nozzle hose line with 13 nozzles and ss Wichard hooks
Nozzles:	13 with ss check valves.
Valves:	1 x ss drain valve assembly
Hoses:	1 x 5m delivery hose 1 x 5m dispersant suction hose with foot valve and strainer



BoomVane™ Spray Dispersant System

