DESMI Aware Series

THE REMOTE CONTROLLED ENVIRONMENTALLY FRIENDLY TRASH REMOVER
DESMI Aware Series - The remote controlled environmentally friendly trash remover

The DESMI Aware is a unique series that includes remote controlled mobile units, designed with entrance opening placed at the water level to allow free flow of water surface trash to enter waste collection bag.

This series offers a floating platform mounted with four pontoons giving a high buoyancy. The series prioritizes electrically driven Propulsion motors to ensure negligible CO2 emissions and the safety of our environment.

The position of the two electrically operated propulsion motors allows the unit to turn on its axis. This feature can also allow the use of Aware Series in narrow streams.

The entrance opening of the unit has 40 cm height and 175 cm width and creates an oval & wide opening. It’s depth of 60 cm allows to stock the collection bag (up to 50 meters) as standby.

The collection bag has a mesh size of 5 x 5 mm, which ensures that the smaller trash particles are also contained.

Two aluminum guiding wings are added to the entrance of the unit, these guiding wings allow the floating trash to seamlessly enter the collection bag. In combination with the guiding wings, the entrance opening has a width of 370 cm.

When the collection bag is filled with desired amount of floating trash, the open end of the bag can be closed with a use of standard cable-tie. The closed bag can be disengaged from the stocked bag with the help of cutter or a pair of scissors. Herewith, the next collection bag of desired size can be engaged for further collection when closed at the end with a new cable-tie.

The aware series allows two ways of operations; Unmanned remote controlled with the remote operating range up to 200 meters in open waters, or as a manned platform.

Advantages of the A-R1100:

• Easy to assemble
• Require less storage space
• Easy to operate
• Easy to launch
• High collection capacity

Basic physical properties of the A-R1100:

• Draft: 0.25 m
• Height: 0.7 m (excl electric outboard engines)
• Width: 3.3 m
• Width with open wings: 3.7 m
• Length: 3.6 m
• Length with open wings: 4.15 m
• Dimension of garbage entrance: 1.75 x 0.4 m
• Weight: 360 kg

It is recommended to use 2 x 650 W propulsion motors having a pulling force of approx. 2 x 250 N.