

Am Jägersberg 5-7
24161 Altenholz
Germany

phone: + 49 - 4 31 - 3 69 60 - 0
fax: + 49 - 4 31 - 3 69 60 21
mail: sales@hydrobios.de
web: www.hydrobios.de

‘MANTA’ MICROPLASTIC NET

CATALOGUE NO: 438 217



Edition 08/20

© Copyright 2020 **HYDRO-BIOS** Apparatebau GmbH

All rights reserved. Reproduction in every form – even by way of abstracts – with explicit permission by **HYDRO-BIOS** Apparatebau GmbH only.

GENERAL DESCRIPTION

Plastic debris in the environment - a problem which is drawing more and more attention. One reason for this is that plastic will never really biologically degrade and disappear from our environment but become so called microplastic. Microplastics are small particles ranging from 1µm to 5mm.

Tons of those particles get into our natural waters and end up in our oceans. Up to now it is not yet fully understood what physical and chemical impacts microplastic is having on any kind of living organism.

The establishment of a reliable, verified and standardized method to quantify the amount of microplastic particles in the environment plays a key role to assess the consequences of plastic debris in aquatic ecosystems.

- Large variety of mesh sizes
- Light weight but robust
- Easy to handle

SCOPE OF DELIVERY

1. metal frame
with mouth opening 30 x 15 cm
2. Nylon webbing with zip fastener
3. Net Bag of synthetic material with zip fastener
front opening 30 x 15 cm
back opening Ø 11 cm
length 200 cm
4. Fixing ring for Soft Net Bucket
5. Soft Net Bucket
with side window, covered with sieve gauze
6. two lifting bodies ('wings')
7. Allen key 4 mm
8. Spanner 8 mm
9. 12 bolts with shims and nuts
10. one bridle with thimble and two shackles
11. one pin incl. nuts for centred mounting of the optional **Flow Meter** (438 110)
12. Spanner 5,5 mm

ASSEMBLY INSTRUCTION

The **MICROPLASTIC NET** is delivered pre-assembled. Thus there is no need for extensive preparations to have it ready for operation.

1. Mount the two lifting bodies ('wings') onto the net frame by using the provided bolts
Make sure the rounded edge of the wings' mounting plate is facing the front opening of the net frame.
2. Zip in the net bag
3. Fit the fixing ring for the soft net bucket to the end of the net bag
4. Mount the soft net bucket to the fixing ring
5. Fix the bridle with the shackles in one of the five holes on each side of the metal frame depending on the angle of the dragline.
6. Optionally mount the pin for the flow meter in the centre whole of the net frame bay using the provided bolt

Now the '**MANTA**' **MICROPLASTIC NET** is ready for deployment.



OPERATION

The '**MANTA**' **MICROPLASTIC NET** is made for operation at inland waters, coastal areas and the open sea under calm conditions.

The maximum speed is rated to 3 knots.

As it should be done with all offshore equipment the user should **check all screwing and all hose clamps regularly**.