



Sediment Trap Station Ø80 mm tubes



General:

The construction of the sediment trap array ensures a permanently vertical position of the sampling tubes during deployment. The steering fin (*optional*) and the pivot joints force the array to be held at right angle to the current.

Options:

The system is fully configurable. All parts are detachable and the main rack can be attached with 1, 2, 3 or 4 tubes to suit your needs for analysis. The Sediment Trap consists of detachable cylindrical sampling tubes mounted with lead weights at the bottom. The gimballed tube holders and fin are made of AISI 316 stainless steel. The tubes are made of transparent PVC and have an aspect ratio above 6.

Available models with Ø80 mm tubes.

28.050: 1 Tube, 1 steering fin.

28.075: 2 Tubes.

28.100: 2 Tubes, 1 steering fin, 1 balance arm.

28.150: 3 Tubes, 1 steering fin.

28.200: 4 Tubes.

Click here for the : [Sediment trap station Ø110/104 mm.](#)

All sizes of tubes can be manufactured upon request.

The Sediment Trap has been developed in cooperation with associate professor Michael Olesen, from the Marine Biological Laboratory, University of Copenhagen, Denmark.

28.103 Main Rack:

The main rack for the 28.xxx series sediment sampler, is made from AISI 316 stainless steel, the rack is delivered with 1 pc 28.102 zinc anode Ø30 x 15 mm 0,55 kg total.

28.101 Sample tube:

The sample tube 28.101 is used for the KC sediment trap series 28.xxx Ø80 only, the tube is Ø80/Ø72, length 450 mm with a lead weight in the bottom 1,5 kg total.

28.104 Arm for Sediment station:

The 28.104 arm for the sediment trap station is made from AISI 316 stainless steel and Polyamide PA 6.6, the arm is connected to the main rack with a pivot joint fastening ring.

28.107 Balance arm:

Balance arm for the Ø80 mm sediment trap series: This arm can only be used for the 28.100 model. The arm is made from AISI 316 stainless steel, with a lead weight at the end for creating balance.

Accessories:

The picture to the right shows the various type of minor accessories that can be bought for spare parts for the sediment system, 28.106 holder for the arm system is made of polymaid PA 6.6, 28.101 Zinc anode, used for protection against corrosion of the system when deployed in salt water, 28.108 American wing nut, used for fastening the sediment tube to the arm, 28.109 Umbraco screw M6 x 12, 5 pcs AISI 316 stainless steel, used for mounting the arms and fins to the main rack.

Deployment methods:

Seen to the right is the 2 most common options of deployment for the sediment trap station system, the schematics are for your general information. KC-Denmark A/S cannot estimate any details for buoys, anchors etc., as local conditions, current and depth range, etc., are to be considered and tested in practice.

Ø80 / Ø72 mm	O.D./I.D.	Length	Weight	Ordering No.
Sediment trap, 1-tube, inclusive steering fin. Sample: 1,9 litres	Ø80/Ø72 mm	450 mm	4,5 kg	28.050
Sediment trap, 2-tubes, exclusive steering fin and balance arm, Sample 3,8 litres	Ø80/Ø72 mm	450 mm	4,8 kg	28.075
Sediment trap, 2-tubes, inclusive steering fin and balance arm, Sample 3,8 litres	Ø80/Ø72 mm	450 mm	6,6 kg	28.100
Sediment trap, 3-tubes, inclusive steering fin, Sample 5,7 litres	Ø80/Ø72 mm	450 mm	8,6 kg	28.150
Sediment trap, 4-tubes, Sample 7,6 litres	Ø80/Ø72 mm	450 mm	8,8 kg	28.200
Accessories and spare parts				
Sample Tube	Ø80/Ø72 mm	450 mm	1,5 kg	28.101
Zinc anode	Ø50 x 10 mm			28.102
Main rack			0,75 kg	28.103
Arm with pivot joint and fastening ring for the tube			0,6 kg	28.104
Steering fin for 28.075, 28.100 and 28.150			1,9 kg	28.105

Holder for sediment tubes, Polyamid PA 6.6				28.106
Balance arm for 28.100 only				28.107
American wing nut for fastening the sediment tube				28.108
Unbraco screws, M6 x 12, AISI 316 stainless steel, 5 pcs.				28.109
Ø110 / Ø104 mm	O.D./I.D.	Length	Weight	Ordering No.
Sediment trap, 1-tube, inclusive steering fin, Sample: 8,5 litres	Ø110/Ø104 mm	700 mm	6,7 kg	28.290
Sediment trap, 2-tubes, exclusive steering fins, Sample: 17,0 litres	Ø110/Ø104 mm	700 mm	8,7 kg	28.295
Sediment trap, 2 tubes, inclusive steering fin and balance arm. Sample: 17 litres	Ø110/Ø104 mm	700 mm	12,6 kg	28.300
Sediment trap, 3-tubes, inclusive steering fin, Sample: 25,5 litre	Ø110/Ø104 mm	700 mm	13,7 kg	28.350
Sediment trap, 4-tubes, Sample: 34,0 litres	Ø110/Ø104 mm	700 mm	15,7 kg	28.400
Accessories:				
Sample tube	Ø110/Ø104 mm	700 mm	2,1 kg	28.301
Spare Parts:				
Zinc anode	Ø50 x 10 mm			28.102

Source: KC Denmark A/S

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