

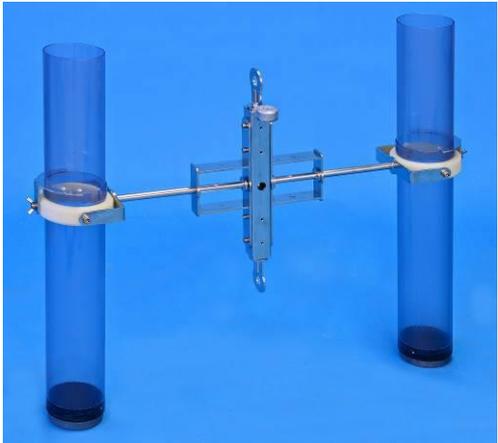


Sediment trap, Ø110/104 mm
28.300 series

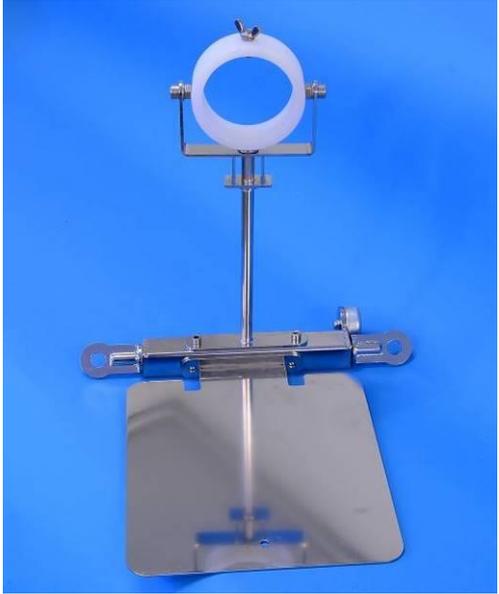
Manual

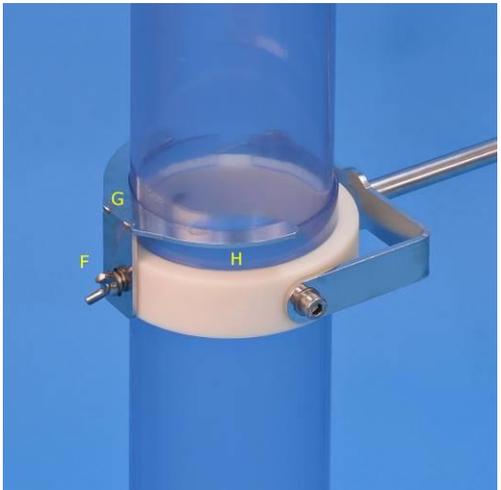
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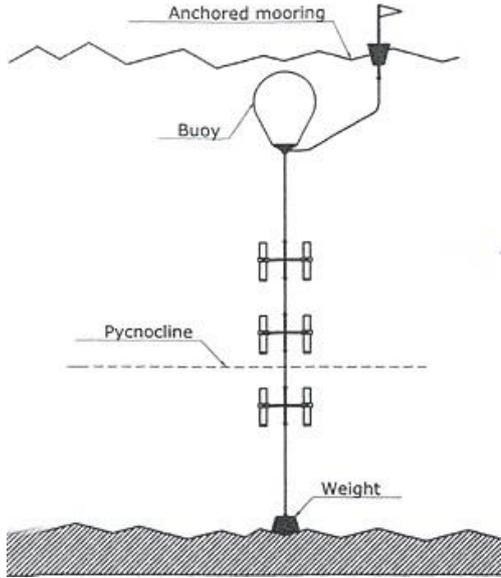
Research Equipment
Limnology • Oceanography • Hydrobiology

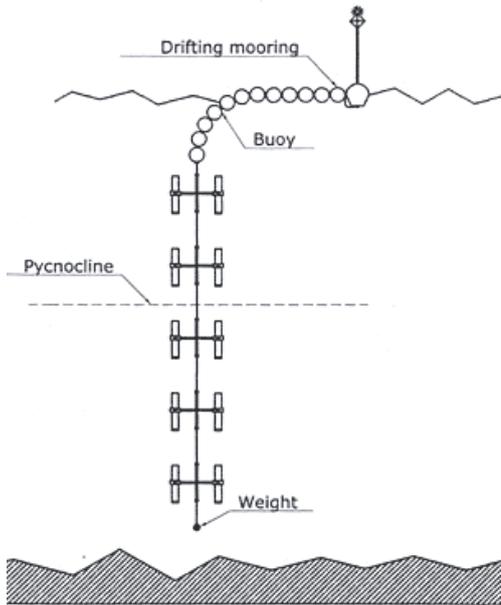
	<p align="center">Manual for Ø110 mm sediment traps</p>	<p align="center">Series 28.XXX</p>
	<p> Caution Do not use any kind of alcohol for cleaning the tubes, a mild soap is recommended.</p> <p>KC Denmark A/S is not, and cannot be held, responsible for any damage(s) made to equipment or to operators who ignore safety precautions or because of misuse or wrong operation.</p>	
	<p align="center">Preparing the sediment trap</p>	
<p>1</p>	<p>The sediment trap can be configured in various ways, please see below for the requirements and the corresponding order numbers:</p>	
<p>2</p>	<ul style="list-style-type: none"> • 1 main rack 28.303 • 1 arm with pivot 28.304 • 1 sediment trap 28.301 • 1 steering fin, large 28.305 • 8 unbraco screws, M6 x 12, 28.109 	
<p>3</p>	<ul style="list-style-type: none"> • 1 main rack 28.303 • 2 arms with pivot 28.304 • 2 sediment traps 28.301 • 8 unbraco screws, M6 x 12, 28.109 	

<p>4</p>	<ul style="list-style-type: none"> • 1 main rack 28.303 • 2 arms with pivot 28.304 • 2 sediment traps 28.301 • 1 steering fin, small 28.305 A • 1 balance arm 28.307 • 16 unbraco screws, M6 x 12, 28.109 	
<p>5</p>	<ul style="list-style-type: none"> • 1 main rack 28.303 • 3 arms with pivot 28.304 • 3 sediment traps 28.301 • 1 steering fin 28.301 • 1 steering fin 28.305 • 16 unbraco screws, M6 x 12, 28.109 	
<p>6</p>	<ul style="list-style-type: none"> • 1 main rack 28.303 • 4 arms with pivot 28.304 • 4 sediment traps, 28.301 • 16 unbraco screws, M6 x 12, 28.109 	

7	<p>Mount all accessories to the main rack; it is highly recommended to locate the zinc anode at top. The zinc anode will protect the traps from corrosion.</p>	
8	<p>Attach the requested accessories by means of the 6 x 12 mm bolts; tighten the bolts "B, C, D and E" firmly.</p> <p>It is highly recommended that you add some anti-seize compound like Never-Seez, copper paste or a similar product to the bolts thread. It will prevent the bolts from being stuck and you can easily remove these when changing the configuration.</p> <p>"A" shows the zinc anode. The zinc anode will corrode during deployment, and you must check that the zinc anode is intact and has a reasonable size. Furthermore, you may consider if the material left will be adequate for the time of deployment.</p>	
9	<p>The pivot arm and the steering fin are attached on the main rack. You must choose the correct steering fin (2 sizes available) and the corresponding counterpart to keep the balance of the trap. The photo shows a smaller 80 mm version but basic mounting is equal.</p>	

<p>10</p>	<p>Before sliding in the tubes, unscrew the American wing nut, "F", so the bracket "G" becomes loose.</p>	
<p>11</p>	<p>While inserting the tube, hold the bracket "G" out of the tube, then, push back "G" so it resides on the collar "H" of the tube. Fasten the American wing nut "F" to secure the sample tube.</p>	
<p>12</p>	<p>Slide all tubes into the nylon holders and check if the pivots are operating freely. Check that all bolts and the American wing nuts "F" are fastened properly.</p>	

13	<p>Depending of your project you may apply some preservatives to each tube. Use a syringe with a silicone tube or similar.</p> <p>Before deployment, you may slowly fill each tube with water so the preservatives remain undisturbed at the bottom of the tube.</p>	
	<p>Various ways of deployment</p>	
14	<p>You can deploy a single sediment trap or you may connect more traps in cascade to have samples from various depths.</p> <p>For long terms sampling we will recommend one of the below-mentioned options:</p>	
15	<p>For a well-defined depth, you can attach an appropriate weight at the end of the line, and the buoy will keep the deployment line in vertical position.</p>	 <p>The diagram illustrates a vertical deployment system. At the top, a line is attached to an 'Anchored mooring' on the water surface. The line passes through a 'Buoy' and extends vertically down to a 'Weight' resting on the seabed. A dashed horizontal line represents a 'Pycnocline' in the water column. The seabed is depicted with a hatched pattern.</p>

16	For larger depth, we will recommend this option.	 <p>The diagram illustrates a drifting mooring system. At the surface, a buoy is attached to a drifting mooring. A vertical line of traps is suspended from the buoy, extending down to a weight at the bottom. A pycnocline is shown as a dashed horizontal line. The seabed is depicted at the bottom of the diagram.</p>
Emptying the traps		
17	<p>The sediment sample can now be washed out with fresh water or distilled liquids.</p> <p> Caution Do not use any kind of alcohol for cleaning the tubes; a mild soap is recommended.</p>	
Maintenance		
18	<p> Caution Do not use any kind of alcohol for cleaning the tubes, a mild soap is recommended.</p> <p>Before storing the sediment trap, it is important to clean all parts with fresh water, especially if the trap has been used in salt water. Remove the sample tube from its holder. Do not expose the sample tube to direct sunlight for a long period.</p>	

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