



# Kajak Sediment Core Sampler Model 13.000

## Manual

**KC** Denmark A/S


Research Equipment  
Limnology • Oceanography • Hydrobiology

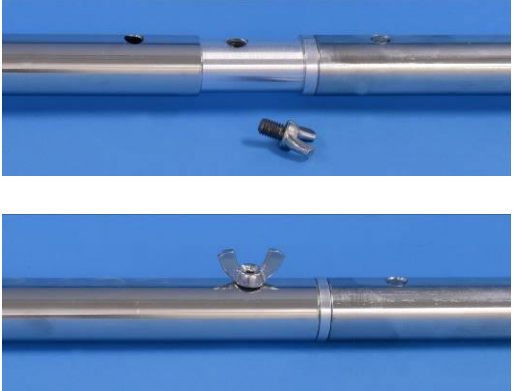

# Kajak Sediment Core Sampler





Caution


**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.**

Item	Description	
1	<p>The black POM housing with the silicone contra flap supports 50 and 100 cm threaded acrylic tubes.</p> <p>During the sampling, the excess water in the tube expels via the contra flap. The water pressure will close the flap and upon raising the sampler, the vacuum at top of the sample tube prevents the sample from exiting. Tubes with threaded ends support the stainless steel carver 13.004 for protecting the tube.</p> <p>Page 4-6 shows available accessories and ordering no.</p>	

Preparation before use		
2	<p>Assembling the pole:</p> <p>Push the units together and align the holes. Insert the wingnut and fasten it.</p> <p>As option, the extension pole 13.003 allows a maximum length of 6 m; however, it may be hard to handle in small boats.</p>	
3	<p>Ensure that the inner of the core head is free of sediment or dirt.</p> <p>Screw the sample tube into the Kajak's head.</p>	

4	<p>Standard delivery comes with a 50 cm sample tube 13.001 A. The lower end is sharpened for an easier insert into the sediment.</p> <p>The tube is available with a length of 100 cm, (13.011 A).</p>	
5	<p>For hard sediment you can use either 13.002 A (50 cm) or 13.012 A (100 cm). The lower end of both tubes has a thread supporting the stainless steel carver 13.004, which will protect the acrylic tube.</p>	

<b>Sample taking</b>		
6	<p>When working on the unit in small boats or areas, which are difficult to access or hazardous, ensure to take adequate safety precautions for the operator and others in compliance with the provisions of law on health and safety at work.</p> <p>Taking a good, well-defined sample demands a half-hard sediment.</p>	


7	<p>Force down the tube into the sediment; if possible so deep, that you will get some hard sediment acting like a bung at the lower end of the tube. A very soft or muddy sample may escape, as the limited vacuum cannot hold such a sample. Photo © Gundlach.</p>	
8	<p>Unscrew the sample tube and empty it by means of the piston rod 13.003/13.013. The fraction tray 13.006 is useable for slicing half-hard sediment.</p>	
9	<p>The sample can be stored for later analysis; secure the tube with rubber bung 13.005 or plastic cap DBD-77.</p>	

### Sample Tubes

13.001 A	<p><b>Sample tube</b></p> <ul style="list-style-type: none"> <li>• <b>Length 50 cm</b></li> <li>• <b>Thread/sharpened</b></li> <li>• O.D./I.D. Ø60/52 mm</li> <li>• Transparent acrylic</li> <li>• Weight: 0,5 kg</li> </ul>		
13.011 A	<p><b>Sample tube</b></p> <ul style="list-style-type: none"> <li>• <b>Length 100 cm</b></li> <li>• <b>Thread/sharpened</b></li> <li>• O.D./I.D. Ø60/52 mm</li> <li>• Transparent acrylic</li> <li>• Weight: 0,9 kg</li> </ul>		

13.002 A	<p><b>Sample tube</b></p> <ul style="list-style-type: none"> <li>• <b>Length 50 cm</b></li> <li>• <b>Thread/thread</b>, demands carver 13.004</li> <li>• O.D./I.D. Ø60/52 mm</li> <li>• Transparent acrylic</li> <li>• Weight: 0,5 kg</li> </ul>		
13.012 A	<p><b>Sample tube</b></p> <ul style="list-style-type: none"> <li>• <b>Length 100 cm</b></li> <li>• <b>Thread/thread</b>, demands carver 13.004</li> <li>• O.D./I.D. Ø60/52 mm.</li> <li>• Transparent acrylic</li> <li>• Weight: 0,9 kg</li> </ul>		

### Accessories

13.003	<p><b>Adjustable piston rod</b></p> <ul style="list-style-type: none"> <li>• For acrylic tubes, O.D./I.D. Ø60/Ø52 mm</li> <li>• Length <b>65 cm</b></li> <li>• With silicone packing</li> <li>• AISI 316 stainless steel</li> <li>• Weight: 0,5 kg</li> </ul>		
13.013	<p><b>Adjustable piston rod</b></p> <ul style="list-style-type: none"> <li>• For acrylic tubes, O.D./I.D. Ø60/Ø52 mm</li> <li>• Length <b>115 cm</b></li> <li>• With silicone packing</li> <li>• AISI 316 stainless steel</li> <li>• Weight: 1,0 kg</li> </ul>		
13.004	<p><b>Carver</b></p> <ul style="list-style-type: none"> <li>• AISI 316 stainless steel</li> <li>• For Ø60/Ø52 mm acrylic tubes, 13.002 A or 13.012 A</li> <li>• Inner diameter 52 mm</li> <li>• Weight: 0,2 kg</li> </ul>		

13.005	<p><b>Rubber bung</b></p> <ul style="list-style-type: none"> <li>• For Ø60/Ø52 mm acrylic tubes</li> <li>• Weight: 0,1 kg</li> </ul>		
DBD-77	<p><b>Cap for securing the sample in the tube</b></p> <ul style="list-style-type: none"> <li>• Soft plastic</li> <li>• Fits for the inside of the 60/52 mm tube.</li> </ul>		
13.006	<p><b>Fraction tray</b></p> <ul style="list-style-type: none"> <li>• For ejected sample</li> <li>• For acrylic tubes O.D./I.D. Ø60/Ø52 mm</li> <li>• Weight: 0,4 kg</li> </ul>		
13.303	<p><b>Extension shaft</b></p> <ul style="list-style-type: none"> <li>• Length 2 m</li> <li>• For KC sediment corer sampler, model 13.000</li> <li>• Requires the standard shafts, so the total length is 6 m</li> <li>• AISI 316 stainless steel</li> <li>• 1 tube, diameter Ø28 mm</li> <li>• Weight: 1,3 kg</li> </ul>		

## Storing and Maintenance

Before storing, rinse the sampler thoroughly using fresh water. Store in open position, so the inner parts will become dry.



### Caution

Do not use alcohol for cleaning acrylic parts.

Items, like PP/PVC/acrylic tubes, rubber seals, motor houses with or without Fluorinert, etc., and a long exposure to direct sunlight or lack of clean up for salt water might affect the durability and stability of the products and will remain uncovered by the warranty.

Replace worn component with original spare parts.

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