

Hand operated Haps Model 50.820

Manual



Research Equipment Limnology • Oceanography • Hydrobiology

	Manual for Hand operated Haps	Model no. 50.820
	KC-Denmark 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.	
	Preparing the Haps	
1	 Place the Haps in horizontal position Lift the handle "A" Push the sample tube into the groove "B" Release the handle "A", so "C" will secure the tube 	A A
2	Assemble the shaftsAlign the holes	
3	Screw in the American wing nut and tighten firmly	

4	Turn the shovel into open position	
5	Secure the steel ring to the hook at the upper end of the shaft	
6	Now the non-return flap, on top of the sample tube, remains open to allow a free flow during the deployment	
7	 Lower the Haps to the water and force the sample tube into the sediment During sample taking you must avoid huge sideways movement of the sampler 	
8	 Lift off the ring from the hook and loosen the line The non-return flap will close top of the sample tube Upon raising the sampler, the shovel will close at bottom of the sample tube 	

Release the handle "A" (item 1) to remove the sample tube If you hold the Haps in vertical position during the removal of the tube, it is recommended, that another person hold the Haps 9 When you remove the sample tube, the lower part of the Haps will "collapse", that's the reason, that 2 persons are recommended for the operation You may use a red cap for the tube, if it is stored for later analysis **Maintenance** Before storing you may rinse all parts with fresh water Leave the non-return flap in open position so the seal will dry 10 Do not use alcohol for cleaning acrylic tubes How to adjust the Haps Insert the sample tube Loosen all bolts 1-4 at both sides Insert a plate "5" with a thickness of 1,5 - 2 mm 11 Hold the sampler in vertical position Ensure that the sample tube hits the vertical locking plate between the two bolts "3" Now tighten all bolts



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