



Niskin Rosette Rack



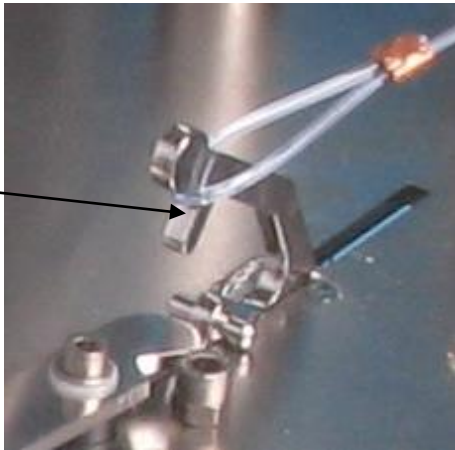

Manual

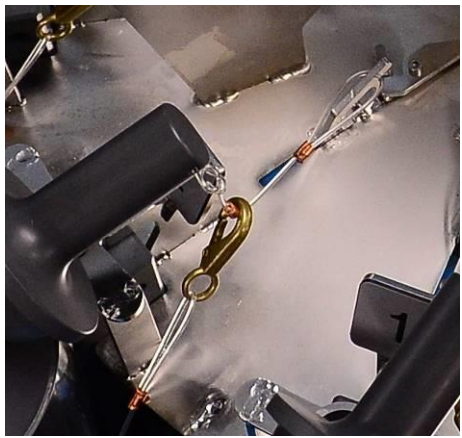

KC Denmark

Research Equipment

Limnology • Oceanography • Hydrobiology

	Manual for Niskin Rosette Rack	Model 60.070
	<div data-bbox="221 237 339 367" data-label="Image"> </div> <p>Caution When the bottles have been loaded, we recommend releasing below the water surface to avoid damage to the sampler. Above the water surface, hold the lids to achieve a "soft" release.</p> <p>The rack is manufactured from AISI 316 stainless steel and has a capacity of 24 Niskin water samplers.</p> <p>The release system is motor driven, (12 or 24 V DC) and it is released by a programmable time lapsed trigger (60.010). Triggering from an appropriate CTD is also possible.</p>	<div data-bbox="963 284 1461 808" data-label="Image"> </div>
	Preparation	
1	<p>Mount the bottles, one by one, starting from a random position on the rack.</p> <div data-bbox="221 1077 339 1207" data-label="Image"> </div> <p>Caution First, align the bottom tap to the bracket of the bottle.</p>	<div data-bbox="983 947 1442 1301" data-label="Image"> </div>
2	<p>While pressing down the black knob, gently push the upper end of the bottle towards the middle of the rack. When the bottle is in correct position, release the knob and ensure the water sampler is locked in position.</p> <div data-bbox="221 1673 339 1803" data-label="Image"> </div> <p>Caution After completing step 1 and 2, make sure the bottle is secured at both ends, otherwise it might get lost during the deployment.</p>	<div data-bbox="983 1379 1442 1962" data-label="Image"> </div>

3	<p>Each Niskin bottle must be mounted and prepared, one by one.</p> <p>Push the release bracket towards the middle of the rack. Turn the small horizontal pawl to secure the bracket.</p>	
4	<p>While forcing the upper lid of the Niskin bottle towards the centre of the rack, attach the nylon cord on the <u>upper</u> side of the release bracket as shown.</p> <p> Caution Mounting the cord below the hook will prevent the release of the bottle.</p>	
5	<p>Put the release cord from the lower lid through the handle and attach the snap hook to the nylon cord from the upper lid, see next photo.</p>	

6	<p>The release cord from the lower lid is attached to the upper release wire.</p>	
	<h2>Maintenance</h2>	
6	<div data-bbox="220 723 339 857">  Caution </div> <p>IMPORTANT: After use or before storing:</p> <p>The rack: Wash all parts using fresh water.</p> <p>Niskin bottles: Wash the bottles and the rubber band inside the bottle; when the inside parts are all dry, you may close the lids by hand to achieve a soft release.</p> <p>The motor and battery cylinder: Do not expose to direct sunlight for a long time.</p>	

		Spare parts
68.001	1	PVC top or bottom part
68.002	1	Plastic air valve with seat and O-ring
68.003	1	Plastic valve for water outlet, with O-rings and stop ring
68.004	1	Latex rubber band with plastic assembly device and 2 strips
68.005	1	Nylon release line for rosette rack
68.006	1	Nylon release cord, Ø2 mm, for free hanging water sampler
68.007	1	PVC handle, only for 5-liters and larger models
68.008	1	O-ring for Niskin sampler. Required 2 pcs/each bottle

Rev.: October 11, 2021 - lkj



Research Equipment
Limnology • Oceanography • Hydrobiology

E-mail: kc@kc-denmark.dk website: <http://www.kc-denmark.dk/>
Holmbladsvej 17-19, DK 8600 Silkeborg, Denmark. Tel. +45 86 82 83 47. Fax +45 86 82 49 50
Bank: Sydbank. SWIFT: SYBKDK22 IBAN DK5070460000104832
VAT no. DK 29 61 96 62