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Peristaltic Pump – 10 channels

Manual



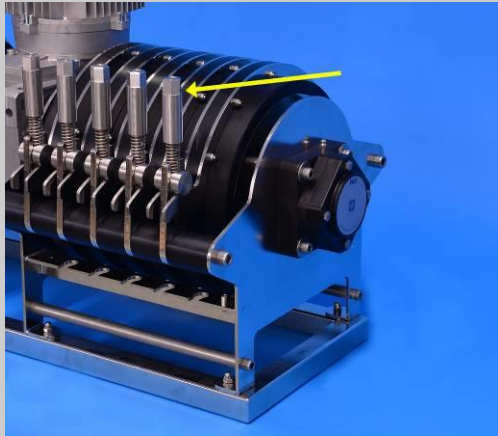
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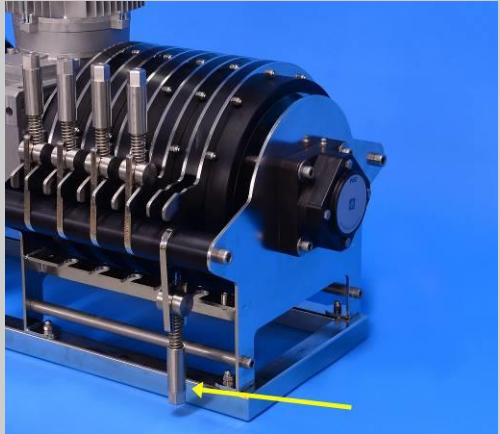
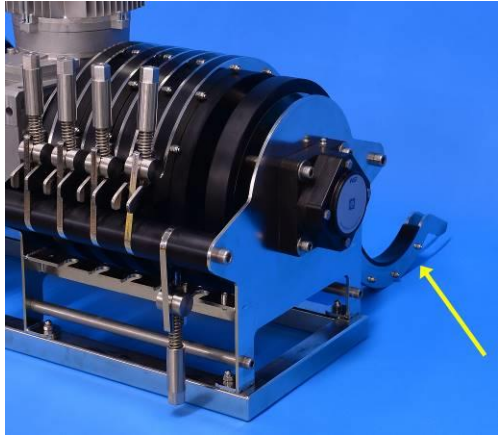
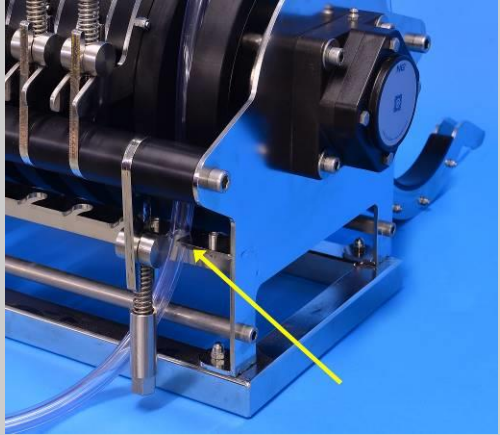
Research Equipment
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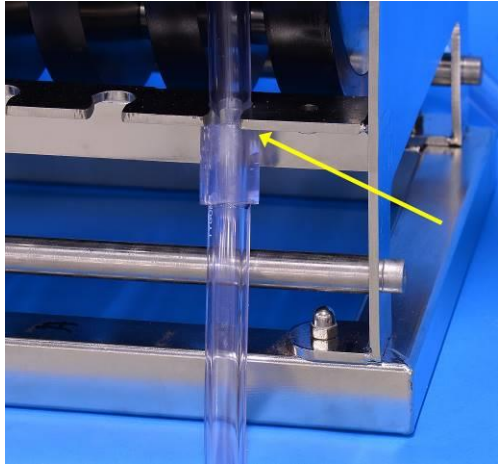
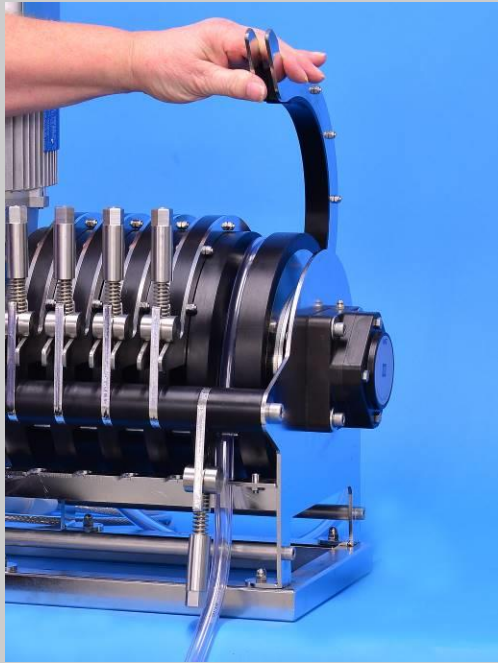
Peristaltic Pump – 10 Channels



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.

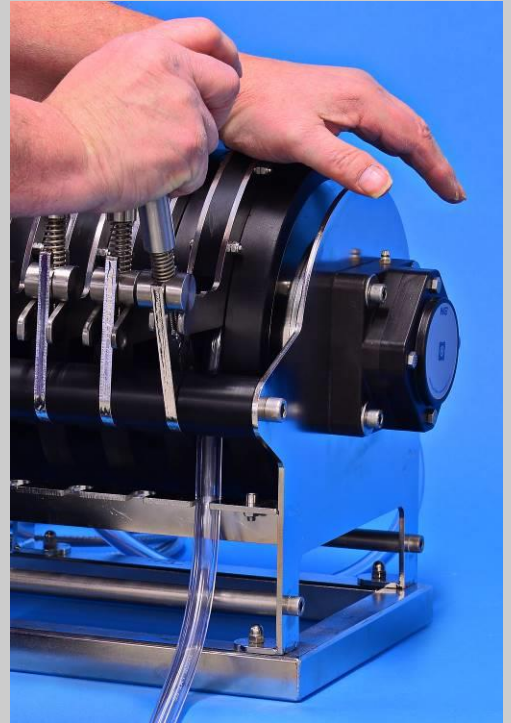
Item	Preparation	
1	<p> Caution</p> <p>An authorized technician must perform all power installation.</p> <p>Required power supply: 230 VAC/50 Hz, single phase Power consumption: 1500 W.</p> <p>Connections: Blue = N Brown = L Green/Yellow= Ground</p> <p>The pump is designed for a tube with inner diameter 9,5 mm and outer diameter of 15,9 mm, i.e., the Tygon LMT-55 (delivered with the pump).</p>	
2	<p>Pull the handle towards you, and the spring-loaded tube holder will release the tube holder.</p>	

3	The handle resides in vertical position.	 A photograph of a 10-channel peristaltic pump assembly. The handle is in a vertical position. A yellow arrow points to the handle's base.
4	Open the tube holder.	 A photograph of the same peristaltic pump assembly. The handle is tilted away from the vertical position. A yellow arrow points to the handle's base.
5	Before inserting the tube, you can smear it with silicone grease to reduce the friction towards the rolls in the mechanism. Insert the tube by squeezing it into the slitted hole.	 A close-up photograph of the peristaltic pump mechanism. A clear tube is being inserted into a slitted hole. A yellow arrow points to the tube's entry point.

6	<p>For some tubes, it may become necessary to fasten an extra sleeve with glue to prevent the tube from being drawn through the peristaltic mechanism.</p>	
7	<p>Insert the extra sleeve beneath the horizontal plate on the reverse side of the pump.</p>	
8	<p>Close the tube holder.</p>	

9

While forcing down the tube holder, push the locking knob so it will secure the tube holder.



Operating the pump

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1. Turn the "Speed Reg" anti-clockwise to "0".
2. Turn the main switch to "1".
3. Push the green "On" button and the pump will start very slowly. The frequency converter is preset to a min. frequency of 14 Hz to avoid overheating the motor, thus the speed cannot be lowered to a standstill.
4. Adjusting the "Speed Reg" clockwise will increase the speed.



Emergency Stop

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If any risk for injury to personnel, push the emergency knob and the pump will stop.

The yellow ring beneath the knob indicates that the emergency knob is ready for use.



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Once you activate the knob, the yellow ring is no longer visible.



Restarting the pump

13

1. Before restarting, you must ensure there will be no further risk.
2. Pull the emergency knob towards you, so the yellow ring becomes visible.
3. Push the green "On" button and the pump will start.

Readout of the speed	
14	<p>The display in the built-in frequency converter will show the motor's speed and you must open the box to read the value.</p> <p>Be careful when opening the box and do not touch any components as they bear the main supply of 230 VAC. Risk for severe injury to personnel.</p> <p>It is highly recommended that you make a chart with frequency readout vs. the figures on the speed regulation, so the box will remain closed during operation.</p> <p>IMPORTANT: Do not touch any buttons on the frequency converter, as you may change some values or parameters causing a malfunction or damage to the pump.</p>
	

Safety Regulations

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.

An expert maintenance technician fully familiar with the attendant hazards must only do all maintenance, inspection and repairs.

When working with the unit in 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.

Replace worn component with original spare parts.

Rev.: December 8, 2021 - lkj

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