




**Instructions for Use: Stainless Steel Spray Gun**

<b>Brand Name of Product</b>	Stainless Steel Spray Gun
<b>Generic Name of Product</b>	Spray Gun
<b>Product Code Number(s)</b>	64-20810-00
<b>Purpose of Product</b>	To aide in the cleaning of medical devices and accessories.
<b>Range of Applications for Product</b>	For medical devices, requiring thorough rinsing. Particularly useful for rinsing the internal channels. Made from Stainless Steel, the spray gun is resistant to cold demineralized water.
<b>Key Specifications of Product</b>	<ul style="list-style-type: none"> <li>• Stainless steel construction</li> <li>• Variable flow control</li> <li>• Easily swap tips for different applications</li> <li>• 316 /316L Stainless steel</li> <li>• Technical data             <ul style="list-style-type: none"> <li>○ Medium: Oil-free compressed air/cold de-ionized water</li> <li>○ Max pressure: 0.5 Mpa (=5 bar)                 <ul style="list-style-type: none"> <li>▪ 72.5 pound force per square inch.</li> </ul> </li> </ul> </li> </ul>

<b>Shipping &amp; Storage</b>	
<b>Shipping Conditions &amp; Requirements</b>	
<b>Storage Conditions</b>	
<b>Packaging Contents</b>	
<b>Shelf Life</b>	

<b>Instructions for Using Product</b>									
<b>Description of Use (s)</b>	For the rinsing of medical devices, particularly the internal channels.								
<b>Preparation for Use</b>	The cleaning gun unit must be installed by a trained specialist in accordance with the guidelines applicable depending on the intended use.								
<b>Diagrams (drawings, pictures)</b>	<p>The diagram shows the components of the spray gun: Nozzle, Nozzle Cap, Body of Gun, Piston, Piston Spring, End Cap, and Gun handle for quick-lock coupling - DN7.2.</p> <table border="1" style="width: 100%;"> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;">Spray Gun</td> <td style="text-align: center;">Gun Coupling</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;">Coupling Protection Cap</td> <td style="text-align: center;">Nozzles</td> </tr> </table>			Spray Gun	Gun Coupling			Coupling Protection Cap	Nozzles
Spray Gun	Gun Coupling								
Coupling Protection Cap	Nozzles								

		
	Hose End Cap	
<b>Steps for Use of Product</b>	<ol style="list-style-type: none"> <li>1. Prior to operation, the user must make sure that the attachments are correctly seated on the safety conell by firmly pushing them onto the spray gun rinse tip.</li> <li>2. When in operation, the Spray Gun must not be pointed at parts or orifices of the body because the compressed water or air jet may be harmful.</li> <li>3. Depending on the field of application, suitable safety measures must be taken to protect the user from splashes of contaminated water (protective goggles, protective mask, etc.).</li> <li>4. If required, the maximum water or air pressure value can be set by using the small threaded nut located behind the trigger handle.</li> <li>5. The flow is controlled by pulling the trigger - up to the maximum set point fixed by the threaded nut.</li> </ol>	
<b>Interpretation of Results</b>		
<b>Contraindications of Test Results</b>		
<b>Documentation</b>		
<b>Special Warnings and Cautions</b>	<ul style="list-style-type: none"> <li>• The enclosed silicone oil is not sterile.</li> <li>• Oils containing white oil or paraffin oil will damage the O-rings.</li> <li>• If tubing other than that supplied by Healthmark is used, facility should independently verify the safe and effective performance of that tubing. In such a case the liability for operation of the spray gun is assumed by the facility.</li> <li>• Warranty claims will only be honored for components purchased from Healthmark.</li> <li>• The Spray Gun is not a medical product and is therefore not to be used as part of medical treatments.</li> <li>• When in operation, the Spray Gun must not be pointed at parts or orifices of the body because the compressed water or air jet may be harmful.</li> <li>• Be sure to wear proper PPE according to facility and industry guidelines.</li> </ul>	
<b>Disposal</b>		

<b>Reprocessing Instructions</b>	
<b>Point of Use</b>	
<b>Preparation for Decontamination</b>	Check the completely cleaned and dried instrument parts for possible defects. Sterilization should be performed in a single transparent sterilization package
<b>Disassembly Instructions</b>	
<b>Cleaning – Manual</b>	
<b>Cleaning – Automated</b>	<ol style="list-style-type: none"> <li>1. Pre-Cleaning: Cleaning agents for spray gun parts should be neutral detergent: Clean the parts in the cleaning solution with a soft brush and by fully immersing them into the liquid in order to remove all visible contamination.</li> <li>2. Ultrasonic cleaning: This is imperative! Cleaning agents for instruments: Depending on the level of contamination 1-3%. Duration of ultrasonic cleaning: 15 minutes. Water temperature: room temperature, but not exceeding 40°C. The ultrasonic device must be suitable for the cleaning of medical instruments and should have a frequency of 35-40 kHz. The cleaning duration is to be extended when devices with a higher frequency are used! All instrument parts must be fully immersed in the cleaning solution and all hollow spaces must be filled. Ultrasonic baskets may not be overloaded as this could lead to acoustical shadows and the cleaning effect could not be guaranteed!</li> <li>3. Rinsing: Remove all chemical residues with water which is free from pathogenic germs.</li> <li>4. Drying: Dry all parts with a lint-free cloth and medical compressed air. Check the cleaning effect.</li> </ol>
<b>Disinfection</b>	
<b>Drying</b>	<ul style="list-style-type: none"> <li>• Dry all parts with a lint-free cloth and medical compressed air. Check cleaning and drying.</li> </ul>

<b>Maintenance, Inspection, and Testing</b>	<p><b><u>Assembly of Spray Gun</u></b></p> <ol style="list-style-type: none"> <li>1. Lubricate the front end of the piston and the small piston O-ring with pure silicone oil prior to the assembly. Only minimal lubrication! If you insert the dry piston the piston seal will be damaged!</li> <li>2. Then insert the piston into the gun bod, position the piston spring onto the piston and screw the end cap to the gun body.</li> <li>3. Screw the nozzle cap to the front of the gun body and screw the desired nozzle into the nozzle cap.</li> <li>4. Screw the gun handle into the gun body as far as it will go.</li> <li>5. Oil the plug nipple of the handle DN7.2 with pure silicone oil if it is difficult to insert it into or remove it from stainless steel coupling.</li> </ol> <p><b><u>Disassembling the cleaning gun:</u></b></p> <ol style="list-style-type: none"> <li>1. Disassemble the end cap from the body of the gun by turning it counterclockwise.</li> <li>2. Remove the piston spring.</li> <li>3. Pull trigger back and pull the piston out backwards.</li> <li>4. Loosen nozzles from nozzle cap by turning them counterclockwise.</li> <li>5. Disassemble the nozzle cap from the body of the gun by turning it counterclockwise.</li> <li>6. Disassemble the handle from the body of the gun by turning it counterclockwise.</li> <li>7. Disassemble the shower nozzle sieve from the shower nozzle body by turning it counterclockwise.</li> </ol> <p><b><u>Reassembly of the cleaning gun to the gun coupling:</u></b></p> <ol style="list-style-type: none"> <li>1. Introduce the gun handle with coupling plug DN7.2 straight into the gun coupling, and press it in until it audibly engages into position.</li> <li>2. Open the pressure supply line and check the whole system for leakage!</li> </ol> <p><b><u>Dismounting the cleaning gun from the gun coupling:</u></b></p> <ol style="list-style-type: none"> <li>1. If you want to dismount the cleaning gun from the coupling again for reprocessing, you must interrupt the pressure supply.</li> <li>2. Relieve the pressure in the hose through the gun by activating the trigger.</li> <li>3. Press the gun handle into the coupling and, at the same time, pull the sliding ring and top of coupling down coupling towards the hose and pull the gun out of the coupling.</li> <li>4. Put the sterile coupling protection cap over the gun coupling.</li> <li>5. The hose must be stored in such a way that it does not come into contact with liquids and cannot be contaminated.</li> <li>6. The coupling protection cap is cleaned and sterilized in the same way as the cleaning gun parts.</li> </ol> <p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1. It is recommended to decalcify the Spray Gun approximately every four weeks. The gun should be disassembled and the inner parts placed in a decalcifying agent. This is beneficial for the service life and reliability of the spray gun.</li> <li>2. If it is difficult to remove the cg piston from the gun body or insert it into the gun body then you must replace the small O-ring for the cg piston.</li> <li>3. Replacement parts and instructions for repair are available from Healthmark.</li> </ol>
<b>Reassembly Instructions</b>	
<b>Packaging</b>	
<b>Sterilization</b>	
<b>Storage</b>	
<b>Additional Information</b>	<ul style="list-style-type: none"> <li>• Caution: Oils containing white oil or paraffin oil will damage the O-rings.</li> </ul>

<b>Related Healthmark Products</b>	
<b>Other Product Support Documents</b>	
<b>Reference Documents</b>	ProSys™ Brochure, ProSys™ Price List
<b>Customer Service Contact</b>	Healthmark Industries Company, Inc 18600 Malyn Fraser, MI 48026 1-586-774-7600 <a href="mailto:healthmark@hmark.com">healthmark@hmark.com</a> <a href="http://hmark.com">hmark.com</a>