

Modell HighTech



Instructions for use for Stainless Steel Spray Gun Systems*

SRN (Single Registration Number) DE-MF-000007646 BASIS UDI-DI (according to Annex VI Part C) 42607448364208Q9

Please read these instructions for use carefully before first use. Please keep the operating instructions in a safe place - they are part of the product and must be available at all times.

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https://www.rfq.de/de/Produkte/Reinigungspistolen/Edelstahlpistolen

REF64-20820-00 - 64-20820-52Compressed air SSSGS-Set with quick-lock couplingREF64-20810-00 - 64-20810-02De-ionized water SSSGS-Set / Drinking water SSSGS-Set with quick-lock couplingREF64-20820-70 - 64-20820-90Compressed air SSSGS-Set with hose fittingREF64-20810-70 - 64-20810-90De-ionized water SSSGS-Set / Drinking water SSSGS-Set with hose fitting

1. Purpose of use for the cleaning gun

REF 64-20820-xx (xx stands for different hose lengths 00=1.0m, 01=1.5m, 02=2.0m etc.) Compressed air SSSGS-Set with quick-lock coupling or hose fitting For blow-cleaning of contaminated medical devices with medical compressed air with up to 0.5Mpa (= 5bar).

REF 64-20810-xx (xx stands for different hose lengths 00=1.0m, 01=1.5m, 02=2.0m etc.) **De-ionized water SSSGS-Set / Drinking water SSSGS-Set with quick-lock coupling or hose fitting** For rinsing contaminated medical devices with cold de-ionized / drinking water with up to 0.5Mpa (= 5bar).

* Stainless Steel Spray Gun System, hereinafter referred to as SSSGS

(The hyphens in the article numbers are inserted for better readability)



Rinse and flush all SSSGS-Set parts with cold water (drinking water quality) which is free from pathogenic germs. Check the cleaning result!

4.4 Subsequently machine cleaning of the individual parts with: Cleaning and disinfection device type Miele G7835 CD – Program Des-Var-TD. Place the disassembled SSSGS-Set parts in the respective basket of the cleaning and disinfection device and connect all accessible hollow spaces to the hollow space flushing system of the cleaning and disinfection device. Close the door, select the appropriate program and start the cleaning and disinfection device. (Recommendation: Sterilization tray - Article number 64-20850-59).

Pre-rinse	with cold water of drinking water quality	10°C	1 minutes
Cleaning	Neodisher Mediclean forte, alkaline 0,5% (water of drinking water quality)	55+/-5°C	5 minutes
Neutralisation	Neodisher Z 0,1% (water of drinking water quality)	10°C	2 minutes
Rinsing	with deionized water	10°C	1 minutes
Thermal disinfection	with deionized water	>90°C	5 minutes
Drying	Temperature setting on the unit	80°C	30 minutes

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¹according to test reports 8739, 8740, 8741 from 17.09.19 / 23.09.19 / 10.10.19 from CleanControlling Medical GmbH & Co. KG - 78576 Liptingen

4.5 Removing the cleaned SSSGS-Set parts from the cleaning and disinfection device

Remove the cleaned SSSGS parts from the cleaning and disinfection device after the cleaning process has been completed. Wear disposable gloves to avoid further contamination. Check cleaning- and drying status of the SSSGS parts. If they have not been cleaned completely the appropriate cleaning steps are to be repeated respectively a final drying process is to be performed by using compressed air for medical purposes.

4.6 Preparing the SSSGS for steam sterilization

Check the completely cleaned and dried instrument parts for possible defects (see 4.8). Sterilization must be performed in a single transparent sterilization package according to European Standard EN 868-5.

4.7 Sterilization of the SSSGS parts

Steam sterilization: Sterilizer class B EN13060 - Fractioned fore-vacuum – temperature 134°C – minimum dwell time 5 minutes. The guidelines of the sterilization device manufacturers are to be observed before loading the sterilization chamber. The shelf life after sterilization depends on the storage container used. Please observe the manufacturer's information! Do not ever reuse the SSSGS after contamination with pathogens which cannot be killed by the sterilization procedure.

4.8 Checking the SSSGS parts after sterilization

The SSSGS must not be used if:

- the SSSGS is not properly cleaned and sterilized.
- parts of the SSSGS are bent, have corroded or have defect threads.
- O-rings or sealing discs are missing or damaged.
- The use of the SSSGS is at the user's own responsibility.

If defects are found during the inspection, even if they are not mentioned here, the SSSGS is not be used.



Please check if all O-rings shown in the picture are present and undamaged before reassembling the gun! **Screw all parts in place finger-tight by clockwise rotation.**

Use of the cleaning gun with compressed air and Water:

- 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 piston dry the piston seal will be damaged! Then insert the piston into the gun body, position the piston spring onto the piston and screw the end cap to the gun body.
- Screw the nozzle cap to the front of the gun body and screw the desired nozzle into the nozzle cap.
- Screw the gun handle into the gun body as far as it will go.
- 4. 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 the stainless steel coupling.
- 5. Insert the trigger into the gun body and fix it using the trigger lock pin and lock it by folding the trigger lock pin down.

Note: The silicone oil supplied is not sterile.

Caution: Oils containing white oil or paraffin oil destroy the sealing rings.

Note: If the piston is difficult to remove from or insert into the gun body despite oiling, the piston o-ring small REF 64-20850-24 needs to be replaced (See parts overview page 7).

Please note: The water respectively compressed air supply line must always be disconnected when the gun is not used or if you want to carry out assembly work on the SSSGS. In this case the pressure in the system is to be relieved through the cleaning gun by activating the trigger. The entire system has to be checked for damages before every opening of the pressure line!

. The system has to be checked for leakage if the pressure line has been opened!



When the pressure line has been opened the system must be checked for leakage! The user must be protected from spray (goggles, mask, splash guard, clothing etc.). Furthermore you have to stick to all terms for the usage of the clean gun, provided by your professional association (Employer's Liability Insurance Association). The nozzles on the cleaning gun must be firmly attached to the nozzle cap.

12. Examination of the SSSGS – unit by the user before its use

It is prohibited to use the SSSGS if:

- The SSSGS unit is not properly connected.
- The SSSGS unit is not properly cleaned and sterilized.
- The SSSGS unit have damages or leaks.
- Parts of the SSSGS unit are bent, infested with rust or have thread defects.
- O-rings or seal discs are missing or damaged.

The user is responsible for the use of the SSSGS - unit. If any defects should be found during the examination, even if they are not mentioned here, the usage of the SSSGS is prohibited.

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13. Technical Data

Medium:	Oil-free compressed air / cold water / cold de-ionized water (Depending on the hose material used)
Extraction point - max pressure:	Extraction point (=Gun hose connection point) 0,5Mpa (=5 bar)
Materials: Cleaning gun: Piston: Nozzles:	Stainless steel 1.4404 / Piston spring Stainless steel 1.4571 Plastic - PEEK USP Class VI Stainless steel 1.4404 - Luer-Lock connector - brass chrome-plated
Quick-lock coupling*: Seal disc quick-lock coupling / hose: Coupling protection cap: Hose connection cap: Hose connection adapter: Nozzle stand base plate:	Stainless steel 1.4404 / Springs 1.4571/ Locking pins 1.4310 EPDM with KTW-approval Plastic with FDA approval Stainless steel 1.4404 Stainless steel 1.4404 - seal disc: KTW approval Stainless steel 1.4301 / plug-on pins: Stainless steel 1.4310 / feet: Plastic with FDA approval / Mounting screws: Stainless steel 1.4301
Lubricant:	silicone oil (non-sterile)
Note: The front piston area with the small piston The O-rings inside the quick-release coupling ar	O-ring must be lubricated with silicone oil after each reprocessing. (minimal lubrication)! re lubricated with silicone oil at assembly.
EPDM Q-ring approval	

(cleaning gun, piston, nozzles, attachments, hose cap and quick-release coupling): EU 65/2011 (RoHS); EC 95/2002 (RoHS); EC 11/2003; FDA; EC 2023/2006; EC1935/2004 article 3; BfR XXI Kategorie 4; ADI free; ACS; WRAS; USP Class VI; UBA; ÖNORM; NSF 61; NSF 51; KIWA; DVGW W270; DVGW W534; EN 681-1; AS/NZS 4020; 3-A Sanitary Standard; GB 4806.11-2016

Hose for compressed air*:	PVC fabric hose with KTW-C / FDA (21 CFR §170 - §190) (§ 175.300) approval inner diameter 6mm / outer diameter 12mm or ¹ polyamide spiral hose PA12W -40°C to +90°C (without certificate or test report)
Hose fitting: Hose outlet: Hose inlet:	inner diameter 6mm / outer diameter 8mm ² anodized aluminum - nickel-plated brass with bend protection external thread 1/2" Open, the appropriate connection must be provided by the operator.

Hose for drinking water / de-ionized water*: Silicone hose with stainless steel braiding and KTW-A / W270 / W543 approval

Hose fittings:	Stainless steel 1.4404
Hose outlet:	male thread 1/2"
Hose inlet:	3/8" union nut - seal disc with KTW approval

*No statement by the manufacturer for reprocessing.

approx. 0.75 liters/min
approx. 5.0 liters/min
approx 6.2 liters/min
approx. 6.0 liters/min
approx. 6.4 liters/min
approx. 35 liters/min
approx. 35 liters/min approx. 230 liters/min
approx. 35 liters/min approx. 230 liters/min approx 300 liters/mir
approx. 35 liters/min approx. 230 liters/min approx 300 liters/mir approx. 270 liters/min

14. Warranty

1 year for stainless steel parts, piston and hose. O-rings are wear parts and not covered by the warranty. Color changes at the plastic elements and damages caused by force are excluded from any warranty. Warranty and liability claims are only accepted, when you strictly adhered to our delivered instruction manual. The warranty is excluded if third-party oils are used.

15. Disposal Disposal of the SSSGS - unit according to national law!

This medical device is CE marked according to MDR 2017/745





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Notes / additions
18. General safety instructions and instructions for personal safety
Blowing with compressed air can be dangerous and can lead to serious injury or death, if the work is not carried out in a professional manner. For information: 0.8 bar pressure is sufficient to blow the hum eye out of its socket. Compressed air at 0.3 bar entering the mouth into the mouth is enough to burst th oesophagus. If compressed air enters thecanal can cause severe damage or even permanent hearing le If compressed air gets under the skin through body orifices or small wounds, this can lead to swelling entire parts of the body.whole parts of the body. If the compressed air enters a vein, an air embolism occurs, which almost always leads to death.
The SSSGS may only be put into operation by qualified persons. This also applies to installation, use, cleaning maintenance. The user must be physically capable of operating this SSSGS.
Improper use, as well as any modification or combination with unsuitable third-party parts may result in damage property, serious injury to yourself and third parties.
The applicable safety regulations, workplace regulations and health and safety regulations of the respective co or area of use must be observed.
Ensure that the SSSGS is out of the reach of persons who are not familiar with its operation. (untrained persons)
A high noise level can lead to permanent hearing loss. Always use on-site pressure reducers or ear defenders.
Avoid inhaling substances produced during the work process. Always use protective goggles and face masks
The SSSGS is not intended for use in potentially explosive atmospheres and must not come into contact with live parts.
Hold the SSSGS and the object to be cleaned firmly and make sure that you are standing securely to be able to withstand any forces generated by the cleaning gun. Dangers due to flying parts: (even small parts that could be whirled up by the exhaust air, for example, can cause lead to eye injuries and thus to blindness). Use protective goggles and face masks if necessary
Only use the SSSGS when you are awake and rested.
Always pay attention to what you are doing and always use common sense when operating the SSSGS.
Do not use the SSSGS if you are tired or under the influence of medicine, alcohol or medication. Even the slightest carelessness can lead to serious injury.
Wear adequate protective clothing and safety goggles. Wearing protective equipment drastically reduces the risk of accidents and injuries.
Before each connection and before each use of the SSSGS, check that all connections and hoses are tight, particularly with regard to hoses, in particular with regard to damage to the compressed air or water lines and connection pieces.
Only connect the SSSGS to air or water systems with a pressure that does not exceed the maximum working pressure
Never point the SSSGS at your own body or other living objects. This could result in serious injury or death.

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Notes / additions

19. Requirements for safe, proper use/reprocessing

Fundamentals

Reprocessing utensils must be reprocessed at least every working day! Safe, proper reprocessing requires a risk assessment. Risks from water-typical bacteria, such as pseudomonads, legionella etc., must be taken into account. The effectiveness of a reprocessing method or the reprocessing success must be proven and ensured by appropriate, objective tests (validation). The same requirements apply to outpatient and inpatient facilities. **The operator is responsible!**

Cleaning guns intended for the reprocessing of medical devices and which can be reprocessed must be completely disassemblable, disinfectable and sterilizable.

Industrial cleaning guns do not meet these requirements. Certified medical devices are to be preferred! Cleaning guns intended for the reprocessing of medical devices and which are reprocessable are class 1 medical devices. According to DIN EN ISO 17664, the manufacturer must provide objectively tested (validated) reprocessing instructions and specify all individual steps.

All RfQ stainless steel cleaning guns can be completely disassembled, disinfected and sterilized! Safe reprocessing is described in individual steps and proven by objective evidence.

Annotation to the "validation" / reprocessing process:

The manufacturer's instructions must include a procedure that documents the reliability (reproducible at any time, traceable, safe) of a reprocessing method. This includes all manual and, if necessary, mechanical reprocessing steps. Manual, manual with device support (US cleaning) and mechanical reprocessing methods are suitable. The employees entrusted with reprocessing must be instructed and demonstrate their expertise.

REF	Article number	DE	Product designation German
QTY	Quantity	EN	Product designation English
LOT	Lot number	Ē	Instructions for use
	Manufacturer	NON	Non sterile
\mathbb{N}	Date of manufacture	MD	Is a medical device

Explanation of the	symbols	on the	product	labe
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