Instructions for use





rote quick

Quick couplings RQ-03, RQ-04, RQ-14, RQ-24, RQ-34 RA-24, RA-25

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W&H Symbols

WARNING!

(Risk of injury)

Medical Device



(to prevent damage occurring



General explanations, without risk to persons or objects



in the Instructions for use

Do not dispose of with domestic waste

on the medical device/packaging

W&H Symbols



Type B applied part (not suitable for intracardiac application)

on the medical device/packaging

W&H Symbols

CE marking with identification number of the Notified Body

REF Catalogue number catalogue

SN Serial number

XXXX

□ Date of manufacture



DataMatrix Code

and U.S. requirements

for product information including UDI (Unique Device Identification)

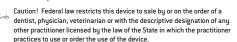




Data structure in accordance with Health Industry Bar Code



Sterilizable up to the stated temperature



1. Introduction

Customer satisfaction is the main priority under the W&H quality policy. This medical device has been developed, manufactured and subjected to final inspection according to legal regulations, quality norms and industry standards.

For your safety and for the safety of your patients
Prior to initial use please read the Instructions for use.

These explain how to use your medical device and guarantee a smooth and efficient operation.



Observe the safety notes.

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Intended use

Connector for media transfer (air, water, electricity and/or light) between the supply hose of the dental unit and air driven handpieces.



Misuse may damage the medical device and hence cause risks and hazards for patient, user and third parties.

Qualifications of the user



We have based our development and design of the medical device on the dentists, dental hygienists, dental employees [prophylaxis] and dental assistants target group.

Responsibility of the manufacturer

The manufacturer can only accept responsibility for the safety, reliability and performance of the medical device when it is used in compliance with the following directions:

> The medical device must be used in accordance with these Instructions for use.

Correct the malfunction as described in the Instructions for use.

- > Only the components approved by the manufacturer may be replaced (e.g. o-rings).
- > Modifications or repairs must only be undertaken by an authorized W&H service partner. (see page 45)



Skilled application

with these Instructions for use.

\(\frac{1}{2}\) The medical device is intended only for skilled application according to the intended use as well as in compliance with the valid health and safety at work regulations, the valid accident prevention regulations and in compliance

The medical device should be prepared for use and maintained by staff who have been trained in procedures for infection control, personal safetu and patient safetu.

Improper use, (e.g., through poor hygiene and maintenance), non-compliance with our instructions or the use of accessories and spare parts which are not approved by W&H, invalidates all claims under warranty and any other claims



Any serious incident that has occurred in relation to the medical device should be reported to the manufacturer and the competent authority!

2. Safety notes



- > Before using the medical device for the first time, store it at room temperature for 24 hours.
- The operation of the medical device is permitted only on dental units which correspond to the standards IEC 60601-1 [EN 60601-1] and IEC 60601-1-2 [EN 60601-1-2].

The power supply unit for the dental unit must satisfy the following requirements to be guaranteed by the sustem assembler [Relates to externally electrically supplied couplings and applied parts]:

- Double insulation for the highest expected supply voltage must be provided between the primary and secondary power circuits.
- Double insulation for the highest expected secondary voltage must be provided between the secondary voltage and protective earth [PE].



- The secondary circuits must be galvanically isolated from each other.
- The secondary circuits must be protected against short-circuiting and overloading, (maximum 700 mA onlu for RA-241
- The leakage currents of and between the applied parts must be kept. The secondary voltage to supply this medical device must must be limited to a maximum of 4.2 V AC or 6 V DC.
- Never touch the patient and the electrical contacts on the medical device simultaneously.
- Use only the supply hoses as specified by EN ISO 9168.
- Always ensure the correct operating conditions and cooling function.
- Check the medical device for damage and loose parts before using.
- Do not operate the medical device if it is damaged.
- Perform a test run each time before using. Do not look directly into the light source.

[3.3 V AC/DC only for RA-24]

- Do not use the medical device as a light probe.



The Quick coupling is a functional part of the supply hose and should therefore also be seen as an extension to it during reprocessing. It is imperative to comply with the concentrations and exposure times specified by the manufacturer of the treatment water decontamination sustem, as well as its handling.

If the Quick coupling is processed separately from the supply hose, you can refer to the information in the chapter "Hugiene and maintenance" as per ISO 17664 from the manufacturer of the quick coupling.

Hygiene and maintenance prior to initial use



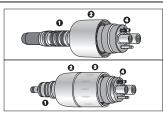
- > The medical device is sealed in PE film and not sterilized when delivered.
- > The PE film and the packaging are non-sterilizable.



Clean and disinfect the medical device.Sterilize the medical device.

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3. Product description



- 0 0-rings
- Retention sleeve
- 3 Spray regulation ring (for RQ-14, RQ-34)
- Water filter with resuction stop



All Quick couplings are equipped with a non-retraction valve which prevents contaminated cooling water from being sucked back into the turbine and the supply hose.

The non-retraction valve is integrated in the cooling water supply system.

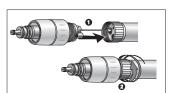
In the event of blocked or incorrectly routed cooling water lines, please contact an authorized W&H service partner (see page 45).



The cooling water lines must not be cleaned with sharp objects!

(This could damage the sealing element and prevent the non-retraction valve from working.)

4. Operation



- Oconnect the Quick coupling to the supply hose.
- Firmly tighten the union nut of the supply hose by hand in a clockwise direction to ensure there are no leaks.

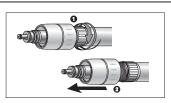


Verify full engagement. Check the leak tightness.



This method of assembly provides a connection for drive air, chip air, return air, water.

Possible variants with electricity: RQ-24, RQ-34 or with light: RA-24, RA-25.



- Unscrew the union nut of the supply hose by hand in an anticlockwise direction.
- Carefully remove the Quick coupling from the supply hose.

Checking the Quick coupling for leaks

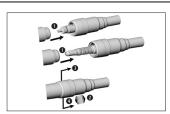


- > Push an appropriate air driven medical product onto the Quick coupling.
- Activate the medical device, or if possible just activate the spray water only.
 No water should leak between the Duick coupling and the air driven medical product, and the coupling and the supply lose.

Operation Changing air driven products



- > Always follow recommendations made by the manufacturer of air driven products.
- > Only connect air driven product with appropriate connection to the Quick coupling.
- > The user accepts sole responsibility if other air driven products are used. We accept no liability in such cases.





Do not assemble or remove the medical device during the operation.

 Attach the air driven instrument onto the Quick coupling until it audibly engages.



Verify full engagement

- Pull the retention sleeve of the Quick coupling back.
- To disconnect the air driven instrument, pull it off in axial direction.

Regulating the spray water

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The water quantity is regulated directly via the spray control ring of the medical device (R0-14, R0-34) or via the adjustable valves on the unit (R0-03, R0-04, R0-24, RA-24, RA-25).

Minimum spray flow: Line marking on the spray adjuster ring and point on the retention sleeve correspond with

Maximum spray flow: Turn the spray adjuster ring to the right or left.

The water flow can only be varied using this spray adjuster ring. It cannot be stopped completely.

Test run



Do not hold the medical device at eye level.

- Connect the Quick coupling to the supply hose.
 Attach the air driven instrument onto the Quick coupling until it audibly engages.
- Start the air driven product.



In the event of operating malfunctions (e.g. vibrations, unusual noise, overheating, coolant failure or leakage) stop the medical device immediately and contact an authorized W&H service partner.

5. Hygiene and maintenance



> Follow your local and national laws, directives, standards and guidelines for cleaning, disinfection and sterilization.



> The information on the validated reprocessing procedures serves as an example of an ISO 17664 compliant processing of the medical device.



Wear protective clothing, safety glasses, face mask and gloves.
 Couplings are considered an extension of the tubing. Clean and disinfect without disconnecting from the



tubing using an intermediate, hospital grade disinfectant after each patient.

> Use only oil-free, filtered compressed air with a maximum operating pressure of 3 bar (43.5 psi) for manual druine.

Cleaning agents and disinfectants



- > Read the notes, follow the instructions and heed the warnings provided but he manufacturers of cleaning agents and/or disinfectants.
 - > Use only detergents which are intended for cleaning and/or disinfecting medical devices made of metal and plastic. > It is imperative to comply with the concentrations and exposure times specified by the manufacturer of the
 - disinfectant

 - > Use disinfectants which have been tested and found effective by the Verbund für Angewandte Hugiene e. V. (VAH = Association for Applied Hygiene), the Österreichische Gesellschaft für Hygiene, Mikrobiologie und Präventivmedizin (ÖGHMP = Austrian Society for Hygiene, Microbiology and Preventive Medicine), the Food and Drug Administration (FDA) and the U.S. Environmental Protection Agency (EPA).
 - The user is responsible for validating its process if the specified cleaning agents and disinfectants are not

Hygiene and maintenance



The product lifetime and the medical device's ability to operate correctly are mainly determined by mechanical stress during use and chemical influences due to processing.

Send worn or damaged medical devices and/or medical devices with material changes to an authorized
 W&H service partner.

Processing cycles



- In the case of wipe disinfection, the use of the medical device is guaranteed without restriction until a functional or material limitation is recognizable.
- > The use of the medical device is guaranteed until at least 500 reprocessing cycles.

Hugiene and maintenance

disinfectant step after cleaning.



Clean the medical device immediately after every treatment. Wipe the entire surface of the instrument with disinfectant.

If the Quick coupling remains on the supply hose, follow the instructions of the unit manufacturer.

If the Quick coupling is to be reprocessed, remove it from the supply hose and follow the steps on page 27 - 34.

ℐ Note that the disinfectant used during pre-treatment is only for personal protection and cannot replace the

Hygiene and maintenance



Do not place the medical device in liquid disinfectant or in an ultrasonic bath.

- > Clean the medical device under running tap water (< 35°C/< 95°F).
- > Rinse and brush off all internal and external surfaces.
 > Remove liquid residues using compressed air.

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Hygiene and maintenance



> W&H recommends wipe-down disinfection.



Evidence of the medical device's basic suitability for effective manual disinfection was provided by an independent test laboratory using the disinfectants "mikrozid" AF wipes" (Schülke & Mayr GmbH, Norderstedt) and "CaviWipes" (Metrex).



The medical device is not approved for automated cleaning and disinfection.

Hugiene and maintenance

Inspection



- > Check the medical device after cleaning and disinfection for damage, visible residual soiling and surface changes.
- Reprocess any medical devices that are still soiled.
 Sterilize the medical device following cleaning and disinfection.

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Hugiene and maintenance



Pack the medical device in sterilization packages that meet the following requirements:

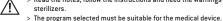
- > The sterilization package must meet the applicable standards in respect of quality and use and must be
- suitable for the sterilization method.

 > The sterilization package must be large enough for the sterilization goods.
- > The filled sterilization package must not be under tension.

Hygiene and maintenance



W&H recommends sterilization according to EN 13060, EN 285 or ANSI/AAMI ST55.



> Read the notes, follow the instructions and heed the warnings provided by the manufacturers of steam sterilizers

Recommended sterilization procedures

- > "Dynamic-air-removal prevacuum cycle" (type B) / "Steam-flush pressure-pulse cycle" (type S)*/**
 134°C (273°F) for at least 3 minutes, 132°C (270°F) for at least 4 minutes
- > "Gravity-displacement cycle" (type N)**

121°C (250°F) for at least 30 minutes

Maximum sterilization temperature 135°C (275°F)

Hygiene and maintenance

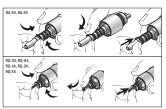


- > Store sterile goods dust-free and dry.
- > The shelf life of the sterile goods depends on the storage conditions and type of packaging.



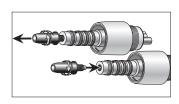
The Quick coupling may be stored on the supply hose.

6. Maintenance Exchanging o-rings





- > Replace damaged or leaking o-rings immediately.
- Always replace all o-rings.Do not use sharp tools.
- Press the o-ring firmly together with your thumb and index finger until it forms a loop.
- Pull off the o-ring.
- Slide the new o-ring back on.

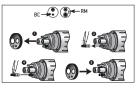


Replacing the bulb (RA-24)

> Screw off the bulb counterclockwise by hand and replace it with a new one.



Verify full engagement.



Changing the water filter (BC/RM)

Remove the seal.

Slide on the seal.

6

- Pull out the water filter with tweezers.
- 3 Clean the water filter (see page 37).
- 4 Carefully insert the water filter.

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Clean the water filter (BC/RM)

Use the nozzle cleaner carefully to remove dirt and deposits from the water filter outlets.



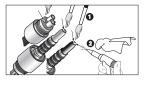
The water filter can be cleaned in an ultrasonic bath.



If it proves impossible to correct the malfunction, please contact an authorized W&H service partner.



> Repeat the complete hygiene and maintenance process.



Cleaning of the light source (RA-24, RA-25)



Avoid scratching the light source!

- Wash the light source with cleaning fluid and a soft cloth.
 - Blow the light source dry using compressed air or dry it carefully with a soft cloth.



- > Carry out a visual inspection after each cleaning process.
- > Do not use the medical device if the light source is damaged and contact an authorized W&H service partner.

7. Servicing Repairs and returns

In the event of operating malfunctions immediately contact an authorized W&H service partner.

Repairs must only be undertaken by an authorized W&H service partner.



> Ensure that the medical device has been completely processed before returning it.

8. Accessories, consumables, spare parts and other recommended medical devices by W&H



02060200

02202300

03523000

Use only original W&H accessories and spare parts or accessories approved by W&H. Suppliers: W&H partners 02060100 0-ring, large

RM seal 01000700 BC seal (RQ-03) 04697000 Back-pressure valve 04697100 Water tube

0-ring, small

Spare bulb (RA-24)

9. Technical data

0.11	00.00	20.01	2011	DO 04	00.04	D. 04	D. 05
Quick coupling	RQ-03	RQ-04	RQ-14	RQ-24	RQ-34	RA-24	RA-25
Connection according to standard EN ISO 9168:2009	Type 1:	Type 3:		Type 3:			Type 2:
	"Borden"	"Ritter Midwest (4 hole)" "Ritter Midwest (6 ho			ole)*	"Ritter Midwest (US)"	
Connection medical device	"Roto Quick" products				"LW" products		
Water quantity adjustable			x		×		
Light						x Halogen lamp	x Glass rod
Electrical contacts							
(for power transmission to the medical device)				*	×		
Recommended voltage range V DC or V AC ±0,1				3.2	3.2	3.2	
Sterilizable	×	х	x	×	×	×	×



Temperature information

Temperature of the medical device on the operator side: maximum 55°C [131°F]

Ambient conditions

Temperature during storage and transport: Humidity during storage and transport:

Temperature during operation:
Humidity during operation:

-40 °C to +70 °C (-40 °F to +158 °F) 8 % to 80 % (relative), non-condensing +10 °C to +35 °C (+50 °F to +86 °F)

15 % to 80 % (relative), non-condensing

10. Disposal



Ensure that the parts are not contaminated on disposal.



 $Follow\ your\ local\ and\ national\ laws,\ directives,\ standards\ and\ guidelines\ for\ disposal$



Letter of indemnity

This W&H medical device has been manufactured with great care by highly qualified specialists. A wide variety of tests and controls guarantees faultless operation. Please note that claims under warranty can only be validated when all the directions in the Instructions for Use have been followed.

As manufacturer, W&H is liable for material or manufacturing defects within a warranty period of 24 months from the date of purchase. Accessories and consumables are excluded from the warranty.

We accept no responsibility for damage caused by incorrect handling or by repairs carried out by third parties not authorized to do so by W&H!

Claims under warranty accompanied by proof of purchase must be sent to the vendor or to an authorized W&H service partner. The provision of service under warranty extends neither the warranty period nor any other guarantee period.

months warranty

Authorized W&H service partner

Find your nearest authorized W&H service partner at http://wh.com Simply go to the menu option "Service" for full details.

Or simply scan the QR code.



Manufacturer

Form-Nr 50610 AFN

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Subject to alterations

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