

## Instructions for use



CE  
0297

pyon 2  
PB-200 / PB-200 LED

# Contents

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Symbols.....	4 – 6
1. Introduction.....	7 – 8
2. Electromagnetic compatibility (EMC) .....	9
3. Equipment supplied.....	10 – 11
4. Safety notes .....	12 – 16
5. Description of front panel control unit.....	17
6. Description of rear panel control unit .....	18
7. Starting operation – General.....	19
8. Rinsing the supply hose thoroughly / Starting operation handpiece.....	20
9. Insert/remove tip .....	21 – 22
10. Switching Pyon 2 on / off .....	23
11. Test run .....	24
12. Starting operation Pyon 2 .....	25
13. Fault repair .....	26
14. Hygiene and maintenance.....	27 – 34
15. Changing the O-Rings .....	35
16. Changing the coolant filter .....	35

# Contents

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17.	W&H accessories and spare parts .....	36
18.	Servicing .....	37 – 38
19.	Technical data .....	39 – 41
20.	Disposal .....	42
	Explanation of warranty terms .....	43
	Authorized W&H service partner .....	44

## Symbols in the Instructions for use

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**WARNING!**  
[Risk of injury]



**ATTENTION!**  
[to prevent damage occurring]



General explanations,  
without risk to  
persons or objects



Thermo washer disinfectable



Sterilizable  
up to the stated temperature














Suitable for the ultrasonic bath



Call customer service

## Symbols on the Pyon 2

	Follow Instructions for Use		Data Matrix code for product information including UDI (Unique Device Identification)		Article number
	Consult instructions for use				Serial number
	Date of manufacture		Do not dispose of with domestic waste	<b>V</b>	Supply voltage of the unit
	Not suitable for intracardiac application – Type B applied part		Foot switch	<b>AC</b>	Alternating current
	CE mark with identification number of the Notified Body		MEDICAL – GENERAL MEDICAL EQUIPMENT WITH RESPECT TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL 60601-1:2006, CAN/CSA-C22.2 No.601.1-M90:2005, CAN/CSA-C22.2 No.60601-1:2008, ANSI/AAMI ES 60601-1:2005 25UX (Control No.)	<b>W</b>	Electric power consumption of the unit
				<b>A</b>	Supply current
				<b>Hz</b>	Frequency of the alternating current

# Symbols on the packaging



CE mark  
with identification number  
of the Notified Body



Data Matrix code  
for product information including UDI  
(Unique Device Identification)



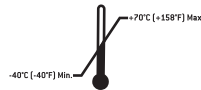
This way up



Data structure in accordance with  
Health Industry Bar Code



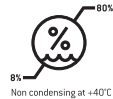
Fragile, handle with care



Temperature limit



Keep away from rain



Humidity limitation



»Der Grüne Punkt« (The Green Dot)  
trademark of Duales System  
Deutschland GmbH



Caution: Federal law restricts this device to sale  
by or on the order of a dentist, physician or any  
other practitioner licensed by the law of the  
state in which he or she practices to use or order  
the use of the device



Trademark of RESY OfW GmbH  
for identification of recyclable  
transport and outer packaging  
of paper and cardboard

# 1. Introduction

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## **For your safety and the safety of your patients**

These instructions explain how to use your product. However, we must also warn against possible hazardous situations. Your safety, the safety of your team and, of course, the safety of your patients, are of paramount importance to us.



It is therefore essential that you observe the safety notes on pages 12 – 16.

## **Intended use**

Drive unit with a piezo-ceramic oscillation system, which sets the scaler tip in linear vibration. The drive unit is used to remove supragingival plaque and subgingival concretions, as well as for endodontic applications and for preparing dental enamel.

Misuse can damage the Pyon 2 and hence cause risks and hazards for patients, users and third parties.

## **Qualified use**

Pyon 2 is only intended for qualified use in dental medicine according to the applicable health and safety regulations, accident prevention measures and in observance of these instructions for use. Pyon 2 must only be prepared and maintained by persons who have been instructed in infection protection, personal protection and patient safety. Improper use (e.g. due to lack of hygiene or maintenance), non-compliance with our instructions or the use of accessories and spare parts not approved by W&H invalidates all claims under warranty and any other claims.

# Introduction

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## Qualifications of the user

Pyon 2 has been developed and designed for the target group »dentists, dental hygienists, dental employees (prophylaxis) and dental assistants«.



## Production according to EU Directive

The medical device complies with the regulations of Directive 93/42/EEC.



## Responsibility of the manufacturer

The manufacturer can only accept responsibility for the safety, reliability and performance of Pyon 2 when there is compliance with the following directions:

- > Pyon 2 must be used in accordance with these instructions for use.
- > Pyon 2 has no components which can be repaired by the user. Assembly, modifications or repairs must only be undertaken by an authorized W&H service partner (see page 44).
- > The electrical installation at the premises must comply with the regulations of IEC 60364-7-710 (»Installation of electrical equipment in rooms used for medical purposes«) or with the regulations applicable in your country.
- > Unauthorized opening of the equipment invalidates all claims under warranty and any other claims.



## 2. Electromagnetic compatibility (EMC)

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### Notes on electromagnetic compatibility (EMC)

Medical electrical equipment is subject to particular precautions with regards to EMC and must be installed and put into operation in accordance with the EMC notes included.

W&H guarantees the compliance of the device with the EMC requirements only when used with original W&H accessories and spare parts. The use of other accessories/other spare parts can lead to an increased emission of electromagnetic interference or to a reduced resistance against electromagnetic interference.



You can find the current EMC manufacturer's declaration on our website at <http://wh.com> or, alternatively, you can also request a copy directly from the manufacturer.



### HF communication equipment

Do not use any portable and mobile HF communication equipment (e.g. mobile telephones) during operation. These may affect medical electrical equipment.

### 3. Equipment supplied

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#### Pyon 2 / PB-200

REF 30087000	Control unit (100 - 230 V), including 1,8 m supply hose with coupling REF 05849000
REF 06915000	Handpiece PB-3
REF 05076200	Tip changer with insert universal tip 1U (1 pc)
REF 05368200	Tip changer with insert universal tip 3U (1 pc)

#### Pyon 2 / PB-200 LED

REF 30086000	Control unit (100 - 230 V), including 1,8 m supply hose with coupling REF 05849000
REF 05547600	Handpiece PB-3 LED
REF 05076200	Tip changer with insert universal tip 1U (1 pc)
REF 05368200	Tip changer with insert universal tip 3U (1 pc)
REF 05370400	Tip changer with insert perio tip 1P (1 pc)

### 3. Equipment supplied

#### Accessories

REF 04717300	Foot control C-NF
REF 07249300	Switch-mode power supply
REF 05075600	Coolant hose (Ø 6 mm, ca. 2 m) with coolant filter REF 02675000
REF 02060203	O-Ring for hose coupling (2 pcs)
REF 00636901	Nozzle cleaner
	Tip card

#### Mains cable

REF 01343700	{EU}
REF 04280600	{CH}
REF 05901800	{DK}
REF 02821400	{USA, CAN, J}
REF 03212700	{UK, IRL}
REF 02909300	{AUS, NZ}

## 4. Safety notes



**Please observe the following instructions under all circumstances**

- > Before using Pyon 2 for the first time, store it at room temperature for 24 hours.
- > Pyon 2 is not suitable for surgical treatment.
- > Pyon 2 is not designed to administer drugs or similar substances.
- > Pyon 2 approved for use only with supply units with category 5 backflow prevention devices as defined in EN 1717.
- > Always ensure correct operating conditions and that sufficient and adequate cooling is delivered.
- > Always provide sufficient coolant and ensure the appropriate suction (except in endodontic applications).
- > Turn off the handpiece immediately in the event of failure in the coolant supply (max. operating time without coolant is 30 seconds). Exception for endodontic applications: here use is without coolant (max. operating time 2 minutes).
- > Provide sufficient space for unrestricted operation of the foot control.
- > Sterilize the handpiece, the tips and the accessories before using for the first time.
- > Perform a test run prior to each treatment.
- > Check Pyon 2, the handpiece and the supply hose for damage and loose parts (e.g. tip, LED, O-ring) every time before using. Correct any faults or contact an authorized W&H service partner (see page 44). Do not operate Pyon 2 if it is damaged.
- > Check the parameter settings every time the device is restarted.
- > Never touch the patient and the connections for the foot control or coolant hose simultaneously.
- > Rinse the supply hose through once a day (see page 20).
- > Do not connect the control unit to the hot water supply. ( $>30^{\circ}\text{C}$ ).

## Safety notes

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- > Disconnect the control unit from the water supply connection after each use (the control unit does not have an automatic aquastop).
- > Switch Pyon 2 off after every application.
- > Replace faulty or leaky O-rings in the hose coupling immediately.
- > Only replace the LED socket when the handpiece is at rest.
- > Avoid eye contact with the optic outlet.

### **Applied parts (parts that come into contact with the patient)**

- > Handpiece, tips, supply hose

### **Tips**

- > Only use tips approved by W&H and the associated tip changer or spanner.
- > An overview for the correct power setting is included with each tip.
- > With periodontal tips, the handpiece is suitable for the removal of concretions in the subgingival region, but not for applications which demand sterile conditions.
- > Ensure that the original shape of the tip is not changed (e.g. by dropping).
- > Tips must not be bent back to shape or reground.
- > Only insert the tip when the handpiece is at rest.
- > Never touch the tip when vibrating.
- > Place the tip changer onto the inserted tip of the handpiece at rest after each treatment (protection against injuries and infections, tip protection). Tips that are changed using the spanner must be removed immediately after treatment with the handpiece.
- > Check for the effect of wear on the tips using the accompanying tip card.
- > Change tips if there are visible signs of wear.

## Safety notes

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### **Inappropriate use**

Improper use, in addition to incorrect assembly, installation, modification or repairs of Pyon 2 or failure to comply with our instructions invalidates all claims under warranty and any other claims!



The control unit is designed for use with the W&H handpieces PB-3, PB-3 LED which means that only these devices must be used with the control unit. The use of other handpieces may cause incorrect functioning or destruction of the electronics.



Only use the switch-mode power supply and mains cable supplied.

Only connect to a grounded socket outlet.



In dangerous situations, the device can be disconnected from the power supply using the power cable.

### **Control unit**

The control unit is classed as »conventional equipment« (closed equipment without protection against the ingress of water).

### **System failure**

A total system failure of the Pyon 2 does not constitute a critical fault.

Simply switch the unit off and then on again.

## Safety notes

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### **Intermittent operating mode S6 (5 min operating time / 2 min pause time)**

The permissible relative load time is 5 minutes to 2 minutes pause time.

If the operating mode specified is observed no overheating of the system and therefore no injury to the patient, user or third persons arises. The responsibility for the use and timely shutdown of the system lies with the user.



#### **Danger zones M and G**

In accordance with IEC 60601-1/ANSI/AAMI ES 60601-1, Pyon 2 is not suitable for use in potentially explosive atmospheres or with potentially explosive mixtures of anaesthetic substances containing oxygen or nitrous oxide.



Pyon 2 is not suitable for use in oxygen-enriched atmospheres.



**Zone M** is defined as a »medical environment« and constitutes the part of a room in which potentially explosive atmospheres may form due to the use of anaesthetics or medical antiseptics and antibacterial soaps; such atmospheres are typically localized and temporary. Zone M comprises a truncated pyramid below the operating table which is tilted outwards at a 30° angle.



**Zone G**, also known as an »enclosed medical gas system«, does not necessarily include areas enclosed around all sides, in which explosive mixtures are continuously or temporarily generated, directed or used in small quantities.

## Safety notes

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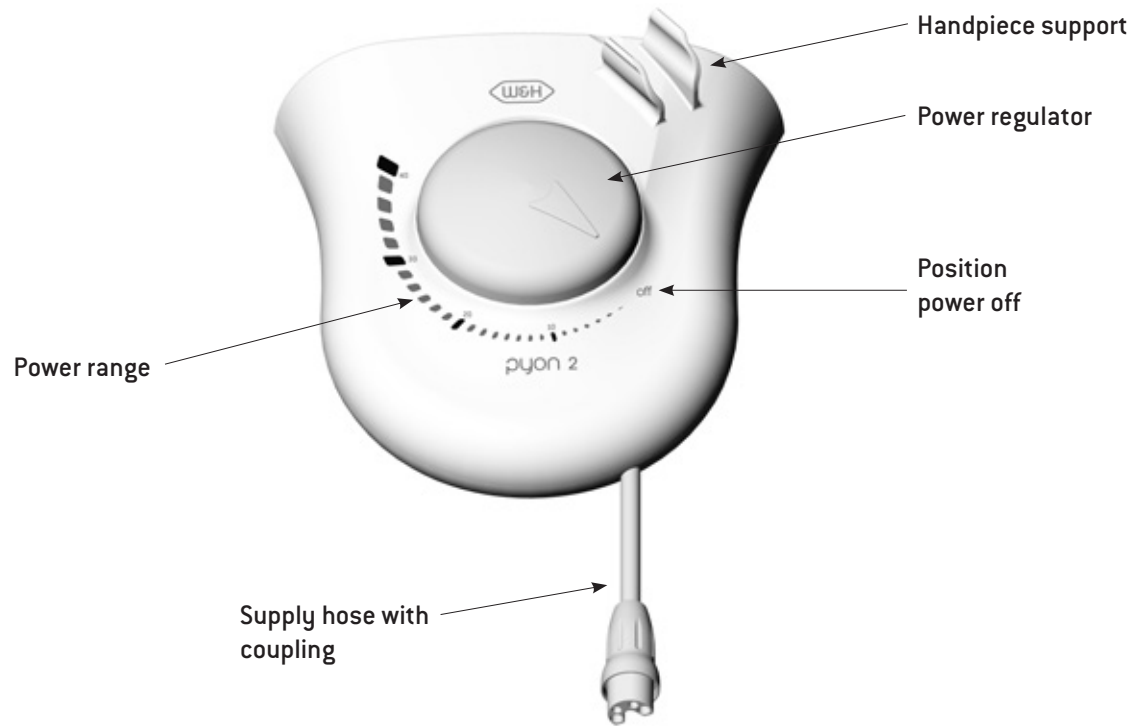


This medical device complies with the reference values defined in EN 50527-2-1/2011 for unipolar and bipolar pacemakers and is therefore suitable for patients with pacemakers.

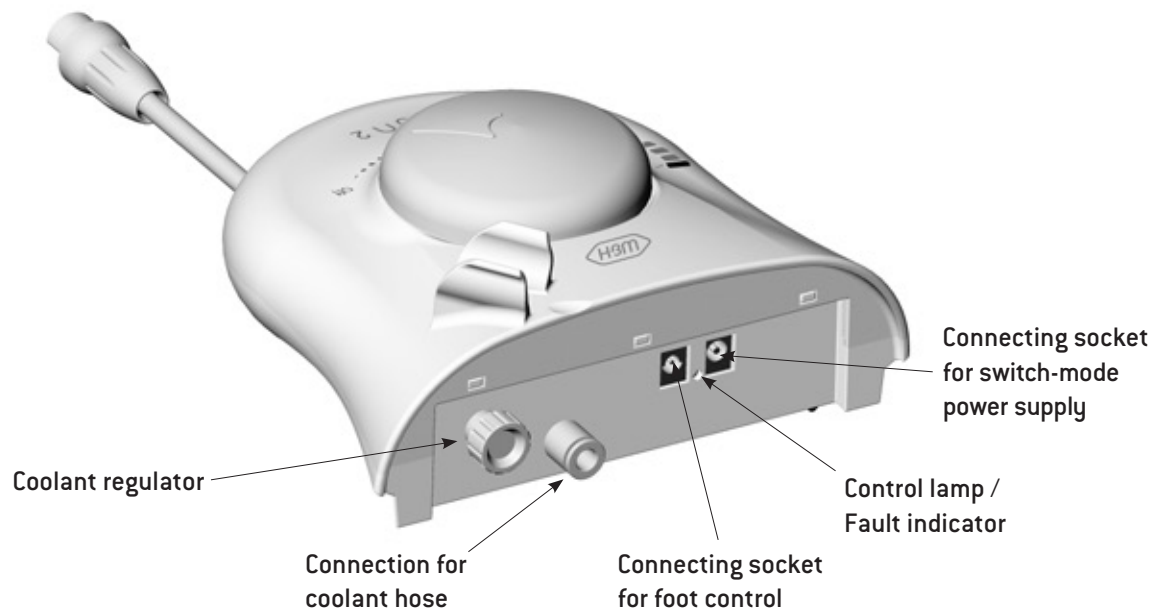
> Keep a safe distance of at least 30 cm between the control unit and your patients during operation.



## 5. Description of front panel control unit



## 6. Description of rear panel control unit

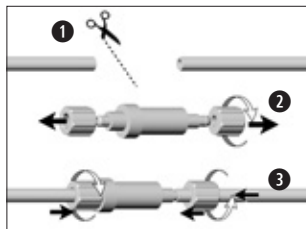


## 7. Starting operation – General



Always place Pyon 2 on a flat level surface.

Make sure that it is easy to disconnect Pyon 2 from the power supply.

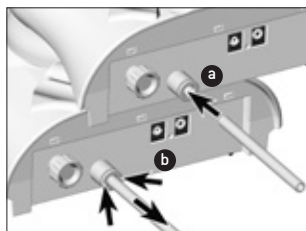


### Assemble coolant filter

❶ Cut the coolant hose.

❷ Unscrew the union nut from the coolant filter.

❸ Attach the coolant hose through the union nut onto the coolant filter and tighten the union nut.

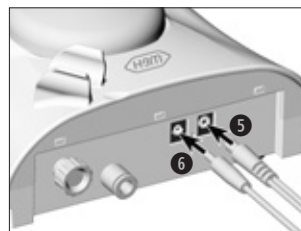


### ❹ insert:

❶ Insert coolant hose until back stop.

### remove:

❷ Push connection ring to the rear and remove coolant hose.



❺ Connect switch-mode power supply.

☞ Control lamp illuminates!

❻ Connect foot control.

## 8. Rinsing the supply hose thoroughly / Starting operation handpiece

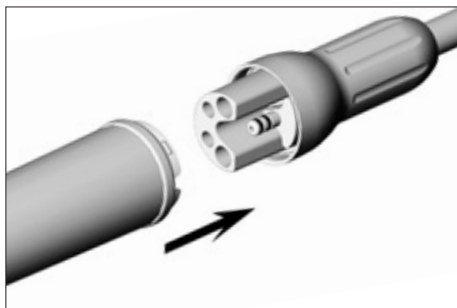


Ensure that the handpiece is not inserted!

- ❶ Turn the power regulator to the »off« position.
- ❷ Press the foot control 3 times within 3 seconds.



The rinse function is audible by means of a click and visible for 30 seconds through the coolant!

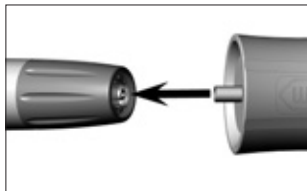


- ❶ Push the handpiece onto the supply hose.



Note the positioning of the connections!

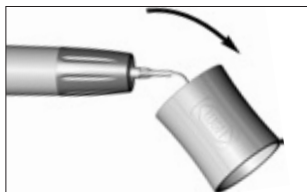
## 9. Insert/remove tip with tip changer





- 1 Position the tip on the thread of the handpiece.

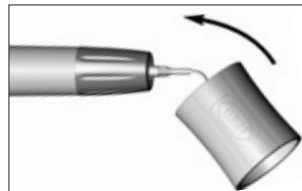


- 2 Turn the tip changer until it audibly engages.



- 3 Carefully withdraw the tip changer.  
 Check secure location of the tip by applying slight axial tension.

-  Press the tip with about 1 N (= 100 g) pressure onto a firm sterile object to test the loading capacity of the tip.



- 1 Place the tip changer onto the tip.

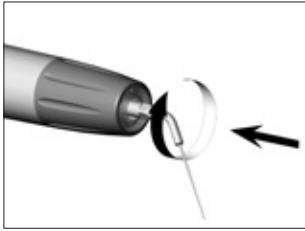


- 2 Unscrew the tip with the tip changer.



Leave the tip in the tip changer until the hygiene and maintenance process!

## Insert/remove tip with spanner



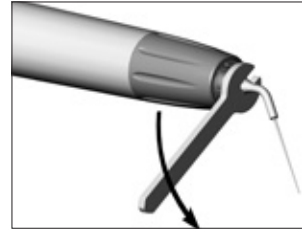
- ❶ Position the tip on the thread of the handpiece.



- ❷ Screw the tip down using the spanner.

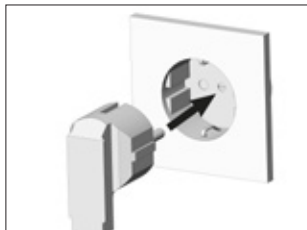


Check that the tip connection is secure by applying axial tension.



- ❶ Unscrew the tip using the spanner.

## 10. Switching Pyon 2 on / off



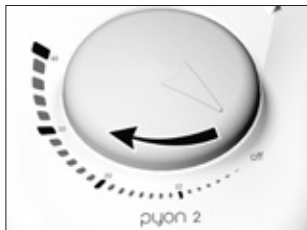
### Switching Pyon 2 on

- 1 Connect Pyon 2 to the mains socket.

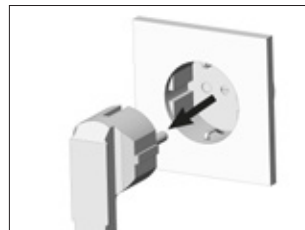


### Switching Pyon 2 off

- 1 Turn Pyon 2 off at the power regulator.



- 2 Turn Pyon 2 on at the power regulator.



- 2 Unplug Pyon 2 from the mains socket.

## 11. Test run

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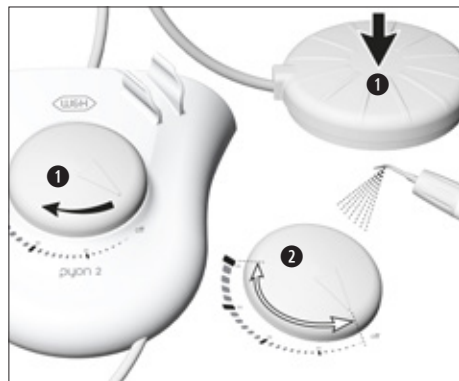


Do not hold the handpiece at eye level.


- > Attach the handpiece to the supply hose.
- > Insert the tip.
- > Start the Pyon 2 (flush the handpiece for approx. 30 sec. if it has not been run for a longer period of time).
- > In the event of malfunctions (e.g. vibrations, unusual noises, overheating, coolant failure or leakage), or change of LED colour, **stop Pyon 2 immediately** and contact an authorized W&H service partner (see page 44).



## 12. Starting operation Pyon 2



**1** Turn the power regulator to the necessary operating range and then press the foot control.

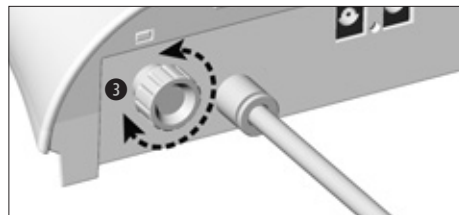
 Operation is audible by means of a click, visible by means of coolant and LED! When the foot control is no longer active, the LED will remain lit for a further 30 seconds!

 If the LED fails, change the LED socket (see page 29 and 31).

**2** Turn the power regulator in order to adjust the power.



After every use, turn the power regulator to the »off« position!  
[Risk of injury]



**3** Turn the coolant regulator in order to adjust the coolant supply volume.

## 13. Fault repair



The error messages are displayed by the control lamp / fault indicator on the rear panel control unit.

Flashing cycle	Error messages	Solution
1-1	No clear point of response found	Test tips (breakage/wear/tightening torque)
1-1-1	Handpiece not recognised when starting Pyon 2	Test handpiece connection to supply hose
1-1-1-1	Rinse supply hose thoroughly – handpiece recognised when starting Pyon 2	Remove handpiece
1-1-1-1-1	> Foot control continuously active for longer than 15 mins > Switch-mode power supply plugged-in during foot control operation (supply voltage restored) > Foot control operation before adjustment of power supply	Deactivate foot control / restart
1-1-1-1-1-1	Electronics temperature error	Allow to cool / restart
1-1-1-1-1-1-1	Overload at handpiece outlet	Service technician
Intermittent	Various system errors	Service technician





If the error messages described cannot be resolved by switching off and restarting Pyon 2, it is necessary for an authorized W&H service partner to check (see page 44). A possible total failure of the device caused by external influences requires switching off and restarting.

## 14. Hygiene and maintenance

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 Follow your local and country-specific laws, directives, standards and guidelines for cleaning, disinfection and sterilization.

- 
- > Wear protective clothing.
  - > Remove the tip from the handpiece.
  - > Remove the handpiece from the supply hose.
  - > Clean and disinfect the handpiece immediately after each treatment, to rinse out any liquid (e.g. blood, saliva etc.) that may have entered and to prevent the inside parts from seizing.
  - > Sterilize the handpiece, the tips and accessories following manual or mechanical cleaning and disinfection.

- 
- > The control unit is not approved for mechanical cleaning (thermodisinfectors) and sterilization.
  - > Do not immerse the control unit or clean it under running water.

# Hygiene and maintenance

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## Control unit with supply hose, foot control

### Pre-disinfection

- > If heavily soiled, clean first with disinfectant cloths.



Only use disinfectants that have no protein-fixing effects.

### Manual cleaning and disinfection



The front of the control unit and the foot control are sealed and may be wiped clean.

W&H recommends wiping disinfection.

- > Use only disinfectants which do not contain chlorine and which are certified by officially recognised institutes.
- > Note the manufacturer's specifications for the use of the disinfectants.



### Before resuming operation

Wait until the supply hose is completely dry.

Moisture in the supply hose can lead to a malfunction! (Risk of short circuit)

# Hygiene and maintenance

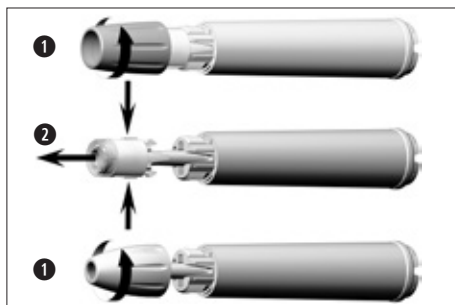
## Handpiece, tips and accessories

### Pre-disinfection

> If heavily soiled, clean first with disinfectant cloths.



Only use disinfectants that have no protein-fixing effects.

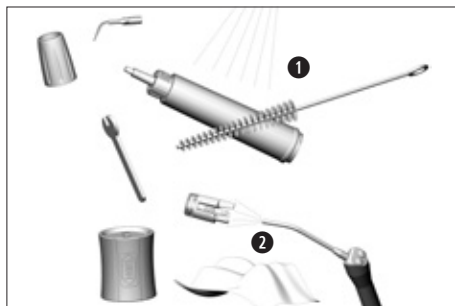


### Disassemble handpiece with LED

- 1 Unscrew the handpiece cap.
- 2 Simultaneously push the marking (push) located opposite and unplug the LED socket.

### without LED

- 1 Unscrew the handpiece cap.



### Manual cleaning inside and outside

- 1 Rinse and brush off under demineralized water (< 38 °C)
- 2 Remove any liquid residues (absorbent cloth, blow dry with compressed air).

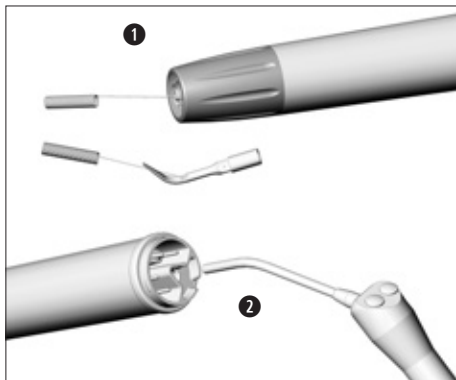


Do not place the handpiece and the tip changer in disinfectant solution or in an ultrasonic bath.



You can clean and disinfect the tips in a bur bath or ultrasonic bath.

# Hygiene and maintenance



## Cleaning the spray nozzles

① Use the nozzle cleaner to remove dirt and deposits from the outlets.



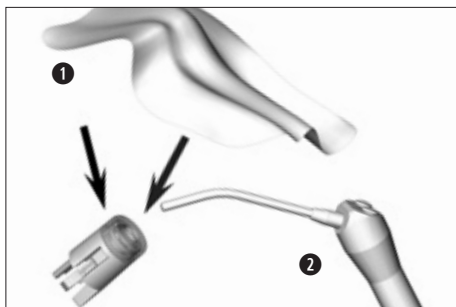
Clean and disinfect the nozzle cleaner in the ultrasonic bath / drill bath.

## Cleaning the coolant channel

② Blow through the coolant channel with the air gun.



If the exit openings or coolant channels are blocked, contact an authorized W&H service partner (see page 44).



## Cleaning of the optic outlet



**Avoid scratching of the optic outlet!**

① Wash the optic outlet with cleaning fluid and a soft cloth.

② Dry the optic outlet with the air syringe or carefully with a soft cloth.



Carry out a visual inspection after cleaning each time. Do not put the handpiece into operation if the optic outlet is damaged and contact an authorized W&H service partner (see page 44).

# Hygiene and maintenance



## Manual disinfection

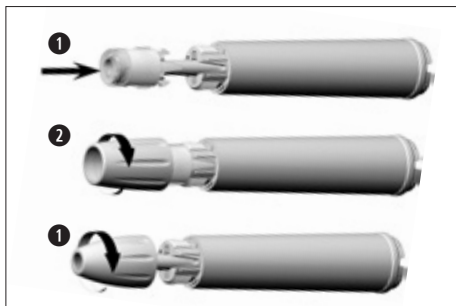


W&H recommends wiping disinfection.

- > Use only disinfectants which do not contain chlorine and which are certified by officially recognised institutes.
- > Note the manufacturer's specifications for the use of the disinfectants.



After manual cleaning and disinfection, you must carry out a final sterilization (wrapped) in a class B or S steam sterilizer (as per EN 13060).



## Reassemble handpiece



**Always operate the handpiece with the handpiece cap fitted!**

### with LED

- 1 Fit LED socket onto handpiece.



Note the positioning of the connections!

- 2 Screw on the handpiece cap.

### without LED

- 1 Screw on the handpiece cap.

# Hygiene and maintenance

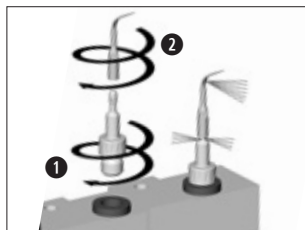
## Handpiece, tips and accessories

### Mechanical cleaning and disinfection inside and outside



The handpiece, the tips and the accessories can be cleaned and disinfected in the thermo washer disinfectant.

> Use the W&H adaptor kit REF 07233500 for the thermo washer disinfectant to prepare the tips.



❶ Screw the W&H adaptor into the adaptor on the injector rail.

❷ Screw the tip onto the W&H adaptor.



W&H recommends processing in the thermo washer disinfectant.

> Follow the manufacturer's recommendations for devices, cleaning and rinsing agents.



Make sure, that the handpiece is completely dry internally and externally after thermo washer disinfection. Remove any liquid residues with compressed air.



# Hygiene and maintenance

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## Sterilization and storage



W&H recommends sterilization according to EN 13060, class B

- > Note the instructions of the unit manufacturer.
- > Clean and disinfect before sterilizing.
- > Only sterilize the tip in the tip changer. This does not include tips which are replaced using the spanner.
- > Wrap the handpiece and the accessory in sterile goods packing according to EN 868-5.
- > Make sure that you only remove dry sterile goods.
- > Store sterile goods dust-free and dry.

# Hygiene and maintenance

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## Approved sterilization procedures

- > Steam sterilization class B with sterilizers in accordance with EN 13060.  
Sterilization holding time a minimum of 3 minutes at 134 °C.

or

- > Steam sterilization class S with sterilizers including drying program in accordance with EN 13060.  
The sterilizer manufacturer must give their express approval for the sterilization of handpieces.  
Sterilization holding time a minimum of 3 minutes at 134 °C.



The PB-2 LED handpiece is not suitable for hygienic preparation and sterilization in universal hygiene equipment (DAC Universal, KaVo Lifetime and Siemens Hygienecenter).



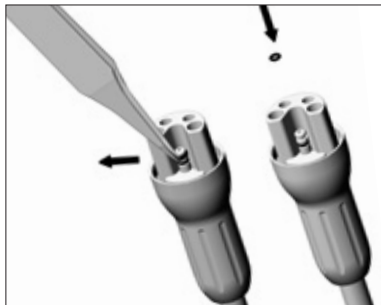
### **Before resuming operation**

Wait until the handpiece is completely dry.

Moisture in the handpiece can lead to a malfunction! (Risk of short circuit)

Wait until the tip, the tip changer and the spanner have completely cooled down. (Risk of burns)

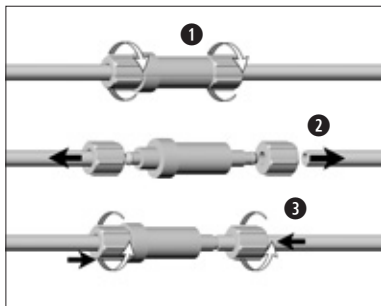
## 15. Changing the O-Rings



### Hose coupling

> Remove the two O-rings with a pair of tweezers and carefully replace them with new ones.

## 16. Changing the coolant filter



Replace the coolant filter if it is visibly soiled or after 1 year at the latest.

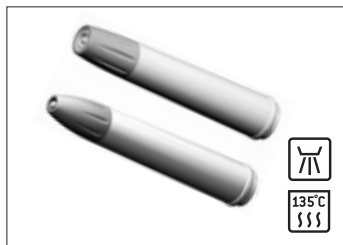
- ❶ Unscrew the cap nut from the coolant filter.
- ❷ Pull off the coolant hose from the coolant filter.
- ❸ Attach the coolant hose through the cap nut onto the new coolant filter. Screw the cap nut tight.

## 17. W&H accessories and spare parts



Use only original W&H accessories/spare parts or accessories approved by W&H.

Reference source: W&H Partner

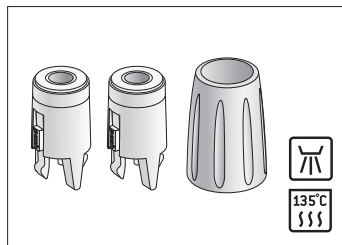


**06915000**

Handpiece PB-3

**05547600**

Handpiece PB-3 LED



**06578300**

LED socket including  
handpiece cap



**04717300**

Foot control C-NF

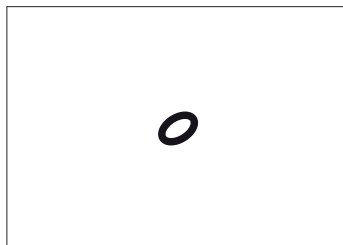


**02675000**

Coolant filter

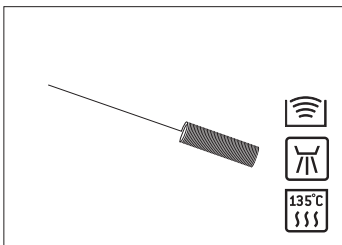
**05075600**

Coolant hose



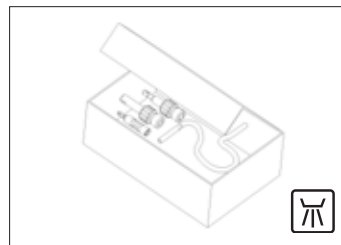
**02060203**

O-Ring for hose coupling (1 pc)



**00636901**

Nozzle cleaner



**07233500**

W&H Adaptor kit

## 18. Servicing

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### **Regular checking of Pyon 2**

Regular servicing of function and safety including the accessories is necessary and should be carried out at least once every three years, unless shorter intervals are prescribed by law. The inspection must be undertaken by a qualified organisation and needs to include the following procedures:

- > visual inspection for outside damage
- > measurement of device leakage current
- > measurement of earth leakage current
- > measurement of enclosure leakage current
- > internal visual inspection on suspicion of safety interference,  
e. g. mechanical damage of the enclosure or indicators of overheating

We recommend that these tests only be undertaken by an authorized W&H service partner (see page 44).

# **Servicing**

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## **Handpiece**

The standard ISO 18397 stipulates a durability of at least 250 sterilization cycles. In the case of the handpiece from W&H, we recommend you to have a regular service carried out after 500 sterilization cycles or one year.





## **Repair**

If a defect occurs, always return all the equipment, due to the fact that with handpiece malfunctions, an inspection of the electronic controls is also necessary!

## **Returns**

- > Refer all questions to an authorized W&H service partner (see page 44).
- > Always return equipment in the original packaging!

## 19. Technical data

	PB-200	PB-200 LED
<b>Control unit</b>		
Voltage:	24-27V 	24-27V 
Rated current:	max 1,200mA	max 1,200mA
Permitted voltage fluctuation:	±10%	±10%
Max. power output to the handpiece with load (ultrasonic):	10W	10W
Frequency (ultrasonic):	27-32KHz	27-32KHz
Fuse:	LF T 1.5A SMD in the unit	LF T 1.5A SMD in the unit
Operating mode:	S6 (5min/2min)	S6 (5min/2min)
Max. oscillating amplitude (Tip 1U):	0.2 mm	0.2 mm
Max. water pressure:	6 bar	6 bar
Max. coolant supply volume:	*ca. 50ml/min	*ca. 50ml/min
Dimensions in mm (WxDxH):	164 x 170 x 77	164 x 170 x 77
Weight:	460 g	460 g
*adjustable		
<b>Switch-mode power supply</b>		
Input:	100-240V 47-63Hz 0.9-0.34A	100-240V 47-63Hz 0.9-0.34A
Output:	24-27V  1.25-1.11A	24-27V  1.25-1.11A

## Technical data

### Ambient conditions

Temperature during storage and transport:	-40 °C to +70 °C (-40 °F to +158 °F)
Air humidity during storage and transport:	8 % to 80 % (relative), non-condensing
Temperature in operation:	+10 °C to +35 °C (+50 °F to +95 °F)
Air humidity in operation:	15 % to 80 % (relative), non-condensing

Pollution level:	2
Overvoltage category:	II
Altitude:	up to 3,000 m above sea level

### Temperature information

Temperature of the handpiece at the operator side:	max. 55 °C (131 °F)
Temperature of the handpiece at the patient side (front area of the handpiece):	max. 48 °C (118.4 °F)
Temperature of the handpiece at the patient side (LED ring):	max. 48 °C (118.4 °F)
Temperature of the working part (tip):	max. 41 °C (105.8 °F)



## Technical data

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**Classification according to Paragraph 5 of the General Specifications for the Safety of Medical Electrical Equipment according to IEC 60601-1/UL 60601-1**



Type B applied part (not suitable for intracardiac application)



The C-NF foot control is protected against drops of water falling vertically (IPX1 as per IEC 60529)

## 20. Disposal

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Ensure that the parts are not contaminated on disposal.



Follow your local and country-specific laws, directives, standards and guidelines for disposal.

- > Waste electrical equipment
- > Accessories and spare parts
- > Packaging

# Explanation of warranty terms

This W&H product has been manufactured with great care by highly qualified specialists. A wide variety of tests and controls guarantee 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 the 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 (tips, tip changers, coolant hose, coolant filter, nozzle cleaner, O-rings, adaptor kit) 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 supplier or to an authorized W&H service partner. The provision of service under warranty extends neither the warranty period nor any other guarantee period.

# 24 months warranty

## Authorized W&H service partner

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Find you nearest W&H service partner at <http://wh.com>

Simply go to the menu option »Service« for full details. Alternatively please contact:

**W&H (UK) LIMITED**, 6 Stroud Wood Business Centre, Park Street, St Albans, Herts AL2 2NJ, United Kingdom  
t + 44 1727 874990, f + 44 1727 874628, E-Mail: [technical.uk@wh.com](mailto:technical.uk@wh.com)

**W&H Impex Inc.**, 6490 Hawthorne Drive, Windsor, Ontario, N8T 1J9, Canada  
t + 1 800 2656277, + 1 519 9446739, f + 1 519 9746121, E-Mail: [service.ca@wh.com](mailto:service.ca@wh.com)

**W&H Impex Inc.**, 14300 Henn Rd., Dearborn, MI 48126, USA  
t + 1 800 2656277, + 1 519 9446739, f + 1 519 9746121, E-Mail: [service.us@wh.com](mailto:service.us@wh.com)

**W&H AUSTRIA GMBH**, Ignaz-Glaser-Straße 53, A-5111 Bürmoos,  
t +43 6274 6236-239, f +43 6274 6236-890, E-Mail: [office.at@wh.com](mailto:office.at@wh.com)

**A-DEC AUSTRALIA CO. INC.**, Unit 8, 5-9 Ricketty Street, Mascot NWS 2020, Australia  
t + 61 2 83324000, f + 61 2 83324099, E-Mail: [a-dec@a-dec.com.au](mailto:a-dec@a-dec.com.au)



**Manufacturer**

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**Form-Nr. 50787 AEN**  
**Rev. 005 / 06.11.2017**  
**Subject to alterations**

