

# SWERV<sup>3</sup><sub>TM</sub>

## MAGNETOSTRICTIVE SCALER

User Manual • Benutzerhandbuch • Manuel de l'utilisateur • Manuale per l'utente  
Manual del Usuario • Manual do Usuário • ユーザーマニュアル

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**Hu-Friedy**<sup>®</sup>

## TECHNICAL DATA (SPECIFICATION)

Model	UM3000
Classification EN 60601-1	Class I device
Classification 93/42 EEC	Class IIa
Mode of Operation	Continuous operation
Power Source	AC 100-240V 50/60Hz
Power Consumption	90VA
Water Pressure	0.1–0.5Mpa (15–73 psi)
Ultrasonic Specifications Maximum output Frequency	30 Watts 25kHz, 30kHz
Dimensions in inches (WxDxH)	6.8 x 8.9 x 3.8
Weight	3 lbs (control unit)
Fuses	5x20mm 1.6A / 250V FA
Operating Conditions	15°–40° C (59°–104° F) 10-85% relative humidity 500-1060hPa (7–15 psi)
Storage and Transport Conditions	-10°–+60° C (14°–140° F) 10-85% relative humidity 500–1060hPa (7–15 psi)

## INTRODUCTION

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Thank you for purchasing the Hu-Friedy Swerv<sup>3</sup> Magnetostrictive Scaler. Caution: Federal law restricts this device to sale by or on the order of a licensed dental professional. This device generates ultrasonic vibrations intended for ultrasonic procedures: 1.) General Supra and Subgingival scaling applications; 2.) Periodontal debridement for non-surgical treatment of Periodontal diseases. Read this operation manual carefully before use and retain for reference.

## CONTRAINDICATIONS

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The Hu-Friedy Swerv Magnetostrictive Scaler should not be used in surgical, endodontic procedures or for restorative dental procedures involving the condensation of amalgam.

## PRODUCT FEATURES AND BENEFITS

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- Compact, lightweight device.
- Two color-coded selectable and adjustable pre-defined power modes for a variety of scaling procedures.
- Easy to read digital display for trouble-free operation.
- Lightweight handpiece with soft, textured silicone grip for clinical comfort.
- Durable, lightweight handpiece cord to minimize hand fatigue.
- Easy to clean design to minimize the risk of cross-contamination.

## COMPONENT PARTS

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1. Control Unit
2. Handpiece
3. Foot Control
4. AC Power Cord
5. Water Supply Set
6. Tip Wear Guide
7. Additional Water Filter
8. Literature
9. Handpiece Barrier Sleeves
10. Swivel Ultrasonic Insert



## SYMBOLS AND GENERAL SAFETY



Attention, consult accompanying documents



Risk of damage or harm



Type B applied part



CE marking: Refers to directive 93/42 EEC, including EN 60601-1 and EN 60601-1-2



Foot Control



Optional Variable Power Foot Control



Water Connection



Purge



Dispose of this device and its accessories via methods approved for electronic devices and in compliance with the Directive 2002/96/CE



Medical equipment with respect to electrical shock, fire and mechanical hazards only in accordance with UL 60601-1, CAN/CSA C22.2 NO 601.1



Keep Dry



This Way Up



Handle With Care

## SAFETY INSTRUCTIONS FOR HANDLING AND OPERATION

Read these instructions carefully and use only as intended or instructed. Safety instructions are intended to avoid potential hazards that could result in personal injury or damage to the device.

	DEGREE OF RISK
<b>WARNING</b>	A hazard that could result in bodily injury or damage to the device if safety instructions are not followed.
<b>CAUTION</b>	A hazard that could result in light or moderate bodily injury or damage to the device if the safety instructions are not followed.
<b>NOTICE</b>	General information needed to operate the device safely.

### WARNING

- To avoid electrical shock, do not plug or unplug the power cord with wet hands.
- To minimize risk of short circuit and electric shock; prevent water from contacting the control unit.
- Subjecting handpiece to a strong impact or drop onto a hard surface could result in electric shock.
- Do not disassemble or alter the handpiece.
- Keep away from explosive substances and flammable materials.
- Do not use this product in the presence of inflammable anesthetics or gases.
- Although literature suggests that interference to cardiac pacemakers, defibrillators, and other active implanted medical devices by magnetostrictive scalers is unlikely, general precaution should be taken by keeping the handpiece and cables 10-15cm away from any device and its leads. Clinicians should contact the patient's physician or the device manufacturer for specific recommendations. This unit complies with IEC 60601 medical device standards.
- Do not use for surgical procedures.
- Patients should rinse with an antimicrobial such as Chlorhexidine Gluconate 0.12% prior to beginning treatment. Rinsing with an antimicrobial reduces the number of microorganisms released in the form of aerosols during treatment, as well as the chance of infection.
- Use recommended fuse: 5x20mm 1.6A/250V FA.
- Confirm water is flowing adequately from the insert tip. Insufficient water flow to the insert tip could result in excess heat to the insert tip, leading to hard and soft tissue damage or overheating and potential damage to the handpiece and unit. Static contact with hard and soft tissue areas should not exceed one second duration.

**CAUTION**

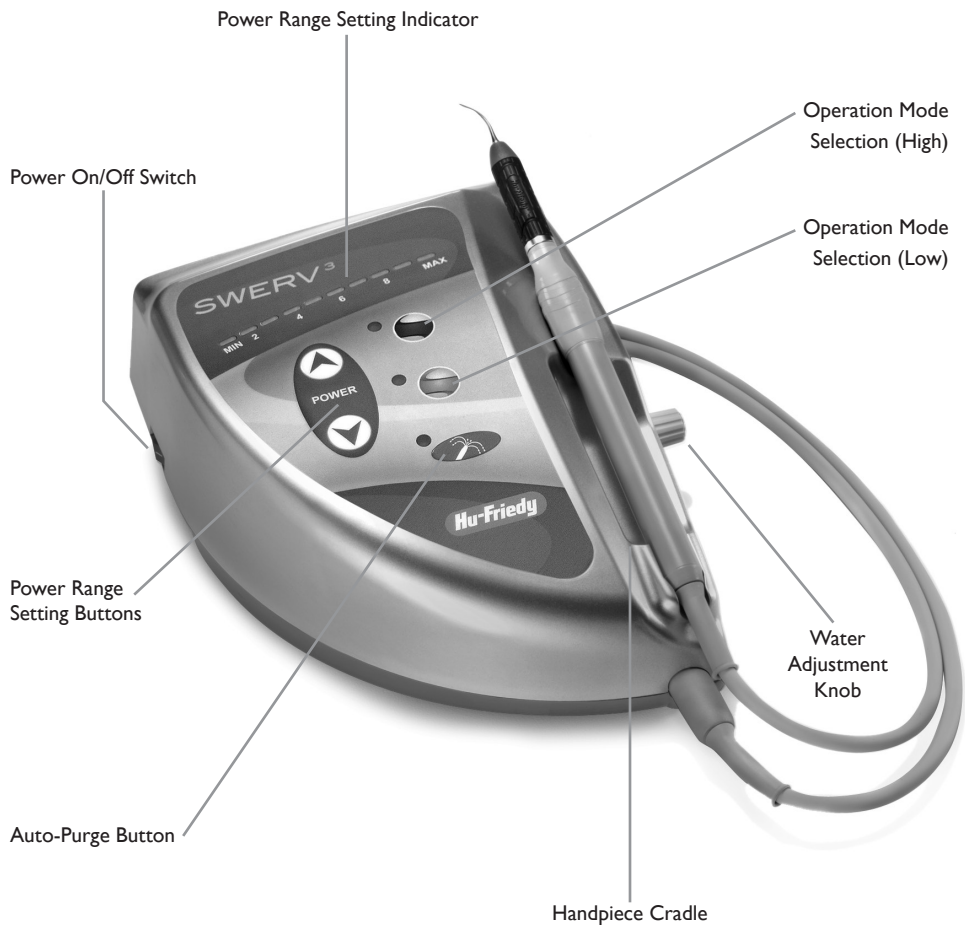
- The handpiece is designed for clinical dental use only.
- Always consider the safety of the patient when operating the handpiece.
- Check insert vibration outside the oral cavity before use. If any irregularities are found, discontinue use immediately and contact your dealer.
- Do not force or pull on the power cord and/or handpiece cord. It could cause disconnection.
- Do not exceed recommended power ranges for the inserts. Excess power may damage tooth structure and/or result in damage to or excess wear of the insert.
- Check the insert before every use. Inserts that have been bent, altered, worn or compromised in any way should be removed from service.
- Do not use inserts on metal or ceramic restorations, unless inserts are intended specifically for this purpose.
- Do not bend, alter or modify inserts. Damage may occur to the inserts affecting ultrasonic vibration.
- To eliminate risk of damage to the soft and hard tissues keep the insert tip moving at all times when in contact with the tooth, gingiva, mucosa and intra-oral tissues.
- Attach the handpiece before turning on the power.
- Do not drop or otherwise expose the control unit to excess trauma.
- For best performance, use Hu-Friedy® ultrasonic inserts.
- Do not autoclave any parts unless indicated so in the User Manual.
- The system functions normally when the temperature is at 15°–40°C (59°–104°F), relative humidity at 10–85% RH, atmospheric pressure at 500–1060hPa (7–15psi) and no moisture condensation occurs in the unit. Use outside of these conditions may cause malfunction.
- Retract lips, cheeks and tongue to prevent contact with the working end of the insert.

**NOTICE**

- During vibration, the handpiece and the handpiece cord may affect computer and LAN cable. Noise may be heard during operation near a radio receiver.
- Turn off the power switch after use.
- Users are responsible for operation control, maintenance and inspection.
- Store at -10°– +60°C (14°–140°F), relative humidity at 10–85%RH, atmospheric pressure at 500–1060hPa (7–15psi). Do not subject system to dust, sulfur or salinity.
- Contact dealer or Hu-Friedy Mfg. Co., Inc. if problems occur.

## SYSTEM CONTROLS

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# INSTALLATION AND ASSEMBLY

## 1. UNPACKING THE DEVICE

Upon receipt please check device for any damage caused in transit. If necessary, contact your dealer:

## 2. GENERAL RECOMMENDATIONS

Connect the Swerv<sup>3</sup> Magnetostrictive Scaler control unit to electric supply in accordance with current standards.

## 3. WATER SYSTEM SETUP

The water supply system should be of adequate quality for the practice of dental treatment. Additionally, the water supply should be equipped with a cut-off system. See MAINTENANCE OF THE CONTROL UNIT: Water Line Maintenance section of this User Manual.

Connect the filter side of the water tube by inserting deep into the water connector on the back of the Swerv<sup>3</sup> Magnetostrictive Scaler control unit. (Fig. 1)

Connect the provided water tube to the water outlet on the dental unit.

To remove the water tube from the control unit, disconnect the water tube from the water source, then push in the grey ring of the water connector, and gently remove the tube. (Fig. 2)

**CAUTION:** Be sure to insert the water tube deep into the connector on the control unit. If water has not been used recently at the water outlet of the dental unit, discolored water may come out. Wait until the water coming out of the dental unit is clean before connecting to the control unit.

## 4. FOOT CONTROL CONNECTION

Connect the foot control plug to the foot control connector at the back of the control unit. (Fig. 3)

Take care to properly align all the pins. Push the plug gently into the connector.

## 5. POWER CORD CONNECTION

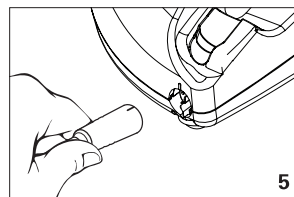
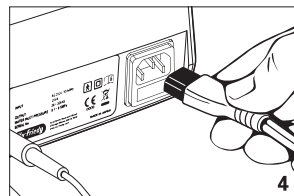
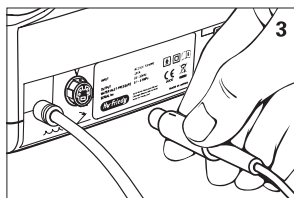
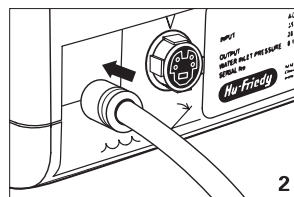
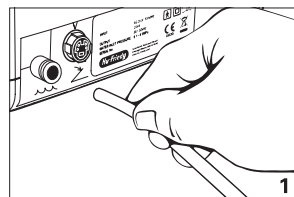
Insert the power cord into the inlet at the back of the control unit. (Fig. 4) Plug the power cord into the power receptacle.

## 6. HANDPIECE CORD CONNECTION

Align the marks on the control unit and the handpiece cord plug. Firmly push the plug into the connector at the front of the control unit. (Fig. 5)

### CAUTION:

1. Do not disconnect the handpiece cord when power to device is switched on and the footswitch is depressed.
2. Detach insert before removing handpiece cord.
3. Grip the plug of the handpiece cord when removing.



## 7. START-UP

The following procedures are recommended before using your Swerv<sup>3</sup> Magnetostrictive Scaler for the first time:

- Clean and sterilize ultrasonic inserts. (See CLEANING AND STERILIZATION section of this User Manual.)
- Always use the proper insert frequency for your Swerv<sup>3</sup> Magnetostrictive Scaler. (See table below for compatibility and see HF-464 for a complete list of Hu-Friedy inserts.)

PART CODE	30 KiloHertz	25 KiloHertz
UM3-30	X	
UM3-30EU	X	
UM3-30UK	X	
UM3-30AU	X	
UM3-25		X
UM3-25EU		X
UM3-25UK		X
UM3-25AU		X

- After installation operate the device at the lowest power setting while applying pressure to the foot control. This procedure will confirm adequate water flow and rinse the internal water lines.
- Purge unit water lines (See Maintenance of the Control Unit).

## OPERATING PROCEDURES

### 1. WATER SYSTEM SETUP

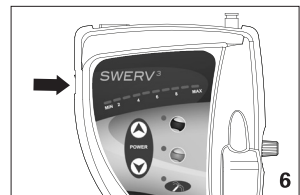
Carefully check all water supply connections prior to start-up. Open the dental unit's water valve. Set water pressure between 0.1-0.5MPa (15-73psi). The CDC recommends monitoring dental unit water regularly. Test water prior to connection to the Swerv<sup>3</sup> Magnetostrictive Scaler to confirm that input water quality conforms to all applicable standards. See MAINTENANCE OF THE CONTROL UNIT: Water Line Maintenance section of this User Manual.

### 2. POWER ON

Connect the power cord to the wall outlet. Turn on the power switch on the control unit. (Fig. 6) Front panel will light up.

**NOTICE:** Each time the control unit is turned on, the system defaults to the low/minimum power setting.

**CAUTION:** Use of any wall outlets other than those of AC120V +/- 10% or AC230V +/- 10% may result in damage to the power cord and control unit.

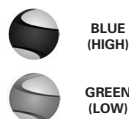




### 3. OPERATION MODE SELECTION

Select the appropriate mode for procedure with the mode selection keys on the front panel. The light adjacent to the selected mode will illuminate.

Pre-select the appropriate power setting prior to patient treatment. Please adjust (if necessary) prior to treatment.



### 4. POWER RANGE SETTING

**⚠ WARNING:** Do not exceed power range as indicated on the insert packaging. Higher than recommended power may damage tooth structure and/or insert.



Set the recommended power mode with the power key on the front panel. The light adjacent to the selected mode will illuminate. Confirm that power is set in the appropriate mode for the selected insert.

MODE	1	2	3	4	5	6	7	8	9	10
BLUE (HIGH)										
GREEN (LOW)										

Adjust power level within selected mode by pressing the  or  buttons to increase or decrease power.

**NOTICE:** To ensure patient comfort and to extend the life of your inserts always use the lowest effective power setting.

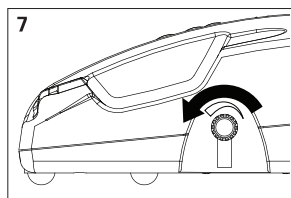
### 5. ULTRASONIC INSERT CONNECTION

Select appropriate kHz insert (25 or 30) for the generator. Fill handpiece with water. While holding the handpiece in an upright position, activate the purge function or the foot control to remove any air bubbles that may be trapped inside the handpiece. Lubricate the rubber o-ring on the sterilized insert with water prior to placing it into the handpiece. Fully seat the insert with a gentle push-twist motion. Do not force the insert into the handpiece.

**⚠ WARNING:** Always use water when operating the unit to keep the handpiece and insert cool. Minimum recommended setting >10 ml/min. Maximum recommended setting < 50 ml/min.

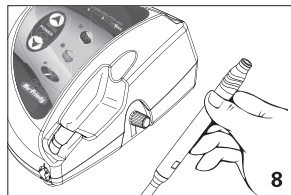
### 6. FOR OPERATION

- Verify that the water supply is adequate and clean prior to beginning each procedure.
- Purge handpiece (See Maintenance for the Control Unit.)
- Use a Hu-Friedy disposable barrier sleeve (UMBS) on the handpiece. Replace the barrier between patients. Properly dispose of the barrier in accordance with guidelines for contaminated waste materials.
- Place insert in handpiece.
- Adjust the power level to the recommended mode.
- Depress the foot control to start insert vibration.
- Turn the water adjustment knob counterclockwise gradually to increase the water flow. (Fig. 7)



### 7. WHEN TREATMENT IS COMPLETED

1. Release the foot control and place the handpiece in the handpiece holder: (Fig. 8)
2. Turn off the power switch.
3. Hold handpiece in upright position. Gently pull the insert out of the handpiece opening. Ultrasonic inserts are easily interchangeable for various applications and procedures.
4. Close the dental unit's water valve.



## SAFETY FEATURES

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1. When the operation mode is set to BLUE Mode and the power setting is set to Max the unit will automatically reduce power if operated at these settings for more than 10 minutes. (The output display reduces from Maximum to Minimum power.) If the safety feature is activated release foot control.
2. The control unit will beep to alert user if the power switch is turned on while the foot control is depressed.
3. When foot control is continuously depressed for 20 minutes or longer; the unit will beep in a continuous tone and power down. Release the footswitch control. Turn the power switch off then back on again.

## CLEANING AND STERILIZATION

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Contents of this package are not provided sterile. The following cleaning and/or sterilization procedures are recommended for the your Hu-Friedy magnetostrictive scaler:

### PROCEDURES FOR CLEANING CONTROL UNIT AND COMPONENTS

1. Turn off the power switch.
2. Remove the insert from the handpiece.
3. Carefully wipe all surfaces of the control unit, handpiece and handpiece cord, power cord, water tube, foot control and cord which are contaminated by touch, contact with instruments or other inanimate objects during dental treatment with a soft cloth using only approved hospital grade surface disinfectants (EPA-registered, VAH / DGHM, RKI approval or CE marked).
4. Always follow the manufacturer's directions for disinfectant use.
5. The use of an abrasive wipe or cleaning solution will damage the surface finish of the control unit.
6. Phenols, iodophors, hypochlorite/household bleach and citric acid based disinfectants are not recommended.

**NOTICE:** The following websites provide additional information on safety and asepsis procedures:  
<http://www.osap.org/indec.cfm> and <http://www.cdc.gov/OralHealth/infectioncontrol/index.htm>

**CAUTION:** Do not sterilize the control unit, power cord, foot control, water tube, irrigation connector; handpiece, or handpiece cable.

### PROCEDURES FOR HU-FRIEDY ULTRASONIC INSERTS (sold separately)

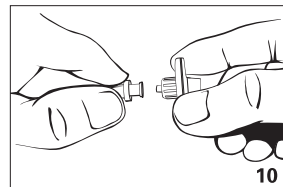
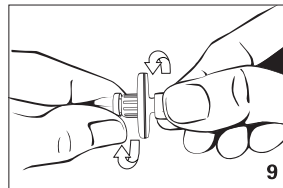
1. Clean, inspect and steam sterilize before each use.
2. For complete instructions refer to cleaning and sterilization instructions provided with the ultrasonic insert.

## MAINTENANCE OF THE CONTROL UNIT

### CHANGING THE WATER FILTER

When the clear plastic water filter becomes discolored, it should be replaced to prevent reduced water flow to the Swerv<sup>3</sup> Magnetostrictive Scaler. Our general recommendation is to change the filter once per month.

1. Disconnect the water supply hose from water source. If a quick-disconnect connector is attached to the end of the hose, relieve the water pressure by pressing the tip of the connector and drain the water.
2. Hold the fittings on both sides of the filter disk and twist counterclockwise. (Fig. 9) Remove the filter section from both sides of the water hose. (Fig. 10)
3. Install the replacement filter (part number: UMWF) onto the water hose fittings. The filter should be positioned to align with the correct hose fitting.
4. Tighten the two hose fittings with your hands. Reconnect the water supply hose, then activate the auto-purge function to remove air from lines. Be sure to test for leaks.



### WATER LINE MAINTENANCE

Recommendations for dental unit water quality have been published by the Centers for Disease Control (CDC) not to exceed 500 cfu/mL\*. European Union Drinking Water Standards specify a maximum of 100 cfu/ml. Refer to your national regulatory authorities for recommendations specific to your local area.

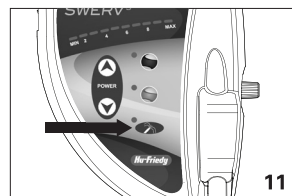
The CDC recommends monitoring dental unit water regularly. Hu-Friedy recommends as a conservative approach to start by testing the quality of the water flowing into and out of the Swerv<sup>3</sup> device prior to placement of a sterilized ultrasonic insert, then monitoring weekly. The monitoring interval may be lengthened based on established results. If results do not meet your water quality goals, repeat steps outlined for preparing your waterlines. Monitoring can be accomplished using in-office monitoring kits or use of a commercial water testing service. (\*ref: "Guidelines for Infection Control in Dental Health-Care Settings 2003," CDC)

It is strongly recommended that this system is regularly cleaned and maintained by a waterline treatment product such as Hu-Friedy's Team Vista™ Dental Unit Waterline Cleaner (or other approved waterline cleaning product). This can be accomplished by connecting the Swerv device to the closed water system on your dental unit or a number of devices available from your local distributor. Please follow the directions for use for Team Vista or selected waterline cleaning product.

During the periodic antimicrobial cleaning process using Team Vista, flush as least 500 ml of potable water through the dental unit waterlines to remove any residual chemical.

### PURGING UNIT WATER LINES

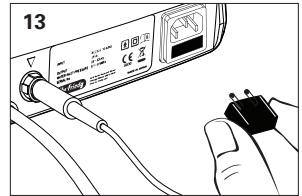
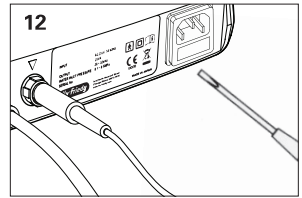
1. Verify that the unit is ON using Power ON/OFF switch.
2. Set the water control knob to maximum.
3. Hold handpiece (without insert) upright over a drain.
4. Press and hold Auto-Purge Button (Fig. 11) for 2 seconds or until unit beeps. Auto-Purge light will flash, and unit will automatically purge the water line for 45 seconds. To interrupt the purge function press the Auto-Purge button again anytime during the 45 seconds. It is recommended that the water lines be purged for at least 45 seconds between patients and for at least 2 minutes at the start of each day.



## REPLACING THE FUSE

1. Disconnect power to the unit.
2. Pry open fuse drawer using flat head screw driver or similar tool. (Fig 12)
3. Remove drawer to change the fuses. (Fig 13)

**⚠ WARNING:** Always use Replacement Fuse: 5 x 20mm  
1.6A/250V FA (part number: UMFUSE)



## SERVICE

Please send your Swerv<sup>3</sup> Magnetostrictive Scaler or handpiece with a copy of the invoice to your dealer or an authorized Hu-Friedy repair center. Shipping your product in its original packaging will offer the best protection against damage during shipping. If sending directly to an authorized Hu-Friedy repair center, please include your name and address, and the name of your dealer. Before shipment all items must be cleaned and sterilized as described in the CLEANING AND STERILIZATION section of this User Manual.

## DISPOSAL AND RECYCLING

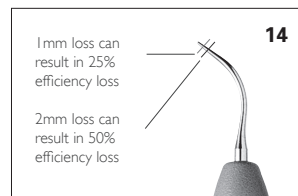
Dispose of this device and its accessories via methods approved for electronic devices and in compliance with the Directive 2002/96/CE. At the end of their life, ultrasonic inserts should be discarded in safety containers designed for this purpose.

## HELPFUL INFORMATION

The use of higher than recommended power settings may cause excessive wear or tip breakage. (See Caution pg. 5)

Always remember to properly seat the insert to the handpiece.

Scaling efficiency can diminish significantly with worn inserts (Fig. 14). Inferior performance and poor water delivery can result from worn, damaged, bent or altered stacks or working ends. For optimal scaling efficiency, we recommend checking inserts regularly for signs of wear.



### CHECKING ULTRASONIC INSERTS FOR WEAR:

1. Locate the diagram of the insert to be measured on the wear guide (HF-466).
2. Rotate the insert until it is flat against the card.
3. Evaluate working end condition, comparing length to red/blue lines.

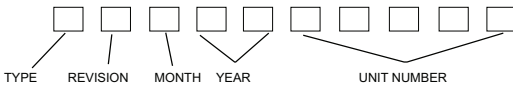
<b>TROUBLESHOOTING</b>		
PROBLEM	CAUSE	SOLUTION
The display panel does not illuminate when the unit is switched on.	The power cord is disconnected.	Check all the connections of the control unit. Check the power supply to the dental office.
	The internal fuse has burned out.	Contact your dealer or Hu-Friedy.
No liquid flowing to the handpiece when the footswitch is activated.	Water flow is set too low.	Adjust the liquid flow water knob.
	Connections are not secure.	Check the connection between the handpiece cord and control unit.
		Check the connection between the water tube and the control unit.
		Check the connection between the foot control and the control unit.
Water filter is blocked.	Check the water filter for blockage.	
No water flow to insert tip	Water adjustment knob is not properly set	Properly set water adjustment knob.
	Insert is clogged.	Contact your dealer or Hu-Friedy.
	Dental office water supply valves are closed.	Open dental office water supply valves.
	Waterline filter is clogged.	Replace waterline filter.
No/poor ultrasonic vibration	The insert is not seated securely in the handpiece.	Check the insert to ensure proper insertion into handpiece.
	Incorrect kHz insert.	Replace with proper kHz insert.
	The insert is worn.	Replace the insert.
	Power has not been properly adjusted for the particular insert.	Adjust the power setting to the recommended power range indicated on the package insert.
	The foot control is disconnected.	Connect the foot control correctly.
	Handpiece failure.	Contact your dealer or Hu-Friedy.
	Foot control failure.	Contact your dealer or Hu-Friedy.

## TROUBLESHOOTING CONTINUED

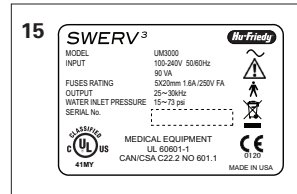
PROBLEM	CAUSE	SOLUTION
Handpiece is overheating	Inadequate water flow.	Increase water flow. Minimum setting (ccw) >10 ml/min.
	Output has not been properly adjusted for the insert.	Lower the power setting to the recommended power mode indicated on the package insert.
	The insert is not seated securely in the handpiece.	Check the insert to ensure proper insertion into handpiece.
	Air in the waterline or handpiece cord.	Purge water line.
	Vibration failure in the handpiece or the control unit.	Contact your dealer or Hu-Friedy.
No/poor water flow	No water is flowing to the control unit.	Check the water line and supply to the control unit. Water pressure should be set to: 0.1-0.5MPa (15-73 PSI)
Water leakage	Water is leaking at the junction of control unit and the handpiece cord.	Firmly insert the handpiece cord into control unit. Internal o-ring is damaged. Contact your dealer or Hu-Friedy.
	Water is leaking at junction of insert and handpiece.	Replace the o-ring with Hu-Friedy Part Number UBLKORING and UGRNORING
	Water appears to be leaking from base of unit.	Confirm water tube and handpiece cord are firmly inserted into control unit.
	Water continues to run out of insert after foot control is released.	Purge water line to remove air.
	Loss of power output without operation.	Safety feature is activated.
Unit is beeping while power is on.	Depressed foot control	Release foot control.
Unit is beeping. Insert not vibrating.	Abnormal heating of the control unit.	Stop operation until control unit is cool. If problem persists, contact your dealer or Hu-Friedy.
Inserts are bending or breaking.	Excess power to the insert.	Operate the insert only in the recommended power mode indicated on the package insert.
	Insert was dropped or mishandled during cleaning and sterilization.	Always process the insert as indicated in insert packaging.
		Discard bent or broken inserts.
The insert deploys from the handpiece	The insert O-ring is damaged or worn.	Replace the o-ring with Hu-Friedy Part Number UBLKORING or UGRNORING

## HELPFUL INFORMATION

The serial number of the Swerv<sup>3</sup> Magnetostrictive Scaler is located on the back of the control unit (Fig. 15). The first five digits of the serial number indicate the type of equipment, its revision, and the month and year it was manufactured.



- Type: 1 = control unit  
2 = handpiece
- Revision record: Shows by alphabet (A~)
- Production month: A~L = (January thru December)
- Year: last 2 digits of production year. (00~99)
- Unit Numbers: Running Numbers (00001~99999)



## GUARANTEE – SWERV<sup>3</sup> MAGNETOSTRICTIVE SCALER

Hu-Friedy, at its sole option, will repair or replace for a period of two years following the date of the first purchase as new item, any Swerv<sup>3</sup> Magnetostrictive Scaler ("Unit") (excluding the handpiece) that fails as a result of a defect in materials or workmanship. Purchaser must return the defective Unit (postage prepaid) and must provide Hu-Friedy with the guarantee registration card or proof of purchase.

Excluded from this guarantee are damages in cases of:

- the Unit having been used outside of normal operating conditions;
- the Unit being damaged in transit;
- the Unit having been modified;
- non-compliance with the manufacturer's installation instructions (water pressure, mains voltage);
- use with an electrical system that does not comply with regulations in force;
- uses other than those specified in this manual;
- non-compliance with instructions contained in this manual;
- service to the Unit being provided by non-authorized persons;
- components exhibiting normal wear from usage;
- damages/defects being caused by force majeure or any other condition that is beyond the control of Hu-Friedy.

Repair service or replacement provided under the guarantee neither extends the guarantee period nor begins new guarantee period. THE EXPRESS WARRANTIES DESCRIBED ABOVE AND ANY APPLICABLE IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, ARE LIMITED AS STATED HEREIN. EXCEPT AS SET FORTH ABOVE, DAMAGES FROM BREACH OF SUCH WARRANTIES ARE LIMITED TO THE COST OR REPLACEMENT, AT HU-FRIEDY'S SOLE OPTION. CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM BREACH OF ANY APPLICABLE EXPRESS OR IMPLIED WARRANTIES ARE HEREBY EXCLUDED.

Please contact Hu-Friedy for instructions on obtaining warranty service.

## SWERV<sup>3</sup> MAGNETOSTRICTIVE SCALER REGISTRATION FORM

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PLEASE COMPLETE AND MAIL THIS FORM TO REGISTER YOUR UNIT.

Purchaser's Name: \_\_\_\_\_

Serial Number: (Located on plate) \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Province: \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_

Country: \_\_\_\_\_

Number of Practitioners In Practice: Dentists \_\_\_\_\_ Hygienists \_\_\_\_\_ Assistants \_\_\_\_\_

Dental Specialty: \_\_\_\_\_

Dealer Name: \_\_\_\_\_

U.S. and Canada:

**Hu-Friedy Magneto Scaler Registration**

Hu-Friedy Mfg. Co., Inc.  
3232 North Rockwell Street  
Chicago, IL 60618  
USA

Europe:

**Hu-Friedy Magneto Scaler Registration**

Hu-Friedy Mfg. B.V.  
European Headquarters & Customer Care Dept.  
P.O. Box 29025  
NL-3001 GA Rotterdam



## **GUARANTEE – SWERV<sup>3</sup> HANDPIECE ASSEMBLY**

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Hu-Friedy, at its sole option, will repair or replace for a period of six months following the date of the first purchase as new item, any Swerv<sup>3</sup> Handpiece Assembly ("Handpiece") that fails as a result of a defect in materials or workmanship. Purchaser must return the defective Handpiece (postage prepaid) and must provide Hu-Friedy with the guarantee registration card or proof of purchase.

Excluded from this guarantee are damages in cases of:

- the Handpiece having been used outside of normal operating conditions;
- the Handpiece being damaged in transit;
- the Handpiece having been modified;
- non-compliance with the manufacturer's installation instructions (water pressure, mains voltage);
- use with an electrical system that does not comply with regulations in force;
- uses other than those specified in this manual;
- non-compliance with instructions contained in this manual;
- service to the Handpiece being provided by non-authorized persons;
- components exhibiting normal wear from usage;
- damages/defects being caused by force majeure or any other condition that is beyond the control of Hu-Friedy.

Repair service or replacement provided under the guarantee neither extends the guarantee period nor begins new guarantee period. THE EXPRESS WARRANTIES DESCRIBED ABOVE AND ANY APPLICABLE IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, ARE LIMITED AS STATED HEREIN. EXCEPT AS SET FORTH ABOVE, DAMAGES FROM BREACH OF SUCH WARRANTIES ARE LIMITED TO THE COST OR REPLACEMENT, AT HU-FRIEDY'S SOLE OPTION. CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM BREACH OF ANY APPLICABLE EXPRESS OR IMPLIED WARRANTIES ARE HEREBY EXCLUDED.

Please contact Hu-Friedy for instructions on obtaining warranty service.