

BioSonic® US200

Ultrasonic Scaler

User Guide:

Troubleshooting, Maintenance, & Repairs

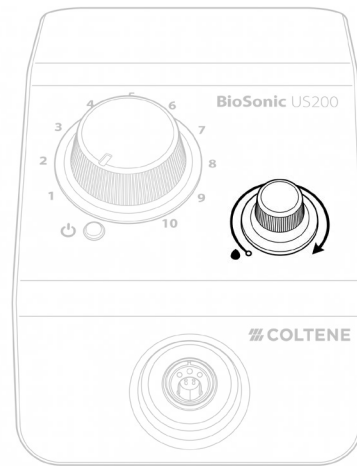


Water Flow Requirements

The BioSonic US200 relies on a consistent water supply to cool the insert and maintain proper cavitation. Insufficient water flow leads to overheating, reduced vibration, and inconsistent performance.

Water Adjustment for Turbo Mode

Turbo Mode increases power output significantly. More power generates more heat, so **water flow must be increased when Turbo Mode is active**. If water flow is not adjusted accordingly, the insert may run hot or vibrate irregularly.

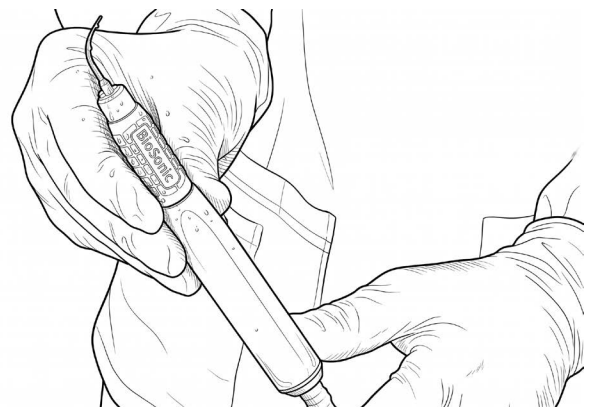


Lubricating Inserts & O-Rings

Before attaching an insert, always fill the handpiece with water first. This initial water flow naturally lubricates the insert's O-rings, ensuring the insert is fully seated, forms a tight seal, and vibrates properly.

A dry O-ring can:

- Bind, tear, or roll
- Cause leaks at the handpiece connection
- Lead to premature wear of both the insert and handpiece

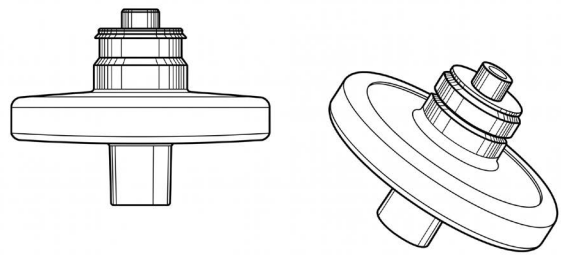


Filters

To ensure proper water flow and protect the US200's internal components, **COLTENE-approved filters must be used**. These filters are specifically designed to match the flow characteristics and micron rating of the system's internal water pathway.

Using incompatible filters can restrict flow, lead to inconsistent performance, and allow debris to clog the system.

We recommend inspecting your filters monthly and replacing as needed. If your office uses a bottle system or municipal water, it's critical your filters are replaced on schedule. Sediment buildup restricts flow, stresses the handpiece and internal components, and can corrode the solenoid valve.



Water Filter Replacement Kit, 10 pcs

Part Number: 60036144

Flushing Water Lines

To prevent biofilm buildup and keep internal channels clear, **flush your US200 with water for 2 minutes at the start of the day and for 30 seconds between patients**. In addition, we recommended you **flush with air at the end of the day to inhibit mold growth**.

Insert Cleaning & Maintenance

After each use, rinse inserts thoroughly, scrub off debris, and sterilize according to manufacturer guidelines. **Avoid abrasive cleaners** as they can damage the stack and reduce efficiency.

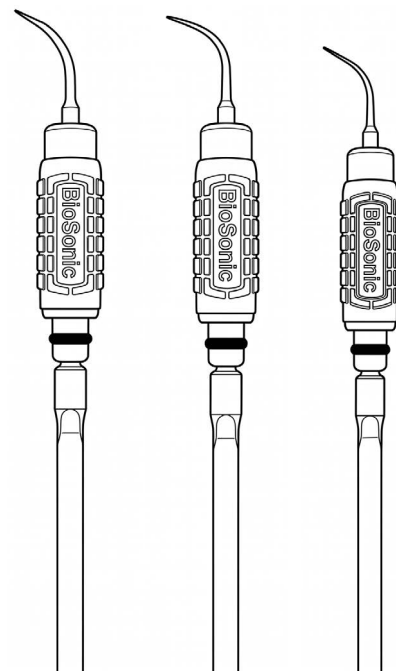
Consumable Lifespan

Replace inserts per manufacturer recommendations. Excessive wear directly affects performance, water delivery, and patient comfort. Adhering to the insert manufacturer's replacement schedule will help keep your US200 performing optimally while minimizing strain on the unit.

Insert Recommendations

Use the correct insert for different types of procedures:

- **General scaling:** Universal inserts
- **Perio:** Slimline inserts
- **Heavy calculus:** Power inserts



Turbo Mode Duty Cycle

The US200's Turbo Mode should be used within the specified duty cycle: **4 minutes ON followed by 1.5 minutes OFF**. Because Turbo Mode increases power output and heat generation, this mode should be used in short bursts within the 4-minute operating window, and then the unit should be allowed to cool during the 1.5 minute rest period. Exceeding the duty cycle may result in reduced performance, overheating, or automatic thermal shutdown.

Troubleshooting: Start with the Basics

Most issues can be resolved by following these simple steps:

1

Verify water supply

2

Inspect O-rings

3

Test with an insert you know is in good working order

4

Check power settings

5

Listen for abnormal vibration

6

Inspect filters

RMA Process

If your US200 still isn't functioning correctly after thorough troubleshooting, service may be required. Contact your service provider to obtain an RMA number. Document the issue (include the serial number and list all troubleshooting steps performed).

Need additional help?

Check out our step-by-step instructional video.

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