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# Ultrasonic Instruments And Devices

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In ultrasonic dental devices with a piezoelectric transducer, an alternating electrical current is applied across a ceramic or quartz disk (Figure 3.9). In response to the alternating application of current, the crystalline structure alternately expands then contracts, producing vibrations that result in high-frequency oscillation of the tip (Laird and Walmsley, 1991) (Figure 3.10).

### **Sonic & ultrasonic instruments**

The ultrasonic humidifier, one type of nebulizer (a device that creates a very fine spray), is a popular type of humidifier. It works by vibrating a metal plate at ultrasonic frequencies to nebulize (sometimes incorrectly called "atomize") the water. Because the water is not heated for evaporation, it produces a cool mist. The ultrasonic pressure waves nebulize not only the water but also materials in the water including calcium, other minerals, viruses, fungi, bacteria,

### **Ultrasound - Wikipedia**

Ultrasonic scaling instruments oscillate (move forward and backward) a typically blunt metal tip at a high-frequency producing mechanical vibratory, cavitation and acoustic microstreaming forces that remove/disrupt the deposits. (Walmsley et al., 1984; Khambay and Walmsley, 1999). Sound is a form of energy produced by vibrations.

### **3: What is ultrasonic instrumentation? | Pocket Dentistry**

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### **[C8M7] Ultrasonic Instruments and Devices #RJ5SUPKMWYB # ...**

The device contains a remote unit for magnetic mechanical washing, an ultrasonic bath for pre-cleaning treatment, and a container for ozone sterilization with a reactor based on dielectric barrier discharge. The maximum ozone concentration in water reached 8.5 mg/l for 10 min of operation at a water temperature of 19 °C.

### **Portable ozone sterilization device with mechanical and ...**

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