Ultrasonic versus Sonic Scalers

To the end user there are two obvious differences between sonic and ultrasonic scalers. Clinically the ultrasonic scalers have superior power to remove deposits from the tooth surface. Sonic scalers are better suited for the patients that have their teeth cleaned on a regular basis and do not tend to have the hardened deposits on their teeth often found in the patient seen less frequently. The other big difference is price. The ultrasonic scalers average three to four times more than the cost of a sonic scaler.

Ultrasonic scalers fall into two categories, magnetostrictive, and piezoelectric:

Magnetostrictive creates an elliptical or linear tip movement of 25,000 to 35,000 cycles per second by magnetically changing the dimension of the tip’s metal stack. Significant heat is generated so the water requirement is for both cooling the stack and tip as well as providing the desired rinsing action on the tooth surface being cleaned.

Piezoelectric systems apply electrical energy to a crystal that creates a linear tip movement of 25,000 to 40,000 cycles per second. Almost no heat is generated so less water is required as it is only needed for the desired rinsing action.

Both scalers provide excellent gross calculus removal. Clinically, the difference between the tip and handle designs are more notable than the power differential.

A sonic scaler is normally used on a standard handpiece tubing as their power is generated by compressed air. The elliptical tip movement is between 2,000 to 6,000 cycles per second and is adequate for less tenacious deposit removal.

In the busy practice the ultrasonic scalers are much more popular and offer a wide variety of tip selections.
Piezo Ultrasonic Scaler, Built-in

This unit has the unique feature of Auto Gain Control (AGC) which adjusts and stabilizes the power requirements automatically. The LCD digital display allows the user to view the functions and power setting being used.

- Brand name quality and performance
- Complete with installation kit and power supply
- Autoclavable handpiece and four tips included
- Piezo = less heat = less coolant = better visibility
- Maximum deposit and biofilm removal

Piezo Ultrasonic Scalers offer less noise, lower heat generation and may be used effectively with a light touch. Effective on all tooth surfaces with any stroke motion.

SPECIAL INTRODUCTORY OFFER for the month of AUGUST!

$875.00
a full $100 reduction off the MSRP of $975.00

Check out www.dentalparts.com for new items, 24/7 online ordering and access to the Download Center.
25 kHz Magnetorestrictive Ultrasonic Scaler, Built-in

This unit has the unique feature of Auto Gain Control (AGC) which adjusts and stabilizes the power requirements automatically. The LCD digital display allows the user to view the functions and power setting being used.

SPECIAL INTRODUCTORY OFFER for the month of August!

$875.00
a full $100 reduction off the MSRP of $975.00

Inserts for Ultrasonic Scaler Units

Inserts for 25kHz
C-2156 25kHz P-10 Universal External Flow Insert MSRP $58.00
C-2157 25kHz IF-50 Universal P-10 Insert MSRP $58.00
C-2158 25kHz PS-100 Slim Line No.100 IF Insert MSRP $58.00

Inserts for 30kHz
C-2159 30kHz P-10 Universal External Flow Insert MSRP $58.00
C-2160 30kHz IF-50 Universal P-10 Insert MSRP $58.00
C-2161 30kHz PS-100 Slim Line No.100 IF Insert MSRP $58.00