

55-09 Cavitron SPS Ultrasonic Scaler (Project 97-27) (9/98)

The Cavitron Sustained Performance System (SPS) is a new magnetostrictive scaler from Dentsply/Cavitron that is purported to offer a balance between scaling efficiency and patient comfort. Dentsply claims that the balance is maintained through increased scaling effectiveness at lower power settings. The scaler also features "The Blue Zone", an extended lower power range for subgingival scaling that provides a temporary power boost. The unit is also available with a Cavitron Jet air polishing system (Cavitron Jet with SPS Technology) which incorporates both the SPS scaler and a sodium bicarbonate jet abrasive polishing system. The Cavitron SPS scaler comes with one 30k insert, one Steri-Mate detachable sterilizable handpiece, and a corded foot pedal. The Cavitron SPS measures 4 inches high by 9.5 inches long by 7.3 inches wide and weighs 12 pounds. The scaler is configured for 115 volts and is UL listed and CE marked.



As an option, the unit can be equipped with the DualSelect Dispensing System for the delivery of medicaments or clean water through ultrasonic systems. The DualSelect comes with two 500-mL dispensing bottles and features a selection knob to choose the desired bottle. This dispensing system uses a closed water line to utilize clean fluids from the dispenser bottles. An infection control protocol is provided by the manufacturer that specifies how to maintain the integrity of the system. The DualSelect Dispensing System measures 10.25 inches high by 9 inches long by 8 inches wide and weighs 4.2 pounds.

Manufacturer:

Dentsply/Cavitron
PO Box 7807
York, PA 17404-0807
(800) 347-7412
(717) 767-8501
(717) 767-8266 FAX
VA Contract # V797P-3095K

Suggested Retail Price:

\$1,525.00 Cavitron SPS scaler (Item #80560) with 30k insert, Steri-Mate detachable sterilizable handpiece, corded foot pedal, and instructions.
\$3,495.00 Cavitron Jet with SPS Technology (Item #80656) with 30k insert, air polishing nozzle, four packets Prophy Jet cleaning powder, corded foot pedal, and instructions.
\$395.00 DualSelect Dispensing System (Item #80528)
\$61.55 DualSelect Accessory Pack (Item #80529)
\$30.80 DualSelect Disinfectant Bottle (Item #80530)

Government Price:

\$976.36 Cavitron SPS scaler (Item #80560, same contents as above).
\$2,283.11 Cavitron Jet with SPS Technology (Item #80656, same contents as above).
\$225.97 DualSelect Dispensing System (Item #80528)
\$40.20 DualSelect Accessory Pack (Item #80529)
\$20.10 DualSelect Disinfectant Bottle (Item #80530)

ADVANTAGES:

- + Is easy to use.
- + Provides excellent calculus removal.
- + Comfortable for sensitive patients.
- + Autoclavable handpiece.
- + Optional DualSelect provides separate water system for scaler.
- + Attractive design and smooth finish facilitates asepsis.
- + Power adjustment controls well placed.
- + Features laminated quick-reference cards for infection control protocol and insert efficiency indicators.
- + Complete and clear operating, installation, and maintenance instructions.
- + Meets all electrical safety standards as outlined in AFI 41-201 and 41-203.
- + Is UL listed and CE marked.
- + Full 2-year warranty on parts (Cavitron SPS), Full 1-year warranty on parts (DualSelect).

DISADVANTAGES:

- Placement of on/off switch is less than ideal.
- Evaluators noted that moving both the cavitron and dispensing system together may be awkward when connected for patient care.
- Unit shield on DualSelect may close abruptly, resulting in minor injury to fingers during bottle placement or removal.

SUMMARY AND CONCLUSIONS:

The Cavitron SPS is a magnetorestrictive scaler that is easy to use for dental prophylaxis procedures. The simple, modern design of the unit facilitates established infection control procedures such as disinfection and barrier protection. Operating, installation, and maintenance instructions were complete and easy to follow. Providers liked the placement of the power adjustment controls and the ease of the foot control operation. Evaluators judged the location of the on/off switch (located on the underside of the unit) to be less than ideal. Laboratory evaluators found that the unit shield on the DualSelect may close abruptly, resulting in minor injury to fingers holding the unit base during bottle placement or removal and recommend a caution statement be placed in the operator's manual. The Cavitron SPS met all electrical safety standards of AFI 41-201 and 41-203. All nine clinical evaluators rated the Cavitron SPS and DualSelect Dispensing System as "Good" or "Excellent." The **Cavitron SPS** Ultrasonic Scaler is rated **Recommended** for use by the federal dental services.