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66-09 Cavitron Select SPS (Project 01-42) (9/02)

The Cavitron Select SPS (CSS) is a portable ultrasonic scaling unit manufactured by Dentsply/Professional. It is an upgraded version of the Cavitron Select unit that was previously evaluated by DIS (see DIS 63-11). The CSS has a 350-mL, self-contained water reservoir powered by an internal pump. The unit produces a frequency of 30,000 cycles per second (30 kHz), which is in the reported optimal frequency range of most ultrasonic scalers. Upgraded features to this model are listed in the following table.



Feature	Purported Benefit
Sustained Performance (SPS)	maintains the unit's power level when the insert tip encounters tenacious calculus
Blue Zone Setting (an extended low power range)	provides greater patient comfort during subgingival scaling
Foot Control Power Boost	enables user to temporarily increase power output without touching the unit
Sterilizable Handpiece	enhances infection control
Magnetic Handpiece Holder	securely retains handpiece between uses
Lavage Flow Control	allows for easy and convenient adjustment of the tip's water output rate

The unit is shipped with the following items: 1) foot control; 2) handpiece attachment; 3) water line; 4) AC power cord; 5) universal power supply; and 6) instruction manual. Note that the standard CSS comes without the reservoir bottle and pump; the reservoir bottle and pump must be purchased separately. With reservoir bottle and water, the CSS is 11½" L x 3" W x 4" H.

Manufacturer:

Dentsply/Professional
 1301 Smile Way
 York, PA 17404
 (800) 989-8826 (ext 8632)
 (800) 278-4344 FAX
 www.dentsply.com

Prices:

Item	Suggested Retail Price	Government Price
Cavitron Select SPS (part number 90264)	\$1,858.50	\$1,213.39
Reservoir and pump (part number 90146)	\$410.95	\$268.49
Reservoir bottle (part number 90148)	\$23.70	\$15.53

ADVANTAGES:

- + Power boost feature worked very well.
- + Highly rated for comfort by patients.
- + Produced very little heat during operation.
- + Minimal noise is produced at handpiece tip.
- + Can be connected to a dedicated dental unit water supply, if desired.
- + Compact, light, and very portable.
- + Provided with an effective waterline disinfection protocol.
- + Handpiece insert is sterilizable.
- + Reservoir can be autoclaved.
- + Handpiece is very light.
- + Good tactile sensitivity.
- + Accommodates the use of different irrigation solutions.
- + Logical placement of operational controls.
- + Smooth finish facilitates asepsis.
- + Very easy to set up.
- + Easily identifiable water control adjustment is located on the end of handpiece.
- + Magnetic handpiece holder on unit allows easy placement and retention of handpiece.
- + Full two-year warranty.

DISADVANTAGES:

- Weight of unit may not prevent it dislodgment from stand or counter top.
- Noise level of integral pump may be annoying.
- Water reservoir may be inadequate for lengthy patient appointments.
- Handpiece water line hose and foot control cord are too short.

SUMMARY AND CONCLUSIONS:

The Dentsply Cavitron Select SPS (CSS) is an upgraded version of the Cavitron Select with several advanced features. It earned high ratings from the clinical evaluators who appreciated its ease of use, power, and comfort. Its ability to use irrigation from either its self-contained reservoir or from the dental unit water supply enables the unit to be used in dental treatment rooms, operating room theater, and in the field. One clinical evaluator was so impressed with the CSS that his clinic purchased two units after the evaluation. The CSS is one of the few units for which the manufacturer provides an effective waterline disinfection protocol. The few disadvantages noted during its evaluation were a somewhat objectionable noise level from the reservoir pump, short cords, and the potential for the unit to be dislodged from the treatment stand or countertop. The **Dentsply Cavitron Select SPS** is rated **Recommended** for use by the federal dental services.