

**Cavitron® JET Plus™ Ultrasonic Scaler and Air Polishing Prophylaxis System (Project 06-013) (6/07)**



The Cavitron® JET Plus™ from Dentsply Professional is a compact, portable, combination magnetostrictive ultrasonic scaler and air polishing prophylaxis unit. It is microprocessor controlled, producing a frequency of 30,000 cycles per second (30 kHz) in the scaling mode, which is reported to be the optimal frequency for most ultrasonic scalers. In the air polishing mode, the JET insert tip delivers a precise air/water/powder mix that polishes teeth without having to come into direct contact with them. Building on previous Cavitron® technology, the unit's features include the patented Sustained Performance System™ (SPS) technology that automatically adjusts system power when the scaler tip encounters tenacious calculus. This eliminates the need for the user to manually boost the scaler's power output for efficiency. The traditional "Blue Zone" setting, which identifies the power ranges most comfortable to patients for subgingival scaling, has been expanded for more accurate power control. The Cavitron® JET Plus™ has a new 360° wireless foot control with a working range of nine feet that features a "Boost Mode," which increases the unit's power by 25% for removal of tenacious calculus. The foot control uses two "AA" batteries and has an auxiliary cable option. An automatic purge function flushes the water system for two minutes with the touch of a button, and the power level control can easily be switched to a rinse mode, helping the clinician irrigate debris in the work area. A new illuminated "Diagnostic Display" panel continuously displays the unit's status and alerts the clinician to any set-up problem or internal system error code. The 30K™ "Jet-Mate" detachable sterilizable handpiece has a 330° rotational swivel that reduces cable drag, and a lavage (water-flow) control is incorporated into the base of the handpiece, allowing direct water adjustment. A built-in air polishing powder chamber enables the clinician to switch from scaling to air polishing simply by changing handpiece inserts. Electrical requirements are 100–240VAC, single-phase 50/60Hz 1 amp. The unit weighs 4 pounds and is 6"H x 9½"W x 8"D. The unit has a two-year warranty, with a six-month warranty for the handpiece.



**Manufacturer:**  
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 (717) 767-8250 FAX  
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**Suggested Retail Price:**

\$4,714.00	Cavitron® JET Plus™ (item number 8170001) Includes: Cavitron® JET Plus™, 1 30K™ Insert (delivered after return of warranty card), 1 Air Polishing Nozzle, 1 Jet-Mate Handpiece with Swivel, 1 Bottle of PROPHY JET Prophy Powder, 1 Bottle of JET-Fresh Prophy Powder (sodium-free), Cordless Foot Control, Auxiliary Cable for Foot Control, 4-pack of "AA" Batteries,
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Instruction Manual, MSDS, and  
DENTSPLY Professional Insert  
Efficiency Indicator

\$240.00	Accessories
	Single-pack Jet-Mate Handpiece with Swivel (Item # 8170201)
\$580.00	Three-pack Jet-Mate Handpiece with Swivel (Item # 8170203)
\$116.00–\$431.00 each	Inserts (30 different types are available)

**Government Price:**

\$3,071.60	Cavitron® JET Plus™ (item number and contents as listed above)
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\$156.39	Accessories
	Single-pack Jet-Mate Handpiece with Swivel (Item # 8170201)
\$377.94	Three-pack Jet-Mate Handpiece with Swivel (Item # 8170203)
\$75.19–\$280.09 each	Inserts (30 different types are available)

**ADVANTAGES:**

- + Combination ultrasonic scaler/air polishing unit
- + Only one handpiece needed for scaling and air polishing
- + Handpiece senses insert and automatically selects scaling or air polishing mode
- + Handpiece is sterilizable
- + Accepts all Cavitron® 30K™ ultrasonic inserts and Cavitron® JET air polishing inserts
- + Lavage (water-flow) control is conveniently located at base of handpiece
- + Informative diagnostic display continuously reports unit status
- + Offers 360° wireless foot control
- + Purge control enhances maintenance by automatically purging system for two minutes
- + Easy to assemble, operate, and maintain

**DISADVANTAGES:**

- Ultrasonic handpiece insert not included; delivered only after return of included warranty card
- Handpiece may not stay securely in handpiece holder when barrier-protected

**SUMMARY AND CONCLUSIONS:**

The Cavitron® JET Plus™ Ultrasonic Scaler and Air Polishing Prophylaxis System is a portable microprocessor-controlled combination ultrasonic scaler and air polishing unit. Its features include a built-in powder chamber, sterilizable multi-use ergonomically-designed handpiece with 330° swivel feature, and 360° wireless foot control. Evaluators appreciated its many functions and uniformly rated it highly in all categories of design, use, convenience, and ease of maintenance. Users appreciated the ergonomic handpiece's light weight and soft nozzle grip, and they found it convenient to have the water-flow control located at the base of the handpiece. The USAF Guidelines for Infection Control in Dentistry require that all handpieces and other intraoral instruments that can be removed from the air and waterlines of dental units be heat sterilized between patients. Therefore, facilities may need to purchase additional handpieces and inserts to meet this requirement. The **Cavitron® JET Plus™ Ultrasonic Scaler & Air Polishing Prophylaxis System** is rated **Excellent** for use in US Air Force dental facilities.