

A-dec 533 Continental Dental Unit (Project 04-21B) (6/05)

A-dec recently introduced the 500 series dental delivery system, stating it provides better ergonomics and more flexibility than any other delivery system. The chair-mounted model uses a rotating-arm system that can be easily converted for right or left-handed use. The A-dec 533 is a Continental delivery system that positions the handpiece hoses over the control head in a European or buggy-whip fashion. The control



head and flexible tubing are said to be ergonomic and to provide increased range of motion. The control head can accept additional handpieces, scalers, curing lights, electric micromotors and an intraoral camera. The corrosion-resistant control block is advertised to be A-dec's simplest, most trouble-free control block yet. The deluxe touchpad can be programmed for two operators simultaneously and, upon removal of an instrument from the bracket head, displays the status and other operating parameters. The assistant touchpad provides secondary control of the chair, light, and accessory functions. The self-contained 2-liter water bottle can be mounted either on the delivery arm or inside the optional support center. The A-dec 533 electrical power is dependent on the A-dec 511 dental chair, which can be ordered as either 120VAC 50/60 HZ or 240VAC 50/60HZ.

Manufacturer:

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Suggested Retail Price:

A-dec 533 Continental delivery unit with standard touchpad: \$7,6500.00
A-dec 533 Continental delivery unit with deluxe touchpad: \$8, 350.00
A-dec 551 Assistants instrumentation arm: \$1330.00 (P/N 77.0315.00)

Government Price:

A-dec 533 Continental delivery unit with standard touchpad: \$3,953.30
A-dec 533 Continental delivery unit with deluxe touchpad: \$4,315.04
A-dec 551 Assistants instrumentation arm: \$687.31 (P/N 77.0315.00)

ADVANTAGES:

- + Performed reliably during the course of this evaluation
- + Solid construction
- + Internal tubing is color-coded for ease of assembly and service
- + Deluxe touchpad allows integration of electric handpiece, scaler, curing light, and camera
- + Deluxe touchpad allows dual provider programming
- + Self-contained water system has a 2-liter capacity

DISADVANTAGES:

- Expensive
- Continental-style (buggy-whip) hoses not well accepted by evaluators
- Deluxe touchpad may seem complex

- Air pressure gauge located under control head cover
- Can only be used with A-dec 500 series chair

SUMMARY AND CONCLUSIONS:

The A-dec 533 dental unit is esthetic with smooth contours and displayed consistent and reliable function throughout the course of the evaluation. It is constructed solidly and integrates sleek design with high technology. The unit allows convenient left-to-right conversion, has easily accessible water adjustments for handpieces, and features easy-access to internal components. Evaluators felt the continental-style (buggy-whip) handpiece hoses on this delivery system were too short and difficult to adapt to. Three out of six clinical evaluators rated it average or below and would not recommend its purchase, preferring the Traditional handpiece delivery system to the Continental. The **A-dec 533 chair-mounted dental unit** is rated **Acceptable** for use in US Air Force dental facilities.