

GALAXY DENTAL DELIVERY UNIT (DENTALEZ)



The DentalEZ Galaxy dental unit is an over-the-patient dental unit that is designed to integrate with the DentalEZ line of dental chairs. Available with either Traditional or Euro-style delivery system configurations, the optional integrated chair touch-pad controls on the doctor's and assistant's side of the control-head allow the doctor and assistant easy access to the chair controls. An optional built-in electric handpiece with LED display/controls integrated into the control-head provides an alternative to air-driven handpieces. Externally adjustable individual handpiece coolant water control knobs are touted by the manufacturer to provide easy adjustment or shut off of coolant water. A stainless-steel tray and pad come standard, with a swivel tray as an option. This unit is equipped with a self-contained water system. This delivery unit was previously evaluated by DECS in 2004 as project 04-019. The clinical evaluations were conducted by four clinicians all of which were endodontists at Naval Dental Clinic in Great Lakes, IL. The re-evaluation of the chair will determine if the manufacturer's updates and improvements to the delivery unit since the last evaluation have made significant differences for providers in the clinical setting. As such this delivery unit should be evaluated to provide our customers with updated product information.



Manufacturer:

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Suggested Retail Price:

Galaxy Traditional	\$6,300.00	(P/N 3655-313G)
Galaxy Euro	\$6,890.00	(P/N 3655-313E)

Government Price:

Galaxy Traditional	\$2,646.00	(P/N 3655-313G)
Galaxy Euro	\$2,893.80	(P/N 3655-313E)

ADVANTAGES:

- + Unit has four standard handpiece holders and 2 static holders.
- + Unit allows for optional electric Handpiece motor with touchscreen control panel mounted directly to the control head.
- + Master On/Off toggle underneath unit in front bottom left corner.
- + Chair and Light control touch pads on left and right-hand sides of the control panel.
- + Handpiece air pressure gauge visible on the top/front of the control panel.
- + Handpiece air/water pressure easily adjustable.
- + Rear hinge flip-up design allows for easy access to the internal area of the unit for troubleshooting.
- + Control blocks for handpieces and ancillary instruments are conveniently located internally of unit head.
- + Water bottle is more than adequate for normal daily patient load.
- + Ability to integrate an intraoral camera.
- + Ability to integrate a piezo scaler.
- + Ability to integrate a curing light.
- + Available in Euro style.
- + Available in Fixed Chair Mount or Magellan L/R version.
- + Swing-out tray option for traditional delivery head, standard on Euro-style delivery head.
- + Single toggle handpiece flush for all handpieces simultaneously.

DISADVANTAGES:

- On/off indicator was still not included on the unit.
- Clinical evaluators found the control head difficult to position.
- Left handed clinical evaluators did not like the arm-brake on the right-hand side of control head.
- Arm-brake didn't provide enough resistance to keep the bracket arm/control head in one position.
- Handpiece holders are fixed; cannot be adjusted up/down.

SUMMARY AND CONCLUSIONS:

The DentalEZ Galaxy Dental Delivery Unit performed as indicated by the manufacturer. The DentalEZ Galaxy chair-mounted dental unit met the laboratory testing requirements of ANSI/ADA Specification 47. The new design was found to be of smooth, solid construction that was both esthetic and more practical than the previous version. Asepsis was easier to maintain with the new smooth design. The unit still allows convenient left-to-right conversion, with easily accessible water and air adjustments for handpieces underneath the control head. The hinged access cover/panel provides easy access to internal components. Exposed surfaces continued to withstand repeated exposure to disinfectants without any observable deterioration of function or esthetics. The touchpad on both sides of the control-head is appreciated by providers, but preferred an air-brake release to be available on both sides. The hydraulic arm-brake system did not completely lock the arm from moving with some force. The hydraulic arm-brake system design has been replaced by a 'ratcheting arm system' that would help alleviate any type of accidental movement. Still, the dental unit performed reliably and as designed. The Galaxy dental unit is a competitively-priced dental delivery unit and is rated **Excellent** for use by in USAF dental facilities.