

P & C 1587 Ellipse Hygiene Delivery Unit (Project 05-38) (6/06)



The Pelton & Crane Model 1587 Ellipse Hygiene delivery unit is a left-right convertible delivery unit specifically designed for use by hygienists and prophylaxis technicians. The control-head and dental light are on rotating arms that can be easily repositioned around the toe of the chair for left or right-handed operators. The control-head supports two handpieces, an ultrasonic scaler, high and low-speed evacuation, and a 3-way air-water syringe. Accordingly, there is no auxiliary assistant's instrumentation arm. The control-head comes with a stainless-steel tray and non-skid pad. The unit has a self-contained water system and can also connect to city-water. It requires 115/230 VAC, 50/60 Hz, and has a five-year warranty.



Manufacturer:

Pelton & Crane
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Charlotte, NC 28273
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(704) 587-7204 FAX
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Suggested Retail Price:

\$4,715.00 Model 1587 Ellipse Hygiene delivery unit, without fiberoptics (item # 1587)
\$475.00 Touchpad, control-head mounted (item # 04200)

Government Price:

\$2,464.00 Model 1587 Ellipse Hygiene delivery unit, without fiberoptics (item # 1587)
\$248.00 Touchpad, control-head mounted (item # 04200)

ADVANTAGES:

- + All instrumentation located at one location on control-head
- + Left/right convertibility provides flexibility
- + Stable and secure instrument holders
- + Option of adding integrated ultrasonic scaler, mounted at control-head
- + Solid construction with adequately sealed surface finish
- + Performed reliably throughout evaluation
- + Competitively-priced since assistant's instrumentation-arm and fiberoptics not necessary
- + Self-contained water system easy to use
- + Autoclavable HVE and LVE assembly
- + Optional multi-positional tray
- + 5-year warranty on parts

DISADVANTAGES:

- Lack of assistant's instrumentation-arm provides less flexibility for use by the dental team
- Master on/off switch not in readily noticeable location, and with no visible "on" indicator
- Solids collector in close proximity to electrical connections
- Standard hose length for HVE/LVE may be too short for some users
- Power control for optional integrated ultrasonic scaler difficult to access on underside of unit
- Lowest chair position one inch higher compared to non-left/right-convertible Pelton & Crane units
- Saliva ejector assembly tip can be inadvertently thrown away with saliva ejector

SUMMARY AND CONCLUSIONS:

The Pelton & Crane 1587 Ellipse Hygiene delivery unit is a left/right convertible unit, designed for use by hygienists, with the HVE, LVE, and 3-way syringe located on the instrument holder-bar of the control-head. There is no assistant's-instrumentation arm. The unit was evaluated with a Pelton & Crane 3004 dental chair and a Suprasson Newtron ultrasonic scaler. It has straightforward instruction manuals, is easily assembled, appears solidly constructed, and is designed to provide good access for assembly, repairs, and maintenance. Clinical evaluators found the control-head to be easily positioned and appreciated all instrumentation being together in one location. They found the left to right conversion of the unit to be easily accomplished. All evaluators felt the handpiece/instrument holders were stable and easy to use. Some evaluators stated the 48" hose lengths were too short, however longer hoses are available upon request. The solids collector is located inside the control-head near electrical components, although there were no problems noted during the evaluation. All evaluators rated the delivery unit "average" or better, with one evaluator rating it "excellent". The **1587 Ellipse Hygiene delivery unit** functioned reliably throughout the evaluation and is rated **Acceptable** for use in US Air Force dental facilities.