

52-26 ProPak II Portable Unit and ProAir I Portable Compressor (Project 96-72) (10/97)

The ProPak II Portable Delivery Unit and ProAir I Portable Compressor by DNTLworks are designed to be used as a portable system for general dental procedures. The system is lightweight, compact, and easily transported in two hard-plastic cases (modules). The ProPak II Unit module measures 18 inches by 14 inches by 7.5 inches and weighs 18 pounds. Assembly is quick and simple, aided by a pictorial illustration on the interior of the unit's case lid. Due to space limitations, the color-coded location and labeling of the unit controls are included on the pictorial illustration. The unit is supplied with two non-fiberoptic handpiece connections, a foot control with wet/dry toggle switch, air/water syringe, handpiece selector switch, air and water coolant adjustment knobs, and separate water system with handpiece flush. The air-venturi suction is designed to provide high-volume evacuation. A low-volume evacuation hose is provided as an accessory that is connected to the high- volume hose. Operators must choose to use either high- or low-volume evacuation, but cannot use both at the same time. The second module contains the oil-less air compressor with 1-liter air storage tank. The compressor module measures 21.9 inches by 18 inches by 8.4 inches and weighs 48 pounds. The compressor can be configured for either 110 or 220 volts.



Manufacturer:

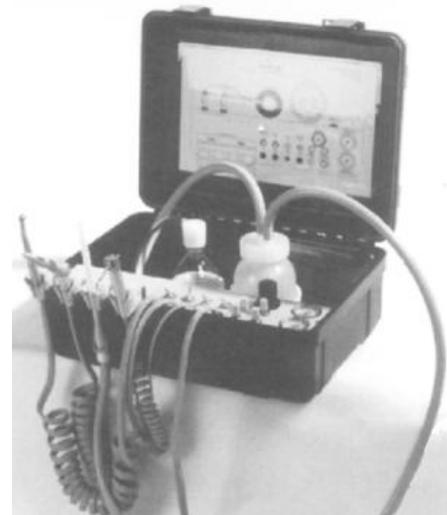
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Suggested Retail Price:

ProPak II Portable Delivery Unit \$1350.00
ProAir I Portable Compressor \$1310.00
System \$2660.00

Government Price:

ProPak II Portable Delivery Unit \$1015.00
ProAir I Portable Compressor \$ 980.00
System \$1995.00



ADVANTAGES:

- + Lightweight, compact, and easy to assemble.
- + Packaged in two easily-transported hard-plastic cases.
- + Entire system weighs only 66 pounds.
- + Unit controls are easy to understand and use.
- + Clinical evaluators felt operating instructions were complete and easy to understand.
- + Noise level of 65 dB meets military specification of 75 dB or less.
- + Waste canister easy to remove and clean.

DISADVANTAGES:

- Accessory duplex box located near compressor impeller creates safety hazard.
- Oral evacuation system does not meet minimal specifications for suction performance.
- High- and low-volume suction cannot be used at the same time.
- Vacuum activation requires manual use of toggle switch.
- Fiberoptic handpiece lighting system is not standard.
- Water reservoir and waste canister lack sufficient volume.

- No written protocol for waterline disinfection.
- Waste canister lacks solids collector.
- Clinical evaluators reported the handpiece hoses did not reach all areas of the oral cavity.
- Clinical evaluators reported the compressor was noisy.
- Service manual does not include illustrated parts breakdown.
- System must be configured for either 110 or 220 volts; not operator switchable.
- Compressor case must be open to access the duplex outlet.

SUMMARY AND CONCLUSIONS:

The ProPak II Portable Delivery Unit and ProAir I Portable Compressor by DNTLworks is designed to provide portability for basic dental procedures. The unit and compressor met all electrical safety tests and met the specifications for size and weight. A 110/115-volt duplex electrical outlet is provided to power accessory equipment such as an amalgamator or curing light, however, it is located in such close proximity to the compressor that operator injury is possible. The oral evacuation system did not meet minimum performance standards as tested in the DIS laboratory. Operators cannot use high- and low-volume suction simultaneously. Although the ProAir I Portable Compressor met the military specification of less than 75 decibels, it was faulted by clinical evaluators for excessive noise. The system failed to meet a substantial number of applicable items on the DIS Portable/Field Unit Checklist. The **ProPak II Portable Delivery Unit and ProAir I Portable Compressor** by DNTLworks is rated **Marginal** for use by the federal dental services.