

ASI Model 2020 Self-contained Dental Cart (Project 05-18) (11/05)

The ASI Self-contained Dental Cart (model 2020) is a mobile dental unit designed for rear-delivery. It accommodates a fiberoptic high-speed handpiece, low-speed handpiece, high-volume evacuation, low-volume evacuation, 3-way air/water syringe, electric handpiece and ultrasonic scaler. ASI offers numerous configurations to include an optional assistant arm and arm-mounted tray with swivel. The cart is said to be made of high-grade aluminum sheet metal with a baked-on powder coat. It has a 1/2 hp oil-less air compressor and a 1/3 hp vacuum pump with vacuum levels adjustable from 5-20 Hg. Its self-contained water system utilizes two 1-liter bottles. The waste tank can be emptied with the use of a purging system that ejects the waste through a 12 waste-purge tube, avoiding the need to remove the waste receptacle daily. The 2020 has an amalgam separator/waste tank, which according to ASI, should be replaced annually. ASI states the cart measures 31.5H x18W x 21.0 - 24.5D, weighs 125 lbs, and requires 110/220 VAC and 50/60 Hz.



Manufacturer:

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Suggested Retail Price:

\$6,450.00 Model 2020 Self-contained Dental Cart (item # 90-2020)
\$245.00 Optional Arm-Mounted Tray with Swivel (item # 90-2746)
\$475.00 Optional Assistant Arm (item # 90-2352)

Government Price:

\$4,515.00 Model 2020 Self-contained Dental Cart (item # 90-2020)
\$171.50 Optional Arm-Mounted Tray with Swivel (item # 90-2746)
\$332.50 Optional Assistant Arm (item # 90-2352)

ADVANTAGES:

- + Easy to set up and operate
- + Manufacturers instructions thorough and easy to understand
- + Unit functioned reliably during the evaluation
- + Available in 110/220 VAC
- + Dual-bottle, self-contained water system of adequate volume, easy to use and maintain
- + Waste reservoir has 12 self-purging drain line, making daily reservoir removal unnecessary
- + Suction/evacuation system powered by dedicated 1/3 hp vacuum pump
- + High-volume and low-volume evacuation appeared adequate for routine dental procedures
- + Clinical-users reported unobjectionable sound level
- + Multiple configurations available
- + Optional assistant arm and side-mounted bracket tray available
- + Less expensive than other portable, deployable dental units

DISADVANTAGES:

- Customized storage/shipping case not available for purchase from ASI
- Rear-delivery mode may require adjustment period
- Hose length may not suit all clinical-users

SUMMARY AND CONCLUSIONS:

The ASI Model 2020 Self-contained Dental Cart is a mobile dental unit designed for rear-delivery, with a 1/2 hp air compressor and 1/3 hp dedicated vacuum pump. It was evaluated to determine its potential as a deployable dental unit. Configured with high-speed/low-speed handpiece, HVE (high-volume evacuation), LVE (low-volume evacuation), and 3-way syringe, it weighed 132 lbs. and occupied 11.4 cubic feet. ASI does not fabricate a custom shipping case for this unit. The stock shipping case weighed 50 lbs. and was 16.7 cubic feet. HVE airflow measured 5.3 standard cubic feet per minute and clinical evaluators found the suction to be adequate for all dental procedures. Evaluators stated the system was easy to set up, easy to use, and they appreciated the low noise-level. They found the self-contained water system easy to use, of adequate size, and easy to maintain. Most evaluators did not prefer the rear-delivery mode inherent with this type of cart, however, ASI offers an optional assistant arm and side-mounted bracket tray that may alleviate these concerns. The **ASI Model 2020 Self-contained Dental Cart**, if purchased with an appropriate custom-made shipping case, is rated **Excellent** for providing sustained dental care in a deployed location.