

**SUGGESTIONS FOR WRITING BID SPECIFICATIONS ON THE
CLARKE VANTAGE 14 BATTERY OPERATED MICRO SCRUBBER**

GENERAL	Machine shall be of the type generally described as an “automatic”. It shall wet scrub and vacuum in one pass. Machine shall operate at 12 Volts with one standard 87 amp hour gel (maintenance-free) battery. Shall be equipped with an onboard automatic battery charger.
PAD/BRUSH MOTOR	Shall be one, heavy-duty, 12 Volt, permanent magnet DC motor rated at 1/3 horsepower (260 Watt).
VACUUM MOTOR	Shall be one – 0.27 horsepower (200 Watt), moisture-proof, 2-stage with tangential discharge and sound reduction muffler. Vacuum shall have a minimum of 53 CFM and 27 inches (690 mm) H ₂ O of sealed waterlift.
PROPELLING	Propulsion must be pad/brush assist.
CONSTRUCTION	Chassis and tanks shall be roto-molded polyethylene.
SOLUTION TANK	Shall be a minimum of 3 gallon (11.35 L) capacity, and removable from the main chassis. Must be constructed of linear high-density roto-molded polyethylene. Tank must also have a removable sealed cap.
SOLUTION CONTROL	Shall be an electric pump feed system with two settings that can be controlled from the operator’s handle position. Low: 0.066 gal/min (0.025 L/min) High: 0.132 gal/min (0.5 L/min)
RECOVERY TANK	Shall have 3 gallon capacity. Tank must be constructed of linear high-density roto-molded polyethylene. Shall have a shut-off float assembly to prevent moisture, foam and liquid from entering the vacuum motor. Tank must be completely removable without tools for service.
BRUSH/PAD	Shall have one 14 inch brush/pad to cover a 14 inch scrubbing swath. A variety of brushes shall be available for any cleaning application. Brushes and pad holders shall be removable without tools, with standard “Click-on” hands-free brush attachment system.
BRUSH/PAD PRESSURE	Shall be 60 pounds of consistent pressure throughout the entire cleaning cycle. The scrub deck shall be free floating to float with the contours of the floor.
SCRUB DECK	Shall be free floating with an integrated squeegee that has the ability to vacuum up water in forward and reverse. Deck shall have the ability to rotate under the machine while the scrubber is in use.
BRUSH/PAD SPEED	Shall have a nominal speed of 120 rpm.

CONTROLS	<p>Shall be simple and intuitive. All controls shall be accessible while the machine is in the operating position.</p> <p>There shall be one turn style knob that allows a user to choose from four settings:</p> <ul style="list-style-type: none"> • Off • Scrub and pick-up (water, vacuum, and brush) • Scrub only (water and brush) • Vacuum only (no water or brush) <p>All controls shall be illustrated symbolically (without the use of a specific language).</p>
WHEELS	<p>Front: Shall have three caster, non-marking transport wheels that assist the free floating scrub deck. Rear: Shall have two 9 inch (22.8 cm) non-marking rubber wheels.</p>
SQUEEGEE	<p>Shall consist of one 19 inch fully integrated squeegee that is attached to the scrub deck. Squeegee must also be curved so that it allows for forward and reverse pick-up. Shall be removable without the use of tools and shall have geometry such that they can only be installed one way to assure simple and proper maintenance.</p>
DIMENSIONS	<p>Machine must have an adjustable handle that will allow the machine to not exceed 28 inches length; 17 inches width; 18.5 inches height (to the top of the folded handle). Handle adjustable.</p>
WEIGHT	<p>Shall be no more than 146 pounds.</p>
HANDLE	<p>Shall be fully adjustable with locking position for height, ergonomically designed for comfortable operation.</p>
APPROVALS	<p>Shall meet or exceed worldwide safety and electrical approvals (ETL, CSA, CE).</p>
SOUND LEVEL	<p>Shall be no more than 64 dB A at the operator's position.</p>

THE MACHINE SHALL BE A CLARKE VANTAGE 14.