

## SUGGESTIONS FOR WRITING BID SPECIFICATIONS FOR ADVANCE ES4000

56344201 ES4000 420 SC 56344204 ES4000 312 AGM OBC

<b>GENERAL</b>	Machine shall be a three wheel battery-powered ride on carpet extractor. It shall have the ability to have two extraction modes, a pre-spray mode and the ability to dry sweep the carpet.
<b>CLEANING PATH</b>	Shall be have a 28 inch (71 cm) cleaning path. Two 28 inch (71 cm) counter rotating, cylindrical brushes. Front brush shall have a diameter of 5.75 inches (14.6 cm) rear brush shall have a diameter of 4.0 inches (10.2 cm). Brushes shall be manufactured with anti-microbial fibers.
<b>SOUND LEVEL</b>	Sound pressure level shall not exceed 65 dB A when measured in accordance with IEC 60704-1
<b>APPROVALS</b>	Machine shall have the following approvals <ul style="list-style-type: none"><li>• Carpet and Rug Institute Seal of Approval (CRI SOA)</li><li>• cETLus</li></ul>
<b>DETERGENT SYSTEM</b>	Machine shall have a standard onboard detergent dispensing system utilizing a 1.25 gallon (4 L) refillable cartridge that allows the use of any manufacturers' detergent, operates at all available flow rates, and allows the quick interchange of multiple detergent cartridges for varied cleaning applications.
<b>OPERATING SYSTEM</b>	Machine shall have true One-Touch™ cleaning using a single button to start and stop all carpet cleaning functions.  Machine shall have four pre-calibrated solution flow and machine speed settings for interim, restorative, pre-treat and dry sweep operation modes.
<b>SOLUTION SYSTEM</b>	Solution shall be applied to the carpet surface in restorative mode and pre-treat mode, to the front brush in interim mode and to the misting chamber in dry sweep mode.  The four solution flow rates shall not exceed: <ul style="list-style-type: none"><li>• 0.3 gal/min (1.1 L/min) interim mode</li><li>• 0.8 gal/min (3.0 L/min) restorative mode</li><li>• 0.9 gal/min (3.4 L/min) pre-treat mode</li><li>• 0.1 gal/min (0.4 L/min) dry sweep mode</li></ul>
<b>SOLUTION TANK</b>	Machine shall have a graphical display on the operators control panel that clearly shows how much solution is remaining in the tank. Display shall show when the tank is full, $\frac{3}{4}$ full, $\frac{1}{2}$ full, $\frac{1}{4}$ full and empty. Shall have a minimum capacity of 28 gallons (106 L) and be constructed of roto-molded polyethylene.

<b>RECOVERY TANK</b>	Shall have a minimum gross capacity of 28 gallons (106 L) and be constructed of roto-molded polyethylene. Shall have a debris catch cage installed at the inlet to the tank. Shall require no tools to lift off the recovery tank for service.
<b>VACUUM MOTORS</b>	Machine shall operate with two motors in parallel. Each vacuum motor shall be not less than 0.75 hp (560 Watts) 3-stage generating a total sealed waterlift of 67 inches H <sub>2</sub> O (15.7 kPa) and 90 cfm.
<b>VACUUM SHOES</b>	Shall have dual 16 in (40.6 cm) pivoting laminar flow shoes. Shall be controlled by gas shocks that apply 45 lb (20 kg) of down pressure. Shall automatically lift if machine is in transport, dry sweep or pre-treat modes.
<b>POWER SOURCE</b>	Machine shall be powered by four, 6 Volt industrial deep cycle batteries of not less than 420 amp hours for wet batteries, 312 amp hours for AGM maintenance-free batteries.
<b>BATTERY CHARGING</b>	Machine shall be available with either a stand alone shelf charger for wet acid batteries or an onboard charger compatible with maintenance-free gel or AGM batteries.
<b>DRIVE SYSTEM</b>	<p>Shall have one 1.05 hp (780 Watt) drive motor with integrate electromagnetic brake. Shall use a non-marking high traction urethane tire 9.84 inches (25 cm) in diameter with a width of 3.15 inches (80 cm).</p> <p>Forward transport speed shall not be less than 3.91 mph (6.30 kph). Reverse speed shall not be less than 2.61 mph (4.2 kph) The dry sweep mode speed shall be set at 80% of transport speed. Interim mode speed is to be set at 100 ft/min, restorative mode speed is to be set at 50 ft/min and pre-treat mode speed is to be set at 150 ft/min.</p>
<b>BRUSH MOTORS</b>	Brush motors shall be not less than 0.5 hp (373 Watts) and rotate at 900 RPMs.
<b>DISPLAY</b>	<p>Machine shall have a display which shows:</p> <ul style="list-style-type: none"> <li>• The level of the solution tank</li> <li>• Hour meter</li> <li>• Battery discharge status</li> <li>• Chemical dilution ratio (if so equipped)</li> <li>• Chemical on/off status (if so equipped)</li> <li>• Complete troubleshooting diagnostics codes showing any overloads, shorts and open circuits</li> </ul>
<b>GRADEABILITY</b>	Shall be a minimum of 16% (9 <sup>0</sup> ) for transport mode and 9% (5 <sup>0</sup> ) in cleaning mode.

**MACHINE SHALL BE AN ADVANCE ES4000**