

SUGGESTIONS FOR WRITING BID SPECIFICATIONS ON THE ADVANCE SC450

GENERAL	<p>Machine shall be the type generally described as an “automatic,” Advance SC450, or equal. It shall wet scrub and vacuum in one pass.</p> <p>It shall have an onboard charger system as standard.</p> <p>The SC450 shall have a 20 inch rotary disc scrub deck.</p>
SMART SOLUTIONS™	<p>Machine shall be equipped with Smart Solutions™ water calibration system.</p>
BRUSH MOTOR	<p>Shall have one, heavy-duty, 24 Volt, permanent magnet DC motor rated at 0.64 horsepower (480 Watt).</p>
VACUUM MOTOR	<p>Shall be a 24 Volt, 0.44 horsepower (330 Watt), 2-stage, DC motor with tangential discharge and with a quick change modular design and sound reduction system such that it yields no more pressure at the operator’s ear than 65.8 decibels. Vacuum system must be capable of 44 inches of waterlift at 54 cubic feet per minute.</p>
DRIVE SYSTEM	<p>Propulsion must be pad/brush assist. Machine must be equipped with two knobs that control the pitch and yaw of the scrub deck to allow the operator to adjust the appropriate level of ‘assistance’ and corresponding straight line tracking of the machine.</p>
CONSTRUCTION	<p>Shall be built with corrosion and impact-resistant polyethylene tanks and a sturdy steel frame with a minimum corrosion protection of powder coated steel.</p>
ELECTRICAL	<p>All electrical control devices and the charger must be contained behind a water resistant panel.</p>
SOLUTION TANK	<p>Shall have 10.5 gallon (40 L) capacity, constructed of linear high-density rotationally molded polyethylene. Shall have a front fill port and be capable of installing an optional remote hose filling kit capable of filling the machine from most any faucet.</p> <p>Solution tank shall also have a sight gage with graduations clearly marked on it. Sight gage shall also function as the solution drain hose.</p>
SOLUTION CONTROL	<p>Solution shall be an electronic pulsing solenoid gravity-feed system through an in-line filter. Flow rate can be regulated from the Smart Solutions™ setting of 0.15 gallons per minute (0.55 L) to 0.3 gallons per minute (1.1 L). Shall have an automatic solution shut off in neutral.</p> <p>Must have Smart Solutions™ or equivalent; an engineered pre-calibrated flow rate designed for highly productive and environmentally responsible scrubbing that is capable of efficiently cleaning the majority of floor types and average soil levels in the industry. By using this setting the productivity per tankful must exceed 60 minutes of run time.</p>
RECOVERY TANK	<p>Shall have 10.5 gallon (40 L) capacity, constructed of linear high-density rotationally molded polyethylene, with float shut-off system to prevent tank overflow, and variable-flow control drain hose.</p> <p>Shall have a cover that can be removed without tools for cleaning. Recovery tank must have a large enough opening that allows an operator to inspect and access all of the geometry in the recovery tank for proper cleaning.</p> <p>Tank must hinge open to allow full access to the batteries and to ease service to the deck and solution system.</p>

BRUSH/PAD SYSTEM	<p>Shall include one 20 inch (50.8 cm) brush/pad to cover a 20 inch (50.8 cm) scrubbing path.</p> <p>A pad holder, as well as a variety of brushes shall be available for any cleaning application. A tools free removable skirt must come standard with the machine. Brush shall be put on without tools or by using "Click-On" functionality.</p>
BRUSH PRESSURE	Shall have one brush pressure setting capable of producing 66 lb (30 kg) of pressure.
BRUSH SPEED	Shall be 154 rpm.
SOUND LEVEL	Shall be 68 dB A @ operators position.
SQUEEGEE	<p>Shall be a curved or parabolic style squeegee with 4 sided wiping blades and a center-pivot mounting that raises/lowers mechanically. Squeegee mounting bracket must have a "break away" design to prevent damage in the event that it contacts an immovable object. Shall not require tools to remove assembly or to flip/replace squeegee blades.</p> <p>Squeegee width shall be 29.9 inches (75.9 cm).</p>
WHEELS	All wheels should be constructed of a non-marking compound and have sealed bearing construction.
HANDLE	Shall have an ergonomic, wrap around handle for operator comfort.
DIMENSIONS	Machine dimensions shall be no larger than follows (L x W x H): 46.2 x 22 x 38.6 inches (1,174 mm x 559 mm x 980 mm)
POWER SOURCE	<p>24 Volt System: Shall have the option of two 12 Volt / 105 amp hour wet-acid batteries or two 12 Volt/98 amp hour maintenance-free gel batteries.</p> <p>Machine shall be equipped with a low voltage cutout feature that can be set for the battery type (80% discharge for wet-acid; 70% discharge for maintenance-free gel).</p>
CHARGER	Shall have an onboard charger as standard equipment. 24 VDC, 13 Amps.
WEIGHT	<p>Shall be no more than the following:</p> <p>Machine only 167 lb (76 kg); Machine with batteries 314 lb (142 kg)</p>
APPROVALS	Shall meet or exceed worldwide safety and electrical approvals (ETL, CSA, CE)

The Machine Shall Be an Advance SC450