

SUGGESTIONS FOR WRITING BID SPECIFICATIONS ON THE CLARKE MA10™ 12E

GENERAL	Machine shall be the type generally described as an upright automatic floor scrubber and named Clarke MA10 12E. It shall wet, scrub and vacuum in one pass – leaving the floor clean, dry, and safe.
MOTOR	Shall be equipped with one motor rated at 700 Watts, 6.1 amp, 1-stage bypass motor, 120 V/60Hz.
VACUUM PERFORMANCE	Machine shall be capable of up to 72 in H ₂ O (180 mBar) and 33.9 CFM (16 L/sec).
SCRUB SYSTEM	Shall be 12.2 in (31 cm), cylindrical dual ball-bearing mounted brush operating at 2,100 revolutions per minute (RPM). Brush shall be easy to remove without the use of tools. Shall be driven by toothed timing belts to the motor via clutch mechanism to protect belts against brush blockage. Shall not require brush height adjustment to permit use of machine on all types of commercial soft and hard flooring.
SQUEEGEE SYSTEM	Shall have two squeegees on opposite sides of the cylindrical brush to allow for recovery in both a forward and backward operation. Squeegee blades shall be made of thermoplastic elastomer - TPE. Removal of squeegee blades shall be tools free and installation shall be confirmed by an audible “click” informing the operator they are installed correctly.
CONSTRUCTION	Shall be built with polypropylene and a sturdy, corrosion resistant aluminum frame. Machine shall have access points for easy clean out and access. Machine shall be able to operate fully when it's retracted 90 degrees/parallel to the floor. Machine shall have a foot activated lever to raise and lower the squeegees into the machine allowing for extra agitation of the brush and solution. Machine shall have access on top of squeegee blades to help with removing clogs and cleaning out the machine after use.
SOLUTION TANK	Shall have 0.8 gallon (3 L) capacity, constructed of polypropylene. Shall have top filling port capable of filling the tank both vertically and horizontally. Tank cap shall also be a chemical dosing cap to accurately measure the amount of chemical put into the tank. Cap shall also have a breathe hole to allow air to enter the tank while in operation. Tank shall be translucent to see the level of solution remaining in the tank.
SOLUTION CONTROL	Machine shall have standard two flow rates: off and .052 gal/minute (0.2 L/min).
RECOVERY TANK	Shall have 1 gal (4 L) capacity constructed of polypropylene with glass fiber reinforcement recovery tank. The tank shall have a removable top to allow the operator to inspect all geometry inside the recovery tank for proper cleaning and maintenance. Recovery tank shall also include removable cap for easy dumping of dirty solution and float vacuum shut-off system to prevent tank overflow.
HANDLE	Shall have an ergonomic handle to allow for both single and dual hand operation. Shall have a built-in locking cord holder to secure the cord for quick storage. The machine operating interface shall be at the top of the handle for easy access to turn the machine on/off and control the amount of solution that is dispensed.

DIMENSIONS	Machine dimensions shall be no larger than the following dimensions: (L x W x H): 15.75 in (40 cm) x 14.2 in (36 cm) x 45.3 in (115 cm)
POWER SOURCE	Shall be 33 ft (10 m) long on the MA10 12E, and 50 ft (15 m) long on the MA10 12E Complete, AWG 18 gauge, grounded, and shall be detachable.
WEIGHT WITH CORD	Shall weigh no more than 26.5 lb (12 kg) without solution and 33.1 lb (15 kg) with solution.
SOUND LEVEL	Shall have a sound pressure level at 1.5 m 72 ± 2 (dB A ISO 3744) and a sound power level of 83 (dB A IEC 704)
OPERATING SYSTEM	The machine shall have two waterproof rocker switches to turn the machine on/off and solution on/off.
ACCESSORIES	Machine shall have optional: <ul style="list-style-type: none"> • Hard nylon bristle brush • Microfiber brush • Carpet brush • Carpet shoes • Hose and wand along with clip to securely attach to the machine • Storage system that attaches securely to the machine

The Machine Shall Be A Clarke MA10™ 12E