

SUGGESTIONS FOR WRITING BID SPECIFICATIONS FOR 13.5 INCH (34 CM) WALK-BEHIND, BATTERY-POWERED SCRUBBER

INTENT: The intent of these specifications are to describe a cylindrical battery powered scrubber capable of scrubbing and simultaneously sweeping resilient hard floor surfaces such as terrazzo, vinyl composition tile, smooth indoor concrete, ceramic tile, luxury vinyl tile/planks etc.

All exceptions to the specifications must be clearly identified and submitted, in writing, on a separate sheet of paper marked "Exceptions". Bidders who fail to submit their exceptions will not be considered.

BATTERY AND CHARGER: Machine shall be powered by a single 7.8 Ah, 36 VDC lithium battery with an integrate BMS or battery management system. The machine shall be equipped with a charger that can be used as either an onboard charger or a shelf charger. The battery itself shall have a battery charge indicator so if it is charged outside of the machine, the level of the battery can be seen.

Unit must be equipped with a low voltage shutdown system to protect the battery. Brushes must automatically shut off prior to the battery being fully drained to protect the battery from damage, premature failure and expensive replacement costs.

SCRUBBING SYSTEM: The machine must be capable of both sweeping and scrubbing in a single pass, increasing productivity and safety for the operator and occupants of the facility. Machine shall come standard with a 13.5 inch (34 cm) general purpose scrub brush and the brush speed shall be no less than 1,000 RPMs to ensure thorough one pass cleaning. The brush motor shall be no larger than 180 Watts to ensure adequate run time. The down pressure shall be no more than 26.4 lb (12 kg) to ensure no damage occurs to delicate floor surfaces.

The front squeegee shall have the capability of being lifted into the sweeping position via a lever on the operator handle.

SOLUTION/RECOVERY TANKS: The recovery and solution tank shall be one unit constructed out of rotomolded polyethylene for easy handling and long term durability. The tank shall have a maximum capacity of 1.6 gallons (6 L) to minimize the machine size, allowing it to clean in tight congested spaces. The recovery tank lid shall be held on by the use of strong magnets, eliminating hinge(s) that can be damaged and result in a high cost of ownership. The tanks shall be capable of using hot water not to exceed 130 degrees Fahrenheit (54 C).

VACUUM SYSTEM: The machine shall be equipped with a vacuum motor rated at no more than 180 Watts to ensure low sound level and long run time. The vacuum motor shall be protected from water ingestion by means of a float shut off valve, which will extend the life of the vacuum motor and lower the total cost of ownership.

SOUND LEVEL: Sound level shall be 66 dB +/-3 when measured at the operator's ear in accordance with ISO 11201, ISO4871 and EN 60335-2-72.

DIMENSIONS: For optimal maneuverability and productivity, the machine dimensions shall not exceed the following specifications:

- Length shall be no greater than 25 inches (63 cm)
- Width without squeegee shall be no greater than 16.7 inches (43 cm)
- Squeegee width shall be no greater than 14 inches (36 cm)
- Height shall be no greater than 14.5 inches (40 cm)

CASTERS: Machine shall be equipped with two rear swiveling casters for enhanced maneuverability, giving it the ability to clean in tight spaces.

CONTROLS: The machine shall come standard with the following controls.

- One-Touch scrub button
- Front squeegee lift lever with locking mechanism
- Handle height adjustment lever with locking mechanism
- Solution ON/OFF and adjustment switch with two solution flow rate settings
- Scrub ON/OFF switch
- Vacuum ON/OFF switch
- Six segment battery gauge
- Capacitive touch scrubbing activation switches

WARRANTY: The warranty must provide the following minimum coverage: 8 years on rotomolded tanks, 5 years parts, 2 years labor and 180 days travel. Batteries shall be covered for the first 12 months with free replacement and prorated after that up to a maximum of 18 months.

THE MACHINE SHALL BE AN CLARKE MA30™ 13B