

**SUGGESTED SPECIFICATIONS FOR  
CLARKE  
BATTERY POWERED BSW 28 SWEEPER®**

**GENERAL**

The machine shall be capable of sweeping a path 28 inches (71 cm) wide, picking up debris and dust by a direct throw design into a collection hopper while filtering airborne dust by an active filtering system. The machine shall be self-propelled with traverse speeds up to 2.3 mph (3.7 km/h), and shall be battery powered with an on-board battery charging system. The machine shall be quiet to operate at 59.3 dB(A).

**BATTERY AND BATTERY CHARGER**

The machine shall be supplied with one 12 volt maintenance free and leak proof gel storage battery to provide a minimum of 2.5 hours run time. A 12 volt battery charger shall be integrated into the machine design, on-board, and available to allow the machine to be charged at any 115 volt, 60 cycle power outlet. A battery charge level indicator shall be a standard feature on the machines control panel. To extend the life of the battery by protecting it from over discharge, the machine shall be equipped with an automatic electronic sensing circuit that shuts off the machine at the critical discharge level, indicating to the operator that it must be recharged.

**DEBRIS HOPPER**

The machine shall have a front debris hopper to collect the direct throw sweepings from the main broom. The debris hopper shall be a large 15.8 gal (60 liter) capacity and shall be cradled inside of the frame assembly with a molded in handle that allows easy removal and carrying. When the debris hopper is removed, a safety switch shall inhibit the machine from being turned on. The hopper shall be made of high impact resistant polyethylene.

**WHEELS**

The machine shall be equipped with two large diameter wheels that are driven by power traction. The wheels shall be 11.8 inches (300 mm) diameter to provide smooth traverse over floor imperfections. The front bumper frame shall be equipped with a single 3 inch (75 mm) diameter caster.

**MAIN BROOM**

The main broom shall be 8 inches (203 mm) in diameter and 20 inches long. The standard broom shall for general purpose applications, and have 5 five chevron-shaped rows with .01 inch (.25 mm) diameter nylon bristles. The main broom shall be capable of sweeping debris into the front hopper, and shall rotate at 335 rpm. There shall be a height adjustment on each end of the main broom for adjusting to different applications and longer wear. The height adjustments shall be adjustable with no tools required. The main broom shall be easily removed or replaced with no tools required.

**SIDE BROOM**

A side broom of 12.4" (31.5 cm) diameter shall be standard to permit close edge sweeping of debris and dust. The machines total sweeping width, with side broom, shall equal 28" (71 cm). The side broom shall have an adjustable height setting, and be capable of being raised and lowered with a simple lever control. Machine controls must permit either the side plus main broom to run together, or just the main broom without the side broom.

**ACTIVE DUST FILTER**

The machine shall be equipped with a powered air movement fan that draws airborne dust from the debris hopper through a filter media to minimize any sweeping dust into the atmosphere. The fan will maintain a compartment vacuum within the debris hopper of .47 in. H<sub>2</sub>O (12 mm H<sub>2</sub>O). The filter shall be conveniently located on the machine and shall be designed to be easily cleaned or changed without the use of tools. The filter media shall be made of a polyester material that will not clog when used in a humid environment, and filter 98% of particles 5.0 microns and larger. The filter media shall have an expanded square area of 10.8 sq ft. (1.0 m<sup>2</sup>). A manual shake down cleaning mechanism shall be incorporated into the design that allows the operator to clean the filter externally without opening the debris hopper.

**OPERATING HANDLE**

The operating handle shall be tubular with a molded rubber comfort grip, and shall have a bail style forward traverse engagement lever. When released, the bail shall return to the neutral position and traverse will stop. The handle shall be capable of folding down for compact storage.

**DIMENSIONS**

Length: 53" (135 cm), Width: 32" (81 cm), Height over handle in optimal position: 41" (104 cm)

**OPTIONAL ACCESSORIES**

Carpet Main Broom - Shall be available having 5 five chevron-shaped rows with .02 inch (.51 mm) diameter crinkled nylon bristles.

**WARRANTY**

The machine shall be warranted by the manufacturer, except for normal wear parts such as carbon motor brushes and brooms, for a period of one year from the date of purchase. Battery warranty shall be on a pro-rata basis for 18 months from date of purchase.

**MODEL DESIGNATION**

The machine shall be a Clarke model **BSW 28** or equal.