



# S16 Specifications

## Compact Ride-On Sweeper

### SWEEPING SYSTEM

|  |   |
|--|---|
| Type   | Overthrow                                       |
| Cleaning path-single side brush                    | 46-inch   1,170 mm                              |
| Cleaning path-dual side brush                      | 60-inch   1,520 mm                              |
| Coverage rate per hour-single side brush           |   |
| Average (3 mph / 4.8 km/h, 3-inch / 76 mm overlap) | 56,760 ft <sup>2</sup>   5,270 m <sup>2</sup>   |
| Maximum (full speed, no overlap)                   | 111,320 ft <sup>2</sup>   10,340 m <sup>2</sup> |
| Coverage rate per hour-dual side brush             |   |
| Average (3 mph / 4.8 km/h, 3-inch / 76 mm overlap) | 75,240 ft <sup>2</sup>   6,990 m <sup>2</sup>   |
| Maximum (full speed, no overlap)                   | 145,200 ft <sup>2</sup>   13,490 m <sup>2</sup> |
| Main brush length (tubular)                        | 32-inch   810 mm                                |
| Main brush lift                                    | Electric, MaxPro™                               |
| Main brush change                                  | No-tool   |
| Side broom diameter (disk)                         | 20-inch   510 mm                                |
| Hopper volume capacity                             | 5.3 ft <sup>3</sup>   150 L                     |
| Hopper weight capacity (high-dump)                 | 350 lbs   159 kgs                               |
| Hopper weight capacity (low-dump)                  | 200 lbs   91 kgs                                |
| Maximum hopper dump height (high-dump)             | 61.8-inch   1,570 mm                            |
| Hopper dump reach                                  | 29.1-inch   740 mm                              |

### PROPELLING SYSTEM

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Power source                       | Battery, 36 volts                 |
| Propel motor                       | Electric, AC drive, 1.2kW, 1.6 HP |
| Propel speed forward (variable to) | 5.5 mph   8.8 km/h                |
| Propel speed reverse (variable to) | 3.0 mph   4.8 km/h                |
| Gradeability full hopper           | 10.0 deg   17.6%                  |
| Gradeability empty hopper          | 12.0 deg   21.3%                  |
| Ground clearance (high-dump)       | 2.5-inch   64 mm                  |
| Ground clearance (low-dump)        | 3.0-inch   76 mm                  |
| Tires front (1), solid non-marking | 4x12-inch   102x300 mm            |
| Tire rear (2), solid               | 4x12-inch   102x300 mm            |

### DUST CONTROL SYSTEM

|   |   |
|---|---|
| Filter system (multi-stage)               |   |
| Stage 1                                   | Perma-Filter™                             |
| Stage 2                                   | Panel Filter                              |
| Stage 3 (optional)                        | HEPA Filter                               |
| Panel Filter area                         | 97.0 ft <sup>2</sup>   9.0 m <sup>2</sup> |
| Panel Filter Dust filtration (to)         | 1 Micron @ 97.7% efficiency               |
| Optional HEPA Filter area                 | 50.0 ft <sup>2</sup>   4.6 m <sup>2</sup> |
| Optional HEPA Filter Dust filtration (to) | 0.3 Microns @ 99.97% efficiency           |
| Shaker mechanism                          | Timed, shaker plate                       |
| Vacuum fan                                | 0.6kW                                     |
| Vacuum fan diameter                       | 4.9-inch   124 mm                         |
| Vacuum fan speed                          |   |
| Normal sweeping mode                      | 12,000 rpm                                |
| Eco-Mode™                                 | 10,000 rpm                                |

### BATTERY & CHARGER (runtime: Eco-Mode™)

|                         |                                     |
|-------------------------|-------------------------------------|
| Base batteries          | (up to 3.9 hours) 240 aH            |
| High-capacity batteries | (up to 6.5 hours) 360 aH            |
| Lithium-ion batteries   | (up to 2.8 hours) 4.1 kWh (110 aH)  |
|                         | (up to 5.6 hours) 8.2 kWh (221 aH)  |
|                         | (up to 8.5 hours) 12.2 kWh (331 aH) |

Onboard and offboard battery chargers available for base, high-capacity, and lithium-ion batteries.

### MACHINE DIMENSIONS

|                                 |                      |
|---------------------------------|----------------------|
| Length                          | 71-inch   1,815 mm   |
| Width                           | 45-inch   1,165 mm   |
| Height without overhead guard   | 58-inch   1,500 mm   |
| Height with overhead guard      | 82.5-inch   2,095 mm |
| Weight                          |                      |
| Net (high-dump, base batteries) | 2,150 lbs   975 kgs  |
| Net (low-dump, base batteries)  | 1,940 lbs   880 kgs  |
| Minimum Aisle Turn              | 84-inch   2,130 mm   |

### SAFETY SYSTEM

|                                  |                      |
|----------------------------------|----------------------|
| Fire protection                  | Thermo-Sentry™       |
| Safety certification             | UL label type E      |
| Propel speed when dumping        | 1.5 mph   2.4 km/h   |
| Seat switch                      | Standard             |
| Horn                             | Standard             |
| Power shutdown switch            | Standard             |
| Hopper safe to dump light        | Standard (high-dump) |
| Hands-clear hopper dump controls | Standard (high-dump) |
| Noise level                      | as low as 67 dBA     |

### STANDARD PRODUCT FEATURES

|                                   |                                |
|-----------------------------------|--------------------------------|
| Retractable right-hand side brush | Hour meter                     |
| Worn brush indicator light        | Removable side panels          |
| Flap and trap debris pedal        | Soft corner rollers all-around |
| 1-Step™ control module            | Battery charge level indicator |
| MaxPro™ sweeping technology       | Perma-Filter™                  |
| No-tool brush change              | Automatic parking brake        |
| Stainless steel high-dump hopper  | Cup holders                    |
| Duramer™ low-dump hopper          | Wet sweeping bypass            |
| Yellow maintenance touch points   | Onboard diagnostics            |

### OPTIONAL EQUIPMENT

|  |                             |
|--|-----------------------------|
| Audio-visual backup alarm              | Vacuum wand                 |
| Silica dust packages                   | Carpet care package         |
| Light packages                         | Dual hopper bins (low-dump) |
| Deluxe seat with seatbelt              | Light litter debris skirt   |
| Overhead guard (FOPS)                  | Fire extinguisher           |
| Dual side brushes                      | UL Type ES Certification    |
| Smart-Fill™ automatic battery watering | IRIS® Asset Manager         |

### WARRANTY

Please refer to your local Tennant representative for information.

For a complete selection of genuine Tennant brushes and other parts, please consult the Tennant *Parts and Consumables Reference Guide*.