



# 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*.