



# Z50 Citadel™ Specifications

## Outdoor sweeper

### SWEEPING SYSTEM

Cleaning path	
Single side brush	55 in   1,400 mm
Dual side brushes	98 in   2,480 mm
Dual side brushes (w/ front articulated brush)	123 in   3,130 mm
Main brush	
Main brush length	55 in   1,400 mm
Main brush diameter	23 in   580 mm
Side brush diameter	35 in   900 mm
Front articulated brush	30 in   750 mm
Debris hopper	
Volume gross capacity	5.4 yd <sup>3</sup>   4.1 m <sup>3</sup>
Volume net capacity	3.5 yd <sup>3</sup>   2.7 m <sup>3</sup>
Dump height (low dump)	50 in   1.27 m
Dump height (high dump)	72 in   1.822 m

### PROPELLING SYSTEM

Engine type	VM R754 Tier 4F
Engine fuel	Ultra-low-sulphur diesel fuel
Engine power @ 2600 RPM*	107 hp / 80 kW
Propel type	Hydrostatic
Transit speed (variable to)	25 mph   40 km/h
Working speed (variable to)	12.5 mph   20 km/h
Gradeability	
Full hopper	11.3 deg/20%

### VACUUM & DUST CONTROL SYSTEM

Filter system	Dry filtering
Filter material	Variable media filter
Filtration rating	PM2.5, PM10 4-star
Filtration surface	538 ft <sup>2</sup>   50 m <sup>2</sup>
Air flow rate	7,257 CFM   12,330 m <sup>3</sup> /hr
Vacuum motor power	40 hp   30kW
Vacuum hose diameter	5.9 in   150 mm
Vacuum hose reach	16.4 ft   5,000 mm

### MACHINE DIMENSIONS

Length (standard machine)	199 in   5,050 mm
Length (w/ front articulated brush)	215 in   5,450 mm
Width	75 in   1,900 mm
Height (operating)	108 in   2,750 mm
Height (transfer)	110 in   2,800 mm
Weight	
Tare	12,787 lb   5,800 kg
Dry (full configuration, empty hopper)	13,073 lb   5,930 kg
Gross	19,842 lb   9,000 kg
Tires	245/70 R17.5 Pneumatic

### TURNING RADIUS

Machine (4-wheel steer)	191 in   4,843 mm
Curb-to-curb (4-wheel steer)	175 in   4,440 mm
Curb-to-curb (2-wheel steer)	291 in   7,400 mm

### TANK CAPACITY

Fuel tank	31.7 gal   120 L
DEF tank	3.7 gal   14 L
Water tank	56 gal   200 L

### PRODUCT STANDARD FEATURES

PM2.5 and PM10 4-Star Certification	10-in Touch Screen Display
1-Step Sweeping	Onboard Real-Time Diagnostics
Fully Glazed Cab	Rear View Camera
Seat Belts	Keyed Door Locks
Tilt Steering	Audio Backup Alarm
Polypropylene & Wire Side Brushes	DIN Hydraulic Connections
4-Wheel Power Steering	3-Position Hydraulic Suspension
Polypropylene Main Brush	Headlights & Taillights
Eco-Mode in Transit and Working modes	
Central Brush with Hydraulic Activation and Regulation	
R and L Side Brushes with Hydraulic Activation and Regulation	
Hydrostatic Rear Wheel Drive with Variable Speed Pump	
Automatic Brush Pressure Compensation	
Two-Stage Air Filtration with Dual Electric Filter Shaker	

### OPTIONAL EQUIPMENT

Wet Sidebrush Dust Control	Wet Hopper Dust Control
Pressure washer	Oversized water tank
Stainless steel debris hopper	Hopper full sensor
Rear debris vacuum hose	LED headlights
Air conditioning	Left hand cab
Premium driver's seat	Heated rear view camera
Heated rear-view mirrors	Motorized heated rear view mirrors
Radio	Cruise control
Remote hopper control	Automatic battery cut-off switch
Manual central lubrication	Automatic central lubrication
Shredder and vacuum speed control	Sound level adaptive buzzer
Automatic internal vacuum duct cleaning kit	
Rear axle locking (two steering wheels)	
Debris intake PerformanceView camera	
Hydraulic system pressure reading kit	

### WARRANTY

Please see to your local Tennant representative for information.

Unless otherwise stated, specifications are based on a standard machine configuration. Specifications subject to change without notice.

For a complete selection of genuine Tennant brushes and aftermarket parts, please consult the *Z50 Parts and Consumables Reference Guide*.

\*Per ISO 14396