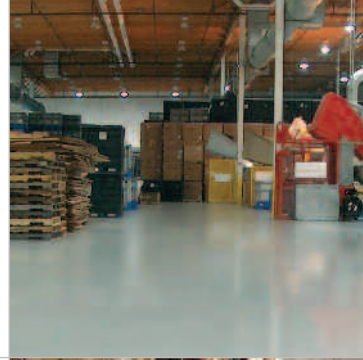


S20



## Compact Midsize Ride-on Sweeper

- Compact in size, big on performance and durability
- All-levers-forward operation reduces operator training
- Unrivaled dust control performance with the patent pending SweepMax™ system and ShakeMax™ 360 technology



# Setting the standard in compact sweeper performance, safety, and value

## Maximum sweeping power when and where you need it

The Tennant S20 rider sweeper sets the standard for compact sweeper performance, safety, and value. With the sweeping power of a mid-size and the manoeuvrability of a compact, the S20 goes where you need it and gets the job done.

### Improved air quality and optimum cleaning

The S20 SweepMax™ system removes the majority of dust and moisture for superior dust control, longer filter life, and extended sweeping time.

### Focus on safety

The Tennant S20 was engineered with a focus on safety for the operator, the environment, and your employees. Important safety features include excellent operator sightlines, steering wheel-mounted horn, standard headlights and taillights, hopper support arm and the Thermo-Sentry™.

### Proven Tennant quality for long-lasting return on investment

Quality combines with easy maintenance features to make the S20 an exceptionally cost-effective sweeper that you can count on for years of reliable service.



## The SweepMax™ dust control system lets you run longer with optimum performance

Improving air flow filtration and dust control for sweeping, the patent-pending S20 SweepMax™ system uses a 3-stage dust control system:

### STAGE 1

Keep bulky debris, water, and heavy dust in the hopper with the *first stage Perma-Filter™*.

### STAGE 2

Remove fine dust and moisture by redirecting it into the hopper with the *second stage cyclonic prefilter*.

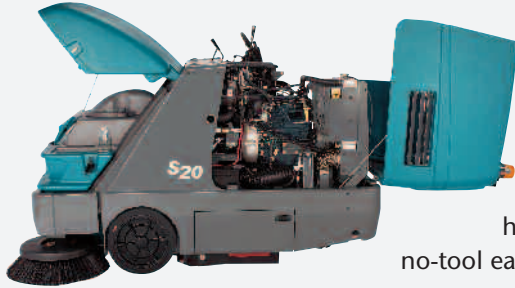
### STAGE 3

Filter sub-micron dust particulates down to 0.5 microns at 99% efficiency with a *third stage, flame retardant, nanofibre surface loading canister filter*.

This 3-stage system filters sub-micron dust particles to a MERV 13 rating on the ASHRAE 20 point scale.



## Safety, comfort, and performance every time you turn the key



Reduce down-time, service time, and maintenance costs by quickly accessing the heart of the S20 with no-tool easy-to-open covers.



Improve sweeping performance and extend filter life through enhanced air flow filtration and dust control with the patent-pending SweepMax™ 3-stage dust control system.

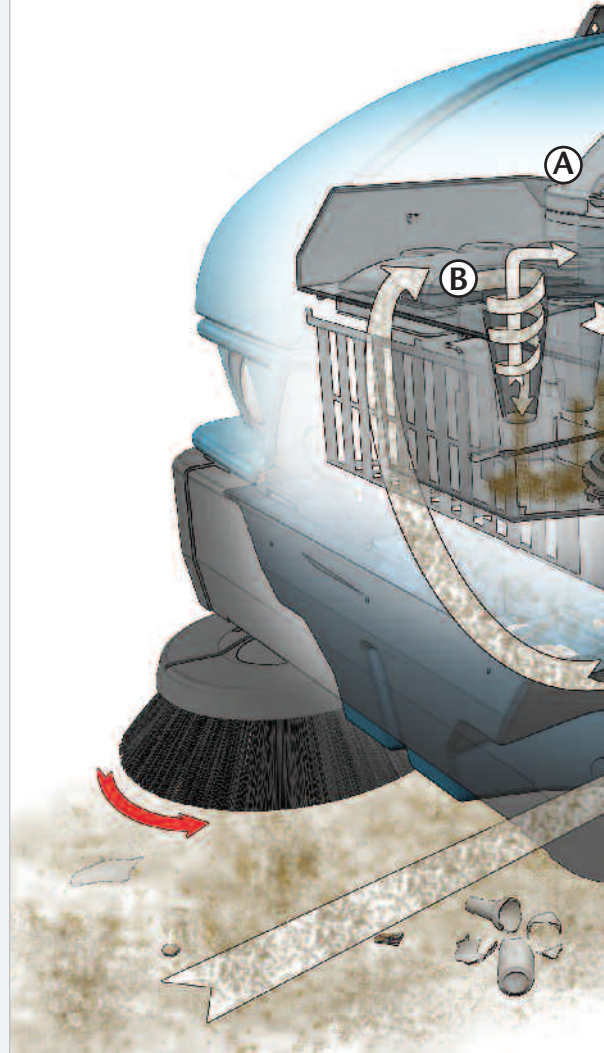


Spacious operator compartment incorporates adjustable seat, propel pedal, and steering column to customise fit. Important design safety features include excellent sightlines, side brush visibility, all-levers-forward sweeping, parking brake on light alert and much more.



**Greener alternative.** High productivity cleaning of large areas with a quiet, fume-free battery version, eliminating engine exhaust.

## INSIDE THE S20

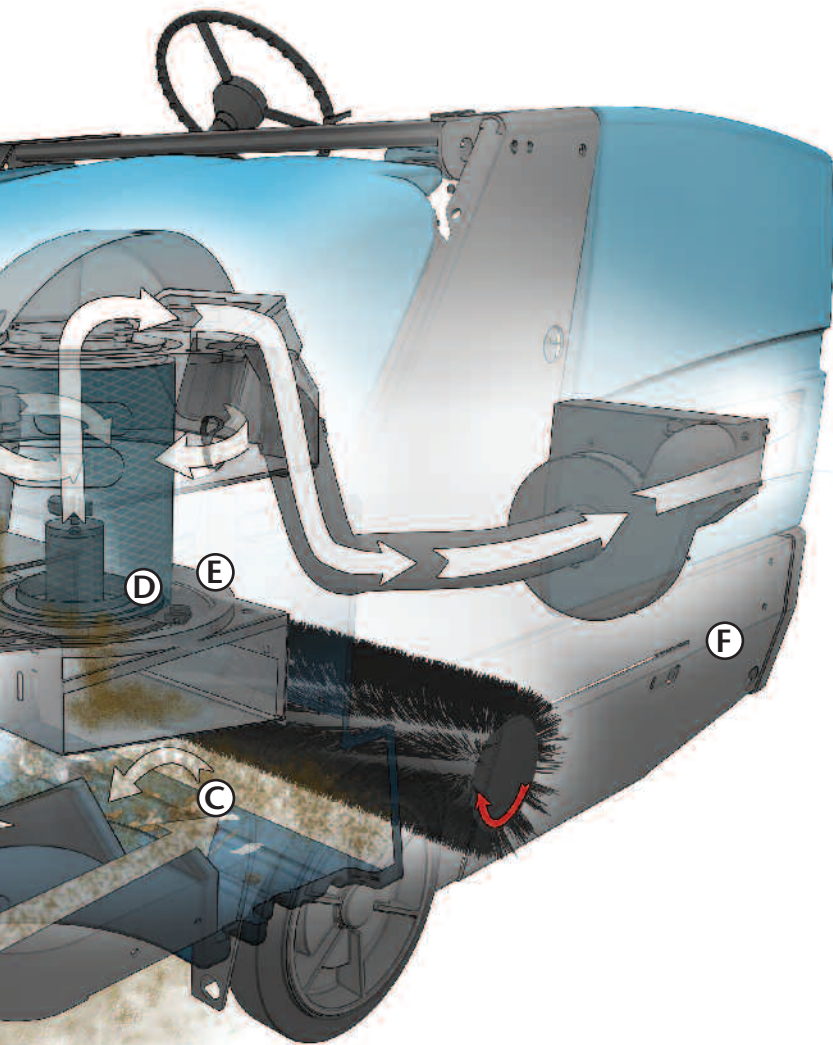


**A**

Ensure operator safety, by alerting and shutting down air flow, if increases in hopper temperature are sensed by Thermo-Sentry™.

**B**

Provide superior air flow filtration and longer, better dry dust control with the SweepMax™ system.



## Flexibility and productivity with range extending options

**Improve productivity with a 157 cm sweeping path** that shortens cleaning time by adding optional dual side brushes and a high-capacity debris hopper. Sweep corners and hard-to-get-at spaces with side sweeping brushes that extend 18 cm beyond the frame to give outstanding results in all environments.



**Increase safety and effective operation** in the most severe environments with an optional overhead guard or the optional soft side cab that can be installed or removed in minutes to adjust for changing weather conditions.



**Clean off aisle and in tight spaces** with the convenient optional vacuum wand—stored securely on board so it is always there when you need it.



**C**

The dedicated belt driven vacuum fan and built-in muffler provide superior dust control, lower noise, and reduced maintenance.

**D**

Increase efficiency with the patent pending ShakeMax™ 360 filter cleaning mechanism, dislodging dust particles caught deep within the pleats.

**E**

Nanofibre canister filter provides superior dust release for lower operating pressure and lasts 3 to 5 times longer than paper, cellulose, or synthetic media blends.

**F**

Depend on long-term structural reliability with a full wrap-around steel bumper with a steel T-beam superstructure designed for greater strength, rigidity, and long life.

**Minimise risk of damage and machine repair costs** in harsh environments with optional tower bumpers that protect against accidental contact with hard objects.



# S20 SWEEPER

|                      | RESULT                                                                   | FEATURE                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Productivity | Maximises dust control while sweeping                                    | SweepMax™ 3-stage dust control system provides improved air flow filtration and dust control                                               |
|                      | Provides longer, more effective air filtration with SweepMax™ System     | Patent-pending ShakeMax™ 360 filter shaker cleans from the inside out, dislodging dust particles lodged deep within the pleats             |
|                      | Increases machine use throughout the facility                            | Compact size and indoor/outdoor flexibility to easily pick up debris from fine grains of sand to light debris in open and congested spaces |
|                      | Decreases operator training time and simplifies machine operation        | “All-Levers-Forward” controls make operation easy                                                                                          |
| Increased Safety     | Improves visibility, response time and operator awareness                | Excellent operator sightlines, standard headlights and taillights, 18 cm side brush reach, and horn button in center of steering wheel     |
|                      | Reduces the risk of accidental hopper fires                              | Thermo-Sentry™ hopper sensor alerts operators to excessive heat in the hopper and shuts down air flow to hopper                            |
|                      | Reduces risk of accidental personal injury and property damage           | Seat occupancy switch shuts down the engine within seconds of the operator leaving the seat                                                |
|                      | Enables safe, effective operation in the most severe environments        | Optional overhead guard with standard rear-view mirror and tower bumpers protect the operator and machine                                  |
| Reduced Costs        | Allows maximum uptime                                                    | No-tool easy-to-open covers enable quick servicing                                                                                         |
|                      | Decreases operating costs                                                | SweepMax™ 2nd stage cyclonic pre-filter removes the majority of dust and moisture before it reaches the 3rd stage canister filter          |
|                      | Reduces downtime and helps ensure operation at peak levels               | No-tool InstantAccess™ to the filter and cyclonic chamber and no-tool brush change make maintenance easy                                   |
|                      | Withstands the most demanding environments for long lasting machine life | Full wrap-round steel T-beam superstructure and corrosion proof heavy-duty Duramer™ hopper and shrouds                                     |





## GENUINE TENNANT PARTS, SUPPLIES & SERVICE

Genuine Tennant Parts Advantage Operate your machine with confidence by choosing genuine Tennant parts. Only authentic Tennant parts are engineered in conjunction with Tennant equipment. For years of worry-free operation, accept only genuine parts and supplies. Direct Service Network In Europe, Tennant offers a factory-trained, locally based network of more than 220 service technicians dedicated to keeping your cleaning program up and running. Protect your investment with a Tennant Service Agreement.

*Choose one of the many Tennant Financial Solutions for easy and quick financing.*

For more detailed information on these topics, please contact your Tennant sales person.

## S20 COMPACT MIDSIZE RIDE-ON SWEEPER

### SPECIFICATIONS

#### Sweeping System

|                                | Diesel/Gasoline/LPG | Battery          |
|--------------------------------|---------------------|------------------|
| Cleaning path                  |                     |                  |
| Single side brush              | 127 cm              | 127 cm           |
| Dual side brush                | 157 cm              | 157 cm           |
| Main brush                     |                     |                  |
| Main brush length (tubular)    | 91 cm               | 91 cm            |
| Main brush lift                | Mechanical lever    | Mechanical lever |
| Main brush drive               | Hydraulic           | Belt             |
| Side broom                     |                     |                  |
| Side broom diameter            | 58 cm               | 58 cm            |
| Debris hopper                  |                     |                  |
| Volume capacity (polyethylene) | 310 L               | 310 L            |
| Volume capacity (steel)        | 319 L               | —                |
| Weight capacity (polyethylene) | 340 kg              | 295 kg           |
| Weight capacity (steel)        | 318 kg              | —                |
| Dump height (variable to)      | 152 cm              | 152 cm           |
| Dump reach                     | 35 cm               | 35 cm            |

#### Dust Control System

|                              |                              |                     |
|------------------------------|------------------------------|---------------------|
| Filter system (triple stage) |                              |                     |
| Stage 1                      | Perma-Filter™                | Perma-Filter™       |
| Stage 2                      | Cyclonic pre-filter          | Cyclonic pre-filter |
| Stage 3 (canister filled)    | 7.4 m <sup>2</sup>           | 7.4 m <sup>2</sup>  |
| Dust filtration (up to)      | 0.5 microns @ 99% efficiency |                     |
| Vacuum fan                   | 1.1 kW                       | 0.75 kW             |
| Speed                        | 6,480 rpm                    | 6,100 rpm           |
| Vacuum diameter              | 23 cm                        | 23 cm               |

#### Propelling System

|                                    |                  |                             |
|------------------------------------|------------------|-----------------------------|
| Propel speed forward (variable to) | 10 km/h          | 8 km/h                      |
| Propel speed reverse (variable to) | 3.0 mph / 5 km/h | 3.0 mph / 5 km/h            |
| Engine-gasoline/LPG Kubota (max)   | 24 kW            | —                           |
| Engine-diesel Kubota (max)         | 19 kW            | —                           |
| Battery options                    |                  |                             |
| Standard capacity                  | —                | (36V) 425 Ah/C <sub>5</sub> |
| Gradeability                       |                  |                             |
| Full hopper                        | 10°/17%          | 8.0°/14%                    |
| Empty hopper                       | 14°/25%          | 10°/17%                     |

#### Machine Dimensions

|                                    |         |         |
|------------------------------------|---------|---------|
| Length                             | 209 cm  | 209 cm  |
| Width                              | 123 cm  | 123 cm  |
| Height                             |         |         |
| With overhead guard                | 209 cm  | 209 cm  |
| Without overhead guard             | 126 cm  | 126 cm  |
| Weight (net) without battery       | —       | 1045 kg |
| Weight (net) with standard battery | 1110 kg | 1500 kg |
| Minimum aisle turn                 | 242 cm  | 242 cm  |

#### Warranty

24 Months (or max 2000 running hours) on parts and 12 months (or max 1000 running hours) on labour, whichever comes first, excluding wear items.

*Specifications subject to change without notice.*

## SEE IT IN ACTION!

See for yourself the sweeping power and compact manoeuvrability of the S20. For a demonstration or additional information, send an email to [europe@tennantco.com](mailto:europe@tennantco.com).

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