

S20



## Compact Midsize Rider Sweeper

- Compact in size, big on performance and durability
- All-levers-forward operation reduces operator training
- Unrivalled 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 maneuverability 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, nanofiber 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.

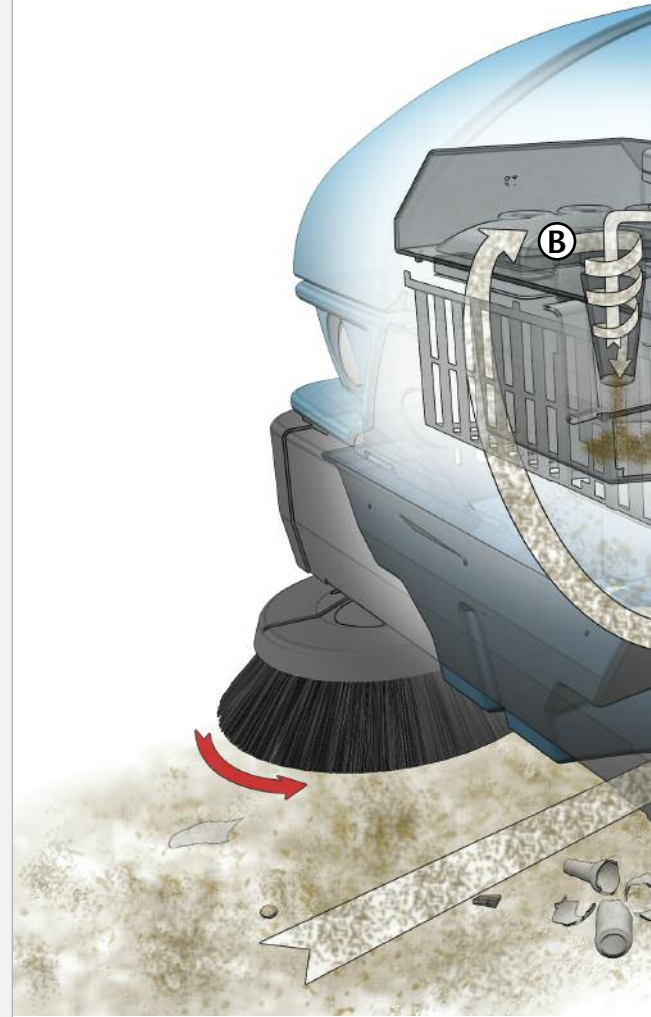


**Spacious operator compartment** incorporates adjustable seat, propel pedal, and steering column to customize fit. Important design safety features include excellent sightlines, side brush visibility, all levers forward sweeping, parking brake on light alert and much more.



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

## INSIDE THE S20

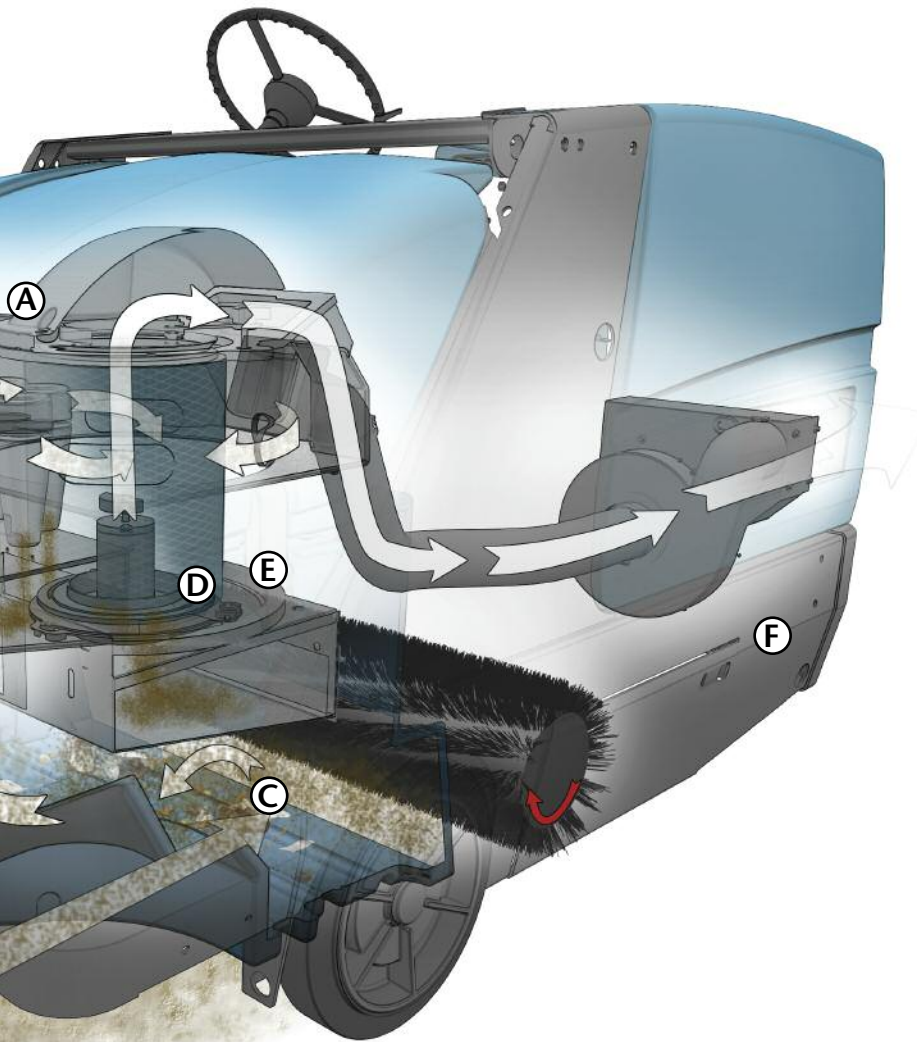


**A**

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.



**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**  
Nanofiber 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.

## Flexibility and productivity with range extending options

**Improve productivity with a 62 in (1,575 mm) 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 7 in (180 mm) 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.



**Minimize 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 | Maximizes 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 makes operation easy  |
| Increased Safety     | Improves visibility, response time and operator awareness                | Excellent operator sightlines, standard headlights and taillights, 7 in. (180 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.

### Industry's Only Factory-Direct Service Network

Providing world-class response, completion times and on-site machine service, our factory-trained network of 450 service techs are dedicated to keeping your cleaning program up and running.

*Choose GE Capital and U.S. Bank, our esteemed financial partners, for simple, quick financing with flexible upgrade options, and no long-term obligations.*

## WARRANTY

All parts (excluding batteries) have a 24-month or 2000-hour warranty under normal use and service, and 6 months on-site service labor coverage of warranty items and travel.

## S20 COMPACT MIDSIZE RIDER SWEEPER

| SPECIFICATIONS                       | Diesel/Gasoline/LPG                     | Battery                                 |
|--------------------------------------|---|---|
| <b>Sweeping System</b>               |   |   |
| Cleaning path                        |   |   |
| Single side brush                    | 50 in / 1,270 mm                        | 50 in / 1,270 mm                        |
| Dual side brush                      | 62 in / 1,575 mm                        | 62 in / 1,575 mm                        |
| Main brush                           |   |   |
| Main brush length (tubular)          | 36 in / 910 mm                          | 36 in / 910 mm                          |
| Main brush lift                      | Mechanical lever                        | Mechanical lever                        |
| Main brush drive                     | Hydraulic                               | Belt                                    |
| Side broom                           |   |   |
| Side broom diameter                  | 23 in / 580 mm                          | 23 in / 580 mm                          |
| Debris hopper                        |   |   |
| Volume capacity (polyethylene)       | 11 ft <sup>3</sup> / 310 L              | 11 ft <sup>3</sup> / 310 L              |
| Volume capacity (steel)              | 11.25 ft <sup>3</sup> / 319 L           | —                                       |
| Weight capacity (polyethylene)       | 750 lb / 340 kg                         | 650 lb / 295 kg                         |
| Weight capacity (steel)              | 700 lb / 318 kg                         | —                                       |
| Dump height (variable to)            | 60 in / 1,525 mm                        | 60 in / 1,525 mm                        |
| Dump reach                           | 14 in / 355 mm                          | 14 in / 355 mm                          |
| <b>Dust Control System</b>           |   |   |
| Filter system (triple stage)         |   |   |
| Stage 1                              | Perma-Filter™                           | Perma-Filter™                           |
| Stage 2                              | Cyclonic pre-filter                     | Cyclonic pre-filter                     |
| Stage 3 (canister filled)            | 80 ft <sup>2</sup> / 7.4 m <sup>2</sup> | 80 ft <sup>2</sup> / 7.4 m <sup>2</sup> |
| Dust filtration (up to)              | 0.5 microns @ 99% efficiency            |   |
| Vacuum fan                           | 1.5 hp / 1.12 kW                        | 1.0 hp / 0.75 kW                        |
| Speed                                | 6,480 rpm                               | 6,100 rpm                               |
| Vacuum diameter                      | 9 in / 230 mm                           | 9 in / 230 mm                           |
| <b>Propelling System</b>             |   |   |
| Propel speed forward (variable to)   | 6.0 mph / 10 km/h                       | 5.0 mph / 8.0 km/h                      |
| Propel speed reverse (variable to)   | 3.0 mph / 4.8 km/h                      | 3.0 mph / 4.8 km/h                      |
| Engine-gasoline/LPG Kubota (max)     | 32.5 hp / 24.0 kW                       | —                                       |
| Engine-diesel Kubota (max)           | 26.0 hp / 19.4 kW                       | —                                       |
| Battery options                      |   |   |
| Standard capacity (6-6V)             | —                                       | 315 Ah                                  |
| Standard capacity, long life (2-18V) | —                                       | 340 Ah                                  |
| High capacity, long life (2-18V)     | —                                       | 440 Ah                                  |
| Gradeability                         |   |   |
| Full hopper                          | 10.0 deg/17.6%                          | 8.0 deg/14.1%                           |
| Empty hopper                         | 14.0 deg/25.0%                          | 10.0 deg/17.6%                          |
| <b>Machine Dimensions</b>            |   |   |
| Length                               | 82.3 in / 2,090 mm                      | 82.3 in / 2,090 mm                      |
| Width                                | 48.5 in / 1,230 mm                      | 48.5 in / 1,230 mm                      |
| Height                               |   |   |
| With overhead guard                  | 82.1 in / 2,085 mm                      | 82.1 in / 2,085 mm                      |
| Without overhead guard               | 49.5 in / 1,260 mm                      | 49.5 in / 1,260 mm                      |
| Weight (net) without battery         | —                                       | 2,300 lb / 1,045 kg                     |
| Weight (net) with standard battery   | 2,450 lb / 1,110 kg                     | 2,975 lb / 1,350 kg                     |
| Minimum aisle turn                   | 95 in / 2,415 mm                        | 95 in / 2,415 mm                        |

*Specifications subject to change without notice.*

## SEE IT IN ACTION!

See for yourself the sweeping power and compact maneuverability of the S20. For a demonstration or more information, visit us online or call **800.553.8033**.

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