

# M20



## Integrated Scrubber-Sweeper

- Superior cleaning results in just one pass – wet or dry – with FloorSmart®
- Maximum productivity with ec-H2O™ or FaST® for cleaning up to three times longer than conventional scrubbing
- Low total cost of ownership from fully-integrated, cost-efficient design



Electrically Converted Water



The Safe Scrubbing Alternative®



Extended Scrubbing

# Superior cleaning results at a low total cost of ownership.

The first fully-integrated scrubber-sweeper, the M20 is engineered for consistent, industrial-strength cleaning whether scrubbing, sweeping or doing both at once.

## Dramatically lower total cost of ownership

Without compromising safety or performance, we've reduced the total lifecycle cost of ownership for machines that both scrub and sweep. With two brushes instead of four, EasyOpen™ service access, and 14% fewer parts, the M20 is one of the most cost-efficient industrial cleaning machines available.

## Durable, reliable, long-life productivity

The M20 is not two separate machines bolted together like traditional sweeper-scrubbers. Its integrated design, combined with rugged steel and Duramer™ construction, make it simple to maintain and built-to-last.

## Safer for operators, customers, and employees

The ErgoSpace™ operator compartment, ec-H2O™ or FaST® technologies, Hygenic® tanks and Grip-N-Go™ corner rollers to protect your facility are just a few of the ways the M20 sets a new standard for safety.



## Exclusive Technologies

(optional cleaning innovations)



- |                 |   |
|-----------------|---|
| Increase safety | <ul style="list-style-type: none"><li>• High traction certified by NFSI</li><li>• Reduce chemical accidents</li></ul>                               |
| Reduce costs    | <ul style="list-style-type: none"><li>• Eliminate purchase of daily cleaners</li><li>• Reduce water consumption and disposal by up to 70%</li></ul> |
| Soil type       | <ul style="list-style-type: none"><li>• Replace daily cleaners</li><li>• Effective on food-based oils and greases</li></ul>                         |



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|-----------------|--|
| Increase safety | <ul style="list-style-type: none"><li>• High traction certified by NFSI</li><li>• Eliminate measuring and mixing</li></ul>                     |
| Reduce costs    | <ul style="list-style-type: none"><li>• Reduce chemical usage up to 90%</li><li>• Reduce water consumption and disposal by up to 70%</li></ul> |
| Soil type       | <ul style="list-style-type: none"><li>• Three grades of chemical from light-duty cleaner to heavy-duty degreaser</li></ul>                     |



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|-----------------|--|
| Increase safety | <ul style="list-style-type: none"><li>• Reduce chemical handling by 66% (Three cycles maximum per fill)</li></ul>        |
| Reduce costs    | <ul style="list-style-type: none"><li>• Reduce water consumption and disposal by up to 66%</li></ul>                     |
| Soil type       | <ul style="list-style-type: none"><li>• All grades of chemical – mainly medium cleaner to heavy-duty degreaser</li></ul> |

**All technologies increase scrub time up to three times**



COST-EFFICIENT. PRODUCTIVE. SAFE.



EasyOpen™ service access reduces downtime, service time and maintenance costs, delivering a dramatically lower total cost of ownership.



Cleaning productivity is increased with a large 3.9 ft<sup>3</sup> / 110 liter, 390 lb / 177 kg debris hopper with 60 in / 1,520 mm variable dump height.



The ErgoSpace™ operator compartment offers outstanding visibility, safety and ergonomics to protect operators, the machine and your facility.

INSIDE THE M20



**A**


Ergonomically-friendly for operators, the ErgoSpace™ makes cleaning with the M20 safe, easy, and comfortable.

**B**

Reduce training time and simplify operation with the Touch-N-Go™ control panel featuring 1-STEP™ scrubbing and sweeping.

## KEY AVAILABLE FEATURES

### Increase productivity up to 3 hours

 Ideal for more porous concrete, ES filters and recycles recovered solution, dramatically extending cleaning time.



**Widen the cleaning path from 40 up to 56 inches / 1,020 to 1,420 mm**  
Achieve superior edge-cleaning capabilities and maximum productivity with an optional side brush.



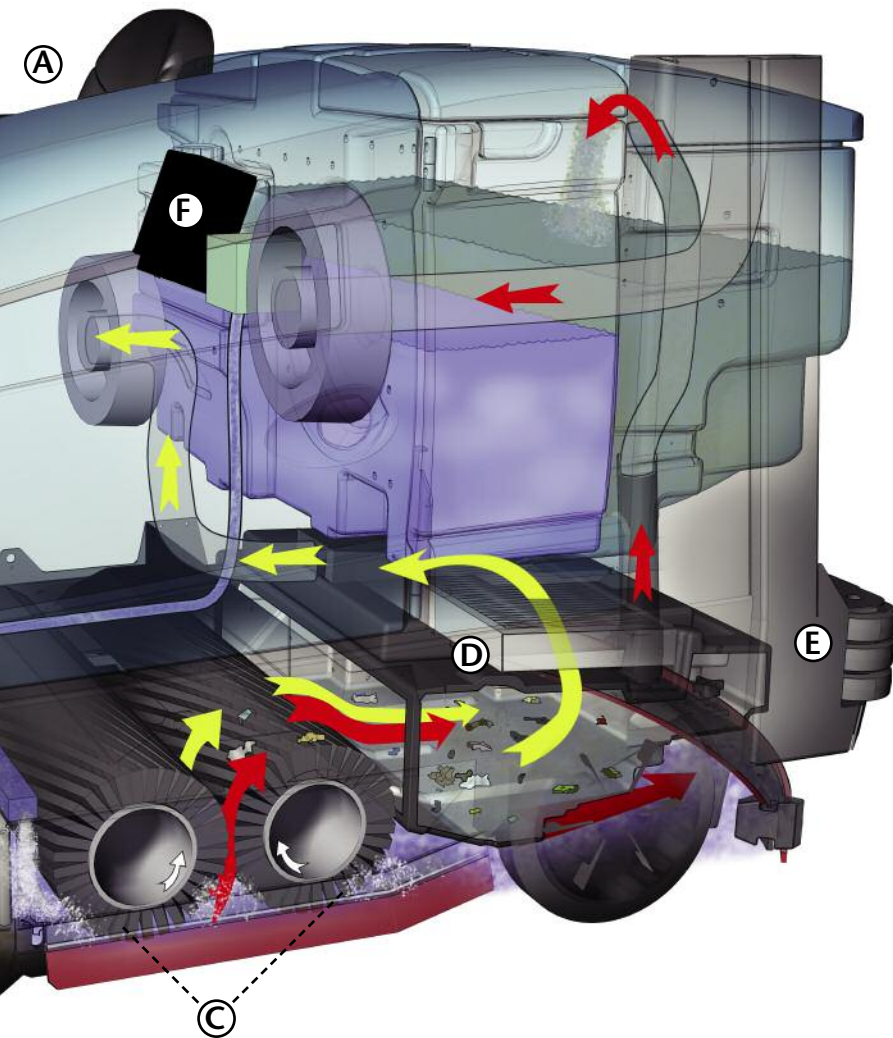
### Boost your cleaning flexibility

Spot clean hard-to-reach areas with the 15 ft / 5 m spray hose.



### Protect the operator and machine

Ensure safety in severe environments with an overhead guard.



**C**

Achieve superior results and reduce component wear with FloorSmart® – an integrated scrubbing and sweeping system.

**D**

Superior dust control, excellent shake-back, and high durability from the synthetic panel filter with InstantAccess™

**E**

Long-life construction from heavy-gauge steel frame with T-beam members and Grip-N-Go™ corner rollers.

**F**

Reduce environmental impact with ec-H2O™ or FaST® technologies.

# THE NEW M20 VS. COMPETITIVE SWEEPER-SCRUBBERS

## New M20 Scrubber-Sweeper

## Competitive Sweeper-Scrubbers

### Increased Safety

- FaST®  
NFSI-certified to increase traction
- ErgoSpace™ operator compartment  
Improves visibility
- Thermo-Sentry™ hopper sensor  
Preventative fire safety
- Grip-N-Go™ corner rollers  
Facility and machine protection
- Triple-sealed electrical connector  
UL-certified system protection

- Water reduction system
- Limited operator visibility
- No preventative measures
- Basic frame protection
- Push-on electrical connectors



### Reduced Costs

- ec-H2O™  
No chemicals, 70% less water
- Two main brushes  
Fewer parts to maintain
- FloorSmart® integrated machine  
Less complexity
- On-board diagnostics  
Quick, easy maintenance
- SmartRelease™ squeegee  
Reduced replacement parts

- Conventional detergents
- Four main brushes
- Two separate machines bolted together
- Trial and error
- Bolt-on squeegee



### Maximum Productivity

- ES® with detergent metering  
The original extended scrubbing system
- Smooth front-wheel steering  
Tight, easy maneuverability
- EasyOpen™ service access  
Quick maintenance, maximum uptime
- Wet/dry synthetic fiber panel filter  
Increased productivity
- Touch-N-Go™ operation  
Reduced training time, increased productivity
- Hygenic® tanks  
Minimum downtime with easy access and sanitization
- Variable Drain Valves™  
No mess

- Just detergent metering
- Awkward rear-wheel steering
- Restricted access, limited serviceability
- Paper dust filter, dry-sweep only
- Inefficient, multiple-step cleaning
- Difficult tank cleanout
- Minimal control, messy draining



## Tennant Company Environmental Stewardship



**ec-H2O™ and FaST® technologies are NFSI (National Floor Safety Institute) Certified.** NFSI certification ensures a product has passed a 2-phase testing process, proving the floor product helps to reduce potential for slip-and-fall accidents.



**ec-H2O™ and FaST® technologies are registered by NSF International.** NSF International is an independent, not-for-profit organization that ensures formulation and labels on these products meet appropriate food safety regulations.



**ec-H2O™ and FaST® technologies may contribute to LEED or LEED-EBOM (Existing Building: Operations & Maintenance) points,** provided other appropriate criteria are met. For more information on obtaining LEED points, please contact your sales rep or refer to the USGBC website at: [www.usgbc.org](http://www.usgbc.org).



**FaST® is a Green Seal (GS-37) Certified Detergent.** Green Seal evaluates and certifies cleaning products based on criteria such as the toxicity of the product, skin and eye irritation, skin sensitization, combustibility, toxicity to aquatic life, and packaging.



Conserve Resources



Reduce Detergents



Increase Safety



Improve Air Quality



Reduce Noise

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

## M20 RIDER SCRUBBER-SWEEPER

### Integrated Cleaning System

Cleaning path	40 in	1,020 mm
With scrubbing side brush	54 in	1,370 mm
With sweeping side brush	56 in	1,420 mm
Cylindrical main brushes		
Brush speed	480 rpm	480 rpm
Brush down pressure (up to)	390 lb	177 kg
Brush diameter (2)	12 in	300 mm
Side brush		
Brush speed	150 rpm	150 rpm
Scrubbing brush diameter	16 in	410 mm
Sweeping brush diameter	21 in	530 mm
Tanks		
Solution tank	56 gal	212 L
Solution capacity with ES®	74 gal	280 L
Recovery tank	73 gal	276 L
Demisting chamber	16 gal	61 L
Debris hopper		
Volume capacity	3.9 ft <sup>3</sup>	110 L
Weight capacity	390 lb	177 kg
Dump height (variable to)	60 in	1,520 mm
Vacuum fans		
Scrubbing fan speed	11,000 rpm	11,000 rpm
Scrubbing fan water lift	35 in	890 mm
Sweeping fan speed	6,500 rpm	6,500 rpm
Sweeping fan airflow	290 cfm	8.2 m <sup>3</sup> /min

### Dust Control System

Filter system	Synthetic fiber panel	Synthetic fiber panel
Filter area	78 ft <sup>2</sup>	7.3 m <sup>2</sup>
Dust filtration (to)	3 microns	3 microns
Shaker mechanism (automatic)	Timed, beater bar	Timed, beater bar

### Propelling System

Propel speed forward (variable to)	8.0 mph	13 km/h
Propel speed reverse (variable to)	3.0 mph	4.8 km/h
Engine-gasoline/LPG (1.6 L)	55 hp	41 kW
Gradeability		
Transport at gross weight	10.0 deg/18%	10.0 deg/18%
Working (cleaning)	8.0 deg/14%	8.0 deg/14%
Ground clearance (transport)	3 in	80 mm

### Machine Dimensions

Length	95 in	2,410 mm
Width		
Frame	50 in	1,270 mm
Rear squeegee	51 in	1,300 mm
With side brush	58 in	1,470 mm
Height	58 in	1,470 mm
With overhead guard	83.5 in	2,120 mm
Weight (empty)	3,300 lb	1,497 kg
Minimum aisle turn	110 in	2,790 mm

### Warranty

All parts (excluding batteries) have a 36 month warranty under normal use and service, on-site service labor coverage of warranty items for 24 months, and 6 months travel.

## SEEING IS BELIEVING

See for yourself how the M20 scrubber-sweeper delivers clean, safe floors in your most challenging environments. For a demonstration or additional information, call **800.553.8033**.

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