

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



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

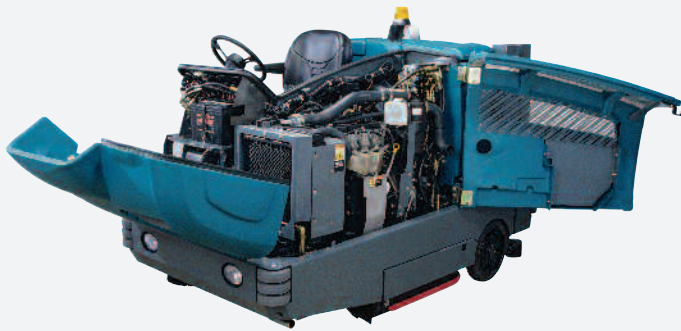
The M20 is not two separate machines bolted together like traditional sweeper-scrubbers. Its integrated design, combined with rugged steel and Duramer construction, make it simple to maintain and built to last.

Safer for operators, customers, and employees

The ErgoSpace operator compartment, ec-H2O or FaST technologies, hygienic 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.



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 110 liter, 177 kg debris hopper with 152 cm variable dump height.



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

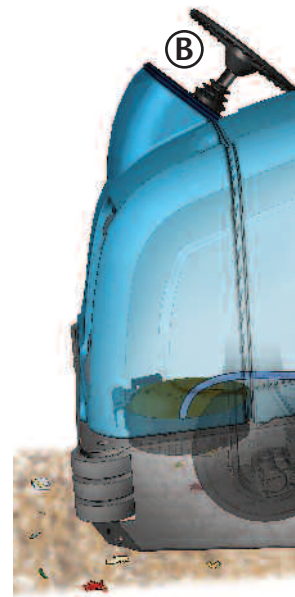
Exclusive Technologies

Engineered with safe productivity in mind, the M20 is

ecH2O™
Electrically converted water

Increase safety	<ul style="list-style-type: none">• Eliminate daily cleaners• Eliminate packaging disposal
Reduce costs	<ul style="list-style-type: none">• Reduce water consumption and disposal by up to 70%
Soil type	<ul style="list-style-type: none">• Replace daily cleaners• Effective on vegetable oils and greases



INSIDE THE M20

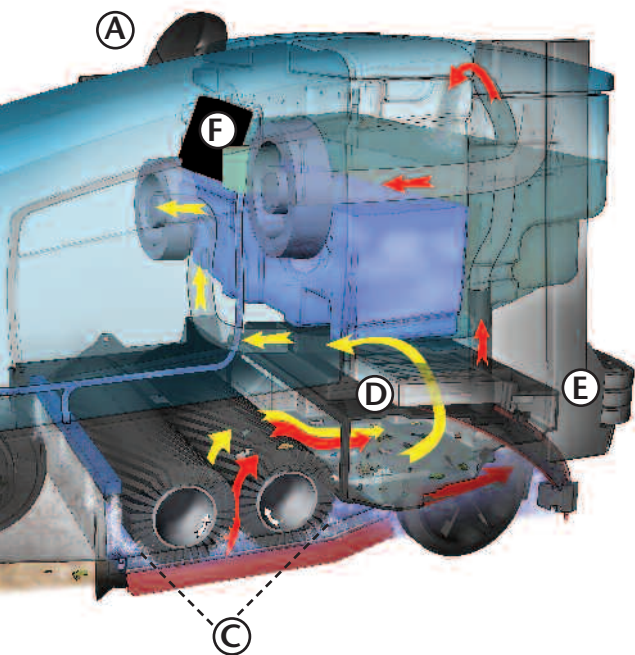


A
Ergonomically-friendly for operators, the ErgoSpace makes cleaning with the M20 safe, easy, and comfortable.

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

available with one of these optional cleaning innovations:

 <p>Foam-activated chemical</p>	 <p>Recycled for extended scrubbing</p>
<ul style="list-style-type: none"> • Use up to 90% less chemical • Recyclable packaging 	<ul style="list-style-type: none"> • Uses up to 66% less chemical (Recommended 3x recycle)
<ul style="list-style-type: none"> • Reduce water consumption and disposal by up to 70% 	<ul style="list-style-type: none"> • Reduce water consumption and disposal by up to 66%
<ul style="list-style-type: none"> • Two grades of chemical from light-/medium-duty cleaner to heavy-duty degreaser 	<ul style="list-style-type: none"> • All grades of chemical – mainly medium cleaner to heavy-duty degreaser
<p>All technologies increase scrub time up to three times</p>	



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.

KEY AVAILABLE FEATURES

Increase productivity up to 3 hours

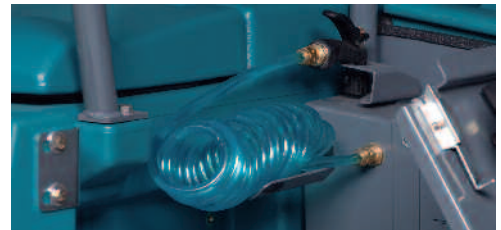


Ideal for more porous concrete, ES filters and recycles recovered solution, dramatically extending cleaning time.



Widen the cleaning path from 102 up to 142 cm

Achieve superior edge-cleaning capabilities and maximum productivity with an optional side brush.



Boost your cleaning flexibility


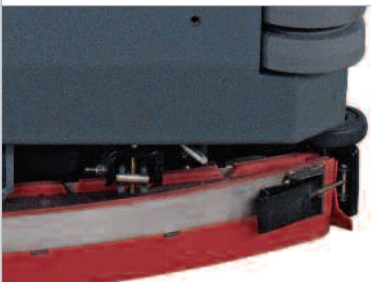

Spot clean hard-to-reach areas with the 5 m spray hose.



Protect the operator and machine

Ensure safety in severe environments with an overhead guard.

THE M20 FEATURES AND BENEFITS

	FEATURES	BENEFITS	
Increased Safety	FaST scrubbing technology	Reduces potential slip-and-fall accidents	
	ErgoSpace operator compartment	Improves visibility and response time to obstacles	
	Thermo-Sentry hopper sensor	Reduces the risk of accidental hopper fires	
	Grip-N-Go corner rollers	Protects your facility and machine against damage	
Reduced Costs	ec-H2O chemical-free scrubbing	No chemicals, 70% less water, less labour, less training	
	FloorSmart integrated machine	Less complexity, fewer parts to repair, 2 brushes to replace	
	EasyOpen service access and on-board diagnostics	Quick, easy maintenance allowing maximum uptime	
	SmartRelease break-away squeegee	Reduces maintenance and replacement parts due to squeegee damage	
Maximum Productivity	ES with detergent metering	Avoid detergent overuse and conserve water	
	Smooth front-wheel steering	Easy manoeuvrability	
	EasyOpen service access	Quick maintenance, maximum uptime	
	Wet/dry synthetic fiber panel filter	Increased productivity in all weather conditions	
	Touch-N-Go operation	Reduced training time, increased productivity	
	Hygienic tanks	Provide easy visibility to solution and recovery tanks for cleaning and sanitization	
	Variable Drain Valves	Control the flow of the water leaving the tanks without the normal fuss and mess	



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.



Tennant FaST 365 and FaST 965 detergents have been awarded the European ECO - label. This proves that our Tennant FaST detergents have a reduced environmental impact compared to standard detergents.



ec-H2O™ technology won the European Business Award 2009 for the Business Innovation of the Year, one of the most prestigious business awards. The European Business Awards (www.businessawardseurope.com) is an independent awards programme designed to recognise and promote excellence, best practice and innovation in the European business community, in line with the broad aims of the European Union and business representative groups across the member states.



Conserve Resources



Reduce Detergents



Increase Safety



Improve Air Quality



Reduce Noise

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. New paragraph with Direct Service Network (this is a subtitle actually). In Europe, Tennant offers a factory-trained, locally based network of more than 220 service technicians dedicated to keeping your cleaning programme 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.

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 :

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M20 RIDE-ON SCRUBBER-SWEEPER

Integrated Cleaning System

Cleaning path	102 cm
With scrubbing side brush	137 cm
With sweeping side brush	142 cm
Cylindrical main brushes	
Brush speed	480 rpm
Brush down pressure (up to)	177 kg
Brush diameter (2)	30 cm
Side brush	
Brush speed	150 rpm
Scrubbing brush diameter	41 cm
Sweeping brush diameter	53 cm
Tanks	
Solution tank	212 L
Solution capacity with ES®	280 L
Recovery tank	276 L
Demisting chamber	61 L
Debris hopper	
Volume capacity	110 L
Weight capacity	177 kg
Dump height (variable to)	152 cm
Vacuum fans	
Scrubbing fan speed	11,000 rpm
Scrubbing fan water lift	890 mm
Sweeping fan speed	6,500 rpm
Sweeping fan airflow	8.2 m³/min

Dust Control System

Filter system	Synthetic fibre panel
Filter area	7.3 m²
Dust filtration (to)	3 microns
Shaker mechanism (automatic)	Timed, beater bar

Propelling System

Propel speed forward (variable to)	13 km/h
Propel speed reverse (variable to)	4.8 km/h
Engine – LPG (1.6 L)	41 kW
Engine – Kubota diesel	28 kW
Gradeability	
Transport at gross weight	10.0 deg/18%
Working (cleaning)	8.0 deg/14%
Ground clearance (transport)	8 cm

Machine Dimensions

Length	241 cm
Width	
Frame	127 cm
Rear squeegee	130 cm
With side brush	147 cm
Height	147 cm
With overhead guard	212 cm
Weight (empty)	1497 kg
Minimum aisle turn	279 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.