



FLOORCARE EQUIPMENT



TWINTEC VARIO : ONE SIZE FITS ALL

KEY FEATURES

- Three sizes, one machine.
- Fully adjustable flow rate from 0.25 gpm to 1 gpm.
- Patented pop-on/pop-off brushes and pad drivers.
- Adjustable brush pressure and speed.
- 6 gel batteries standard with 8 as an option, low voltage shut off.
- Quick release squeegee blades for easy cleaning.
- Tear away squeegee.
- Two squeegee sizes come with each machine.
- Onboard chemical dispensing system allows for 32:1, 64:1, 96:1 and 128:1 chemical metering.
- Will accept optional off aisle kit.



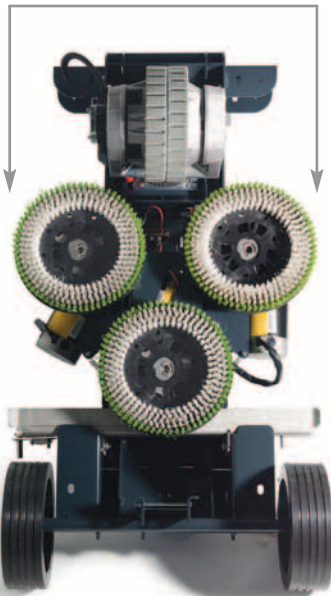
MODEL

TTV 678

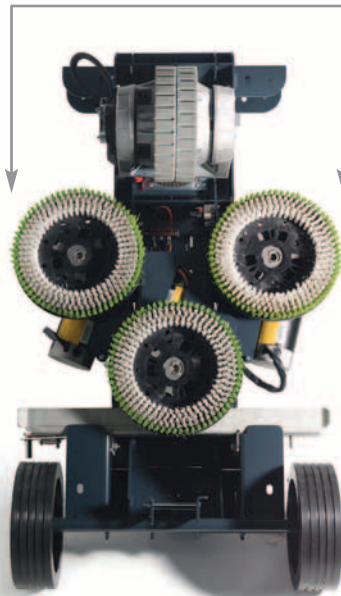
CLEANING PATH	26", 30", 34"
PAD OR BRUSH SIZES	3 x 11"
SOLUTION TANK	30 gal.
RECOVERY CAPACITY	30 gal.
CHEMICAL CAPACITY	1 gal.
CHEMICAL MIXTURE RATES	32:1, 64:1, 96:1, 128:1
WATER FLOW RATE	1.0 / 0.8 / 0.5 / 0.25 gpm
BRUSH PRESSURE	160 lbs.
BRUSH SPEED	150-200 rpm
BRUSH MOTOR	3 x 24V, 400W
TRACTION MOTOR	600W
WORKING SPEED	0.3 - 4.3 mph
TRANSPORT SPEED	4.3 mph
MAXIMUM GRADIENT	11°
VACUUM MOTOR POWER	24V, 400W
WORKING CAPACITY (sq. ft/hr.)	64,045 sq. ft/hr.
RUN TIME	3.5 hr. (6 batteries), 4.5 hr. (8 batteries)
BATTERIES (gel)	6 or 8 x 12V, 100 Ahr.
WEIGHT	970 lbs. (8 battery configuration)
DIMENSIONS (LxWxH)	66" x 56" x 41.5"



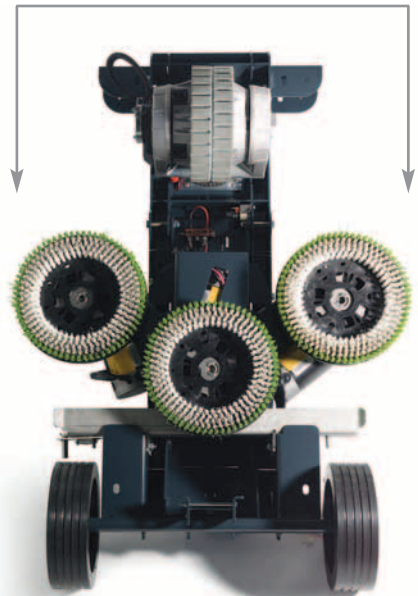
26" : 650 MM



30" : 750 MM



34" : 850 MM



Three sizes, one machine - 26", 30" and 34" - with on-board storage for 2 squeegee sizes - 30" and 40" - it will fit through any door. You can now handle any job large or small with one machine.

Simply pull a pin to adjust the brush deck. The brushes will automatically move in or out to the correct width.



- 6 x 100 ah gel standard batteries provide a run time of 3.5 hours.



- 2 optional extra gel batteries increase the run time to 4.5 hours.

TRACTION DRIVE AUTOMATIC SCRUBBER

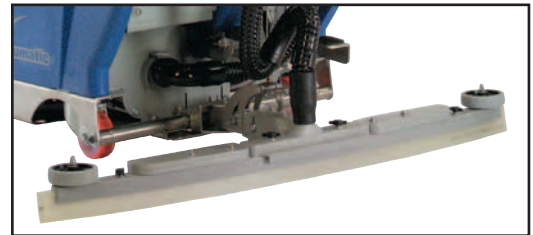
TTB 6652 T STRUCTURAL AND MECHANICAL FEATURES

The new 6652 traction scrubber is a careful blend of proven features and powerful new technology.

With its stainless steel chassis, low profile design and powerful transaxle traction drive system, the 6652 sets new standards for scrubbers and easily handles your largest jobs. An easy-to-raise head allows for quick brush changes. And the robust 200Ahr, 24V power supply with its own integrated charging system provides 3-4 hours of operation from a single 8 hour charge and the sealed gel batteries are, as always, completely maintenance free.

See page 14 for details on the batteries.

The LED control and handle, complete with safety stop key, continually provides the operator with the status of the vacuum, water flow, brush pressure and batteries. In the event of a brush overload, the automatic systems will shut down to protect the motor. Simply release the trigger and they automatically reset.



Polyurethane blades ensure excellent water recovery

TTB 6652 T



Low Profile ensures excellent sight lines

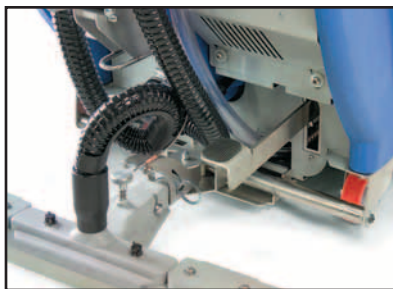
TRACTION DRIVE AUTOMATIC SCRUBBER

TTB 6652 T STRUCTURAL AND MECHANICAL FEATURES

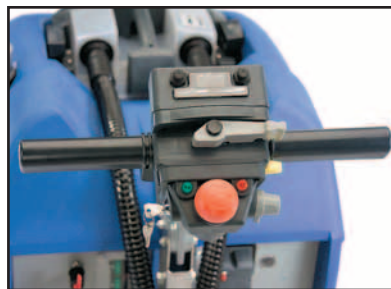
Our unique squeegee system slides from side to side and pivots to ensure absolutely no water is left on turns. It also allows a smaller more compact squeegee to be used.



TTB 6652 T



Stainless steel chassis and squeegee lifting mechanism will never rust and squeegee removal for cleaning is a snap.



The LED control and safety stop equipped handle

TRACTION DRIVE COMPACT SCRUBBER

- **EASY** to use
- Convenient transportation with **FLIP-UP POWERHEAD**
- **EASY PAD OR BRUSH** change system

TTB 4550 T

The Twintec 4550 has always given you superb performance but to this model we have now added a 24 volt traction drive system. The new drive and control design is taken directly from the larger 6652 model, providing full variable forward speed control with a single reverse speed.

By virtue of the combination of drive and compactness the machine is exceptionally easy to use for all operators, and the drive system enhances productivity allowing a small machine do a big job. Maintenance free gel batteries are standard equipment

Small enough to go anywhere yet big enough to go everywhere. Power, Performance and Convenience that's the 4550...



Flip-up Powerhead
& Easy Pad change system



TTB 4550 T



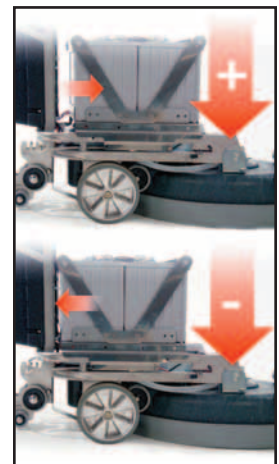
Central control system



Inline filter protects
motor from debris



Heavy duty
traction drive



Patented brush
pressure system

GEL BATTERY AUTOMATIC SCRUBBERS

TTB 3450 - TTB 3450 C - TTB 4550 - TTB 4552
STRUCTURAL AND MECHANICAL FEATURES

So compact and easy to use, anyone can operate it. The fully adjustable handle provides proper ergonomics for all your operators. Three-position adjustable pad pressure (simply slide the battery tray) allows for scrubbing or stripping. A semi-parabolic squeegee with polyurethane blades pivots to give you efficient water recovery on turns and is easily removed for cleaning.

There's no crawling underneath required for brush or pad changes. The **PATENTED FLIP UP HEAD DESIGN** on the **3 AND 4 SERIES** makes those changes a breeze.

The float shut-off and an inline filter ensures debris does not reach the vacuum motor. The stainless steel chassis and squeegee lift mechanism will never rust. And the structural foam brush deck is not only rust proof and durable, it carries a **10-YEAR WARRANTY**.

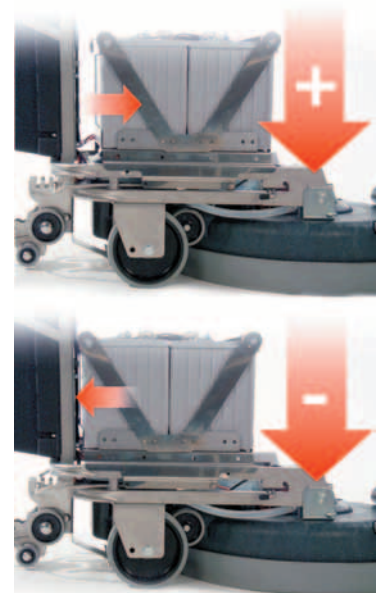
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TTB 3450



Patented Flip Up Head - Standard on all 3 and 4 series Twintecs.



Adjust the pad pressure simply by sliding the battery tray.

GEL BATTERY AUTOMATIC SCRUBBERS

TTB 3450 - TTB 3450 C - TTB 4550 - TTB 4552
CONSOLE AND ELECTRICAL FEATURES

An **LED CONTROL PANEL** ensures the operator always knows the status of the vacuum, water flow, brush pressure and batteries at all times. In the event the brushes get overloaded, they will shut down to protect the motor. And every model comes with a **SAFETY KEY** so it can be stored or charged anywhere.

All the electrical components are easily accessible for servicing. There are no circuit boards on the **3450**, **4550**, **4552** or **6652** models – all machine functions are run completely by switches and relays.



Console informs operator on pad pressure and battery status.



Inline Filter protects the vacuum motor from debris.



Patented Flip Up Head on all 3 and 4 series models.



TTB 4552

ELECTRIC AUTOMATIC SCRUBBERS

TT 3450, TT 4550

So compact and easy to use, anyone can operate them. A fully adjustable handle ensures it's comfortable to use for any operator. The pad pressure is excellent for both scrubbing and stripping – and with **100" WATERLIFT** and **95 CFM** of airflow, it dries your floors like nothing else. A semi-parabolic squeegee pivots to ensure efficient water recovery on turns and it can be easily removed for cleaning. In fact, the entire unit can be broken down into sections for manual transport up and down stairs or from job to job.

There's no crawling underneath required for brush or pad changes. The patented flip-up head design makes those changes easy. The **TT 3450's** lightweight twin recovery tanks make emptying dirty water simple and its stainless steel chassis will never rust.

The structural foam brush deck is rust proof, durable and carries a **10-YEAR WARRANTY**.



TT 3450

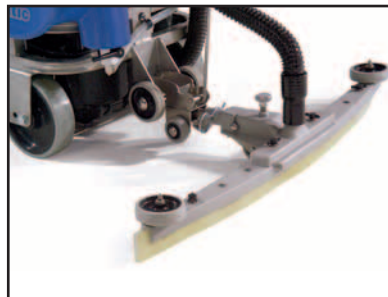


TT 4550

Key Features of all the Twintecs



Multi-position
adjustable handle.



Polyurethane blades for
excellent water recovery.

CYLINDRICAL GEL BATTERY SCRUBBER

TTB 3450 C

The popular **3450 C** model with its **8 GALLON CAPACITY** and **18" SCRUBBING WIDTH** is now available in a cylindrical version and is battery powered for complete operating versatility and freedom as the **SEALED GEL BATTERIES** are maintenance-free.

The cylindrical power brush design provides truly deep cleaning performance. The **LED CONTROL PANEL** continuously provides the operator with the status of the vacuum, water flow, brush pressure and the battery status. And the stainless steel chassis and squeegee-lifting mechanism will **NEVER RUST**.

With generous capacity and **3 HOUR** operational performance, the **3450 C** is the choice for any environment with grouted floors and the need for cord-free operation.

TTB 3450 C



CYLINDRICAL BRUSH SCRUBBERS

TTQ 1535 - TTQ 3035

The scrubber for all reasons. The **TYNEX GRITTED BRUSHES** handle even the toughest jobs but it's a quick change to softer nylon brushes when the situation demands it.

The cylindrical power brush design provides truly deep cleaning performance. Excellent on all grouted surfaces, the squeegee blades on either side of the brush roll, permitting multidirectional operation - important when cleaning narrow aisles and walkways. Whether operating forwards or backwards, there is no loss in scrubbing or pick-up performance, allowing the operator to clean without the need for turning.

The pump feeds the cleaning solution to the brushes for a consistent flow of water and the easy to reach on/off water switch allows for double scrubbing.

The **LARGE REAR WHEELS** allow for easy transport while its **COMPACT SIZE**

makes it excellent in confined areas.

The adjustable ergonomic handle is comfortable to use and folds over taking up minimal space during storage or transport.



TTQ 3035/1535

See **PAGE 13** for full specs.



PROFILED RUBBER
AND CERAMIC



CARPET



VINYL

CYLINDRICAL BRUSH SCRUBBERS

**MOST VERSATILE – FROM WALL TO WALL AND INTO
THE TIGHTEST CORNERS.**

Clean virtually any floor surface. Not only carpets, hardwood, and profiled ceramics but grouted tile, rubberized floors – including uneven floors and escalators – are no obstacle for the Duplex.

Especially effective in cleaning tile grout and non-slip floors and carpet, the Duplex is incredibly light and maneuverable – no hard pushing, pulling and lifting.

Simply fill the solution tanks and squeeze the trigger to feed cleaning solution on to the twin counter-rotating brushes that scrub surfaces with aggressive action. Twin conveyors lift the dirt-filled solution from the brushes to a central recovery tank or you can choose to double scrub the area and pick up the water later. The brushes and drive unit are offset, so they work right to the edge of the machine and into difficult areas.

Duplex's remarkable performance is the result of its unique 800,000 bristle design. Its brushes, counter-rotating at 780 rpm, actively lift dirt, water and grime from the floor surface.

Brush options include 2 grades of black brushes for regular or aggressive scrubbing. Grey is the standard all-purpose brush and yellow is for sensitive carpet areas.

• EFFICIENT • HYGIENIC • LESS EFFORT •

THE HEART OF DUPLEX

At the squeeze of the trigger, dual large capacity clean solution tanks dispense liquid evenly along the full length of both agitator brushes.

Simultaneously, twin conveyors lift the dirt filled solution from the brushes to a central recovery tank. The Duplex system washes,

scrubs and dries all floor surfaces in a single pass, replacing mops, buckets, scrubbers, polishers and carpet extractors with a single compact unit.

All tanks are easily accessible and removable to make filling, emptying and cleaning, simple and easy.





WOOD



NATURAL STONE



SAFETY FLOOR

DP 340 AND DP 420 HARD FLOOR VERSION



Clean right to the edge of walls



Optional escalator kit for the DP 420



DP 340



DP 420

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MODEL

DP 340

DP 420

TTQ 1535 / TTQ 3035

CLEANING PATH	11"	14"	15"	15"
SOLUTION TANK	1.1 gal.	1.6 gal.	4 gal.	8 gal.
RECOVERY TANK	0.75 gal.	1 gal.	4 gal.	8 gal.
BRUSH SPEED	780 rpm	780 rpm	1200 rpm	1200 rpm
BRUSH PRESSURE (max)	48 lbs.	57 lbs.	27 lbs.	27 lbs.
BRUSH MOTOR	1000W / 1.3hp	1000W / 1.3hp	400W / 0.5hp	400W / 0.5hp
VACUUM MOTOR	NA	NA	1000W / 1.3hp	1000W / 1.3hp
POWER CORD	35 ft.	35 ft.	65 ft.	65 ft.
WEIGHT	48 lbs.	57 lbs.	84 lbs.	90 lbs.

SEE THE DP 420 IN ACTION - WWW.NACECARE.COM/VIDEO

FLOOR MACHINES

LL 316 STRUCTURAL AND MECHANICAL FEATURES

With a 13" deck, 200 rpm of muscle and a weight of only 40 pounds, the 316 is compact enough to handle just about any job, anywhere.

NS 17 - NS20 STRUCTURAL AND MECHANICAL FEATURES

With a 1.5 hp. motor, triple planetary gears and over 90 pounds of weight, our NS series provides everything the most demanding commercial user requires. And the convenient cord restraint is the icing on the cake.



The handy solution tank (standard) turns the 316 into a portable cleaning system. See how easily it folds for shipping and storage.



With a profile of only 7.5", it can go places no other machine can



Compact folding for easy shipping and storage



LL 316



NS 17 / NS 20

FLOOR MACHINES



NA 17SS / NA 20SS

All steel construction and dual planetary steel gears make these tough enough for the heaviest of jobs. Shown with optional shampoo tank.



NA 20 DS

All steel construction, a 1.5hp DC rectified motor and dual planetary gears. It has the option of running at 175 RPM or 300 RPM allowing it greater versatility in use.



NA 1520/1520 DC / NA 2020*

The all steel construction and 1.5hp DC rectified motor ensure these units can handle the toughest of jobs. Multi-grooved drive belts provide efficient power transfer. Our dust control (DC) model has a unique filter system that is easily cleaned and easily changed.

* NA 2020 available in U.S. only

MODEL

LL 316

**NS 17 SS
NS 20 SS**

**NA 17 SS
NA 20 SS**

NA 20 DS

**NA 1520/1520 DC
NA 2020**

BRUSH MOTOR	0.5hp	1.5hp, AC	1.5hp, AC	1.5hp, DC Rectified	1.5hp, DC Rectified
WEIGHT	40 lbs.	90/92 lbs.	91/96 lbs.	108 lbs.	112 lbs.
POWER CORD	50 ft.	50 ft.	50 ft.	50 ft.	50 ft.
VOLTAGE	115V, 60hz	115V, 60hz	115V, 60hz	115V, 60hz	115V, 60hz
PAD SIZE	13"	17" / 20"	17" / 20"	20"	20" (19" for 1520 DC)
SPEED	200 rpm	175 rpm	175 rpm	175 / 300 rpm	1500 / 2000 rpm
TANK CAPACITY	1 gal. (included)	2 gal. (optional)	4 gal. (optional)	4 gal. (optional)	N/A

GEL BATTERIES

FEATURES

NaceCare provides 100% gelled electrolyte batteries with all our Twintec scrubbers. They save time because they're totally maintenance-free with no terminal corrosion, ever.

They provide the operator with a high degree of safety – sealed in a spill-proof enclosure, no acid can spill due to improper maintenance or handling and no emergency spill kit is needed. With the fully self-diagnostic, on-board charging system they can be charged anywhere, without special ventilation, because minimal hydrogen gas is given off during charging. And they are completely explosion proof – making them the safest battery available anywhere.

RECYCLING

NaceCare offers a complete Gel or Wet Lead Acid battery recycling program. Virtually 100% of the returned battery is re-used. Ask your NaceCare representative for details.

BENEFITS

- Both Economically and Environmentally safer to use.
- Completely spill proof with no emergency spill kit or safety goggles required.
- Will not leak acid if damaged. The internal liquid is a thixotropic paste – when the battery is not charging, the paste is a solid gel.
- They are considered non-hazardous materials to transport.
- They are completely explosion proof.
- Guaranteed longer life than wet batteries – less waste to disposed of.
- Can be charged anywhere without special ventilation.
- Give off 1/40 the hydrogen of wet batteries when charging.
- Totally maintenance-free. No terminal corrosion ever.

Part no. IS1003V0809 Printed in Canada

MODEL

TT 3450 / 4550

TTB 3450 / 3450C

TTB 4550 (T) / 4552

TTB 6652 T

CLEANING PATH	17" / 20"	17" / 18"	20" / 21"	26"
PAD SIZES OR BRUSHES	17" / 20"	17" / 18"	20" / 2-11"	2-13"
SOLUTION TANK	8 / 11 gal.	8 gal.	11 gal.	16 gal.
RECOVERY CAPACITY	8 / 11 gal.	8 gal.	11 gal.	16 gal.
BRUSH PRESSURE (low)	NA	58 lbs. / NA	61 / 91 lbs.	NA
BRUSH PRESSURE (med.)	NA	65 lbs. / NA	68 / 98 lbs.	NA
BRUSH PRESSURE (high)	80 / 105 lbs.	72 lbs. / 30 lbs.	75 / 105 lbs.	80 lbs.
BRUSH SPEED	180 rpm	150 rpm / 1000 rpm	150 rpm	200 rpm
BRUSH MOTOR	1000W-1.3 / 1200w-1.6hp	400W-0.5hp	400W-0.5hp	400W-0.5hp
TRACTION MOTOR	NA	NA	NA / 250W-0.3hp (T)	250W-0.3hp
TRACTION SPEED	NA	NA	NA / 0-2.5mph (T)	0-2.5mph
VACUUM MOTOR - POWER	1000W-1.3hp	400W-0.5hp	400W-0.5hp	400W-0.5hp
POWER CORD	65 ft.	NA	NA	NA
WORKING CAPACITY(sq.ft/hr.)	NA	13,000	15,000	26,000
RUN TIME	NA	2.5 - 3.5 hrs.	2.5 - 3.5 hrs.	3 - 4 hrs.
BATTERIES - GEL	NA	2 x 100ah	2 x 100ah	4 x 100ah
WEIGHT (with batteries)	125 / 150 lbs.	268 lbs.	277 / 320 lbs.	528 lbs.

NaceCare carries a full range of cleaning solutions to meet your needs. Ask your NaceCare representative for the latest catalogues.

- Commercial Cleaning Equipment
- Janitorial Carts and Restroom Care
- Carpet Maintenance Systems
- Floorcare Equipment
- Hospitality

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