

# Advance Hydro-Retriever™ 3200/3200C Rider Automatic Scrubbers



## The high-production choice for:

- Shopping malls
- Large retail stores
- Schools and Universities
- Hospitals/health care facilities
- Warehouses
- Government buildings and installations

Nilfisk-Advance developed the *Hydro-Retriever 3200* for rider efficiency in narrow aisles, congested areas, and getting through doorways.

This battery-powered volt rider scrubs a 32 inch (81 cm) path, and cleans up to 46,200 square feet (4292 m<sup>2</sup>) per hour. A 39 gallon (147 l.) solution tank gives the 3200 a range of up to 60,060 sq. ft. (5580 m<sup>2</sup>) per tankful.

The automatic solution control system feeds cleaning solution to the dual 300 r.p.m. scrub brushes, which have two pressure settings – normal pressure for routine scrubbing, and high pressure for more difficult scrubbing. The scrub deck floats over uneven floors for consistent cleaning. An optional feature shifts the scrub deck to the right 3 inches (8 cm) to reach under overhanging obstacles. The 3200 is also available with cylindrical scrub brushes for simultaneous sweeping and scrubbing of grouted or seamed floors.

After scrubbing, a vacuum-squeegee system

## Standard equipment:

- Hour meter
- Battery condition gauge
- Automatic solution control system
- Automatic squeegee raise/lower system
- Automatic brush and vacuum on/off
- Front corner roller bumper protectors
- Seat safety switch
- Electrical system safety shut-off switch
- Horn
- Parking and service brake
- Dynamic electrical braking, plus dual rear brakes
- Programmable speed controller

collects dirty solution. The center-pivot squeegee follows the scrub path, even on 180° turns, so floors are left dry for immediate traffic. The squeegee assembly is corrosion-proof stainless steel, and can be adjusted for wear and to optimize pick-up on various floor surfaces.

The 39 gallon (147 l.) recovery tank has a float system that shuts down the vacuum air in-take, preventing overflow when full. A vacuum filter protects the motor, and is easy to access for cleaning. Tank empties through flexible, stretching, 2 inch (50mm) diameter drain hose, conveniently located.

The operator position offers a clear view for safe maneuvering, and simple, one-touch electronic controls are ergonomically positioned.

Ask an Nilfisk-Advance Representative for a demonstration of the cost-saving *Hydro-Retriever 3200*.



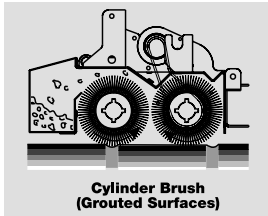
# Advance

by Nilfisk-Advance

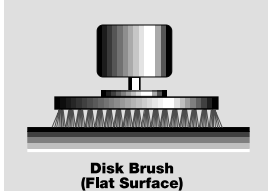
# Advance Hydro-Retriever™ 3200/3200C Rider Automatic Scrubber

## Setting Standards...

- Our products are value-priced to give you the best combination of price and performance for your investment.
- You can get expert service and maintenance for your products by factory-trained personnel around the world, as well as fast parts delivery.
- Maintain peak performance with genuine **apa** parts.



**Cylinder Brush**  
(Grouted Surfaces)



**Disk Brush**  
(Flat Surface)

The *Hydro-Retriever 3200* can be ordered with either disk-type scrub brushes (model 3200) or a cylindrical scrub brush (3200C). Disk brushes bring more scrub pressure to bear on smooth floors with stubborn dirt build-up. Cylindrical brush bristles get into floor seams or grout lines between tiles, and can sweep up light litter at the same time to eliminate streaks.



Stretchable two inch (50 mm) diameter hose drains recovery tank fast. Solution tank also has drain hose.



Seat lifts to give ready access to the 36 volt battery power source for maintenance. A seat switch and electrical system shut-off switch both help assure safety if an emergency situation occurs.

Rugged polyethylene solution and recovery tanks are crack, dent and chemical resistant.

Solution tank has drain hose, and solution feed hose has an in-line filter.

"Quick-release" squeegee assembly removes easily to get through narrow doorways, or for blade replacement.

Operator's position offers comfortable, open seating with excellent work view.

Integrated touch pad control panel.

Steering column is adjustable for comfort; tilts upright for easy boarding.

Front wheel drive and steering gives traction and maneuverability.

## Technical Specifications

**Cleaning Width:** 32 inches (81 cm)  
**Coverage Rate:** 46,200 sq. ft. (4292 m<sup>2</sup>)/hour (theory)  
31,414 sq. ft. (2918 m<sup>2</sup>)/hour (actual)

**Solution Tank:** 39 gal. (147 l.) capacity, roto-molded polyethylene, w/drain hose.

**Recovery Tank:** 39 gal. (147 l.) capacity, roto-molded polyethylene tank, equipped w/ball-float vacuum air shutoff. 2 in. (50 mm) diameter drain hose.

**Scrub Brushes:** 3200 – Two 17 in. (43 cm) diameter disk brushes or pad holders,  
3200C – Two cylindrical brushes with 12-row, spiral pattern polypropylene (std.) bristles. 5.75 in. (14.6 cm) diameter, 31 in. (79 cm) long.

**Brush Speed:** 3200 – 300 r.p.m.  
3200C – 900 r.p.m.

**Brush Pressure:** Variable from 64-250 lbs. (29-113 kg) on the disk brush model, 75-200 lbs. (34-90 kg) on cylindrical brush model. Electronically monitored.

**Brush Drive:** 3200 – 2 hp, 1500 watt motor with two right-angle worm-gear drives to brushes. Electronic current sensing adjusts for normal and heavy scrubbing.  
3200C – two .75 hp, 560 watt motors on opposing ends, poly-V belt brush drive.

**Cylindrical Scrub Deck:** Includes 550 cu. in. (9 l.) capacity hopper for collecting small debris or litter. Side skirts constrain solution, even on turns. Electric actuator raises/lowers deck.

**Disk Scrub Deck:** Optional electric swing-out design shifts deck 3 in. (76 cm) right to get under overhangs. (Disk model only.) Side skirts constrain solution even on 180° turns.

**Vacuum Motor:** .75 hp, 570 watt, three-stage.

**Squeegee:** Center pivot, 45 in. (114 cm) w/four-sided wiping blades. Automatically raises electrically when backing up.

**Drive System:** 1.6 hp, 1200 watt motor with gear transmission. Programmable speeds with dynamic braking.

**Power Source:** Six 6 w/235 amp hour (@ 20 hour rate) or 395 AH batteries available.

**Sound Level:** 75 dBA @ operator position.

**Controls:** Single-touch scrubbing, normal or heavy mode. All functions automatic.

**Construction:** Solid 10-gauge unitized steel frame is zinc-plated, yellow chromated and painted to resist rust.

**Min. Turn-around Aisle Width:** 76 in. (193 cm)

**Weight:** w/o batteries – 890 lbs. (404 kg)  
w/batteries – 1610 lbs. (730 kg)  
Shipping – 1785 lbs. (810 kg) w/battys.

**Part Number:** 3200 – 56 407 363 (with 238 amp hr batteries, 20 amp charger)  
3200 – 56 407 000 (with 395 amp hr batteries, 36 amp charger)  
3200C – 56 407 496 (w/238 amp hr battys, 20 amp charger)  
3200C – 56 407 497 (w/395 amp hr battys, 36 amp charger)

Specifications are subject to change without notice.



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