



COMMERCIAL PRODUCTS  
(406) 248-3141 • 1-800-735-2879

# Windsor Innovations

Making indoors cleaner and outdoors greener



Protecting People



Protecting Indoor Environments



Protecting Natural Resources



# Protection Drives Innovation at Windsor

Protecting People  
Protecting Indoor Environments  
Protecting Natural Resources

Much is in the news today about Green Cleaning, a trend that Windsor—with our headquarters in the Rocky Mountains of Colorado—adopted years ago before it became the buzz. This commitment is evidenced by our innovative product introductions which incorporate all that is at the heart of the Green movement.

Windsor has invested heavily in innovations such as AquaMizer™ that conserves natural resources. The Chariot® line of products was designed by ergonomic experts to reduce injuries caused by muscular and skeletal strain. The DUO line of deep extraction & interim cleaning equipment in conjunction with the iCapsoI™ encapsulation chemicals protect both the indoor environment, natural resources and people.



## Protecting People

Windsor consulted with experts in ergonomics, sound acoustics, muscular & skeletal fatigue and operational safety for innovative product designs.



Windsor vacuums and carpet extractors are certified by CRI.



Windsor is a participating member of the USGBC and is supportive in LEEDS certification.



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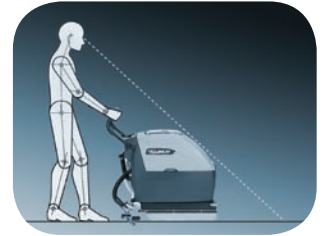
# Ergonomic Innovations

The Chariot platform of stand-up equipment is designed to position operator's knees in a slightly forward tilted position to reduce muscular and skeletal strain.



The iCapsol Mini™ is designed with comfort grip handles that reduce vibration and correctly position hands to lessen muscular fatigue.

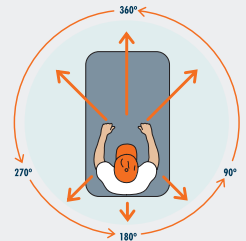
Windsor measures the stride distance from the handle to the machine to reduce fatigue caused by improper operator position.



Windsor provides multiple-position handles that allow adjustment for operator height and repositioning to reduce muscular and skeletal strain.

# Safety Innovations

Windsor measures full circle sight lines that meet the height requirements for 95% of all operators for added safety.



Windsor incorporates Auto Stop controls—when the operator releases the control, the unit stops in either forward or reverse mode.

The battery exchange system is designed to eliminate operator injury caused by removing industrial size batteries for service.





# Protecting Indoor Environment

## Contaminant Removal Innovations

The iCapsol encapsulating interim cleaning technology was developed for removal of soil and other contaminants. The chemical breaks down and then surrounds the soil and other detergent residue from previous cleaning. It dries into a hard, non-sticky crystal, encasing the soil in about 20 minutes. The dried crystals can easily be removed by vacuuming. The low moisture chemical process dries quickly and does



New product introductions incorporate dual brushes that remove soil and contaminants from both sides of the carpet nap in one pass, along with dual scrubbing brushes for total hard surface cleaning.

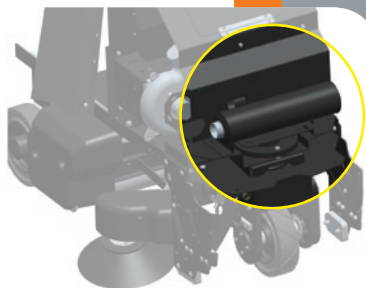


HEPA filtration from Windsor Vacuums removes 99.97% of air particles at 0.3 microns.



## Noise Pollution Innovations

To reduce noise impact on the operator from the powerful Chariot iVacuum™, Windsor designed the dB-Reducer to reduce the noise level to 69 dBA. Windsor upright vacuums have dBA's as low as 65.



## Indoor Air Quality Innovations

Windsor offers the most advanced technology in sealed, maintenance-free AGM batteries that protect the operator from chemical and atmospheric contamination.

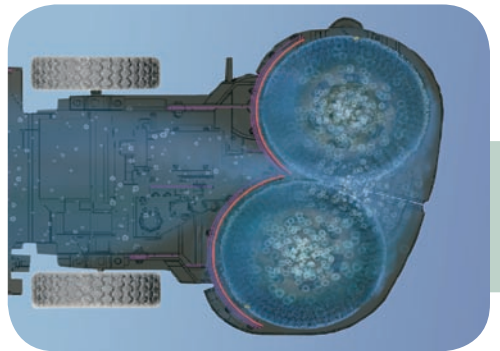




# Protecting Natural Resources

## Water Conservation Resources

The AquaMizer and iCapsol interim products reduce water usage by 50% and chemical usage by up to 60%. These innovations also contribute to the H2E reduction goals for non-hazardous material.



The Aqua-Mizer extends scrubbing times between refills up to 50% by using cleaning solution more efficiently. The patented design of the Aqua-Mizer combines two additional squeegees that are positioned behind the cleaning brushes or pads that secure and retain the cleaning solution for an extended period versus conventional auto scrubber systems. The solution flows down through two counter-rotating brushes, which push it forward for extra cleaning time. The scrubbing solution is held forward by the Aqua-Mizer squeegees before it is released to the rear of the machine where it is vacuumed off the floor. The key to this simple, effective system is keeping the scrubbing solution in the scrubbing area longer, which allows the solution flow to be set at the lowest level.



The new DUO interim & deep carpet extractors, Chariot iCapsol, and Chariot iExtract™ save both water and chemicals utilizing iCapsol encapsulation dispensing systems.

# Sustainability

## Windsor...Creates Sustainability

- Windsor designs for quality—not for the landfill.
- Windsor provides easy-to-follow preventative maintenance charts for the operator, increasing the life cycle of every product.
- Warranty claims, as a percentage of sales, is less than 0.5%.
- In a recent market survey, Windsor confirmed hundreds of Versamatic vacuums still functioning after 25 years in operation.

## Investments in “Greening” Windsor

- Manufacturing waste water is processed and tested to the strictest limits before release into the city sanitation sewer system.
- Water from testing machines is collected for environmental screening and processing.
- An advanced design, natural gas roto-molding machine is used in the plant, a process that is highly gas efficient.
- Used oil and batteries are recycled through certified vendors.
- Plastic scrap is re-ground and sold to local recyclers.
- Supplier inbound packaging material is returned for reuse.
- Million dollar investment in a new laser cutter that reduced metal scrap to 2%
- Packing materials now 100% recyclable





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Windsor Industries manufactures a full line of innovative floor maintenance equipment including:

- » Carpet Extraction Systems
- » Vacuum Products
- » Floor Scrubbers and Sweepers
- » Floor Machines and Burnishers



**INNOVATIVE EQUIPMENT SOLUTIONS**

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