

RAZOR®



Razor® Touch Free Vehicle Wash

Washworld's best selling Razor® has earned the reputation of a proven system for its quality, dependability and longevity. Stainless steel throughout, Razor is built to last, no matter the conditions, no matter the part of the world your wash site is located. With an emphasis on simplicity of use and reduced maintenance, Razor combines all of the great features for which Washworld is known. For a bigger return on investment, it's time to join the Razor Revolution.

WASHWORLD®

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The Razor Advantage

Razor Advantage - For You

- **Stainless Steel** – without a doubt, the most durable material for use in a car wash. When other manufacturers are using cheaper, less durable materials in their machines, Washworld refuses to compromise on quality and uses stainless steel throughout the Razor wash system.
- **E-Chain®** – Razor's revolutionary cable carrier protects moving cables and hoses from abrasion and entanglement. E-Chain also provides controlled bend radius of cables and hoses to prevent pinching or kinking. E-Chain's non-metallic construction ensures quiet performance, longer cable life, and extended supply line life.
- **Advanced Drive Motion Technology** – Razor's belt drive utilizes multiple variable frequency drive technology with a simple design that reduces downtime. It eliminates the need for tires and inner tubes and overhead cross brace and swivel and reduces weight.
- **Reduced Maintenance** – Sealed gearboxes eliminate the need for oil changes. Reduced weight and less motion equal less wear and tear. High quality premium components and materials withstand harsh wash bay conditions for longer life.
- **Quicker Return on Investment** - Energy efficient motors save on operating costs. Reduced rolling resistance results in improved efficiency. No wasted product, reduced water consumption, increase through put, and lower operating costs all add up to a higher and faster return on investment.

Razor Advantage - For Your Customer

- **Open Inviting Wash Bay** - Your customers will appreciate the wide open feel of the wash bay. Razor's VS²® is a safe, simple and reliable vehicle positioning system which provides your customers with a friendly, open wash bay without guide rails, floor treadles or T-bars. To increase customer comfort Razor utilizes bay guide reflector system to outline vehicle travel, day or night.
- **Superior Cleaning Ability** - Razor's VS²® provides exceptional cleaning by consistently measuring front, rear and both sides of vehicles to maintain the optimum distance between the arch and the vehicle for most effective cleaning. Smooth radial wash motion ensures complete vehicle coverage.
- **Eye Catching LED's** - For can't miss customer attraction, brilliant LED lights illuminate Razor. These striking long lasting LEDs are standard on all Razor wash systems.
- **Voice Prompts** - Your customers will never need to guess what to do next with Razor's voice prompts. Audible instructions and information are linked to Razor's instructional signage. Standard on Razor, the voice prompt is in English, however is customizable for other languages.



RAZOR
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All of Washworld's Best Features In One System

• Washview® & Washview Remote™

Washworld's exclusive software allows you to access Razor from anywhere using your PC or laptop. Turn functions on or off, view wash counts, create or change wash events in real time, and so much more. The revolutionary design of our optional Washview Mobile features the same cutting edge technologies as Washview Remote with the additional ability to receive e-mail or text message alerts from anywhere in the world using your Tablet or Smart Phone.

• Virtual Attendant®

Washworld's patented Virtual Attendant technology enables the Razor to maneuver around obstacles such as wide mirrors, rear mounted bike racks and extended trailer hitches which often render other washes inoperable. Virtual Attendant automatically compensates for the obstacle thereby allowing the wash to be completed. This means no down time, no attendant and no more trips to the site to reset the wash! Best of all...it's standard on every Razor wash!

• Bug A'Salt™

Washworld is launching an all out war on bugs and salt residue with our extra step vehicle preparation Bug A'Salt. This unique concentrated attack targets bugs and salt film which leaves vehicles cleaner and your customers happier.

• Flex Pass® System

Also standard on the Razor is Washworld's Flex Pass system. This stainless steel, angled flood style pod and overhead 6 nozzle stainless steel manifold delivery system applies up to eight different applications to the entire vehicle (top, sides, front and rear), each product can be applied to the vehicle in a single pass. Anything that can be put through the arch, can be put through the Flex Pass. The angled flood style pod and overhead manifold provide a more accurate and complete product application and rinse. Applications can be programmed from front to rear or rear to front to minimize machine movement. This speeds up the wash process to increase the through put of cars, which in turn translates into greater profits for you. Speeds are adjustable individually in both directions. Since the arch does not rotate around the car, it results in a substantial savings in time as well as reduced product cost.

• Foam 'n Flow®

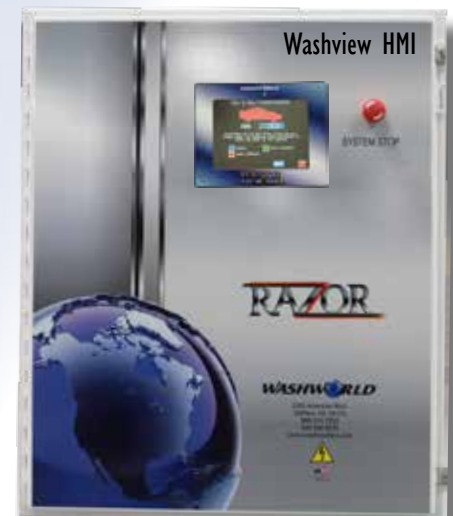
More show, more shine, more revenue with Washworld's Foam 'n Flow application system now available on Razor! Fully LED lit, Foam 'n Flow can be used with any Carnuba, hot wax, polish, and conditioning products on the market. Currently an option on the Washworld Razor, Foam 'n Flow is available as a retro-fit for existing equipment.

• Tri-Color Foam

There is simply no better Tri-Color Foam application available! Washworld's Tri-Color Foam features completely adjustable nozzles for coverage the way you want it, where you want it. Foaming heads can be positioned individually allowing unlimited flexibility.

• Tri-Color Foam - Freeze Protection

Finally, a cost effective means of protecting your Tri-Color Foam system utilizing heat and weep capabilities to prevent freezing without the typical extreme water usage of other systems.



RAZOR®

STANDARD FEATURES

- Virtual Attendant® - Like Having an Attendant at your Wash 24/7
- Washview® Controller with Exclusive Washview Remote™ Software Includes Alert Paging
- All Stainless Steel Wall Mounts, Rails, Carriage and Trolley Assemblies
- Belt Drive Technology Eliminates Need for Tires
- Smooth Radial Arch Motion Utilizing Multiple Variable Frequency Drives
- Pumping Station with either CAT or General Pump
- Eco-Friendly Resource Conservation System
- ETL/ETLc Approved and CE Compliant
- Adjustable Pressure Under Body and Rocker Blasters
- Direct Feed Solutions System with 3 Step Presoak, Single Low Pressure and Two High Pressure Applications
- Programmable Intake Source - Hot or Cold Water
- Triple Pass Technology for Optimal Front and Rear Cleaning
- Audible Voice Prompts
- Eye-catching LED lighting
- Bug A' Salt® Vehicle Preparation
- Washes Smart Cars Up to Quad-Cab Dualies - No Special Programming Required
- Comprehensive Integrated Security System - Can Monitor Auto Cashiers, Doors, Fluid Levels, etc.
- Wash Activation Buy-Up Compatible
- Flex Pass System - Increases Through-put
- VS2® (Vehicle Sizing System) - Clean, Treadle-free Design

OPTIONS

- Premium or Ultimate Door Control Systems
- Free Standing Frame
- Cold Climate Package
- Tri-Color Foam System
- Foam 'n Flow®
- Integrated On Board Drying System
- Power Tower®
- Reclaim/RO Reject/Hot Water
- Unique or Custom Graphics
- Washview Remote High Speed and Washview Mobile
- Tri-Foam Cold Climate Heat/Weep System
- In-Bay Pump Station
- Customized Audible Voice Prompts

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SPECIFICATIONS

Equipment Envelope Requirements does not include obstructions, etc.

	Wall Mount (13'4" to 16'8" bays):	10' 8" minimum (floor to open cover height)
Height	Wall Mount (16'9" to 18'0" bays):	11' 4" minimum (floor to top of wall bracket)
	Floor Mount:	11' 9" minimum (floor to top of truss)
Width	Wall Mount:	13' 4" minimum to 18'0" maximum
	Floor Mount:	14' 4" minimum (no maximum)
Length	Wall Mount:	27' 10" minimum with standard 27' 4" rails
	Floor Mount:	27' 10" minimum with standard 27' 4" rails

Note: The On-Board Dryer requires a length of 31' 4" minimum with optional 30' 4" rails

RAZOR UTILITY REQUIREMENTS

Air	11 CFM @ 100 PSI minimum (with optional Tri Foam)
Water	25 GPM @ 35 PSI minimum at pump station
Electrical	All voltages 3 phase, 4 wire (neutral and ground)

Voltage	UCC Cabinet	Razor		Dryer Motor Starter Panel	Optional Cold Climate Package
		Pump Station	30 HP - 40 HP - 45 HP		
208	23 Amps	73 Amps	87 Amps; 114 Amps; 135 Amps	14 Amps	
230	20 Amps	62 Amps	75 Amps; 100 Amps; 111 Amps	12 Amps	
460	N/A	31 Amps	37 Amps; 50 Amps; 68 Amps	N/A	

Note: Specifications Subject to Change Without Notice. The decibel level of the dryer (measured at 1.6 meters from the floor and 1 meter from the surface) is 94dB. The decibel level of the pump station (measured at 1.6 meters from the floor and 1 meter from the surface) is 94dB. Decibel levels are impacted by surrounding materials and conditions and will vary.