APEX PROFILE



HYBRID
VEHICLE WASH SYSTEM

WASHWORLD®

www.washworldinc.com | 920.338.9278 | 888.315.7253



MISSION STATEMENT

Washworld, Inc. will provide the most user friendly, technologically advanced and consistently reliable in-bay automatic car wash systems available. Our highly trained, experienced professionals will strive to exceed our customers' expectations while creating employee, distributor and customer relationships that will last a lifetime.

TABLE OF CONTENTS

01-16 PROFILE® APEX

01 - 06 STANDARD FEATURES
07 - 10 OPTIONAL FEATURES
11 HEAVY DUTY PUMP STATION
12 MEDIUM PRESSURE SDS
13 IN-BAY PUMP STATION
14 STANDARD FEATURES - QUICK LIST
15 OPTIONAL FEATURES - QUICK LIST
16 PROFILE APEX SPECS

17-19 DRYING SYSTEMS

17 HIGH VELOCITY VEHICLE DRYING SYSTEM
18 ON-BOARD VEHICLE DRYING SYSTEM
19 LUMENDRY™ - OPTIONAL DRYER SYSTEM FEATURE

20-21 SIGNS

22 WATER TREATMENT

23 CUSTOMER SERVICE

24 WARRANTY



APEX PROFILE

Washworld's Profile® Apex hybrid vehicle wash system is specifically designed to give you the best of both worlds. It combines Profile's soft touch technologies with Washworld's advanced touch-free technologies giving you the freedom to offer a totally touch-free experience, an entirely soft touch experience or a seamless combination of both. Like all of Washworld's systems, Profile Apex was designed with emphasis on durability, simplicity of use and reduced maintenance.

WHAT MAKES PROFILE APEX DIFFERENT?

DOUBLE BARREL CONTOURING OVERHEAD ARCH

The Apex Double Barrel contouring overhead arch consists of a protective polyethylene cross-link face foam that houses the nozzles and dual overhead manifolds. A stainless steel valance conceals the top energy chain and a secondary sensor array was included for additional safety.

Apex utilizes dual overhead manifolds (low pressure and high pressure) for solution applications, high-pressure cleaning, and rinsing. Digital Surface Profile (DSP) is the advanced method of reading a vehicle's contours to allow rotation of the overhead manifold keeping it perpendicular to the vehicle surface and a prescribed distance from the vehicle resulting in optimal cleaning of front bumper/grill, windshield/mirrors, rear window visor and rear bumper.

The stainless steel low pressure manifold utilizes 10 top VeeJet nozzles for applying low pressure pre-soak functions to all horizontal surfaces of the vehicle. The high pressure manifold utilizes 16 top stainless steel zero degree rotating turbo nozzles.





DOUBLE BARREL WITH ADJUSTING SIDE ARCHES

Apex is equipped with dual side manifolds (low pressure and high pressure). Digital Surface Profile (DSP) is the advanced method of locating the vehicle then adjusting to the measured location of the vehicle's sides and position in the wash bay. DSP enables the Double Barrel side arches to adjust for various vehicle sizes and location in the bay providing the most precise cleaning possible.

The stainless steel low pressure manifold utilizes 14 VeeJet nozzles (7 on each side) for applying low pressure pre-soak functions to all vertical surfaces of the vehicle. The high pressure side manifolds utilize 26 stainless steel zero degree rotating turbo nozzles (13 on each side).
**Shown with optional Touch Power Wheel Detailer™*



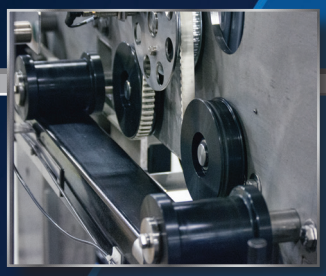


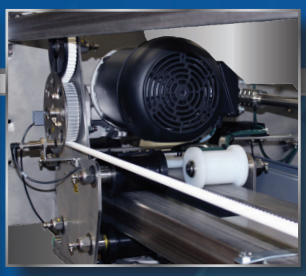
DOUBLE STACKED ENERGY CHAIN

The Apex revolutionary double stacked cable carrier protects moving cables and hoses from abrasion and entanglement in a compact, space saving design. The double stacked feature makes the overall width smaller allowing the machine to fit in narrower wash bays. The energy chain also provides controlled bend radius of cables and hoses to prevent pinching or kinking. The non-metallic construction ensures quiet performance, longer cable life and extended supply line life.



LONGEVITY / ROI





STAINLESS STEEL
Without a doubt, the most durable material for use in a car wash is stainless steel. When other manufacturers are using cheaper, less durable materials in their machines, Washworld refuses to compromise on quality and uses stainless steel throughout. Stainless steel is used for Apex's wall mounting system, travel rails and laser cut overhead wash carriage.

ADVANCED DRIVE MOTION TECHNOLOGY
Apex's belt drive utilizes multiple variable frequency drive technology with a clean and simple design. The dual side wash media's lineal motion is belt driven with independent movement while the variable frequency drive controls the side and top wash media to ensure a smooth operation and a precise application of all solutions and water. What does this mean for you? Fewer moving components, less weight, reduced maintenance and a quicker return on investment!

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.

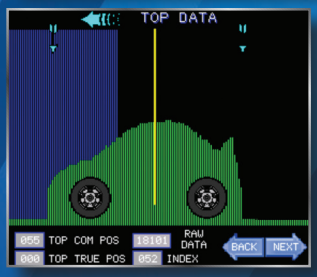


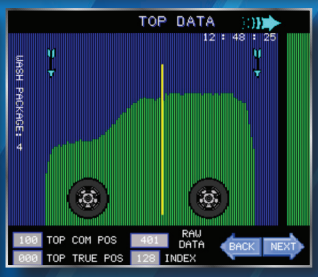
DSP DIGITAL SURFACE PROFILE

DSP - WASH MEDIA CONTROL
Washworld's exclusive DSP system is the advanced method of reading a vehicle's contours to allow for the most precise cleaning possible. Utilizing 3D imaging, DSP enables Apex to adjust for various vehicle surfaces to deliver a wash that reaches every angle with Apex's super soft polyethylene foam wash media.

DSP - DOUBLE BARREL CONTOURING OVERHEAD MANIFOLD CONTROL
DSP is the advanced method of reading a vehicle's contours to allow rotation of the overhead manifold keeping it perpendicular to the vehicle surface and a prescribed distance from the vehicle resulting in optimal cleaning of front bumper/grill, windshield/mirrors, rear window visor and rear bumper. DSP ensures that products are applied to the vehicle not the floor, which saves money and reduces wash times by customizing the travel distance of Apex based on the length of each individual vehicle.







VS2® VEHICLE SIZING SYSTEM

Especially important when positioning vehicles within a soft touch vehicle wash bay, Washworld's Vehicle Sizing System (VS2®), with precise loading feature, utilizes advanced software coupled with photo eye technology to provide a safe and reliable means of positioning the vehicle in the wash bay. This eliminates the need for floor mounted treadle plates or wheel stops, resulting in a significant reduction in wiring and fewer components to maintain.



FLEX PASS®

Washworld's Flex Pass® dual application system consists of stainless steel, angled flood style pods and an overhead 6 nozzle stainless steel manifold that applies up to 8 different applications to the entire vehicle (top, sides, front and rear). The Flex Pass application system is mounted on both the entrance and exit end of the Apex carriage. This allows for two product applications to be applied to the vehicle in a single pass. Applications can be programmed from front to rear or rear to front to minimize machine movement. The speeds are adjustable individually in both directions which expedites the wash process to increase the throughput of cars, which in turn translates into greater profits for you!



WASH MEDIA

INNOVATIVE WASH MEDIA
Apex's super soft blue side and top polyethylene foam wash media comes equipped with Clean Rinse, Washworld's wash media cleaning and lubricating system. The Clean Rinse System keeps the media from retaining dirt and debris which results in the best possible customer experience.

PROFILE APEX MIRROR DETAILER
The mirror detailer feature offers the ability to increase throughput by cleaning both sides of mirrors using a single soft touch pass. The wash media pass can start at the front or the rear.

SIDE BRUSH EXCHANGE
This feature is an added benefit to customers that run a single side brush on the front and rear of a vehicle. When enabled, it will start front and rear side brush passes using either passenger side or driver side brush for each wash ensuring that both the left and right brushes are used equally.



WASHVIEW® HMI ON-SITE

With Apex's standard Washview® HMI On-Site, a color touch screen gives you complete access to Apex including programming, maintenance, diagnostics and wash counts. No on-site PC or laptop is needed to configure your wash. Apex also features a comprehensive integrated notification system which can monitor auto cashiers, doors, fluid levels and more. In addition, the Wash Package Storage capability allows for up to 16 wash packages to be retained which can be quickly copied to the immediate wash setup.



Waterproof hand held RF remote control for manual movement and machine functions

EYE CATCHING LEDS

For can't miss customer attraction, brilliant blue LEDs illuminate Apex's high gloss composite wash carriage cover.

Dual 10" long green and red LEDs line the entrance side cover, combined with audible voice prompts that coincide with the in-bay instructional signage, help to position the vehicle in the wash bay. Even when idle, the red and green LEDs can sequence to draw attention to the wash bay with an eye-catching light show.

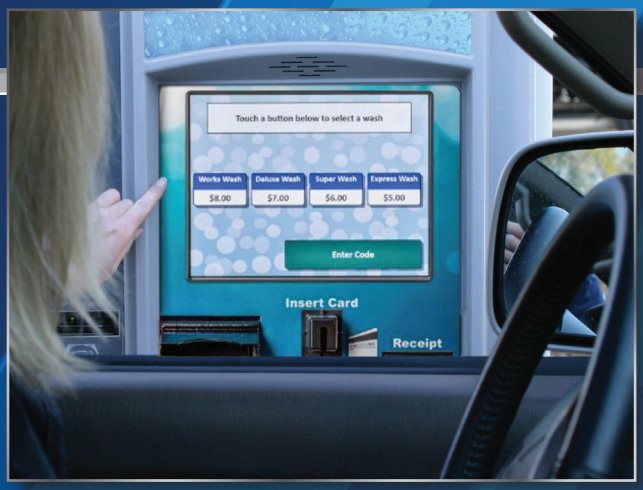






BUY-UP OPTION

The buy-up option allows your Auto Cashier to up-sell for you. Four customizable buy-ups are available for greater wash package flexibility and maximized profits!



VOICE PROMPTS

Customers will never need to guess what to do next with Apex's voice prompts! Audible instructions and information are linked to Apex's instructional signage. Standard on Apex, the voice prompt is in English, however is customizable for other languages.







WHY CHOOSE WASHWORLD?

Washworld has consistently been on the cutting edge of car wash technology. At Washworld, we are continually striving to provide technologies that improve the efficiency and quality of our wash systems while keeping them simple to operate and maintain. As a company of car wash owners ourselves, Washworld fully understands the daily challenges of running a car wash business. These challenges are the inspiration for all our technologies and are implemented for the benefit of our customers and their increased profitability.

POWER TOWER WHEEL CLEANER®

Effective wheel cleaning that will keep your customers coming back! The 40" high tower features 4 stainless steel zero degree rotating turbo nozzles, providing intense cleaning as well as great customer appeal. Power Tower Wheel Cleaner® manifolds are fabricated completely from stainless steel wrapped in a vibrant blue, rotationally molded polyethylene cover and is available with or without eye-catching blue LEDs. Not only is the Power Tower Wheel Cleaner effective for wheel cleaning, but it is great for removing snow and ice from rocker panels and running boards!



BIG SHOT
CHEMICAL TIRE APPLICATION

Big Shot™ chemical tire applicator is constructed from stainless steel and specifically designed to target your tires/wheels for impeccable results. Pre-charged solution and air manifolds are photo eye activated and software controlled with customizable settings. Two application towers with three applicator nozzles on each tower per side (driver and passenger side) provide complete coverage. Top and bottom nozzles have a 10-degree angle adapter for precise application adjustment. Each application tower can deliver a different tire/wheel cleaning product (high pH and low pH) or a dual application of the same product. No matter what size tires, Big Shot has it covered!



UNDERCARRIAGE & ROCKER PANEL BLASTER

The undercarriage and rocker panel blaster is specially designed to thoroughly attack any dirt, debris and snow on the lower portion of your vehicle. The undercarriage and rocker panel blaster consists of 11 stainless steel nozzles; 3 on the undercarriage and 4 on each rocker panel blaster.



CHEM ALERT

Monitoring your chemical levels has never been easier! Washworld's chemical monitoring system allows you to remotely monitor up to 16 different product levels by utilizing an adjustable capacitive sensor that is mounted to each chemical container. The adjustable low-level sensor triggers an alert on the Washview® and a notification is conveniently sent via email or text. Monitoring your chemical levels helps you to reduce system downtime and ensures your car wash is running smoothly.



SpectraRay™

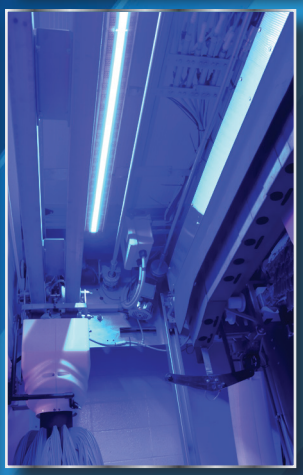
A spectacular array of 4,528 LEDs fill the wash bay with SpectraRay™! The red, magenta, blue and green LEDs are fully programmable to add splashes of various colors during any or all of the product applications to accentuate the entire wash process. The colors can sequence through flashing colors for an intense experience, switch to a steady color at any point to coincide with your wash package and even coordinate with your in-bay instruction sign. Even when idle, SpectraRay can sequence through color to draw attention to the wash bay with an eye catching light show making it unique and memorable for perspective customers!











SpectraRay+™

SpectraRay+™ works in conjunction with SpectraRay to take the spectacular LED light show to the next level!

SpectraRay+ includes an adjustable stainless steel wall mounted system, bringing the intense light show to eye level. When purchased as a stand alone option, SpectraRay+ is fully programmable. The colors can sequence through flashing colors for an intense experience, switch to a steady color at any point to coincide with your wash package and even coordinate with your in-bay instruction sign. When paired together, SpectraRay+ and SpectraRay synchronize to flood the wash bay with red, magenta, blue and green creating an ultimate light show that customers won't forget!





POWER WHEEL DETAILER™

TOUCH POWER WHEEL DETAILER

Washworld's Touch Power Wheel Detailer™ combines tire chemical application, high pressure nozzles and a soft yet durable wash media for sparkling clean results. Profile's DSP (Digital Surface Profile) identifies the size and location of the tires. The wash media rotates clockwise and counterclockwise for a precise clean every time. (Not available with Apex On-Board Dryer)

Requires Extended Solution Delivery (ESD) for chemical application.



POWER WHEEL DETAILER™

TOUCH-FREE POWER WHEEL DETAILER

Washworld's Touch-Free Power Wheel Detailer™ combines tire chemical application, high pressure nozzles and rapid wheel blasters for better than hand applied results. Profile's DSP (Digital Surface Profile) identifies the size and location of the tires for a precise wheel blast every time!

Requires Extended Solution Delivery (ESD) for chemical application.







WASHVIEW MOBILE

Washworld's optional Washview® Mobile provides virtually the same technologies as Washview On-Site (standard), however it allows you to access and control Apex from anywhere in the world via a high speed Internet connection. Washview Mobile uses the Vijeo Design'Air app (purchased separately) for your smart phone or tablet to give you mirror image access of your HMI. It even gives you the ability to receive text or email notifications to keep you fully informed!



FOAM 'n FLOW

More show, more shine, more revenue with Washworld's Foam 'n Flow® application system! It produces high end results for extra profit generation. Complete with full, dramatic product enhancing LED back-lighting, Foam 'n Flow can be used to make an impressive foaming sheet with most Carnauba, hot wax, polish and conditioning products on the market.



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 is applied through a specific Bug A'Salt manifold that targets bugs and salt film on the front bumper/grill on the first pass, then targets the windshield/ mirrors on the return motion ensuring full coverage leaving vehicles cleaner and your customers happier.

Bug A'Salt is included in the Extended Solution Delivery (ESD) option.

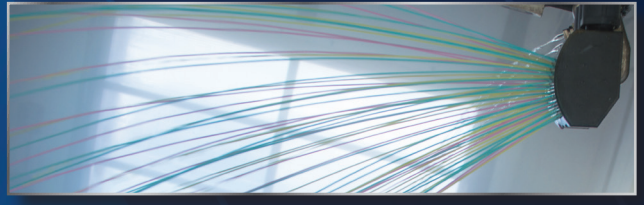




TRI-COLOR FOAM

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.





HEAVY DUTY PUMP STATION

The Profile Apex Pump Station not only comes loaded with standard features such as a poly tank, leveling feet and CAT pump complete with deluxe oil change kit, and it also includes 4 injectors; 2 pre-soaks for the top spray arch manifold and 2 pre-soaks for the side spray arch manifolds.

STANDARD FEATURES

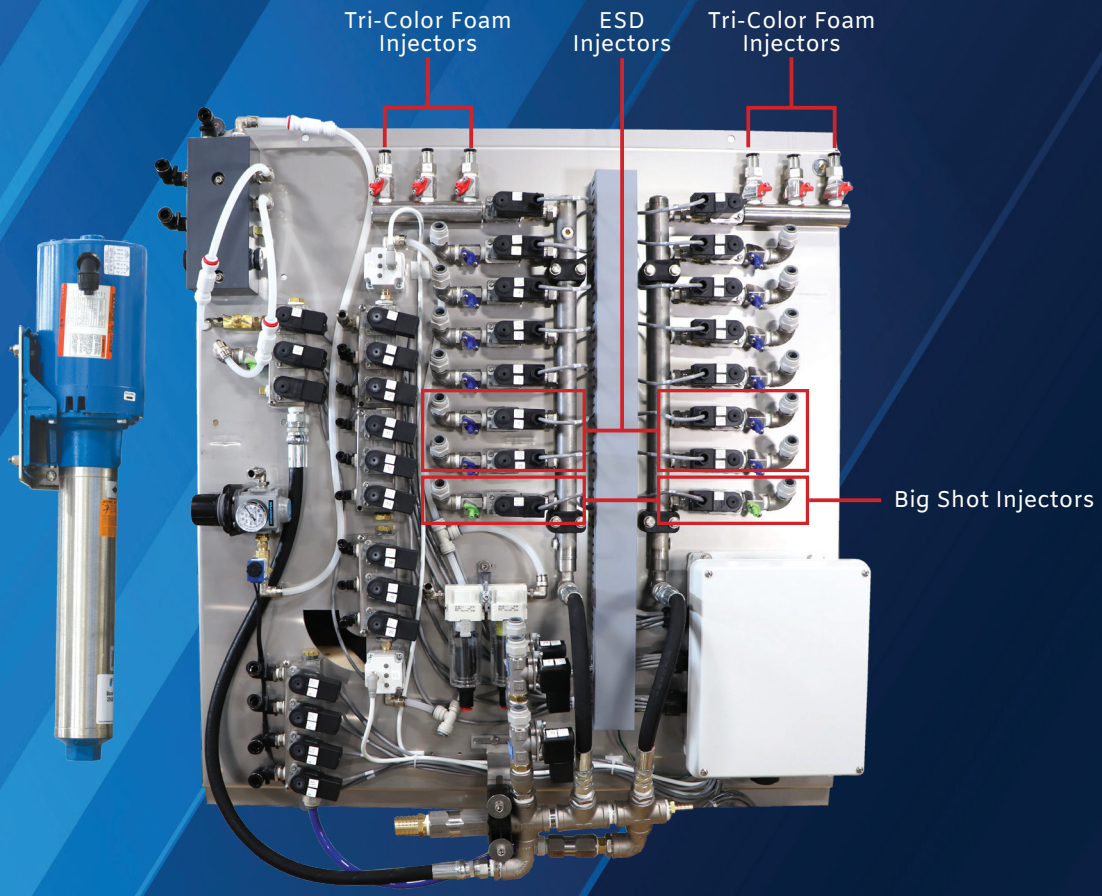
- Space saving design, simple installation, easy to maintain
- Heavy duty powder coated frame utilizes proven protective primer
- Cat 3535 Pump with deluxe oil change kit allows easy access for service
- One piece rotationally molded corrosion proof MDPE tank
- 4 Pre-soak injectors (2 top arch and 2 side arches)
- Low water level sensor to protect high pressure pump
- High level capacitive sensor, eliminates mechanical float valve
- Electronic fill valve, software controlled to extend valve life and overflow protection
- Resource conservation system lowers water consumption

OPTIONAL FEATURES

- Reclaim Adapter - for use with high pressure option
  - Plumbing inlet for Cat pump
  - Check valve installed in fresh water tank
  - Electronic signal control output for external reclaim system
- Available in different voltages
  - 208/230 (60 Hz)
  - 380/415 (50 Hz)
  - 460 (60 Hz)
  - 575 (60 Hz)



Profile Apex's wall mounted stainless steel solution delivery panel is built with high quality materials and built to last. The solution delivery pump is wall mounted utilizing its own stainless steel bracket.



STANDARD FEATURES

- Wall mounted stainless steel panel
- Wall mounted medium pressure solution delivery pump
- 8 Composite direct injectors
- Flex Pass® dual application system has the ability to apply 2 different product applications at the same time
- Direct feed solutions system provides more control
- Stainless steel chemical manifold
- Stainless steel / composite direct feed chemical delivery system

OPTIONAL FEATURES

- Tri-Color Foam application system
- Spot free re-pressurization pump
- Foam 'n Flow® application system
- High and low pressure blow down
- Extended solution delivery (ESD) including Bug A'Salt™ technology, tire wheel injector and 2 additional applications
- Dual port injector system - to replace single injector for low pressure application
- Big Shot™ chemical tire application

IN-BAY PUMP STATION

For locations without an equipment room, the In-Bay Pump Station offers the same cutting edge technology incorporated in a space saving design to be located directly in your wash bay. Featuring one piece heavy duty construction, it is designed for long life in even the harshest of conditions.



STANDARD FEATURES

- Simple to install, space saving design: 37”H x 96”L x 26”D
- Deluxe cover package with enclosed base protects equipment and looks great in your bay
- Removable panels allow for complete access and easy maintenance
- Heavy duty powder coated frame utilizes proven protective primer
- Cat 3535 Pump with deluxe oil change kit allows easy access for service
- 8 Composite direct injectors, 4 pre-soak injectors (2 top arch, 2 side arches)
- One piece rotationally molded corrosion proof MDPE tank
- Stainless steel top feed and discharge manifold
- Low water level sensor to protect high pressure pump
- High level capacitive sensor, eliminates mechanical float
- Electronic fill valve, software controlled to extend valve life and overflow protection
- Flex Pass dual application system has the ability to apply 2 different product applications at the same time
- Direct feed solutions system provides more control
- Stainless steel chemical manifold
- Stainless steel / composite direct feed chemical delivery system

OPTIONAL FEATURES

- Tri-Color Foam application system
- Foam ‘n Flow application system
- Built in spot free re-pressurization system
- High and low pressure blow down
- Extended solution delivery (ESD) including Bug A’Salt technology, tire wheel injector and 2 additional applications
- Reclaim system adapter kit
- Built in high capacity 12kw electric water heater
- Big Shot chemical tire application

IN-BAY WALL MOUNT SYSTEM - STAINLESS STEEL
- Stainless steel travel rails (34' 0" overall length)
- Stainless steel wall mounting hardware
- Floor mounted blue reflectors for visual guidance

OVERHEAD CARRIAGE AND TROLLEY FRAME - LASER CUT STAINLESS STEEL
- High gloss composite wash carriage and side wash media covers with blue LED accent lighting on entrance carriage cover
- Dual 10" long red and green LEDs mounted on entrance cover
- Variable frequency controlled belt drive carriage and trolley movements
- VS²® (Vehicle Sizing System)
- DSP (Digital Surface Profile) technology
- Composite energy chain for electrical and solution distribution
- Super soft blue polyethylene foam wash media (side and top)
- Clean Rinse System - Wash media cleaning and lubricating system
- Stainless steel carriage, climate proof motors and gearboxes
- Mirror detailer - Cleans both sides of mirrors in a single pass
- Side brush exchange

HEAVY DUTY PUMP STATION
- Space saving design, simple installation, easy to maintain
- Heavy duty powder coated frame utilizes proven protective primer
- Cat 3535 Pump with deluxe oil change kit allows easy access for service
- One piece rotationally molded corrosion proof MDPE tank
- 4 Pre-soak injectors (2 top arch and 2 side arches)
- Low water level sensor to protect high pressure pump
- High level capacitive sensor, eliminates mechanical float valve
- Electronic fill valve, software controlled to extend valve life and overflow protection

SOLUTION DELIVERY SYSTEM (SDS) / WALL MOUNTED STAINLESS STEEL PUMP PANEL
- Wall mounted stainless steel panel
- Wall mounted medium pressure solution delivery pump
- 8 Composite direct injectors
- Flex Pass® dual application system has the ability to apply 2 different product applications at the same time
- Direct feed solutions system provides more control
- Stainless steel chemical manifold
- Stainless steel / composite direct feed chemical delivery system

DOUBLE BARREL WITH ADJUSTING SIDE ACHES
- Dual side manifolds (low pressure and high pressure)
- DSP technology enables the Double Barrel side arches to adjust for various vehicle surfaces
- 14 VeeJet nozzles (7 on each side) for applying low pressure pre-soak functions
- 26 stainless steel zero degree rotating turbo nozzles (13 on each side) are utilized for high pressure

DOUBLE BARREL CONTOURING OVERHEAD ARCH
- Dual overhead manifolds (low pressure and high pressure) for solution applications, high-pressure cleaning and rinsing
- DSP technology is the advanced method of reading a vehicles contour to allow the arch to stay perpendicular to the vehicles surface and prescribed distance from the vehicle
- 10 VeeJet nozzles for applying low pressure pre-soak functions to all vehicle surfaces
- 16 top stainless steel zero degree rotating turbo nozzles are utilized for high pressure

ULTIMATE CONTROL CABINET
- Electrical control panel 208VAC (VFD controls on seven motors)
- Washview® HMI On-Site control interface - Complete on-site programming and diagnostic capability
- Wash activation buy-up compatibility
- Comprehensive integrated notification system
- In-bay voice module to communicate Apex actions to customer
- In-bay temperature monitoring system
- Waterproof hand held RF remote control for manual movement and machine functions
- Up to 16 wash packages can be saved and quickly copied to current wash packages
- Auto home feature

PROFILE APEX OPTIONAL FEATURES - QUICK LIST

SYSTEM OPTIONS
- 30 HP (6 - 5 HP motors) On-Board Dryer
- 40 HP (4 - 5 HP motors and 2 - 10 HP motors) On-Board Dryer
- In-bay horizontal pump station with composite covers and in-bay stainless steel UCC
- UCC power conversion kit (converts standard UCC for use with 240 VAC 3 phase 60 Hz incoming power supply)
- Free standing frame (stainless steel or powder coated)
- Wash bay stop / backup loading eye pedestal mounting kit - Free standing frame or non-standard bays
- E-chain supply passenger side / right side while entering the bay
- E-chain supply driver side / left side while entering the bay

WASH OPTIONS
- Undercarriage and Rocker Panel Blaster - 11 Stainless steel nozzles; 3 on the undercarriage and 4 on each rocker panel blaster
- Power Tower Wheel Cleaner® - 4 Rotating nozzles per tower - Available with or without blue LEDs
- Big Shot™ - Chemical tire application
- SpectraRay™ - 4,528 LEDs (red, magenta, blue and green) Light show during the wash process or while idle
- SpectraRay+™ - 5,568 LEDs (red, magenta, blue and green) Mounting options: wall or pedestal mount
- Chem Alert™ - Chemical monitoring system
- Touch or Touch-Free Power Wheel Detailer™
- Primary HS / Washview® MOBILE - High speed DSL or cable Internet connection capability - Internet access without a static IP address
- Secondary HS / Washview® MOBILE - Additional high speed DSL or cable Internet connection at same location for multi-bay sites
- Tri-Color Foam application system - Both entrance and exit
- Foam n' Flow® application system
- Medium pressure R.O. pump (13 GPM @ 110 psi) includes wall mount bracket and motor starter
- Spot free (R.O.) reject water reclaim system
- Custom voice option for in-bay voice module
- Dual port injector system - To replace single injector for low pressure application (order per injector)
- Premium door controls - Includes eyes
- Ultimate door controls - Includes eyes
- Blow down - Protects against hose and major component damage during freezing temperatures
- Custom graphics
- Custom wash media colors

WATER TREATMENT
- Water softener configuration for every need
- Reverse osmosis/spot free systems by Washworld
- Velocity Water Works & PurClean reclaim systems

SIGNAGE OPTIONS
- Stainless steel 12V LED individual signs and sign packages
- Fiberglass back-lit 24V LED individual signs
- Custom verbiage sign choices
- Wash bay LED bay guide lighting (floor mounted pair)
- Countdown timers
- Clearance signs





PROFILE APEX WALL MOUNT WASH BAY DIMENSIONS*

	OPTIONS	PREFERRED	*MINIMUM	MAXIMUM
HEIGHT* STANDARD	14' 8" - 16' 8" Bay Widths 16' 8" - 18' 0" Bay Widths	12' (3658mm) 12' (3658mm)	11' (3353mm) 11' 4" (3454mm)	N/A
HEIGHT* 30 HP OBD	15' 4" - 16' 8" Bay Widths 16' 8" - 18' 0" Bay Widths	12' (3658mm) 12' (3658mm)	11' (3353mm) 11' 4" (3454mm)	N/A
HEIGHT* 40 HP OBD ONLY**	15' 4" - 16' 8" Bay Widths 16' 8" - 18' 0" Bay Widths	12' (3658mm) 12' (3658mm)	11' 6" (3505mm) 11' 10" (3607mm)	N/A
WIDTH*	Without On-Board Dryer With On-Board Dryer	16' (4877mm) 16' (4877mm)	14' 8" (4470 mm) 15' (4572 mm)	18' (5486mm) 18' (5486mm)
LENGTH*	34' Rails (10363mm) (Standard)	40' (12192mm)	37' 4" (11378mm)	N/A
LENGTH*	34' Rails (10363mm) Profile® and Dryer w/Covers	45' (13716mm)	41' 6" (12649mm)	N/A

*NOTE: Minimum dimensions are from nearest inside obstructions entrance to exit and bay floor to ceiling, i.e. door tracks, counterweights, bay lights, etc. Add in additional length for these items.

**IMPORTANT: The 40 horsepower on-board dryer option requires 6" of additional height clearance (top dual 10 HP dryers). The standard Profile and 30 horsepower on-board dryer option require the clearances listed above.

PROFILE APEX FREE STANDING FRAME DIMENSIONS*

	OPTIONS	PREFERRED	*MINIMUM	MAXIMUM
HEIGHT* STANDARD & 30 HP OBD	11' 6" (3502mm) (Frame)	12' (3658mm)	11' 8" (3556mm)	N/A
HEIGHT* 40 HP OBD ONLY**	12' (3658mm) (Frame)	12' 6" (3810mm)	12' 2" (3708mm)	N/A
WIDTH*	15' 8" Width (Frame)	16' 6" (5029mm)	15' 8" (4877mm)	N/A
LENGTH*	34' Rails (10363mm) (Standard)	40' (12192mm)	37' 4" (11378mm)	N/A
LENGTH*	34' Rails (10363mm) Profile® and Dryer w/Covers	45' (13716mm)	41' 6" (12649mm)	N/A

*NOTE: Minimum dimensions are from nearest inside obstructions entrance to exit and bay floor to ceiling, i.e. door tracks, counterweights, bay lights, etc. Add in additional length for these items.

**IMPORTANT: The 40 horsepower on-board dryer option requires 6" of additional height clearance (top dual 10 HP dryers). The standard Profile and 30 horsepower on-board dryer option require the clearances listed above.

PROFILE APEX MINIMUM UTILITY REQUIREMENTS

Does not include options or other equipment requirements

VOLTAGE	UCC CABINET	PROFILE HIGH PRESSURE PUMP STATION	EACH DRYER MOTOR		ADD FOR EACH ON-BOARD DRYER MOTOR (6 TOTAL) 5HP
208 VAC	54 Amps	73 Amps	10 HP 27 Amps	15HP 40 Amps	13.7 Amps
230 VAC	49 Amps	62 Amps	10 HP 24 Amps	15HP 35 Amps	12.4 Amps

*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 84dB for high pressure and 72dB for low pressure. Decibel levels are impacted by surrounding materials and conditions therefore will vary.

PROFILE APEX MINIMUM UTILITY REQUIREMENTS

Does not include options or other equipment requirements

Water: .....25 GPM @ 35 psi (94.6 l/m @ 2.41 bars)
Air: .....13 SCFM @ 100 psi (368 l/m @ 6.89 bars)
Electrical: ....208/230 VAC, 3 PH, 60 Hz (5-wire, three phase with neutral and ground)

The Washworld High Velocity® Free Standing and Wall Mount Vehicle Drying Systems incorporate proven energy efficient air producer designs. All of that power wrapped in our optional dryer image package make your wash stand out from your competitors...and keep your customers coming back for more!

STANDARD FEATURES

- Safe touch-free drying
- All aluminum, stainless steel and composite construction with welded impellers
- Stainless steel inlet / outlet screens
- Noncorroding composite producer housings
- Completely adjustable producer housings for enhanced drying coverage
- Stainless steel mounting hardware
- Energy efficient industrial 7.5 HP, 10 HP, or 15 HP TEFC motors

OPTIONAL FEATURES

- Aluminum cross beam and brackets for interior wall mount
- Powder coated aluminum frame for exterior (building face) wall mount or for interior / exterior (free standing) floor mount
- Energy conserving dryer shut-off kit
- Center producer shut off kit - When passing over the bed of a pickup truck contents of the truck bed aren't affected by the center dryers
- Dryer image package (front / rear covers)
- Custom graphics
- Blue LED dryer cover lighting
- Dryer cover with LED wash instruction signage
- LumenDry™
- LED countdown timer with stand or wall mount
- Dryer motor starter panel with stagger start controls
- VFD - Variable frequency drive motor starter control center
- Available in international voltages, including 380-415/50 Hz & 575/60 Hz
- Sound reduction package
- Elephant trunks
- Air knives
- Producer swivel plates

HIGH VELOCITY OSCILLATING NOZZLE

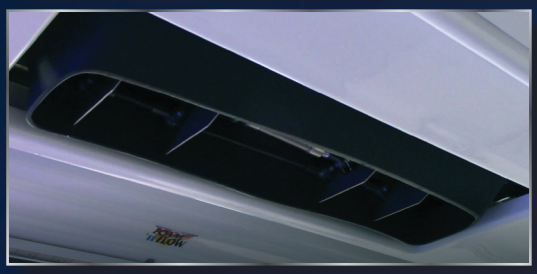
- Performance enhancing
- Available on single and dual nozzle dryer producers
- Pneumatic cylinder controlled, no in-bay wiring, fewer moving parts
- Stainless steel diverter gate (dual gate on a single producer, quad gate on a dual producer)
- Airflow channeled in a 50 degree sweeping motion

HVDryer HIGH VELOCITY®





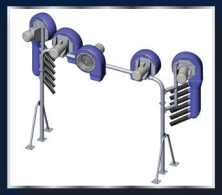
*Shown with blue LED dryer cover lighting and LED wash instruction signage

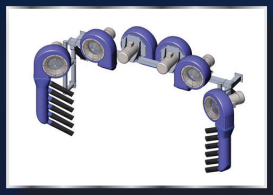



Standard Arch 3 Producers


Standard Arch 4 Producers


Standard Arch 4 Producers, Dual Nozzle, E-Trunks w/ Brackets


Standard Arch 5 Producers, E-Trunks w/Brackets


Interior or Exterior Wall Mount


Progressive Drying System

ON-BOARD VEHICLE DRYING SYSTEM

Washworld Profile Apex On-Board Vehicle Drying Systems provide controlled and consistent drying which results in greater customer satisfaction. The On-Board system moves together with the wash carriage while the customer's vehicle remains stationary for consistent drying. Where wash bay space is limited or for noise abatement, the On-Board Drying System is the answer!



40 HP OPTIONAL ON-BOARD DRYER

- Consistent, controlled touch-free drying
- Producers are constructed from stainless steel, composites and aluminum with welded impellers
- Powder coated aluminum inlet cone and producer back plate / motor mount
- Stainless steel inlet / outlet screens
- 6 producer configuration - (4) 5 HP aluminum / composite producer housing (sides), (2) 10 HP aluminum producer configuration (top)
- Energy efficient, space saving design
- Totally enclosed fan cooled industrial 5 HP and 10 HP motors
- Pre-wired and assembled energy chain for power supply
- On-Board drying process can initiate in either the front or rear of vehicle and can be programmed to run multiple drying passes
- On-Board Dryer can be programmed to continue operation in a fixed position as the vehicle exits for additional drying
- cETLus listed, CE compliant

30 HP OPTIONAL ON-BOARD DRYER

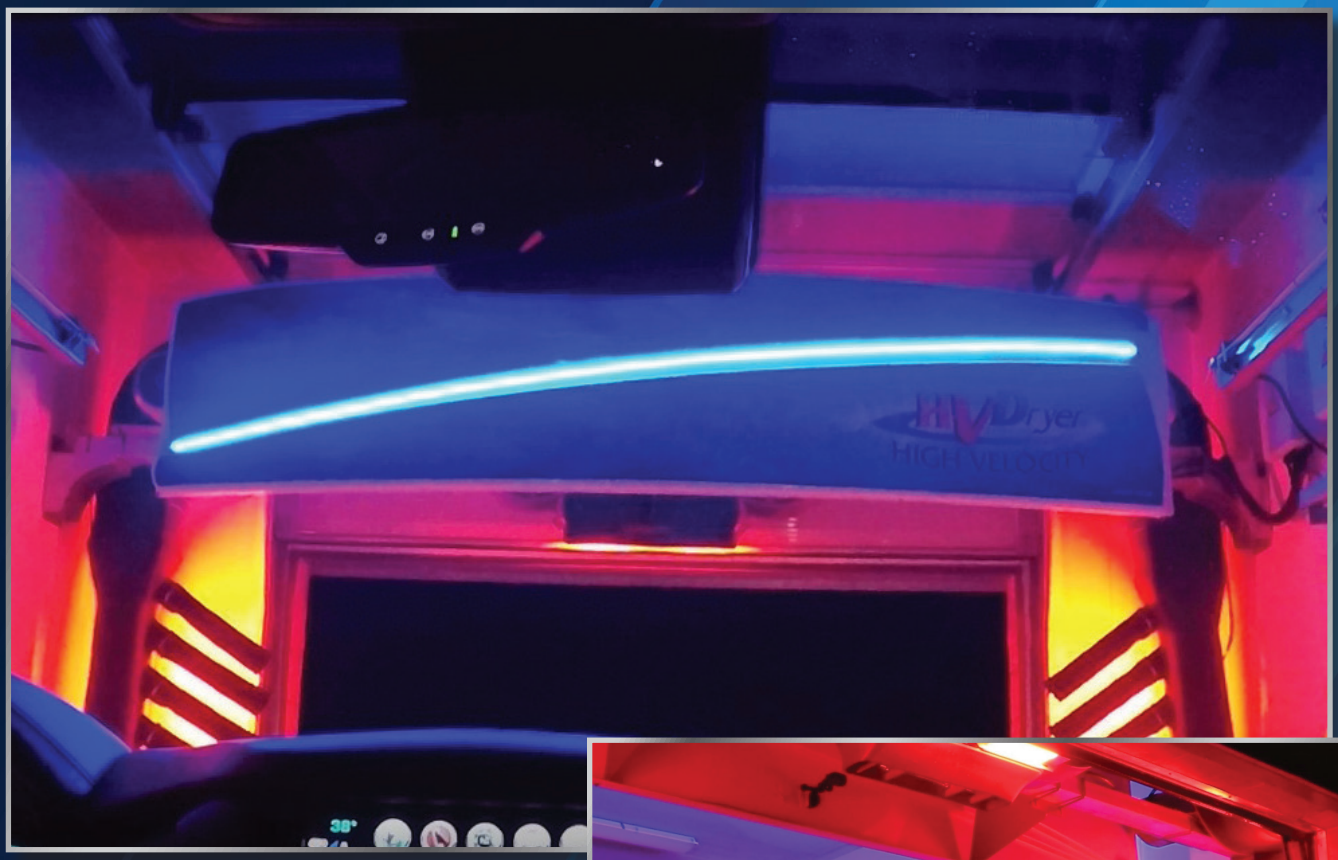
- Consistent, controlled touch-free drying
- Producers are constructed from stainless steel, composites and aluminum with welded impellers
- Powder coated aluminum inlet cone and producer back plate / motor mount
- Stainless steel inlet / outlet screens
- 6 producer configuration
- Energy efficient, space saving design
- (6) 5 HP aluminum / composite producer housing (sides and top)
- Totally enclosed fan cooled industrial 5 HP motors
- Pre-wired and assembled energy chain for power supply
- On-Board drying process can initiate in either the front or rear of vehicle and can be programmed to run multiple drying passes
- On-Board Dryer can be programmed to continue operation in a fixed position as the vehicle exits for additional drying
- cETLus listed, CE compliant

OPTIONS

- Stagger start motor control center
- VFD - Variable frequency drive motor starter control center
- Sound reduction package
- Available in international voltages, including 380-415/50 Hz & 575/60 Hz
- Center producer shut off kit (for open bed trucks)

LumenDry™

Elevate your customer's car wash dryer experience with LumenDry™! When the High Velocity dryer is activated, radiant red LEDs engulf the wash bay and blanket the vehicle as it passes through the dryer signifying the warmth of the drying process. The extra pizazz emanating from LumenDry is sure to be a memorable experience! LumenDry, available on Washworld High Velocity Free Standing and Wall Mount Vehicle Drying Systems, contains one LED assembly for each producer housing and four LED assemblies for each set of elephant trunks and air knives.





12V SIGNS

Washworld's 12V LED signs are fabricated from stainless steel and have fully customizable sign faces. The eight panel LED signs are available with or without Tri-Color Foam panel and are available with the LEDs located on either the left or right side of the panel to accommodate your wash bay needs. The stop/drive forward sign is available with or without wash progress, which informs the customer of the estimated remaining wait time.



24V SIGNS

Washworld's 24V signs have a LED back-lit face with a fiberglass housing and can be customized with your logo on the bottom fiberglass portion of the sign. The eight panel LED signs are available with or without Tri-Color Foam panel.



COUNT DOWN TIMERS

Washworld's 24V count down timers clearly inform the customer of the remaining dryer time. They are available as wall mounted or pedestal mounted. The count down timers can be fabricated from stainless steel with fully customizable sign faces or with a LED back-lit face with fiberglass housing that includes a customizable area at the bottom of the fiberglass portion of the sign.



12V CAR WASH OPEN/CLOSED SIGN

Easily inform your customers whether your car wash is open or closed. Washworld's stainless steel 12V LED open/closed car wash signs are not only energy efficient but also built to last. The open/closed status changes automatically based on the wash ready/out of service signal from the car wash equipment.



CLEARANCE SIGNS

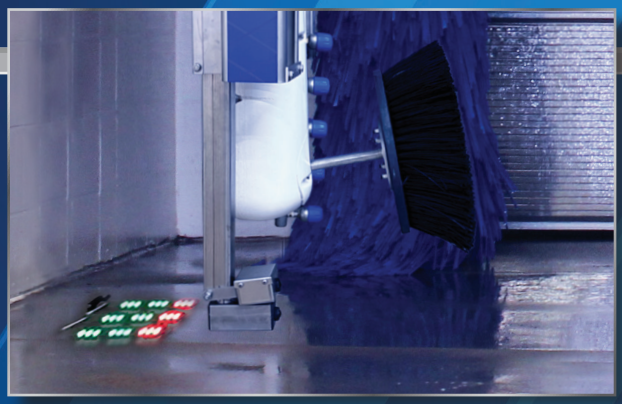
Keep your customers informed of maximum overhead clearance when entering your car wash. Washworld's roto-molded clearance signs are available non-lit or back lit with energy efficient LEDs. The sign face is customizable to compliment the site's branding. The HDPE color comes standard in blue, but is available in custom color options: red, yellow, green, gray, and black. Clearance signs have additional mounting options that include hanging or ground mounted to fit the site's needs. The ground mounted option is powder coated white for durability and includes a breakaway feature.





WASH BAY LED GUIDE LIGHTING

Washworld offers floor mounted guide lighting (sold in pairs) to help assist through the wash process. The guide lighting illuminates red or green in accordance with the in-bay instructional signage.



SPOT FREE R.O. STANDARD FEATURES



- 2400, 4800 or 7200 GPD (gallons per day) systems (Based on 77°F incoming water supply)
- Stainless steel frame
- 4"x 40" thin film high efficiency membranes
- Mounting options:
  - Adjustable feet for floor mount
  - Stainless steel wall mount bracket for (optional) mounting
- Audible and visual alerts/alarms
- Continuous electronic TDS (total dissolved solids) monitoring
- Activated carbon pre-filter tank with programmable automatic backwashing
- VROC digital R.O. control with TDS display
- High TDS audible alarm with adjustable setting
- Large diameter, easy to read inlet, pump and membrane pressure gauges
- Durable extruded stainless steel membrane housings
- cETLus listed, CE compliant
- Automatic inlet water shut-off valve
- Permeate (product) and concentrate (reject) flow meters
- Automatic membrane flushing
- Easily replaceable 2.5" x 20" cartridge style pre-filters on all systems
- Low pressure automatic restart
- Pre-plumbed water test port

WATER SOFTENER STANDARD FEATURES



- Systems from 60,000 to 600,000 grain capacity (twin alternating)
- Twin alternating systems provide continuous soft water 24/7
- Clack valves
- Professional series resin tanks
- Incoming operating water - pressures from 30 -100 psi
- Incoming operating water temperatures from 35°F-100°F
- cETLus listed, CE compliant
- Simple, fully programmable controller maximizes efficiency and reduces operating costs
- Retains custom program settings in the event of power interruption
- Brine tanks sized to match system requirements
- Electronic control interlock for multiple tank synchronization
- Space saving footprint
- Noryl® composite valve body eliminates corrosion
- PVC hub and lateral distribution system

OPTIONAL FEATURES

- Water storage tanks (UV rated)
- Re-pressurization pumps with mounting brackets

OPTIONAL FEATURES

- Iron filtration
- Custom, tri-plex or over-sized systems to meet your specific site needs

SPOT FREE R.O. SPECIFICATIONS

MODEL	WW 2110	WW 2111	WW 2112
GALLONS PER DAY	2400	4800	7200
NO. OF MEMBRANES	1	2	3
PUMP H.P.	1 HP	1 HP	2 HP
ELECTRICAL REQUIRED	230 VAC 1 Phase 9.6 Amps and 120 VAC 1 Phase 19.2 Amps	230 VAC 1 Phase 9.6 Amps and 120 VAC 1 Phase 19.2 Amps	230 VAC 1 Phase 13 Amps and 120 VAC 1 Phase 26 Amps

WATER SOFTENING SYSTEM SPECIFICATIONS

MODEL	TYPE	SYSTEM GRAIN CAPACITY	PEAK FLOW	CU. FT. OF RESIN
WW 2100T-1	Twin Alternating	60K	14 GPM	2
WW 2101T-1	Twin Alternating	150K	17 GPM	5
WW 2102T-12	Twin Alternating	180K	33 GPM	6
WW 2103T-15	Twin Alternating	300K	62 GPM	10
WW 2104T-15	Twin Alternating	420K	62 GPM	14
WW 2105T-2	Twin Alternating	300K	85 GPM	10
WW 2106T-2	Twin Alternating	420K	85 GPM	14

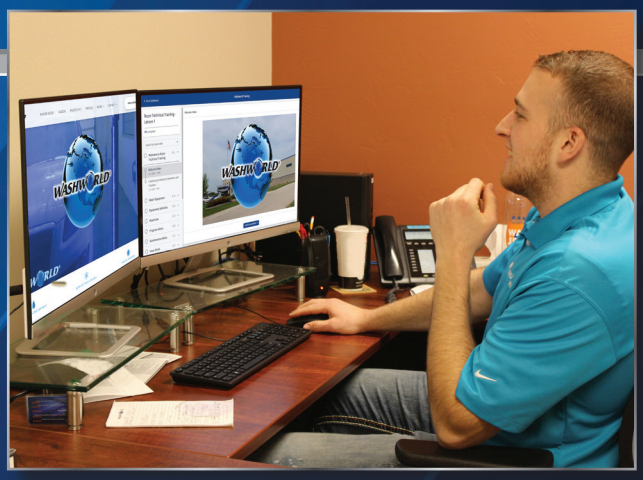
Note: Specifications subject to change without notice.

CUSTOMER SERVICE

Washworld takes our commitment to customer satisfaction very seriously and do our utmost to help car wash owners around the world run successful businesses. We offer expertise to every car wash owner from initial business planning to renovations and upgrades. Our service priority means no customer is ever just a number to us.

FREE ONLINE TECHNICAL TRAINING

The Washworld Customer Care Program leads the industry in customer service. Washworld takes that commitment to customer satisfaction very seriously by offering Free Online Technical Training to improve operator proficiency. The training is presented by several Washworld technicians and engineers whom have years of experience with Washworld equipment as well as the car wash industry as a whole. Some of the items covered in this comprehensive course include wash components and their function, system installation, quick reference start up, routine maintenance, Washview® programming and troubleshooting.



TECHNICAL SUPPORT

Washworld is known for our world class customer service. Our Technical Support Department can assist operators day or night, 24/7, through Washworld's exclusive Washview® Remote. Washworld's Washview Remote makes it possible for you and our technical professionals to track your wash site performance from anywhere in the world often preventing the need for an on-site service call. Best of all, there is never a charge for our customer support after the sale. At Washworld, we stand behind our vehicle wash systems and strive to provide the assistance you, our customer, need so that you're never alone. Our 24/7 technical support is yet another example of our motto, "Our World Revolves Around Your World" in action.



REPLACEMENT PARTS

Keeping your vehicle wash system running is a priority for Washworld. Operators can purchase parts locally from any Washworld distributor or order factory direct for same day shipment worldwide.



Washworld backs our equipment with a written warranty, which sets the bar in the car wash industry. Don't take our word for it, ask any Washworld customer!

WASHWORLD EQUIPMENT LIMITED WARRANTY

Washworld Inc., a Wisconsin Corporation ("Washworld") warrants to the original purchaser of Washworld car wash equipment that the equipment will be free from defects in materials and workmanship for a period of 400 days from date of shipment, with the exception of the Cat Pump which is warranted for two (2) years. Claims under this warranty must be asserted in writing to Washworld within 10 days of discovery or before the end of the applicable warranty, whichever occurs first, and must follow the Washworld "RMA" (Returned Materials Authorization) process.

Any component or part alleged to be defective in materials or workmanship shall, at the option of Washworld, be returned with shipping cost prepaid. If upon examination such component or part is found to be defective in workmanship or materials, Washworld, at its option, will either repair or replace such component or part and ship such repaired or replaced component or part via standard ground. Expedited shipping costs (if requested) shall be the responsibility of purchaser. The cost of such replacement or repair (less any labor charges) shall be the exclusive remedy for any breach of any warranty and Washworld shall not be liable to any person for consequential damages for injury or commercial loss resulting from any breach of any warranty. This warranty does not cover any labor installation cost, either with respect to the original equipment or with respect to the repaired or replaced component or part which is found to be defective in workmanship or materials. Washworld does not warrant loss of income, or consequential damages, should there be any, during the time repairs are being made.

This warranty does not apply to damage resulting from components or parts that have been misused, altered, neglected, or not installed, adjusted, maintained, or used in accordance with applicable codes and ordinances and in accordance with Washworld's or manufacturer's recommendations. This warranty does not apply to damage resulting from improper operation or abuse, exceeding the rated capacities of the unit, running foreign particles or non-related solutions through pumps or valves, using acidic solutions, improper installation or maintenance, operational neglect, neglect of manufacturer's recommended maintenance, use of water containing solids in excess of twenty microns in diameter or 2000 PPM, damage caused by customer, unjustifiable nuisance calls or acts of God.

This warranty is in lieu of all other warranties, express or implied, and there are no warranties against infringement, of merchantability, of fitness for a particular purpose, or arising from course of dealing or usage of trade. Washworld shall not be liable for direct, indirect, incidental, special or consequential damages under any circumstances, including but not limited to: damage or loss resulting from inability to use the products, increased operating costs, or loss of sales, lost profits, punitive damages, or any other damages. Compliance with any laws or regulations relating to the sale, location, use or operation of the equipment, or its use in conjunction with other equipment shall be the sole responsibility of the purchaser. The rights and obligations of the parties shall be governed by the laws of the State of Wisconsin.

Washworld reserves the right to change or modify this Limited Warranty at any time without notice.









WASHWORLD®

2222 American Blvd.
De Pere, WI 54115

© 2024 Washworld, Inc.