



WNV SYSTEMS

The complete transport washing solution



PARTNERS





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What We Do.

Commercial Washing Systems for vehicles across all types of industry.

Since 1994 WNV-Systems have designed, delivered, and installed specialist commercial vehicle wash systems for commercial Road Vehicles, Trams, Trains and even helicopters. We have developed wash systems for Local Authorities, Bus Operators, Haulage Companies, The M.O.D, Commercial & Industrial Vehicle Manufacturers, and even Logistics & Distribution Organisations.

WNV Systems manufacture, install and maintain Automatic Chassis Wash, Drive Through Bus Wash, Three Brush Roll-Over, Water Reclamation & Pressure washing systems to suit your business and fleet needs tailored to meet all vehicles across all types of industry.

With a team of dedicated Engineers offering unmatched after sales service, support, and maintenance options, with a network of designated agents based overseas this extends our services worldwide. This gives comfort to all our partners in knowing we are always here to support them and their vehicle washing needs.

We design cost-effective systems with low energy consumption, careful use and reuse of water and high-quality detergents, our systems make it possible to clean a 12 metre / 40-foot vehicles under chassis in under 30 minutes. We can even show you how to turn your cost centre into a profit centre.

ENVIRONMENTAL

All equipment utilises our fully approved wash water reclamation units, regularly saving 90% of wash water, or our rainwater harvesting systems, allowing a valuable resource which normally runs off to waste, to save you money.

All motors and gearboxes used by WNV-Systems are not only low energy consumption, but soft start, to reduce the carbon footprint and are also of submersible quality, not just waterproofed.

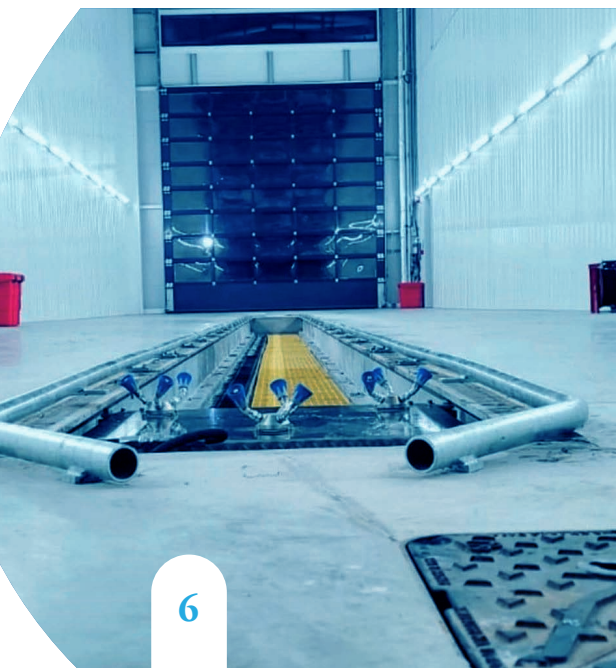
WHAT WE'VE ACHIEVED

- 💧 **25+ Years** serving the Bus and HGV sector
- 💧 Each Year we complete **45,000+** Automatic Chassis Washes
- 💧 **95% of water** used on our wash systems is save by our Water Reclamation Systems
- 💧 **Industry leading** Bus & Truck Wash Systems
- 💧 Providing our Partners with **outstanding** Service and Maintenance
- 💧 Always **innovating** new and superior Wash Systems
- 💧 **#1** Chassis Wash equipment Supplier for UK Bus, Local Authority, HGV operators and Commercial & Industrial Vehicle manufactures



Automatic Under Chassis Wash.

The WNV Automatic Under Chassis Wash is designed and manufactured in the UK with industry standard long lasting heavy-duty components but distributed and installed worldwide.



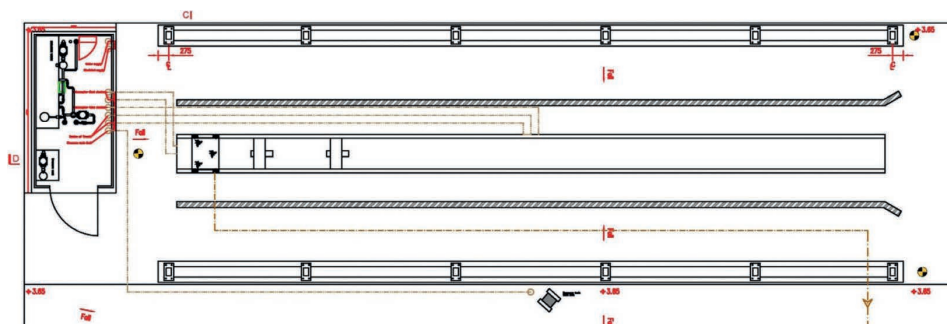
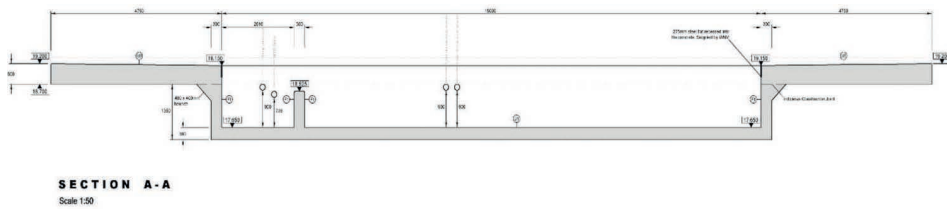
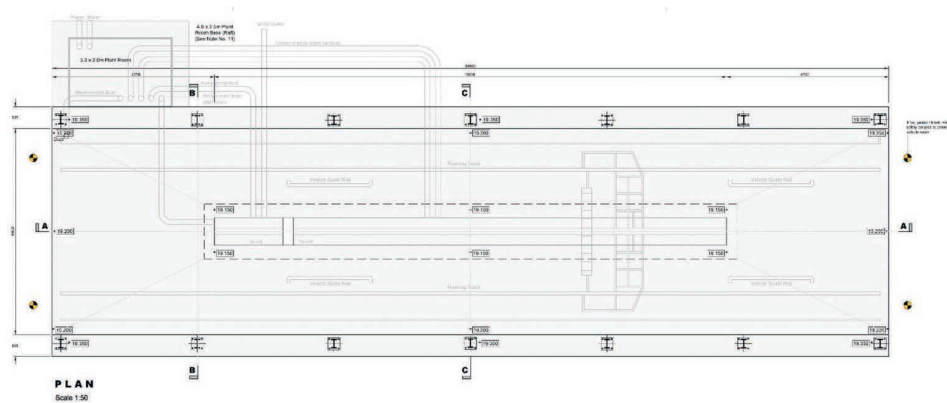


FEATURES OF WNV-SYSTEMS AUTOMATIC UNDER CHASSIS WASH:

- Full stainless-steel construction
- Hydraulic 4-wheel drive
- Hydraulically driven synchronised jet spinner units
- 15kw multistage recycled water pump
- 300psi at over 200lt per minutes
- Adjustable and programmable to concentrate specifically on contaminated areas, such as engines and gearboxes
- Fully Patented
- Incremental detergent pump applying TFR chemicals
- Running track and framework in heavy gauge hot dipped galvanised steel
- Microprocessor controlled, with multi programs and tracking systems and HMI user controls with 10 programmes available.
- Fully frost protected
- Legionella control and anti-stagnation systems
- Hot Foam, Anti-freeze, Anti-corrosion, and Anti-bacterial applications
- Fully programable for Hybrids and Electric Vehicles.
- Designed and manufactured in the UK



TYPICAL CAD DRAWING LAYOUTS OF A WNV-SYSTEMS AUTOMATIC UNDER CHASSIS WASH SYSTEM:





Drive Through Wash System.

WNV-Systems Ltd have designed a new drive through bus wash system providing a new approach to bus cleaning. The system utilizes two brushes that operate and move diagonally to the vehicles direction, propelled by counterbalance weights, providing a superior full bus wash completed in 60 seconds.

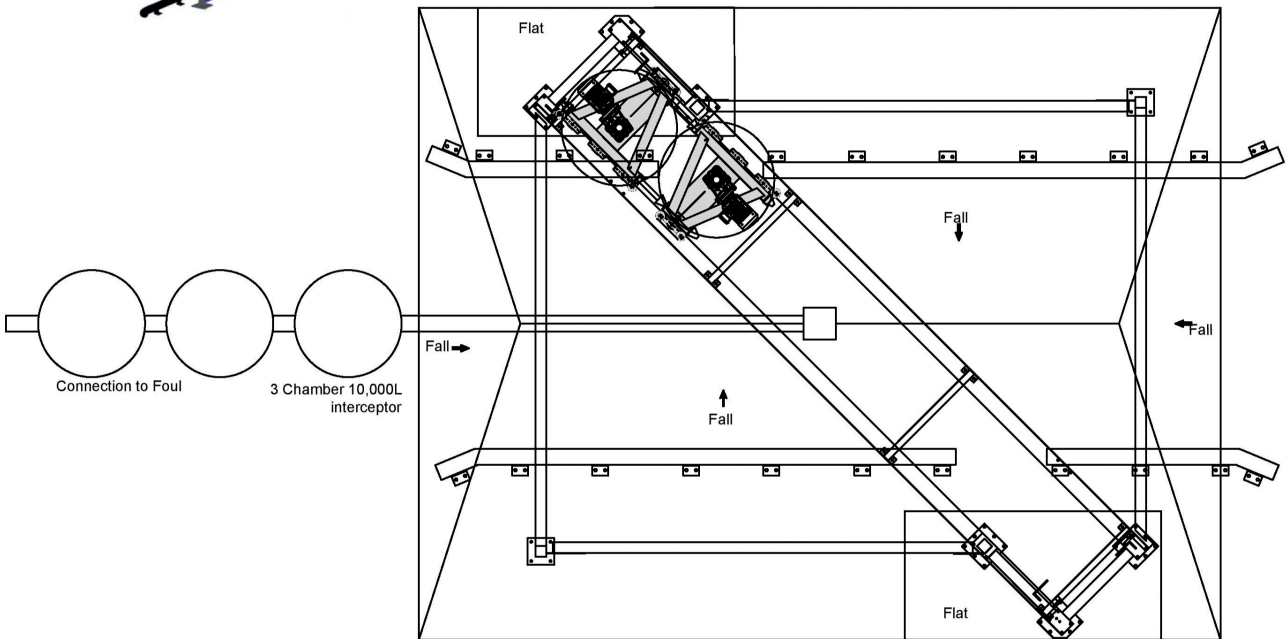


FEATURES OF WNV-SYSTEMS DRIVE

- 💧 Wash cycles taking approximately 60 seconds
- 💧 Reduced wash installation footprint
- 💧 Optional Integrated water reclaim system
- 💧 Reduced freshwater usage
- 💧 Ability to clean buses without having to remove any mirrors
- 💧 Superior quality clean to the front, rear, left and right sides of the vehicle
- 💧 Fully supported service and warranties
- 💧 Options include: high pressure, wash tracker system, CCTV, soft foam brushes and bay lighting
- 💧 Incorporated wash splash screens
- 💧 Wash spray bars with chemical dosing and clean water rinse spray bars



THROUGH WASH SYSTEM INCLUDE:



Water Reclamation Systems.



WNV-systems Ltd has been manufacturing vehicle wash water recycling systems for over a quarter of a century, and hundreds of systems are installed worldwide. The system is designed to recycle the water from commercial washes of either roll-over, drive through, chassis wash or pressure wash type. In addition to providing excellent water quality results within its standard operation.

SPECIFIC MODEL SELECTION

The particular reclaim unit needed is specified according to the water usage of the wash machine in gallons or litres per minute, i.e. a roll-over wash machine using a total of 32gpm would need a reclaim to match this usage. The figure that the reclaim design reflects the throughput of the recycling system in gallons per minute which must match or exceed the throughput of the wash machine.

Reclaim capacities can be specified to match larger, more powerful wash machines of any type, including partial reclaim applications.

CONSTRUCTION

Fabricated in either polypropylene or stainless steel grade 304D. Tanks are skid mounted with a base plate to form a compact unit of either open construction or can be supplied fully enclosed with doors.

ADVANTAGES

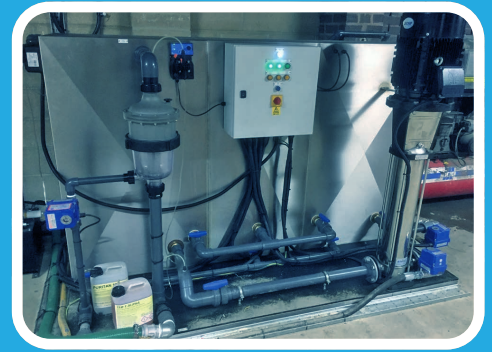
Water companies are having to restrict water use by refusing to supply water for vehicle washing or to increase the size of supply. Water companies and environmental agencies are becoming particularly concerned with the quality of effluent discharge and are placing stricter controls and discharge consent limits. Where there is no drainage available our Water Recycling System can permit the installation of vehicle washing installations as all the water is recycled.

OPERATION

Water used during the vehicle washing and rinsing cycles collects in the below ground collection tank. Larger particles of sediment, together with small amounts of oil or diesel washed from the vehicle and floating debris is held in the collection tank. Water is drawn from the third chamber of the collection tank and passed to the multi-cyclone which separates particles larger than 20 microns and rejects them with a small quantity of water back to the collection tank. The water is then drawn from the reclaim unit by the wash machine pump.

LEGIONELLA PROTECTION

Legionella control package monitoring water temperature, ambient temperature with periodic dosing of biocide chemicals. Microprocessor controlled water circulation anti stagnation programs.



- May permit washing during water shortages
- Reduces water costs
- Reduces pollution and water consumption, helping the environment



- Mains water washing (optional extra) improves your company's image
- Water storage tanks included
- Will operate on 20mm water supply, no need for expensive 50mm water supply



Three Brush Roll-Over.

The three brush wash machine is the preference for the cleaning of conventional road going commercial vehicles. This equipment is designed to wash vehicles quickly and effectively ranging from small vans to large articulated units and trailers.



Cleaning is achieved by applying a diluted detergent solution directly to the exterior of the vehicle while simultaneously scrubbing with rotating brushes. This process is then repeated, without detergent to rinse the vehicle clean.

WNV-SYSTEMS 5.0M COMMERCIAL THREE BRUSH WASH MACHINE INCLUDING THE FOLLOWING FEATURES AND COMPONENTS:

- 💧 3 brush operation for the washing of vehicle front, rear, sides and roof
- 💧 Automatic vehicle height and length detection
- 💧 5.0m maximum vehicle wash height suitable for double deck trailers
- 💧 Fast and effective single wash cycle to suit the all vehicle types
- 💧 Automatic articulated vehicle gap avoidance
- 💧 Automatic forward facing cab mirror avoidance
- 💧 Automatic emergency fifth wheel avoidance
- 💧 Galvanised steel machine frame
- 💧 Microprocessor / PLC control panel
- 💧 Variable speed, soft start gantry drive motors providing fast wash times with extended motor and gearbox life
- 💧 On-board spray suppression screens to contain spray within the wash bay
- 💧 Machine running tracks, 24m with anti-topple devices
- 💧 On-board long life LED traffic lights
- 💧 Low voltage push button user controls
- 💧 Vehicle position wheel stop
- 💧 Trailing service electrical cables, water hose and air supply pipe
- 💧 Electronic variable detergent dosing system
- 💧 Pneumatic control for variable side brush pressure
- 💧 Full European and UK patented
- 💧 Manufactured in the UK

Pressure Wash Unit.



The Static Hot & Cold Pressure Washer is housed in a strong lockable cabinet manufactured from either Painted Mild Steel or Stainless Steel, and all models are frost protected.



- Manual Push Button control
- Timed Shutdown
- Timed Chemical (adjustable)
- Adjustable time settings
- 24v Switching for Operator Safety
- Thermostatically Controlled Heat
- Low Fuel Warning & Low Water Warning
- Lockable Control Panel Door for Anti-vandalism
- Thermal Overload Protection
- Emergency Stop Button
- Insulated Chimney and Rain Cap

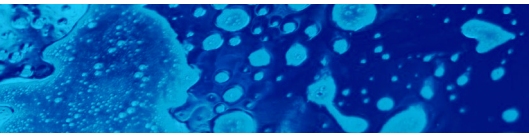
Models Available:

HOT

Hot 100 BAR	12L per minute
Hot 150 BAR	15L per minute
Hot 200 BAR	15L per minute
Hot 160 BAR	18L per minute
Hot 120 BAR	21L per minute

COLD

Cold 100 BAR	12L per minute
Cold 150 BAR	15L per minute
Cold 200 BAR	15L per minute
Cold 160 BAR	18L per minute
Cold 120 BAR	21L per minute



Chemicals.

TFR

Very Strong Alkaline, Diluted pH13

Max Dilution **0.5%**

25lt
205lt
1,000lt

Puritan Biocide

Non-Hazardous Chlorine Free Tank Sanitising Biocide Fluid

Max Dilution **0.05-0.3%**

25lt
205lt
1,000lt

De-Scaler

Pressure Wash De-Scaling Agent

Max Dilution **N/A**

25lt
205lt

Coach Shampoo

Neutral, Non-Hazardous, Diluted pH7

Max Dilution **0.5%**

25lt
205lt
1,000lt

Chlorine Tablets

Chlorine Tablets for Reclaim Disinfecting

Max Dilution **N/A**

5kg

Powerburn

Pressure Wash Fuel

Max Dilution **N/A**

205lt

25 LT:

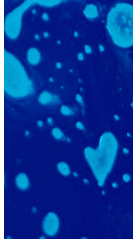


205 LT:



1,000 LT:





Plantrooms.

- Steel plantroom to house all wash equipment including frost protection, distribution board and lighting. Available in 2m x 2m, 3m x 2m or 4m x 2m
- Stainless steel hinges improve security and appearance
- Double locking system is standard



Stand Alone Buildings.



- Standalone wash bay building with hot dipped galvanised steel
- Standard goose wing grey cladding, other RAL colours are available
- Custom built designed to suit our partners needs and can include rainwater harvesting



Chemical Drum Bank.

- Enclosed safe storage for drums and other hazardous goods
- Fully welded sump with removable steel grid flooring
- Wide opening doors and lift-up lid for ease of access



5-lever deadlock



Gas Strut (300N)



Forklift Skids



COSHH Compliant



Sump Capacity



Fire Resistant



Safety Signage



Contact us
FOR A **FREE**
Site Survey
AND
Quotation



WNV SYSTEMS

The complete transport washing solution



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