

# AUTOMATIC CAR WASH SYSTEMS CATALOG



A LEADING POWER IN THE CAR WASH SERVICE



AQUARAMA®

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## STARGATE S4

### SPECIFICATIONS

#### STRUCTURE

- Hot dip galvanized and painted steel structure
- Direct gantry drive with frequency converter
- High resistance rivets "aeronautic" type
- Stainless steel bolts

#### VERTICAL BRUSHES

- Hot dip galvanized steel single cross beam
- Electrical positioning drive
- Double cross over on front and back of the vehicle
- Double inclination and locking by cylinder
- Electronic power control

#### HORIZONTAL BRUSHES

- Electrical uplift with frequency converter
- Electronic power control
- Hot dip galvanized sliding guides
- Fall prevention system and belts loosening detection

#### HIGH PRESSURE (OPTIONAL)

- Side High Pressure
- Wheels High Pressure

#### DRYING

- Hot dip galvanized and painted contour following blade
- Flap tilting in 2 positions (optional)
- Electrical uplift with frequency converter
- Hot dip galvanized sliding guides
- Side drying 2 electric blowers (optional)
- Fall prevention system (with spring-loaded hook) and belts loosening detection

#### STANDARD EQUIPMENT

- Hydraulic system with dedicated solenoid valves and piping
- Shampoo dosing pump
- Wax dosing pump
- Single festoon supply system (wall hanging)
- Control panel with display

## TECHNICAL FEATURES

Machine dimensions (in millimeters)

Washing height	2.100	2.300	2.500	2.800	3.100
Machine height	2.970 (2.970*)	3.170 (2.970*)	3.370 (3.170*)	3.670 (3.470*)	3.970 (3.770*)
Machine width	3.560 - 3.680**				
Washing width	2.520				
Machine depth	1.650				
Machine weight (kg)	1.750	1.750	1.800	1.850	2.000
Distance between rails	3.000 (2.800 on request)				
Rails length	10.000	10.000	10.000	12.000	12.000

Technical data sheet

Drive speed	m/min	0-20
Water pressure	Bar	3-5
Pressione aria	Bar	8
Voltage	Hz	400 3/N/PE 50
Total power	kW	10 (16)
Control voltage	V	24
Drying power	kW	2x3 (2x3 top + 2x4 side)



Low maintenance thanks to self lubricating materials.

Innovative materials for silent movements requiring no lubrication or maintenance.

Washing width

Washing heights





## STARGATE S6

### SPECIFICATIONS

#### STRUCTURE

- Hot dip galvanized and painted steel structure
- ABS plastic upper claddings (optional)
- Direct gantry drive with frequency converter
- High resistance rivets "aeronautic" type
- Stainless steel bolts

#### VERTICAL BRUSHES

- Hot dip galvanized steel single cross beam
- Electrical positioning drive
- Double cross over on front and back of the vehicle
- Double inclination and locking by cylinder
- Electronic power control

#### HORIZONTAL BRUSHES

- Electrical uplift with frequency converter
- Electronic power control
- Hot dip galvanized sliding guides
- Fall prevention system and belts loosening detection

#### DRYING

- Hot dip galvanized and painted contour following blade
- Flap tilting in 2 positions (optional)
- Electrical uplift with frequency converter
- Hot dip galvanized sliding guides
- Side drying 2 electric blowers (optional)
- Fall prevention system (with spring-loaded hook) and belts loosening detection

#### STANDARD EQUIPMENT

- Hydraulic system with dedicated solenoid valves and piping
- Shampoo dosing pump
- Wax dosing pump
- Single festoon supply system (wall hanging)
- Control panel with display

#### HIGH PRESSURE

- Side High Pressure
- High Pressure on wheel wash (optional)
- Contour following top High Pressure tilting in 2 positions (optional)

# TECHNICAL FEATURES

## Machine dimensions (in millimeters)

Washing height	2.100	2.300	2.500	2.800	3.100
Machine height	2.970 (2.970*)	3.170 (2.970*)	3.370 (3.170*)	3.670 (3.470*)	3.970 (3.770*)
Machine width	3.560 - 3.680** [3.760 - 3.880* optional]				
Washing width	2.520 [2.700 optional]				
Machine depth	1.650 - 2.060*** - 2.275****				
Machine weight (kg)	1.750	1.750	1.800	1.850	2.000
Distance between rails	3.000 or 2.800 on request [3.000 or 3.200 optional]				
Rails length	10.000	10.000	10.000	12.000	12.000
Machine width (folded for container transport)	1.930				

- \* With horizontal brush at rest
- \*\* Dimensions at the wheel wash
- \*\*\* With S Line claddings
- \*\*\*\* With S-Line cladding and complement band front clapping
- [ ] For XL version optional

## Technical data sheet

Drive speed	m/min	0-20
Water pressure	Bar	3-5
Pressione aria	Bar	8
Voltage	Hz	400 3/N/PE 50 230 3/N/PE 60 optional
Total power	kW	10 (16)
Control voltage	V	24
Drying power	kW	2x3 (2x3 top + 2x4 side)



Low maintenance thanks to self lubricating materials.  
 Innovative materials for silent movements requiring no lubrication or maintenance.

Washing width



Washing heights





## STARGATE S7

### SPECIFICATIONS

#### STRUCTURE

- Hot dip galvanized and painted steel structure
- ABS plastic claddings (optional)
- Direct gantry drive with frequency converter
- High resistance rivets "aeronautic" type
- Stainless steel bolts

#### VERTICAL BRUSHES

- Hot dip galvanized steel single cross beam
- Electrical positioning drive
- Double cross over on front and back of the vehicle
- Double inclination and locking by cylinder
- Electronic power control

#### HORIZONTAL BRUSHES

- Electrical uplift with frequency converter
- Electronic power control
- Galvanized steel sliding guides
- Fall prevention system and belts loosening detection

#### DRYING

- Contour following galvanized and coated steel conveyor, with inclined side vents for screens and sides drying
- Electrical uplift with frequency converter
- Galvanized steel sliding guides
- Side drying 2 electric blowers (optional)
- Fall prevention system (with spring-loaded hook) and belts loosening detection

#### STANDARD EQUIPMENT

- Hydraulic system with dedicated solenoid valves and piping
- Shampoo dosing pump
- Wax dosing pump
- Single festoon supply system (wall hanging)
- Control panel with display
- Fully integrated preset self-service kit

## WHAT'S NEW

### Self service system - control units



Designed for simple and intuitive use. Wide liquid crystal display.  
Secure payment system for 24 hours use.  
Configurable without need of an external PC.

Accepts: Smart coin card - Banknotes - Coins - QR Code - Barcode  
Certified payment system for self-service banking transactions with bank card and Smartphone.

Delivers: Receipt - Smart coin card - Coins



Thanks to the oscillating movement, the exclusive Wave Tech system simulates manual washing, guaranteeing optimal results. The bristles rub the bodywork accurately and uniformly avoiding washing GAP.



The Waterfall Mousse foam Arc creates a new sensory experience for car washing.

### Photocells' Barrier (Optional)



Thanks to the photocells' barrier it is possible to detect any vehicle's shape, optimizing the horizontal brush contact and the drying blade pass.

High precision detection  
High speed detection  
High smoothness of functioning

### Colors Available



Yellow  
Ral 1003



Red  
Ral 3001



White







## STARGATE S9

### SPECIFICATIONS

#### STRUCTURE

- Hot dip galvanized and painted steel structure
- ABS plastic claddings (optional)
- Direct gantry drive with frequency converter
- High resistance rivets "aeronautic" type
- Stainless steel bolts

#### VERTICAL BRUSHES

- Hot dip galvanized steel single cross beam
- Electrical positioning drive
- Double cross over on front and back of the vehicle
- Double inclination and locking by cylinder
- Electronic power control

#### HORIZONTAL BRUSHES

- Electrical uplift with frequency converter
- Electronic power control
- Galvanized steel sliding guides
- Fall prevention system and belts loosening detection

#### DRYING

- Contour following galvanized and coated steel conveyor, with inclined side vents for screens and sides drying
- Electrical uplift with frequency converter
- Galvanized steel sliding guides
- Side drying 2 electric blowers (optional)
- Fall prevention system (with spring-loaded hook) and belts loosening detection

#### STANDARD EQUIPMENT

- Hydraulic system with dedicated solenoid valves and piping
- Shampoo dosing pump
- Wax dosing pump
- Single festoon supply system (wall hanging)
- Control panel in dedicated wall box
- 5 inverter
- Fully integrated preset self-service kit

## WHAT'S NEW

### Self service system - control units



Designed for simple and intuitive use. Wide liquid crystal display.  
Secure payment system for 24 hours use.  
Configurable without need of an external PC.

Accepts: Smart coin card - Banknotes - Coins - QR Code - Barcode  
Certified payment system for self-service banking transactions with bank card and Smartphone.

Delivers: Receipt - Smart coin card - Coins



Thanks to the oscillating movement, the exclusive Wave Tech system simulates manual washing, guaranteeing optimal results. The bristles rub the bodywork accurately and uniformly avoiding washing GAP.



The Waterfall Mousse foam Arc creates a new sensory experience for car washing.

### Photocells' Barrier (Optional)



Thanks to the photocells' barrier it is possible to detect any vehicle's shape, optimizing the horizontal brush contact and the drying blade pass.

High precision detection  
High speed detection  
High smoothness of functioning

### Colors Available





## STARGATE S11

### SPECIFICATIONS

#### STRUCTURE

- Hot dip galvanized and painted steel structure
- ABS plastic claddings (optional)
- Direct gantry drive with frequency converter
- High resistance rivets "aeronautic" type
- Stainless steel bolts

#### STANDARD EQUIPMENT

- Hydraulic system with dedicated solenoid valves and piping
- Shampoo dosing pump
- Wax dosing pump
- Single festoon supply system (wall hanging)
- Control panel with display
- Fully integrated preset self-service kit

#### INTERMEDIATE MOBILE ARCH

- Automatic movement on an extension system
- Stainless steel sliding guides
- Bracket for fixed sides high pressure
- Stainless steel horizontal blade following the vehicle profile for wax application. 3 positions tilting for horizontal high pressure

#### DRYING

- Contour following galvanized and coated steel conveyor, with inclined side vents for screens and sides drying
- Electrical uplift with frequency converter
- Galvanised steel sliding guides
- Side drying 2 electric blowers (optional)
- Fall prevention system (with spring-loaded hook) and belts loosening detection

#### VERTICAL BRUSHES

- Hot dip galvanized steel single cross beam
- Electrical positioning drive
- Double cross over on front and back of the vehicle
- Double inclination and locking by cylinder
- Electronic power control

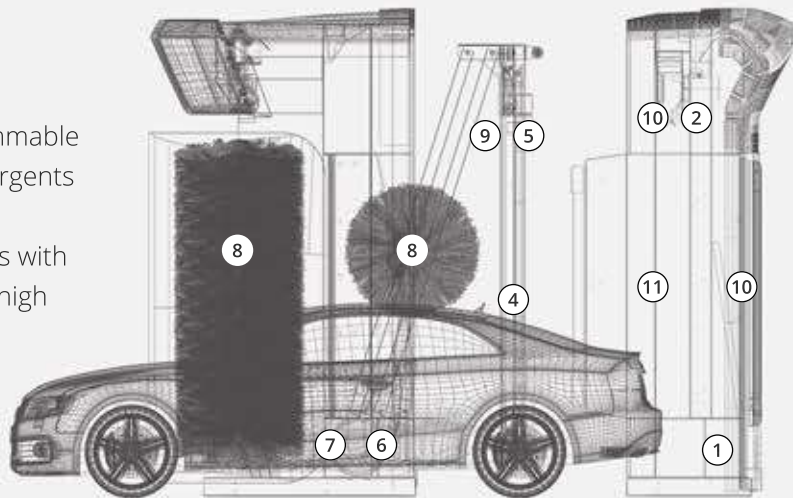
#### HORIZONTAL BRUSHES

- Electrical uplift with frequency converter
- Electronic power control
- Galvanised steel sliding guides
- Fall prevention system and belts loosening detection

# THE INTERMEDIATE MOBILE ARCH: COMPLETE WASH IN LESS PASSAGES

## ADVANTAGES

Adequate and programmable reaction times for detergents and wax applications.  
Two complete passages with brushes for extremely high quality finish.



### In less than 4 minutes

#### FORWARD PASS

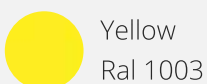
- 1 - Rims
- 2 - Insects
- 3 - Active foam pre-wash
- 4 - High pressure lateral jets
- 5 - Contour following horizontal HP
- 6 - Rotating HP jets for wheels and sills
- 7 - Wheel washer
- 8 - Brushes with shampoo

#### RETURN PASS

- 8 - Brushes and rinse
- 9 - Contour following wax application
- 10 - Drying



### Colors Available



Yellow  
Ral 1003



Red  
Ral 3001



White

### In less than 6 minutes

#### FORWARD PASS

- 1 - Rims
- 2 - Insects
- 3 - Active foam pre-wash
- 4 - High pressure lateral jets
- 5 - Contour following horizontal HP
- 6 - Rotating HP jets for wheels and sills
- 7 - Wheel washer
- 8 - Brushes with shampoo

#### RETURN PASS

- 8 - Brushes and rinse
- 9 - Contour following wax application
- 10 - Drying

#### FORWARD PASS

- 11 - Polish application
- 8 - Polishing with brushes

#### RETURN PASS

- 8 - Brushes and rinse
- 9 - Contour following wax application
- 10 - Drying





## STARGATE SHP

### SPECIFICATIONS

#### STRUCTURE

- Hot dip galvanized and painted steel structure
- ABS plastic claddings (optional)
- Direct gantry drive with frequency converter
- High resistance rivets "aeronautic" type
- Stainless steel bolts

#### STANDARD EQUIPMENT

- Hydraulic system with dedicated solenoid valves and piping
- Shampoo dosing pump
- Wax dosing pump
- Control panel with display in dedicated wall box
- Fully integrated preset self-service kit

#### DRYING

- Contour following 3 positions tilting stainless steel horizontal blade
- Electrical uplift with frequency converter
- Stainless steel sliding guides
- Side drying with 2 electric blowers  
(Different combinations of power available)
- Security device anti-crush

#### SIDE HIGH PRESSURE

- 5 rotating and oscillating nozzles for high impact force and complete coverage of the body
- Stainless steel structure
- 5 rotating and oscillating nozzles for high impact force
- Powered rotating head with 3 nozzles for wheels and low flanks
- Can be divided in 3 sections according to the vehicle's profile

#### ROOF HIGH PRESSURE

- 6 rotating and tilting nozzles for high impact force and complete coverage of the vehicle
- Contour following stainless steel structure tilting in 4 positions
- Ground clearance for cleaning plates and bumpers
- Front and rear double pass
- Electric uplift with frequency converter
- Stainless steel sliding guides

## WHAT'S NEW

### Self service system - control units



Designed for simple and intuitive use. Wide liquid crystal display.  
Secure payment system for 24 hours use.  
Configurable without need of an external PC.

Accepts: Smart coin card - Banknotes - Coins - QR Code - Barcode  
Certified payment system for self-service banking transactions with bank card and Smartphone.

Delivers: Receipt - Smart coin card - Coins

### Rotating nozzles

With rotating nozzles for large-scale exploiting the mechanical action of water, you can remove the harder dirt with a significant water saving.

### Pre-wash with Active Mousse®

For a perfect adherence to the bodywork. Precise setting with high flow metering pump.  
An acid and two alkaline chemical products.

### Roof high pressure

Rotating and oscillating nozzles on contour following beam and adjustable to 4 positions, for a complete washing of the body and of the lower bumper. Always with optimal distance and angle.

### Side high pressure

Rotating and oscillating nozzles that can be divided into 3 sections according to the profile of the vehicle for water saving.

### Drive and lift sensor

Measurement movements with two sensors for maximum precision and reliability.

### Photocells' Barrier (Optional)



Thanks to the photocells' barrier it is possible to detect any vehicle's shape, optimizing the horizontal brush contact and the drying blade pass.

High precision detection  
High speed detection  
High smoothness of functioning





## STARTRUCK

### SPECIFICATIONS

#### STRUCTURE

- Hot dip galvanized steel frame
- Roll-over direct drive, through inverter
- Stainless steel fasteners

#### VERTICAL BRUSHES

- Four-beam guide in hot-dip galvanized steel
- Power electronic control
- Electrical moving through toothed belt
- Front and rear double brushes overlapping
- Safety devices for excess brushes pressure

#### HORIZONTAL BRUSHES

- Electric lifting through inverter
- Power electronic control
- Guides in hot-dip galvanized steel
- Double lifting belt with safety sensors

#### MEDIUM PRESSURE AND HIGH FLOW PRE-WASH

- Lower side medium pressure (optional)
- Side medium pressure (optional)
- Side medium pressure with rotating heads (optional)

#### STANDARD EQUIPMENT

- Hydraulic circuit with electro-valves and dedicated ramps
- Shampoo dosing pump
- Control terminal in wall box with numeric key-pad and color display

## TECHNICAL FEATURES

Supporting structure in tubulars and hot-dip galvanized steel, consisting of four columns in the lower part at the bottom of the roll-over, and connected into the upper part by beams, on which is fixed the group that bears the vertical brushes trolleys.

Wide programming possibilities in order to wash automatically: trucks, buses, vans, cars, with possibility of specific management of various type of mirrors, spoilers, platforms with side banks, trailers, hooks, rear hydraulic platforms, etc..

Water-proof gearboxes, in special anti-corrosion alloy.

### Machine dimensions (in millimeters)

Washing height	4.200	4.600
Machine height	5.200 (4870*)	5.600 (5270*)
Machine width	5.000	
Washing width	3.500	
Machine depth	2.900	
Machine weight (kg)	2.250	
Distance between the rails	3.800 [3.700 o 3.900 o 4.000 upon demand]	
Rails length	18.000 [26.000 optional]	

\* With horizontal brush at rest

### Technical data sheet

Translation speed	m/min	0-20
Water pressure	Bar	3-5
Air pressure	Bar	8
Voltage	Hz	400 3/N/PE 50 230 3/N/PE 60 optional
Total power	kW	6,5
Control voltage	V	24

Washing width



Washing heights







## STARTUBE

### CAR WASH TUNNEL

Aquarama's brand new tunnel, innovative and with a strong character, versatile and functional in its many configuration; with a length from 9 to 40 meters, fully responds to all the needs of car wash professionals.

- Pre-assembled arches to be fixed to the structure with a variable pitch of 100 mm  
[Possibility to have]
- Side high pressure with contour following HP nozzles (with sides wash)
- Roof high pressure with HP nozzles on a contour following bar, tilting to 2 positions
- Side brushes (washing, polish, etc.)
- Horizontal brushes (washing, polish, etc.)
- Brushes for sides and wheel wash
- Half side brushes (Brazilians)
- Contour following roof drying tilting to 3 positions
- Side drying

#### Technical features

- System width: 4000 mm
- Structure width: 4250 mm
- Washing width: 2500 mm
- Maximum washing height: 2500 mm

## SPECIFICATIONS

### Roof high pressure

HP nozzles mounted on a vehicle contour following bar tilting to 2 positions. It allows a perfect cleaning of the car bodywork.

### Side high pressure

The side high pressure allows to effectively remove dirt, thanks to the use of HP nozzles mounted on the sides-cleaner at a constant distance from the bodywork.

### High pressure wheel wash

Rotating head with 3 high pressure nozzles to wash wheels and bottom part of the car.

### Roof and side drying

Contour following top drying conveyor, tilting to three positions. 4 electric blowers of 5,5 kW each, for a perfect drying of the vehicle sides.

### Towing chain

The towing chain with multi-speed frequency converter and a productivity up to 60 cars per hour, has a 360 mm width to accommodate large tires. The chain also contains a sensor that detects the contact of the wheel of the chain.

### Auto aligning system

The mobile footboard allows alignment of the car with the towing chain.

### Rotating head

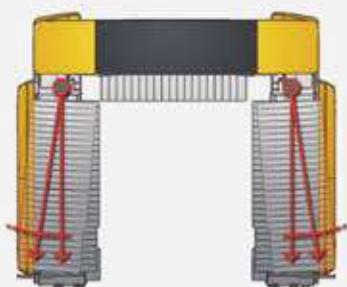
High pressure rotating head with 3 nozzles.

### Technology

Pre-assembled technology's frame with the electric board high and low pressure pumps hydraulic distribution and chemical products.

### Sensitive vertical brushes

Tilting vertical brushes, electronically controlled to perfectly fit the contours of the car.





## BUBBLES BAY

### SELF SERVICE WASHING AREAS

Bubbles Bay self-service washing areas meet all customer's needs, design and technology combine in a highly flexible and customisable product. By choosing a Bubbles Bay product, the customer is assured to have optimal results in caring for their car, a wide choice of programs and the possibility to use the Active Mousse, an exclusive patented system for removing the hardest dirt.

The steel structures offer guaranteed time reliability over time and are customisable with two types of outfittings:

- ABS Top Line
- Alluminium Cover

With the new ABS Top Line outfitting, Aquarama brings the range of Stargate Gantries to self-washing track systems.

The rounded lines make the structure modern and aggressive, with a strong visual impact.

The Alluminium Cover outfitting gives to the system a clean and elegant design.

## TECHNICAL FEATURES

### Self service system - control units



- Structure in galvanized and coated steel with highly based polyester powders
- Vandal-proof hinges, 3 positions locks and anchorages
- Display for total and partial credit and total and partial hours of operation
- Programming of all active functions
- Diagnostics maintenance
- Coin acceptor (recognition of the alloy) to accept coins
- Banknote reader to accept banknotes
- Token dispenser
- Heater and fan

### Active Mousse®

Born from the experience and genius of “Aquarama”, the Active Mousse is an exclusive product, with patented features.

It is able to reach incredible results in dirt removal and it is by combining detergent, air and hot water. The mousse is delivered hot, in low flow and pressure and, due to its density and lightness, sticks to the car body without damaging it and giving to the detergent the necessary time to react and to attack stubborn stains. The use of the Active Mousse is environmentally friendly, its composition does not require much water, and in this way many litres of it can be saved.

### Technology

The “Bubbles Bay” self-service systems are equipped with a most refined technology, in order to satisfy any requirement. Depending on the system type “Aquarama” offers dedicated technology.

### Planning - Aquarama’s technical department

Aquarama has an engineering department specialized in washing plants planning and engineering. Engineers and architects are able to develop different solutions according to area dimension and customer demands, offering a professional and qualified consultancy.



# ACCESSORIES

## Vacuum cleaner

- Stainless steel structure
- Flexible hose l=5 mt + accessories
- Credit ending warning light
- Electronic coin box kit



## Twin vacuum

- N. 2 flexible hose 5 mt + accessories
- Stainless steel structure
- Credit ending warning light
- Electronic coin box kit



## Mat washer

- Stainless steel structure
- Credit ending warning light
- Electronic coin box kit



## Two products dispenser

- Stainless steel structure
- Credit ending warning light
- Electronic coin box kit



## Remote control

From today it is possible to control your car wash everywhere you are directly through your smartphone, tablet or computer, thanks to the most modern Internet technologies, exactly as if you were on site.

- Additional hardware not necessary\*
- It works on every platform (Windows, Mac, IOS, Android)
- No need of installation of dedicated software or APP
- Remote control of the installations status
- Alarms advise by email
- Multilevel and Multiuser access
- Earnings control and statistics of usage of the installation, daily, weekly and monthly
- Possibility to modify the configuration in remote (prices, programs, happy hour, etc...)



## Aquachange Standard

### Technical features

- Galvanised and painted steel structure with polymerised urethane polyester powders
- System with hinges, anchors and vandal-proof 3-point lock
- Total and partial accounting display
- All the machine's active functions are programmable
- Maintenance diagnostics



### Equipment

- Coiner (alloy detector) to accept Euro coins
- Banknote reader to accept Euro banknotes
- Token dispenser
- Heater and fan

### Optional features

- Second token dispenser
- Second banknote reader
- GPRS Modem for transmitting data and alarms

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## Aquachange Top Line

### Technical features

- Coin changer in stainless steel with graphic colour display, with control and instrumentation of the various wash tracks, utility compartment equipment, track lighting, accounting data concentration
- General programming of all system operation data and parameters



### It may be equipped with:

- Electronic coiner, up to 2 banknote readers, up to 3 token/change dispensers, token or contactless Smart Coin Card dispenser and charger, ready for POS payment system (Debit Card) front opening with safety lock
- GPRS Modem for transmitting data and alarms
- LED lighting of the console and every payment system
- In case of using 3 coin changers, both are able to control all functions in redundancy
- Recessed installation version with rear opening or for ground installation with base
- Money compartment separate from electronic control and token loading (optional)

## WHY CHOOSE US ?

- **Experienced :** We only hire seasoned professionals. A team of experts that is constantly updated on technological innovations, materials and high-performance systems.
- **After sales service :** By choosing Ecoclean, you have not just purchased a technologically advanced product with an innovative design, but you have acquired an efficient and competent service network, able to support the Customer in system use and maintenance throughout its service life, optimising its performance and protecting the investment.
- **State of the art equipment :** We specialize in high pressure washing systems, investing in research & development, technological evolution and innovation and high production technology in order to guarantee reliability, quality and long life.

## CONTACT US

Eco-Clean offices and warehouse are located in Riyadh, Saudi Arabia, 15 minutes from King Khalid International Airport (RUH) , giving us convenient access to supply and service our customers across the gulf. Our branches are located in:

KSA: Riyadh, Jedda, Dammam

UAE: Al Sharjah



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