



# Your Guide to High Pressure Washers

*The ideal solution for outdoor cleaning*





AR Blue Clean is the home and professional cleaning product line of the **Annovi Reverberi S.p.A** group, a company founded in Modena by Corrado Reverberi and Umberto Annovi in 1958 and specialising in the manufacture of low, medium and high pressure pumps for farming and industry. In the nineties, the company drew on its experience gained in the industrial sector to establish the **Cleaning Division** for the manufacture of high pressure washers. Today the **AR Blue Clean** product range, **launched in 2006**, comprises **high pressure washers, vacuum cleaners (including models for ash), water pumps and a wide selection of accessories** to meet every cleaning need. From the care of indoor and outdoor areas, such as pavings, patios and swimming pools, to professional use, AR Blue Clean offers effective, functional tools, the result of expertise gained from over half a century of experience.

Our strength? Our ability to combine **craftsmanship and innovation** to provide products that always meet the consumer's needs. Thus the AR Blue Clean brand has grown impressively over time, gaining entry to the most specialised points of sale, both in Italy and abroad, and earning the trust of consumers with **an increasingly complete selection of products, with a full range of accessories.**

This ability to offer solutions tailored to the market's demands and the Annovi Reverberi group's trademark excellent quality have also brought success on the American market with a dedicated line of products, confirming the international standing of a brand now available on 5 continents and in more than 100 countries.



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To provide the **ideal solution for every cleaning need**: this is the goal of AR Blue Clean, which puts attention to detail and guaranteed performance as its top priorities. Starting with **high pressure washers**, the flagship item in the line, available in **various versions: Home & Garden**, designed for outdoor domestic use; **e-Range**, convenient, agile, very well equipped cold water high pressure washers; and finally **Professional**, recommended for professional use, supported by a wide selection of accessories. These different ranges have specific applications to suit a vast array of cleaning operations.

**Domestic high pressure washers** (Home & Garden and e-Range) are designed for occasional, low-intensity use: **lighter and more agile** than the professional models, they produce a high pressure water jet perfect for washing cars, motorcycles and bicycles and for garden care. **Professional** high pressure washers, on the other hand, are the ideal working tool (for builders and artisans, car workshops and farms), are suitable for intensive daily use and perform to the highest levels. Hot water high pressure washers, in particular, incorporate a boiler to heat the water used, and can provide the grease removal, sanitisation and oily surface cleaning necessary in some workplaces.

This first eBook focuses on the world of **Home & Garden cold water high pressure washers**. We'll discuss how to choose them and how to use them and where, from cleaning pavings to sanitising outdoor areas around the home, to washing cars, motorcycles and bicycles, and less usual or even surprising applications. We'll explore these tools' extreme versatility and **multiple benefits**, including for your physical and mental health: as many studies have proved, taking care of your home relieves stress and is good for your body and mind!



# Home & Garden range

The Home & Garden line offers a wide selection of products specifically designed to meet different needs, from washing small surfaces to cleaning larger areas. Every Annovi Reverberi Home & Garden high pressure washer has been designed to be **agile, portable and easy and use**, to give you unbeatable efficiency and convenience.



AR BLUE CLEAN 1 SERIES 117



AR BLUE CLEAN 1 SERIES 143



AR BLUE CLEAN 3 SERIES 386



AR BLUE CLEAN 3 SERIES 396



AR BLUE CLEAN 4 SERIES 491



AR BLUE CLEAN 5 SERIES 589/591



DSS SERIES



DHS SERIES 2.A



TWIN FLOW



## Chapter 1

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# Introducing the high pressure washer: features and characteristics

A high pressure washer is a machine that **removes dirt with the aid of a powerful high pressure water jet. The jet is generated by the pump of the high pressure washer**, powered by an electric motor or an internal combustion engine. The market offers models for both domestic and professional use: while the latter are designed to withstand the prolonged, heavy-duty operation typical of working locations, **domestic high pressure washers**, like the **Home & Garden** and **e-Range** models in the AR Blue Clean line, are ideal for **cleaning outdoor areas around the home** such as yards, paths, patios, paving and pools. They're also perfect for removing dirt from outdoor steps, stone walls and fences, and for cleaning garden furniture, bicycles and cars.



### How a high pressure washer works

The operating principle is very simple: the high pressure water jet is started and stopped by depressing and releasing the gun trigger connected to the high pressure hose. Water enters the high pressure washer through the water inlet and is pressurised by the pump, driven by the motor; the water is then propelled into the high pressure hose and right along it to the gun trigger and the lance connected to it, and out of the nozzle on the end of the lance. It should be noted here that there are **various types of nozzles and accessories** to make working with your machine even simpler and more effective.



*The uses for which a machine is suitable depend on the pressure and flow rate values, so before choosing a high pressure washer for purchase you need to know exactly what you want to use it for, meaning how often you intend to use it, on what kind of surface and for what type of dirt.*

How is a high pressure washer structured? Here are its **main components**:



## 5 parameters for choosing the right high pressure washer

The choice of the right high pressure washer depends on a large number of factors, so here's our guide to the parameters involved in finding the best model for you.

### 1. 1. Flow rate, pressure and power

A high pressure washer's performance is assessed on the basis of its cleaning power, which depends on the combination of two parameters: flow rate and pressure. The **flow rate** is the **amount of water the high pressure washer is able to deliver** in a given period of time (litres per hour, l/h). **A higher flow rate shortens washing times, and it is on the flow rate that the machine's possible applications depend.**



1 FLOW RATE, PRESSURE AND POWER

2 ABILITY TO WORK WITH COLD OR HOT WATER

3 POWER SOURCE: ELECTRIC MOTOR OR INTERNAL COMBUSTION ENGINE

4 USER-FRIENDLINESS AND PORTABILITY

5 ACCESSORIES AND FUNCTIONS INCLUDED

The **pressure** (bar), is just as important: it defines **the power with which the water leaves the nozzle**. The higher the pressure, the greater the machine's cleaning power, as it has greater penetration. The range starts from high pressure washers able to provide a maximum pressure of 100/120 bar, in the case of models suitable for occasional domestic use, while the value for professional machines may be up to 500 bar. The main **characteristics of a good high pressure washer** include the right **combination of pressure and flow rate**: a machine with high pressure but a very low flow rate would not clean effectively. The **motor power** of an electric high pressure washer is **expressed in watts** and is proportional to its pressure and flow rate values. As a rough guide, good models suitable for ordinary household use will be rated between 1.3 and 2.51 kW.

*A domestic high pressure washer for occasional use should have a flow rate of at least 350 l/h, while more frequent use on larger surface areas requires higher values, which may exceed 500 l/h in professional models.*





Let's take a look at two real-life examples of how to choose a high pressure washer on the basis of its flow rate, pressure and power values. We'll start with the **AR Blue Clean 1 Series 143**: with a maximum pressure of 120 bar, a maximum flow rate of 390 l/h and 1.5 kW of power, this machine is **suitable for occasional domestic use**, such as washing outdoor furniture, fences and bicycles.

Conversely, a model like the **AR Blue Clean 5 Series 589** is suitable for tough jobs such as removing stubborn dirt from large areas, because it has maximum pressure of 170 bar, a maximum flow rate of 500 l/h and 2.5 kW of power. It is also more hard-wearing due to its **induction motor** and **brass pump head**.



## 2. Hot or cold water high pressure washer?

There are both hot and cold water high pressure washers on the market. Once again, the choice depends on what you are intending to use the machine for. **Hot water** washers are more suitable for **professional contexts**, which require sanitisation or the removal of very tough dirt such as grease and oil, since heat can shift deposits a cold water high pressure washer can't cope with. **Cold water models** are effective in all other applications and for **domestic use** - in these cases, the high pressure jet, combined with the right accessories, means the high pressure washer is perfectly suitable for all the most common jobs.



### 3. Electric motor or internal combustion engine: differences and properties

High pressure washers may be powered by an electric motor or an internal combustion engine. Although less powerful than engine-powered versions, **electric high pressure washers** are able to meet domestic cleaning needs and also tend to be **more convenient and lighter**. On the other hand, machines with **internal combustion engines** are ideal for anyone seeking a versatile tool able to work in contexts **where electrical power is not available**, such as construction sites or old buildings.

### 4. Convenience and portability

Agility, portability and ease of use: these factors may be crucial. Do you need a handy, lightweight machine for use around the home? In this case, the model's **weight** will be a factor when choosing it, as will the provision of **wheels** and a **handle** for moving it around. What's more, if you're looking for a model that doesn't take up too much space, the right choice may be a compact high pressure washer, which can be stowed neatly away.



### 5. Accessories and functions

Faced with high pressure washers designed for the same needs, one key factor is the provision of **accessories**, supplied as standard or available for separate purchase, and of specific **functions**, such as the remote switch-off system or built-in detergent tank.

## How to use a high pressure washer: what you need to know

If you've just purchased or are about to purchase a high pressure washer, you might not know how to get the best from this effective cleaning tool. So let's take a look at the essential points you need to be aware of to use it properly and achieve the best results.

### Apply the right pressure

One of the key recommendations relates to the pressure you should apply to the area for cleaning. The **high pressure water jet** is the high pressure washer's distinctive feature, but **if misused it could damage surfaces**, especially the most delicate ones such as garden furniture, outdoor glazing, bicycles and cars. The first step to avoid this is to use the right high pressure washer for the materials to be cleaned. However, even with the right model available, it's always best to keep 20/30 centimetres away from the point being cleaned and **set the right jet intensity**: the needle jet is more powerful and the fan jet more delicate. **Working in broad sweeps** rather than concentrating the pressure in a single point is also good practice for gentler cleaning.

## Use the high pressure washer outdoors

Can I use a **domestic high pressure washer** to clean floors inside my home? The answer is no. Although perfect for caring for outdoor areas, this tool is not appropriate for indoor cleaning, since it would be difficult to dispose of the large amount of water emitted during its use, and because there is the risk of damaging indoor surfaces. What's more, for obvious reasons, the **high pressure washer must never be directed at switchboards, power sockets or outdoor light fittings.**

While the domestic high pressure washer is not suitable for floors inside your home, it is ideal for **cleaning the concrete floor of a garage**, or for washing outdoor paving, including **wooden patio decking.**

## Use a detergent

Although a high pressure washer is impressively powerful, ideally it should be combined with a **detergent for the optimal cleaning action.** The product, which must be specifically developed for high pressure washers and for the material to be cleaned, makes washing even more efficient, speeding up the process and sanitising surfaces, which will look like new after cleaning. **AR Blue Clean offers a vast assortment of delicately scented detergents** suitable for all needs (see [chapter 6](#) for a full overview).

## Maintain your HPW properly

To ensure that a high pressure washer always delivers outstanding performances, it is important to follow a number of recommendations to keep it in peak condition for longer. For example, before starting it up don't forget to **check that the inlet filter is clean and that the inlet water flow rate is sufficient:** these factors may impair the machine's efficiency by causing a **reduction in pressure.** For further details on how to maintain your high pressure washer correctly, see [chapter 5.](#)

## Comply with safety rules

Last, but certainly not least, **safety.** A high pressure washer is not a toy: it must always be used in a careful, responsible manner and **never directed at people, pets or plants** - unless, in the last case, you are using the spraying function, specifically for gardening.

In all cases, before using it **read the producer's manual** for information about the model, the correct practice to be followed and the instructions for safe use. In general, to avoid the risk of losing your balance or control of the machine, **grip the trigger gun firmly and stand on a stable surface.** It is also important to **consider your surroundings**, checking that there are no children or pets, or items which may be damaged if the water



jet hits them, in the vicinity: for example, it may be useful to cover plants and shrubs near the area where you will be using the high pressure washer. As well as this, it is advisable to wear personal protective equipment - usually specified in the producer's manual - such as **non-slip boots, gloves, long trousers and goggles**.

## Does using a high pressure washer save water?

Water is a precious resource which must be conserved as much as possible, and using a high pressure washer can help you to use less of it when cleaning outdoor areas around your home. The reason is quite simple: the power of the high pressure water jet allows better, faster cleaning, and **reducing cleaning times means using less water**. Unlike a garden hose, which has the same flow rate whether you want to clean a very dirty surface or just deal with lighter dirt, the high pressure washer has another advantage: you can choose a machine with the right pressure and flow rate with the type of jobs you want to do.

But there's more: you can reduce your water consumption even further with the aid of specific accessories and detergents, for use with the high pressure washer to optimise its cleaning action and cut washing times, thus saving more water.



Two convenient, innovative models for this purpose are those in the **DSS Series** line, since with the Dual Speed System you can modulate the machine's performances to suit the job to be done. What does this mean? When faced with the toughest dirt, you can select **MAX SPEED** mode, which uses all the high pressure washer's power with standard electricity consumption, but for delicate materials and superficial dirt, you can switch to **ECO SPEED** mode, cutting water and energy use by 30%.

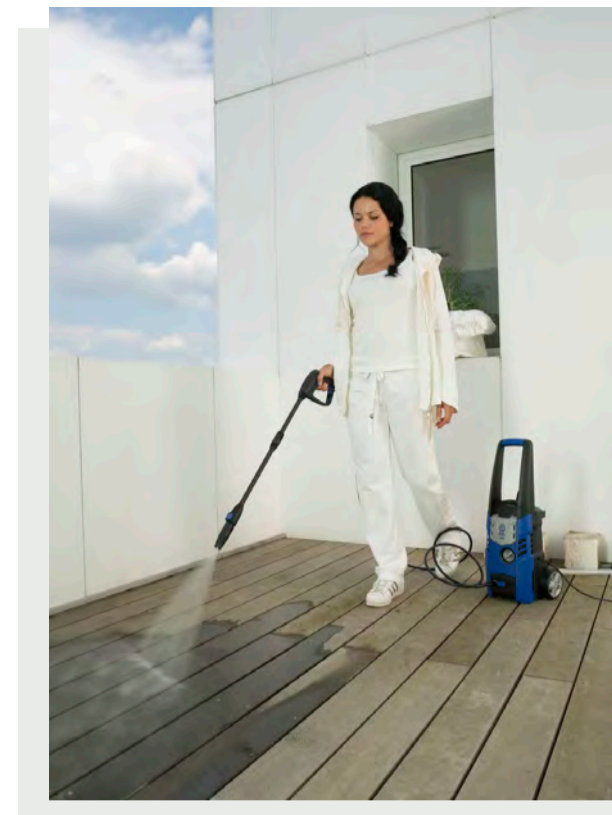


## Chapter 2

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# Outdoor cleaning: caring for gardens, pavings and other surfaces

What could be more relaxing in the summer months than resting in the cool of your garden, enjoying the fresh air? Anyone lucky enough to have a green area around their home knows how reinvigorating a relaxation space of this kind can be, but keeping your outdoor haven clean takes time and effort. Once you've seen to the lawn and the plants, it's the turn of the **outdoor surfaces such as pavings, walls, and even roller blinds and awnings**. The **ideal tool for all these operations is the high pressure washer**, which, fitted with the right accessories, can make the difference in terms of cleaning. In fact, just taking care of the growing things is not enough for a neat, healthy garden: you need a tool like a high pressure washer, which guarantees high performances thanks to the strength of the high pressure water jet. Here's our advice for removing the grime, moss and dirt that build up on outdoor surfaces and objects during the winter months.



## Cleaning outdoor pavings: getting the best results on every material

The first step in perfect outdoor hygiene is **pavings** and keeping them thoroughly clean. This will ensure your outdoor areas are clean at all times and mean less dirt is brought into your home, ensuring that both interior and exterior are more attractive and safer. Outdoor pavings may be in **different materials**, each of which requires **specific cleaning procedures**.

### Terracotta outdoor pavings

**Terracotta pavings** require regular maintenance, because this material is porous, and outdoors it is constantly exposed to the most stubborn forms of dirt. A treated terracotta paving will retain its good looks for longer, but it must be regularly cleaned. It must first and foremost be **swept regularly** to prevent the build-up of deposits, but it must also be **washed often, with a specific, delicate detergent**. If dark areas appear on the paving due to the **growth of mosses and lichens, the high pressure washer can help to remove them**: the powerful high pressure water jet is an excellent way of shifting the green coating. However, specific products are also available for combating the formation of these factors; use them in accordance with the producer's instructions.

### Natural stone outdoor pavings

Cleaning **natural stone outdoor pavings** is not complicated, especially if they are cleaned regularly to prevent dirt from bedding in. Bearing in mind that it is always advisable to ask the installer or supplier of the paving for recommendations about suitable detergents, there are general guidelines that apply in most cases. For

example, did you know that acid and corrosive substances like vinegar, lemon juice and alcohol are very bad for natural stone? Although they are often used in the home, they should always be avoided in this context, as they might damage the surface. Limescale remover detergents and hydrofluoric acid are also unsuitable.

So **delicate products** should be used for routine cleaning, rinsing away detergent residues with plenty of water. After sweeping to remove dust, outdoor stone pavings can also be cleaned with a **high pressure washer**. The **DSS Series** range models, in particular, are excellent for the maintenance of outdoor areas and have an undeniable advantage: you can **select the most appropriate washing mode**, with a choice of MAX SPEED (more powerful) and ECO SPEED (lighter and more delicate). What's more, AR Blue Clean offers the innovative **Aqua Sweeper** accessory: connected to the high pressure washer, it cleans an area 30% larger than a conventional Patio Cleaner and delivers unbeatable performance on this type of paving, especially teamed with the **wall and stone detergent**. Another very efficient brush is the **Power Brush**, with mechanical brushing action and 3 wash nozzles.



## GOODBYE MOSS. HOW TO GET RID OF IT ONCE AND FOR ALL

**Moss, algae** and **lichens** may form on garden paths, paving and walls, especially in **shaded, very damp areas** and during the winter months. Removing the green coating that forms on these surfaces is not only important in terms of appearance, but is also vital for safety, as it may make them very slippery and lead to dangerous falls. How can you do this quickly and effortlessly? With a **high pressure washer**, of course!

Since it emits a **high pressure water jet**, a high pressure washer can get rid of the toughest dirt in a very few steps. The **Twin Flow** line of high pressure washers which incorporate 2 power units is particularly effective for removing moss. The user can choose whether to operate one or both pumps to modulate the power to requirements, **boosting cleaning performances by up to 50%** when necessary. Twin Flow machines also feature the **Twin Nozzle**, an accessory with two nozzles that can double the surface area cleaned and save up to 70% of your time. It can be used with adjustable jet nozzles, or with **rotary jet wash nozzles**, recommended when tackling **moss**

**and stubborn deposits.**

Specific products formulated to remove mosses, algae and moulds are also available on the market. In these cases, the producer may recommend **use of a high pressure washer** in one of the phases, for example after applying the product and leaving it to act, at which point the dirt can be washed away with the aid of the high pressure water jet.





## Porcelain stoneware outdoor pavings

In view of its strength, porcelain stoneware is widely used for modern floors and pavings. For outdoor pavings, a high pressure washer can be used in combination not only with a universal detergent but also with a special brush such as the **Patio Cleaner**, which connects to the HPW's trigger gun to remove deposits faster and without damaging the material.

## Outdoor wood or WPC decking

A high pressure washer can also help you to care for **outdoor wood or WPC (wood composite) decking**. This distinctive type of paving is often found outside homes or around pools and is very attractive (if clean, of course!). A **cold water high pressure washer** is also an excellent aid for cleaning these coverings: for the best results, always keep the right distance from the surface and use the fan jet, to ensure it won't be damaged by the power of the machine. We advise use of a specific brush such as **Deluxe Chem Patio Cleaner**, which also has a tank to take the **specific decking detergent**.



## Cleaning the grouts in pavings

**Tiled pavings** have one major drawback: the **dirt that builds up in the grouts**. Washing surfaces often is not enough: a layer of dirt accumulates in the gaps between tiles, and if not removed it simply gets blacker and blacker. **So how should you clean the grouts in your paving?** As well as "home-made" solutions like bicarbonate of soda, vinegar or hydrogen peroxide, there are also specific accessories that can help you in this job, which can often be quite hard work. In case of delicate materials like marble or terracotta, we advise you always to test the substance or detergent on a corner of the floor not in plain sight before applying it to the entire surface, to check its effect also after it has dried. Let's see how you can clean grouts in just a few steps using a high pressure washer.

- Once you've removed the loose dirt from the surface, it's time to bring a high pressure washer into play. In particular, we recommend **Twin Flow** range machines, as their versatility is able to meet a wide variety of needs.
- As a general rule, you should always keep the lance some distance from the paving **and direct the jet at an angle to it, for a gentler cleaning action**. If, on the other hand, you want to remove moss from tough surfaces like stone or brickwork, you can reduce the distance, and use the rotary nozzle, which can emit a very powerful water jet (in fact, in view of its force this tool is not recommended for wooden decking, for example, because it might be damaged).
- For faster, more efficient cleaning, you can use a **specific detergent** suitable for the surface concerned. What's more, for rapid removal of dirt from pavings and grouts you can make use of the highly effective **Power Brush**, with its 3 nozzles, or Deluxe Chem Patio Cleaner, for particularly precise, uniform cleaning.

High pressure washers can be used on various types of materials, from stone to wood. As well as the standard lance, for more effective action specific accessories such as **paving scrubbers** can be fitted. AR Blue Clean offers three types of high pressure washer brushes, perfect for all surfaces:



- **Patio Cleaner.** For precise, even cleaning of horizontal surfaces. AR Blue Clean offers it in three versions, **Mini Patio**, **Deluxe Reg Patio Cleaner** and **Deluxe Chem Patio Cleaner**, the last-named with built-in detergent tank.

- **Power Brush** Thanks to its three nozzles, this tool operates on three times the surface area, still with very effective cleaning.

- **Aqua Sweeper** A paving brush that not only guarantees quick, effective cleaning, detaching dirt (mud, moss, etc.) from the surface, but also allows you to switch between washing and rinsing with just a click. It can therefore sweep away the shifted dirt, leaving the paving perfectly clean and saving you even more time and energy.



See [page 43](#) for full details of all AR Blue Clean line accessories!

AND WHAT ABOUT TERRACES AND BALCONIES? HOW DO I CLEAN THEM?

A high pressure washer is also able to remove dirt faster from terraces and balconies. However, bear in mind that it's only suitable when no-one is going to object to large amounts of water and only in conditions of safety for yourself and others: for example, don't run the risk of flooding the balcony of the tenant on the floor below.



## Cleaning the outside walls of your home and stone walls with a high pressure washer

A high pressure washer can also be useful for maintaining the **external walls of your home** and other **outdoor walls** faced with stone, vinyl, aluminium, steel, brick, plaster or wood. Outside walls can be washed as part of routine care, or also to prepare surfaces for repainting. This must be done with great care to avoid accidents and to ensure materials are not damaged. Let's take a look at the main precautions required.

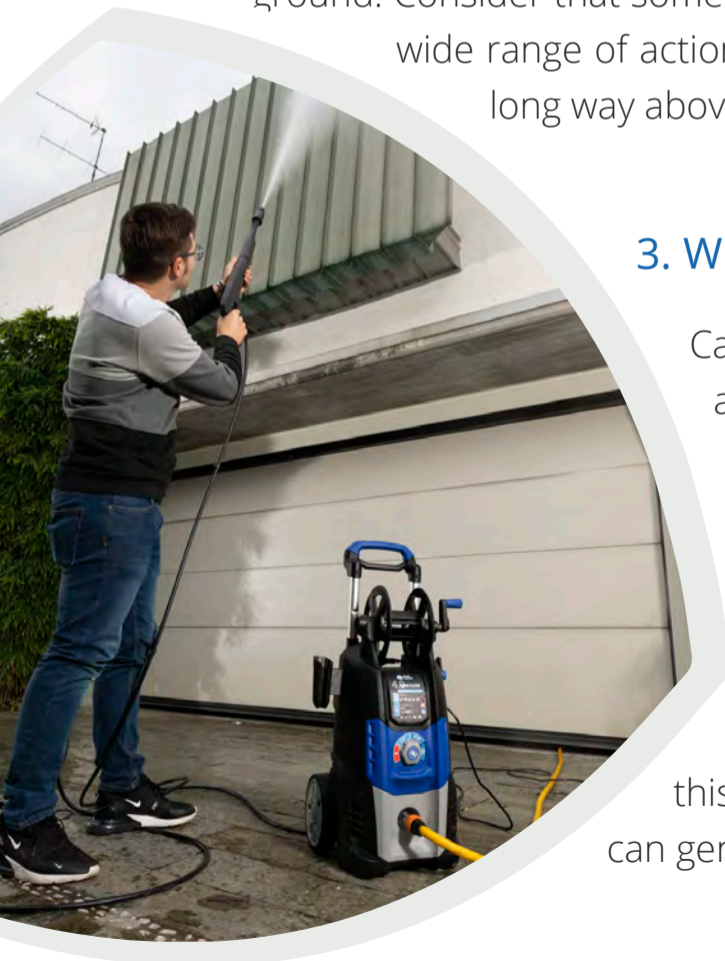
## 1. What to do before starting to clean

Before starting, **repair any damaged areas** on the outside wall of your home. Important note: if you think the surface may have been painted with a lead paint, you can't do this job yourself but will have to call in a professional. Another precaution is to **switch off the electricity supply** to outdoor power points, which can be covered with insulating tape, while light fittings must be protected with plastic, and **windows and doors must be closed**. It is also important to choose the right days: apart from avoiding wet weather, you should also make sure that it's not too windy and that there is no direct sunlight on the wall for washing, as otherwise the heat may dry the detergent used too quickly.



## 2. Safety precautions

Although it can be fun to use, a high pressure washer is not a toy and must be used with due care and attention. As already mentioned in chapter 1, precise instructions must be followed when using this tool, and these include the use of personal protective equipment, first and foremost goggles. **What's more, you should never stand on a ladder when using the machine**, since the kickback caused by the power of the jet could knock you off balance. If you have to clean a wall of the upper floor of a two-storey building, you should use a **lance extension**, an accessory designed for reaching high places even when working on the ground. Consider that some high pressure washers, such as the **Twin Flow** line models, have a very wide range of action and a jet effective at up to 5 metres, enabling you to clean surfaces a long way above ground level.



## 3. While cleaning: what you should know

Care must also be taken when cleaning. For example, remember not to apply too much force to surfaces; keep the lance a suitable distance away and move toward the surface gradually. The lance should also be tilted slightly downward. When using **detergent**, as well as choosing a product suitable for the material for cleaning, remember to **apply it working upward from the bottom**; then leave it to act for a few minutes and **rinse in the opposite direction**, from the top down. If you have to remove mould, there are specific products on the market to deal with this: once they have been applied to the wall and left to act as instructed, you can generally rinse them off with the high pressure washer.

## 4. Which high pressure washer should I use?

The outside walls of houses can be cleaned using an electric high pressure washer, such as the particularly agile, well equipped **e-1800 and e-2000HRD models in the e-Range, line, ideal for domestic use**, or **DSS Series** line machines, which let you modulate the pressure depending on the surface for cleaning to save water and electricity compared to HPWs that always use the same pressure level.

During washing, if the wall is very dirty or moss is present, we advise you to use a rotary jet wash nozzle; an adjustable jet nozzle is recommended for rinsing. If you have a Twin Flow high pressure washer, you can cut your cleaning time with the Twin Nozzle adapter, enabling you to use 2 nozzles at once. You can use 2 rotary jet wash nozzles to remove the dirt more quickly or use one rotary and one adjustable jet nozzle together, to wash and rinse in a single pass. Twin Flow line models are also ideal for caring for **walls in natural stone**, a very popular building material due to its “timeless” beauty. With the Twin Nozzle adapter, the grime left on stone by smog is easily removed.

Another useful accessory is the **5-in-one nozzle**. This nozzle has 5 different angle settings, so you can perform all the passes (pre-washing, soaping, dirt removal, washing and rinsing) with a single accessory.



## Cleaning roller blinds and shutters with a high pressure washer

If you live in a house rather than a flat and the roller blinds or shutters for cleaning are on the ground floor, **a high pressure washer is the ideal tool for removing the toughest dirt**, without wasting time and energy (for wooden shutters, the surface needs to have a waterproof finish). Powerful and efficient, this tool makes cleaning much easier than with traditional methods involving water, a sponge and elbow grease. Just think of the problems of removing the dirt that builds up between the louvres of a shutter: a high pressure washer rinses it away with ease! Here is some advice for getting the best results using your machine:

*First, some terminology. Roller blinds are rolling shutters, raised or lowered to regulate the amount of light entering our homes. Shutters, on the other hand, are louvred casements that filter the light.*

- After removing dust, you can apply the detergent to the shutter or roller blind (first make sure that the blind has been fully lowered, and be careful to close the windows so that no water can get inside your home). You can apply the detergent using the lance of the high pressure washer if it has a built-in detergent tank, or with a foam lance bottle kit, fitted on the lance.
- AR Blue Clean offers a **specific wood cleaner** for washing wooden shutters and roller blinds with a high pressure washer, or the **universal detergent** for plastic and aluminium types. Ideally, apply the product working upwards from the bottom, in horizontal passes, and leave it to act for a few minutes but not to dry: it will eat into the dirt more effectively.



- On PVC and aluminium surfaces, you can then use one of the accessories that enhance the efficacy of the detergent. These are the **Fixed brush**, the **Rotary brush** and the **Power Brush**, tools with an action that dissolves the dirt with the greatest delicacy. The Power Brush, in particular, enables you to reach even the tops of roller blinds and shutters.
- You can now rinse the roller blind or shutter with the high pressure washer jet. It is important to keep some distance from the surface and use the **fan jet**, which is gentler than the needle jet.

## Washing awnings with a high pressure washer



Outdoor awnings are essential to protect us from the sun on the hottest days. However, since they're exposed to smog and atmospheric agents they must be well maintained: dingy, dusty awnings do nothing for the home's appearance, and if not well cared for the fabric may rot beyond repair. Although cleaning awnings may seem complicated, with the right products and tools it all becomes easier. In particular, it's best to use a **high pressure washer to clean awnings without removing them** when a large amount of water can be used. Here again, always work in conditions of the maximum safety. The adjustable jet nozzle should be used at the correct distance with the fan jet, for a gentle action to ensure that the power of the jet will not tear or damage the fabric. For the very best performance, AR Blue Clean has produced a **specific detergent for awnings**, a product developed for cloth and plastic fabric awnings for use in combination with AR Blue Clean high pressure washers.

With a high pressure washer, you can do the job fast and effortlessly. What's more, with the powerful jet, you can reach even the highest points of the awning without difficulty. Here's how:

1 After removing dust and debris with a brush, you can spray the awning with the water jet mixed with detergent;

2 Wait a few minutes to allow the product to act. When dealing with stubborn dirt, if you have a high pressure washer brush you can use this accessory on the surface for better results;

3 Rinse the awning, again using the high pressure washer, and leave it to dry in the sun ...

WHAT COULD BE EASIER?

## For even better results

To keep awnings looking good for longer, they must be **washed regularly**. You should do this at least once a year, for example in preparation for summer, although the frequency may vary depending on the level of dirt. What's more, before starting to clean an awning you should **find out exactly what it is made of** and check out the washing instructions. Fabrics such as PVC and acrylic fibres, for example, tend to be less delicate than cotton.

As well as finding out how to clean the fabric, you need to know whether the awning can be removed. In fact, many models **can be taken off their frames** for washing, and some of them are even machine-washable.

If the awning cannot be removed, or you do not intend to do this, you can wash it in place. This is only feasible if the awning is easily accessible; for example, if it is on the ground floor or in a garden.

## Follow the golden rules

The best way of getting mould on your awning? Winding it up when still wet. So after washing, **remember always to allow awnings to dry before closing them** to avoid unpleasant surprises. Not forgetting the importance of checking out the most suitable cleaning tools, it is always best to avoid aggressive chemicals and choose mild and neutral detergents. Specific products for this purpose are also available on the market.

*You can definitely use a high pressure washer to clean an awning, provided you take the necessary care: excessive power may damage the fabric, but stick to the rules and your HPW will be a great help.*



# Can I sanitise the outdoor areas around my home?

Home sanitisation does not end with the inside of the house; outdoor areas are also important. As we have already seen, a high pressure washer is the best solution for cleaning outdoor areas: it can freshen up garden furniture, remove moss from fences, and wash outdoor pavings and stone garden walls. But it can also do much more! With the right model and product, you can also use this tool to **sanitise surfaces**: an easy way to guarantee the whole family a healthy environment, even outside the home.



AR Blue Clean has designed two specific products for this purpose.

**The DHS Series 2.A high pressure washer**, with an innovative sprayer and two handy functions. In fact, Spraying Mode is excellent not only for sanitising outdoor surfaces such as pavings, sun loungers and outdoor showers, for example, but also for spraying gardens against insects and mosquitos or for effective pre-washing when cleaning cars. For rapid rinsing of the detergent, you just turn the high pressure washer switch from Spraying Mode to Washing Mode and change the lance: the powerful water jet will now remove every last speck of dirt.

**HYG sanitising cleaner for high pressure washers**, specifically developed for the hygiene of outdoor areas, can be used with all AR Blue Clean Home&Garden high pressure washer models and on pavings, garden furniture, artificial turf, garden walls and outdoor glazing, for thorough, in-depth cleaning.

While **ordinary cleaning** is sufficient to ensure hygiene inside the home, a deeper sanitising action may sometimes be required to combat germs and bacteria. But what is the difference between normal cleaning and disinfection? The former removes “visible” dirt (stains, dust, debris) with the aid of a detergents.

**Disinfection**, on the other hand, destroys pathogenic microorganisms, and requires special disinfectant products. Disinfection should be carried out after cleaning - dust and dirt should be removed before disinfection is performed.

**Sanitisation** is the term that embraces all the measures taken to ensure that an environment is healthy. It includes both cleaning and disinfection, but may also involve additional procedures such as insect and rodent pest control, and actions to improve the microclimate (temperature, ventilation, humidity, etc.).





## Chapter 3

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**Washing cars, motorcycles  
and bicycles has never been  
so easy**



# How to wash the outside of your car: advice for a car that “looks like new”

Many people see **washing their car** as a pleasant weekend pastime, but for others, it's a boring, tiring job to be put off as long as possible. Whether you're in the first or second category, washing your car regularly is essential for keeping it in good condition. But what should you use to get the best results without wasting time and effort? A high pressure washer is the ideal tool for bringing the shine back to your car without having to visit the car wash.

## Gleaming bodywork with a high pressure washer

First of all, you should **rinse your car with a high pressure jet** to remove the most visible dirt, before applying the detergent. Also remember that you need to keep at least 20-30 centimetres from the surface of your car while the high pressure washer is operating, and that you should use the **adjustable nozzle with fan jet**, which is gentler. This step is followed by **cleaning with the specific detergent**.

Some high pressure washers have a tank, or if this is not included you can opt for a foam lance bottle kit, or the **high pressure foam lance bottle kit**, which differs from the normal standard types because it emits the foam at high pressure. Apply detergent in horizontal passes, working from the bottom upward, to get the full benefit of its action. Once you've covered the car with detergent, you should wait a few minutes to allow the foam to act on the dirt, taking care not to let it dry.



The ideal tool at this point is a **rotary brush**; combined with the detergent, it will enable you to clean the car's surface more thoroughly. We advise you to start at the top of the car and work downwards. By the way, don't forget to wash the underbody and wheels: for the underbody, we recommend the **Underbody lance kit**, ideal for reaching the trickiest points, while wheels can be washed with the **Fixed brush** or the **Rotary brush**, excellent for wheel bolts and the most inaccessible parts. Now it's time to rinse the vehicle with a high pressure water jet, starting from the top and working downward, and then to dry it with a microfibre wiping pad or chamois leather, for a smear-free surface.

*A tip for the summer months: when temperatures are high, we advise you **not to wash your car at the hottest times of day** - choose the morning or evening instead. Excessive heat will evaporate the detergent too fast and leave smears on the car. If you have no option but to wash your car when the sun is at its height, make sure it's in the shade.*

### **Washing your car in winter extends its lifetime**

In winter, washing your car isn't a tempting prospect. Low temperatures and bad weather are not ideal for getting down to this job with enthusiasm, especially given that, in view of the weather conditions, your car will get dirty faster at this time of year. However, **washing your car regularly in winter is fundamental for keeping it in good condition**. Especially if you live in a place where temperatures often drop below zero and it snows often, you'll be well aware that the roads are salted to prevent icing. What does this have to do with washing your car? It has a lot to do with it, because **in the long term the built-up salt residues can damage the car's metalwork**, due to their corrosive effect. So you need to make sure that the salt, mud and ice mixture doesn't stay on the car for too long by washing it regularly to remove the dirt effectively.

### **Washing your motorcycle with a high pressure washer**



If you're a keen biker who lives for the weekends when you can get out on your motorbike, you'll know that to keep it looking good and working well, you need to wash it often. For a true enthusiast, this task isn't a job of work - it's a chance to spend more time with your "baby", although more caution is required than when washing a car: since many of their components are exposed, **motorcycles have to be washed with greater care**.

#### **The benefits will convince any sceptic**

Although there may be some scepticism about using a high pressure washer for cleaning a motorcycle, it is actually a very useful tool. It simply has to be used with the right precautions. There are machines with different power ratings on the market and not all of them are suitable for motorcycles, so the first step is to find the right article.

AR Blue Clean, for example, offers a large number of **domestic high pressure washers** that are perfect for cleaning motorcycles, since they are able to clean efficiently but gently. These include **AR Blue Clean 4 Series 491** and the **DUAL SPEED** module, the latter with its unique feature of varying the power to suit the application. In general, high pressure washers with internal combustion engines are not recommended because they tend to be too powerful for motorcycle care (AR Blue Clean models are electric).



## Caring for your “baby”, step by step

Before starting, remember to **choose a spot in the shade**: if it's a very hot day and the bike is in direct sunlight, the detergent might dry too fast and leave smears. It's also a good idea to start with delicate parts like the exhaust and air vents.

Also, assuming that the chosen high pressure washer is suitable for this job, remember to **keep it far enough away from the bike** (at least one metre) when cleaning. For safety reasons, it's best not to use the high pressure washer's nozzle too close to components like bearings, gaskets, the chain, the electrics and instrumentation. You can move nearer when washing the wheels, bodywork or windscreen, for example. It's also very important to use the **adjustable jet nozzle** with the fan jet, which is more delicate.

Here's now to proceed when cleaning a motorcycle.

### 1. Pre-washing

Pre-washing is useful to **remove coarse dirt**: if not eliminated, large particles would be dragged across the surface by the sponge, causing marks and scratches. In this phase use the high pressure washer to spray a jet of water and detergent onto the bike: remember that the chosen cleaner must be formulated for high pressure washers and suitable for motorcycles. Leave the soap to act for a few minutes then rinse it with another water jet.



### 2. Cleaning the transmission and wheels

After the initial step, it's time to begin cleaning as such. We suggest you **start from one of the dirtiest areas**, the transmission, using a suitable product and the brush for the chain (essential rule: after washing and drying your bike, don't forget to oil the chain!). After finishing with the transmission, move on to the wheels, again with a suitable detergent; after removing the grease, rinse with the high pressure washer.

### 3. Washing the motorcycle with a sponge and detergent

Now you've done the dirtiest parts, you can clean up the rest of the bike. To do this, mix **detergent and water** in a bucket and apply the solution with a soft sponge. If the sponge gets very dirty while washing, clean it before proceeding, or change it for a clean one. Facing stubborn dirt? Don't rub too hard, because you might damage the surface: it's better to perform repeat washes for the best result. Are the dried flies on the windscreen driving you crazy? Bear in mind that there are specific products for removing them on the market.

### 4. Rinsing

Once it's been thoroughly cleaned and degreased, the motorbike has to be rinsed, and here you can use the high pressure washer again. Important tip: **don't wait too long between washing and rinsing**, as the detergent can leave unsightly smears if it has time to dry.

### 5. Drying

Once you've cleaned your bike, you have only to **dry the surface with a microfibre wiping pad** or a chamois leather. When done, you can wipe once more with a dry cloth to remove water from hidden corners or to polish details. Many bike owners use a compressor to clear water from nooks and crannies

### 6. After washing: polishing your motorcycle

If you wish, after washing and drying you can **polish the bodywork with a specific wax polish**, which will provide the bike with additional protection as well as an attractive shine.



*An extra tip: how should I clean the seat?  
First check what your seat is made of  
(leather or imitation leather) and then  
use products specifically formulated for  
cleaning and protecting it.*

# Cleaning your pushbike

A bike ride in natural surroundings is a great way of winding down, exercising and taking a break from the daily grind. But once you get back home from your rural adventure, there's a job waiting for you: you have to clean your bicycle! Mountain bikes, in particular, may give you access to stunning trails in lovely countryside, but you'll almost always get home with **a bike covered in mud and slime**, which requires immediate action.

## With a high pressure washer, you can do a good job in record time

Although there are no hard and fast rules about how often you should clean your bicycle, since it depends on how you use it and the weather conditions, regular cleaning is an essential ingredient in correct maintenance. Then there are cases, like when you get back from a ride along muddy trails, when you can't put it off, because the **dirt and mud would cause premature wear of your bike**.

A high pressure washer is the ideal tool when time is short and you have to remove large amounts of dirt. So we recommend it above all for mountain bikes, because it can shift even the toughest mud deposits quickly and effortlessly. This is what you need:

- High pressure washer suitable for cleaning bicycles. We recommend a model such as the **AR Blue Clean 1 Series 117** or the versatile **Twin Flow** models, which are perfect for cleaning motorcycles, cars and bicycles in Soft Cleaning mode.
- High pressure washer detergent suitable for cleaning bicycles.
- Cloth for drying.
- Lubricant.

The unique feature of the high pressure washer is its high pressure water jet, which has a series of benefits in terms of cleaning action compared to an ordinary garden hose. But in view of its power, you need to **take care when cleaning a bicycle**: this will ensure the high pressure doesn't force the water into sensitive parts like the suspension or crank bearings.



1. Stand your bike up against a wall or in a rack and first wet it with a high pressure water jet; once the mud residues have been moistened, you'll be able to remove them with the aid of the HPW's power.
2. After this initial step, which removes the coarsest dirt, move on to washing with **the right detergent**. If your high pressure washer has a built-in detergent tank, you can use this function; otherwise, you can utilise the handy foam lance bottle kit supplied, or the **high pressure foam lance bottle kit**, which emits the foam at high pressure.
3. After leaving the product to act for a few minutes, wash and then rinse the bike with the aid of the **fixed brush**, a very useful accessory for restoring the frame to

its original splendour. Bear in mind that, as already stated, although a minimum distance is always necessary, you can move the jet closer to clean the frame and tyres, for more effective removal of stubborn dirt.

4. After rinsing thoroughly, **don't forget to dry your bicycle**, fundamental to prevent rusting. Ideally, use just a clean cloth. If you should decide to use compressed air, make sure the jet doesn't force water inside the gaskets.
5. The final step is to **lubricate the chain** and all moving parts, essential for keeping the bike in good condition.



### How far away should I keep when cleaning my bike?

When cleaning a bike, you keep **at least a metre and a half away** for the most gentle action, especially around the hubs, crank, steering, dampers and seat mounting, at which the jet should only be directed sparingly. You can **reduce this distance when washing the crossbar and tyres**; while still taking care not to get too close, the power of the high pressure will be useful for more effective dirt removal. Make sure you **use the adjustable nozzle with fan jet**, which is gentler on the bike's components than the needle jet, but just as effective. Last but not least, remember that it's easier to clean your bike when the mud is still damp.





## Chapter 4

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**6 uses for a high pressure washer that may never have occurred to you**

A high pressure washer is much more than “just” a cleaning machine. We see it as more of a **strategic tool**, able to “transform” for use in completely unexpected ways as and when necessary. If you own a high pressure washer but aren’t familiar with **all its possible applications**, this chapter will offer you lots of useful information for exploiting it to the full. If you haven’t bought one yet, it could help you to assess all its potentials.

## 1. Clearing downspouts and drains is no longer a problem

Oh bother: the downspout’s blocked again. Water’s only flowing down it slowly, or not at all, and you need to solve the problem fast. Often, this issue is our own fault: we sometimes fail to pay attention to what’s falling into our gutters, or don’t clean them often enough, so residues of various kinds build up to form a “plug”. Good practice is fundamental for avoiding this problem, but once the damage is done you have to take measures to return things to normal. Together with specific accessories, a high pressure washer can help you to clear blocked downspouts, and even domestic pipes.

In fact, the use of a high pressure water jet is common practice for drain clearing professionals: it’s a very effective way of **removing blockages**. The vital accessory is the **pipe cleaning kit (length 16, 10 and 8 metres)**, with a jetter nozzle at one end that emits the high pressure water jets required to clear the blockage. It’s essential to proceed with care: for domestic pipes, for example, the nozzle must be inserted into the drain by at least 40/50 cm to avoid backflow problems.



## 2. Swimming-pool: dive into bluer water thanks to your high pressure washer

To keep **your swimming-pool** in tip-top condition throughout the summer, the first step is effective water treatment to prevent the formation of dirt, algae and bacteria. As well as this, the pool must be mechanically cleaned fairly frequently. For example, you must **clean the edge often** to prevent debris from getting into the water, especially if there’s plenty of vegetation around the pool.

In this case you could use a **high pressure washer**: with the high pressure water jet you’ll be able to remove the dirt with ease. You can also use this tool to **clean the outer walls of an above-ground pool**.



The only models on which a high pressure washer should not be used are small inflatable pools; for all other types, it's important to keep the HPW far enough away from the pool for gentle but very effective cleaning. If your pool is in-ground type and is particularly dirty after the winter, once you've drained out the water you can use the high pressure washer to clean the bottom and the inside walls. You can use this method on concrete pools, but it's not recommended on more delicate materials such as vinyl and fibreglass, since it may damage them.



### 3. Restoring the brightness of artificial turf in three steps

The first step in caring for an artificial turf lawn is to remove leaves, dust and debris. You can do this with a garden rake, a stiff broom (metal bristles and tips should be avoided in both cases) or a vacuum cleaner. After removing the dirt, you can **wash the lawn** with a long-handle brush and detergent, or with a high pressure washer. With its high pressure water jet, the HPW does this job very thoroughly, cleansing in depth and removing the smaller pieces of debris not removed by the rake and broom: a perfect solution for restoring the bright colour of artificial turf in double-quick time. Here are a few tips:

*An artificial turf lawn can be an option for anyone who wants a green area outside their home but prefers to avoid all the work involved in tending natural grass. Artificial turf is easy to look after (which is why it is chosen!), but it must be cleaned regularly to maintain its attractive appearance.*

- First wet the area with the **high pressure washer jet**, taking care to use the less powerful open fan jet, and to keep the lance at least 30 centimetres from the surface and the jet at an angle to the ground (not perpendicular to it).
- Then apply a suitable detergent to the lawn. AR Blue Clean, for example, offers a **specific detergent for artificial turf** that combines a delicate, effective cleaning action with a fresh Scots pine scent. You can place it in the foam bottle, or in the built-in detergent tank on machines with this feature.
- After leaving the detergent to act for a few minutes, not allowing it to dry off, rinse the area with a clean water jet and leave to dry.

One machine definitely suitable for this purpose is the **DSS**, a dual speed high pressure washer, which works with different performances depending on the job in hand and optimises energy consumption for the application.

## 4. Cleaning photovoltaic panels with a high pressure washer

If you've installed **photovoltaic panels** to produce electricity, you probably know that they may become dirty over time due to atmospheric agents. This could affect their output, and so washing is required. Although rain can remove some surface dirt, this is not enough: when the dirt becomes stratified, specific cleaning is needed to remove deposits.

In general, the best time of day for washing solar panels is the early morning, both because the dew that forms overnight may help to remove the dirt and because the panel is cooler: using cold water on a hot module might cause a thermal shock and thus damage the system.

Cleaning your domestic photovoltaic panels yourself saves you money. However, before going ahead with this job you need to be sure you can do it safely. DIY cleaning of small panels on private homes is possible provided you can reach the panels easily from the ground **without danger to yourself or others**, and without damaging adjacent structures. However, if the photovoltaic system is in an inaccessible point, and if you would have to get onto the roof, for example, you should call in a specialist firm, and the same applies to larger installations.



For cleaning photovoltaic panels with a high pressure washer, AR Blue Clean offers its **specific detergent for solar panels**, a formulation developed to remove all traces of dirt from this surface with the necessary delicacy. After applying the detergent (ideally with a high pressure washer with built-in detergent tank, such as the **3 Series 396** or the **4 Series 491**) and leaving it to act for a few minutes without letting it dry, you can rinse the modules using the adjustable jet nozzle on the fan jet setting. In this case it is important to use the fan jet, because its action is lighter than that of the needle or rotary jet, and more suitable for this type of material.

## 5. Cleaning the dog's bed or kennel (to keep him - and the whole family - healthy)

Having a dog, an adorable, faithful four-footed friend, involves various daily tasks; as well as feeding and caring for your pet, there are other jobs to be done, including cleaning his bed or kennel. Indoor beds or outdoor kennels have to be cleaned regularly, because dogs are carriers of germs and bacteria: neglecting this task means putting the health of both your pet and your family at risk. Let's take a look at how to clean your **dog's kennel**, once a week if possible.

After taking everything out of the kennel, remove dust, hairs, food residues and other waste with the aid of a vacuum cleaner. You can then clean the floor and walls with products suitable for the kennel's construction material that won't irritate the dog's skin. You can use the **high pressure washer** to clean the outside walls of a (plastic or wooden) kennel, if they're very dirty: the high pressure water jet will remove the dirt effectively. However, occasionally (2 or 3 times a year) more aggressive disinfection is required – to combat the microorganisms which may breed in this environment – using more powerful chemicals (such as bleach), but not ammonia solutions.

You can do this job, for example, with the **DHS Series 2.A** high pressure washer with **Dual Hyg System** technology, which gives you two different modes of use, spraying and high pressure washing, and the HYG sanitising cleaner, specially developed for cleaning outdoor spaces and reducing bacterial loads.



## 6. Washing your boat with a high pressure washer

Boats require constant cleaning and maintenance, although the pleasures and excitements of a wonderful trip out to sea will repay all your efforts. A lot of jobs have to be done to keep a boat clean and in good working order: some are complex and are only required occasionally, but others are necessary more often. If you're good with your hands, you can do even the most demanding jobs, such as hull maintenance, yourself, provided you have the right equipment. A **high pressure washer** can be a great help for washing the **hull** and **deck** of your boat. It's an effective solution, since this machine emits a high pressure water jet that can sweep away even the most stubborn dirt.

AR Blue Clean recommends a model like the **Twin Flow**, which enables you to boost cleaning action by 50% and to easily wash even tall surfaces, or **DSS Series** models, also effective against tough deposits. You can modulate the power on both machines for a gentler action on delicate materials and greater force on stronger ones. What's more, they both have a wheeled trolley, fundamental for moving around the boat without difficulty.

# High Pressure Washer Applications





## Chapter 5

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# High pressure washer maintenance: dos and don'ts



Whether it's petrol-driven or electric, professional or domestic, a high pressure washer requires the right maintenance to keep it operating correctly. So to ensure your machine keeps performing well over a longer working life, you must **comply with a number of good practices before and after using it**; it's also important to prepare it properly for over-winter storage, to ensure it won't be damaged or malfunctioning when you get it out in spring. Let's take a look at the main steps required to care for your machine and avoid unpleasant surprises.

## What to do before starting your high pressure washer...

High pressure washer maintenance involves some simple procedures to be performed before each use. Here are the 2 most important steps you need to remember:

1. In all high pressure washers it's a good ideal to check the **inlet filter**: it must be cleaned if dirty, and replaced regularly.
2. It's also important to check the condition of components such as the trigger **gun, lance, high pressure hose and nozzles**. Nozzles should be cleaned with the metal pin provided. Inspect the high pressure hose and trigger gun for leaks, cuts or damage and replace them if necessary. Any water leaks are probably due to worn O-rings: simply replace them with new ones to solve the problem. As well as these checks, make sure that all connections are firm – otherwise, don't use the machine.

### .... and after using it

When you've finished using the high pressure washer, before putting it away there are some procedures you should follow to prevent problems and malfunctions down the line. Such as?

1. If you've used detergent, **sluice the detergent tank and the nozzle thoroughly with clean water**, because any product residues could cause blockages and unexpected problems. We advise you to clean the detergent tank, fill it with water and operate the high pressure washer drawing in water from it as if it were detergent
2. After use, **any water left** inside the high pressure washer **should be discharged**: to do this, turn off the water tap, turn on the high pressure washer and press the trigger gun for about 30 seconds. This will expel all the water and make sure that none remains inside the hose. Always remember that you must not run the high pressure washer dry, as this may damage it. Especially if the machine has a hose reel, don't wind up the hose when it is still pressurised; first discharge the residual pressure and water as described above.
3. When these procedures are complete, it's important to **put the machine away tidily**, placing the high pressure hose, the lance and the various accessories on the hooks provided: this will extend their lifetime by protecting them from wear.

## Preparing for hibernation

Once summer has come to an end, it's time to lay up the high pressure washer for the winter. Here again, **proper maintenance** means discharging all the **water** from the inside of the machine and other components such as the high pressure hose, the trigger gun, etc. This is fundamental, since if it freezes in cold weather the water will increase in volume and cause serious damage. What's more, the pump should be further protected using a suitable antifreeze. Last but not least, leave the high pressure washer in a **dry place**, protected from the weather and excessive heat sources, as well as from low temperatures. To keep it in optimal condition, also cover it with a material that will not trap moisture.



## High pressure washer fails to pressurise properly: 5 possible causes and remedies

Sometimes, even when running, a high pressure washer may fail to reach the operating pressure: although worrying, this malfunction doesn't mean the machine is a write-off. In fact, quite often **the causes can be easily resolved**. So let's take a look at the possible causes of pressurisation problems and how to deal with them.

### 1. Inlet filter fouled

One of the first high pressure washer components to be checked is the **inlet filter**, which filters the incoming water to protect the machine from dirt. If the pressure is low and the inlet filter is dirty, clean it at once; moreover, to avoid problems we advise you always to wash it often and change it regularly.



### 2. Worn nozzle and incorrect head setting

If the machine fails to pressurise to the correct levels, the **nozzle may be worn**; in this case, simply replace it with a new one to resolve the problem. Also remember to check out the head: if it's adjustable, with "low pressure" and "high pressure" modes, make sure it's on the correct setting for the pressure required.

### 3. Water supply insufficient

Did you know that if your high pressure washer fails to pressurise, it may be due to **an inadequate water supply**? To ensure that the machine operates correctly with the set pressure levels, the incoming water flow rate must be as specified in the instruction manual. So check that the hose supplying water to the machine isn't twisted, blocked or too long (max. 20 metres) and that the tap is fully open.

### 4. Water being sucked from a tank

If the high pressure washer is sucking water from a container such as a **butt** or **tank** instead of from the mains, the machine must not be too high above the supply source, as otherwise the pressure may fall.

*How can you know what the correct height is? It's perfectly simple: just follow the instructions in the producer's manual. For AR Blue Clean high pressure washers, for example, the water tank must be on the same level as the high pressure washer or no more than 0.5 m below it.*

### 5. Air in system

The fifth possible cause is **air being sucked in**, or **an air pocket in the pump**; both these factors can reduce the high pressure washer's pressure level. Check that the fittings are in perfect condition and aren't letting air into the system. Also make sure there are no leaks in the high pressure hose or the machine's water supply hose.

### Uneven pressure: what should I do?

Another problem that may occur is **fluctuating pressure**. Before getting too worried, we advise you to check the following: the **nozzle** must not be fouled (if so, clean it with the pin usually supplied for this purpose); the filter must be clean; the **water flow rate** must be sufficient; and the **water must not be too hot** (lower the temperature if necessary).

These are the most common causes of low or uneven high pressure, and as we've just explained, you can deal with them yourself. However, pressure malfunctions can also be caused by other factors, such as valve or seal problems. In this case, contact a service centre to have the fault corrected properly.





# Checklist of 'don'ts'

As already mentioned, there are a number of important **'don'ts' to be avoided** if you want always to get the best from your high pressure washer. Here is our checklist of the main high pressure washer 'don'ts'.

## 1. Using the wrong high pressure washer

One of the biggest mistakes to be avoided with a high pressure washer refers not so much to its use as to **the choice of the article itself**. In fact, high pressure washers are not all the same and you should bear this in mind before you buy one, because you'll need a product with specific characteristics depending on what you wish to use it for.

## 2. Using too much pressure

One of the most common operating mistakes concerns **the pressure the high pressure washer applies to the surfaces for cleaning**. Take care: the most delicate surfaces, such as garden furniture, cars, outdoor glazing and bicycles may be seriously damaged by excessive pressure or a water jet applied from too close.



## 3. Using the high pressure washer for indoor floors

The high pressure washer **isn't suitable for washing the floors inside your home**: it's worth saying this once more to get the message across, as it is one of the most common mistakes committed in good faith or due to failure to think things through.

## 4. Not using a detergent

A high pressure washer becomes **outstandingly effective when combined with a detergent**. AR Blue Clean offers a vast range of specific products, specially developed for cleaning the various types of surface.

- 1 Purchasing the wrong high pressure washer for your needs
- 2 Using too much pressure
- 3 Using the high pressure washer for indoor floors
- 4 Not using a detergent
- 5 Failing to maintain the HPW properly
- 6 Failing to store it correctly during the winter
- 7 Ignoring the fundamental safety rules

## 5. Failing to maintain the HPW properly

To ensure that a high pressure washer always delivers outstanding performances over the long term, it's fundamental to **maintain it properly**, such as by checking regularly that all its components are clean.

## 6. Failing to store the HPW correctly during the winter

**In the winter months, the high pressure washer must be stored** in a dry, sheltered place, protected from the weather and heat sources, with antifreeze in the pump: this is your guarantee that it will be in perfect working order for the next summer season.

## 7. Ignoring safety rules

Last, but certainly not least, is **safety**. Remember always to read the producer's manual for information about the model you've purchased, the correct practices to be followed and the instructions for safe use of the high pressure washer. In particular, wear the necessary protective equipment (gloves, boots and goggles) and check that there are no children or pets, or items which may be damaged if the water jet hits them, in the vicinity.

Right, now you know everything about the possible applications and correct maintenance of your high pressure washer, it only remains for you to **choose the best accessories for teaming up with your model and the most suitable detergents** for the areas you need to clean!





## Chapter 6

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**Accessories and detergents,  
which are right for you?**

Your high pressure washer is a powerful, effective machine, but it will become even more so if you use the **proper accessories**. Let's take a look at the specific tools available in the vast AR Blue Clean range.

## Fan, needle or rotary jet nozzle

For the simplest jobs, the high pressure washer can be used with just the lance and the nozzle. However, not all nozzles are the same and you need to choose the right one for the surface to be cleaned, because they affect the HPW's output pressure.

- **Adjustable jet wash nozzle** allows you to adjust the water jet from a fan to a needle shape. The flatter fan jet is suitable for more delicate materials, such as garden furniture, awnings, vehicles and bicycles, because it distributes the water evenly and "gently". The needle jet nozzle, on the other hand, emits a more powerful jet, so it's recommended for stubborn dirt on tough surfaces.



- **Rotary nozzle** is ideal when you have to deal with encrusted deposits, such as on moss: the very powerful cylindrical jet emitted can shift moss fast and effortlessly, getting the job done quickly.



- **5 in 1** nozzle covers a variety of jobs with a single accessory: you can change the nozzle angle to modify the type of jet in one easy step. This is a very practical option, because with some jobs you may need to change the nozzle setting depending on the step of the operation – pre-washing, soaping, dirt removal, washing and rinsing – without having to replace the head every time.



## Brushes, an extra aid for difficult dirt

Difficult or stubborn dirt? All you need to defeat it is the **Power Brush**, excellent both on pavings and on other large surfaces. Its efficacy is due to the combined action of the brushes and the 3 high pressure nozzles it incorporates, which treble the cleaning area. Excellent performances are also ensured with the new **Aqua Sweeper**, designed for cleaning outdoor pavings, steps and pool edges: it switches from washing

to rinsing and dirt removal with just a click, cleaning an area 30% larger than a conventional Patio Cleaner. Need to **clean garden furniture, your car or your bicycle**? We suggest you combine the machine with a tool that will remove dust, stains and grime without damaging the material, such as the AR Blue Clean **Fixed brush**: with its anti-scratch bristles, it's perfect not only for motorbikes, camper vans and cars but also for sun loungers and outdoor furniture. The same applies to the **Rotary brush**, also with anti-scratch bristles, which can reach into the most inaccessible corners.



## Paving cleaning lances

When you have to **clean outdoor pavings**, most people prefer to use a specific brush rather than just the lance: you'll not only get the job done faster but also clean more thoroughly. To restore the shine to horizontal outdoor surfaces such as verandas, paths, steps or pool edges, for example, the **patio cleaner** is what you need, because it provides uniform, in-depth cleaning and its round guard reduces splashes. Some **Home & Garden** and **e-Range** line high pressure washers come complete with the **Mini Patio**, a patio cleaner with two asymmetric high pressure nozzles that turn through 360° to guarantee thorough cleaning. But there's more. The AR Blue Clean accessories range also includes **Deluxe Chem Patio Cleaner**, incorporating not only a detergent tank but also handles, also useful for cleaning vertical surfaces, and **Deluxe Reg Patio Cleaner**, with water jet intensity regulator.

## Aqua Sweeper

**Aqua Sweeper** is the ground-breaking high pressure washer paving scrubber developed by AR Blue Clean that guarantees 30% more clean surface than a standard patio cleaner, saving you time and energy. With this very practical, functional accessory, it takes just a click to switch from CLEAN (washing) to SWEEP (rinsing and dirt removal) mode.

Its **3 nozzles** and **bristles with high cleaning efficiency** offer unbeatable performances:

- In **CLEAN mode**, the combined mechanical action of the bristles and the 3-nozzle high pressure jet removes all traces of dirt with ease;
- **SWEEP mode** is selected for rinsing: with its ergonomic position, it removes all the loosened dirt and detergent residues and leaves the surface perfectly clean and shiny.

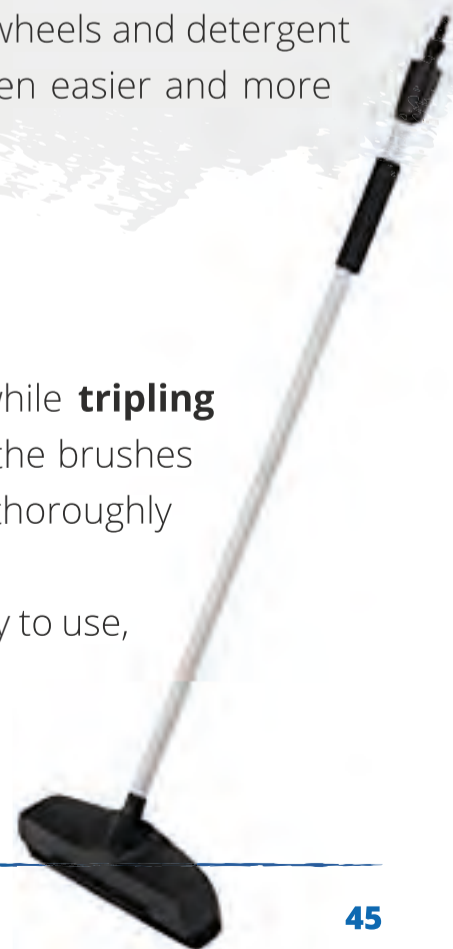


Aqua Sweeper is a multipurpose tool perfect for cleaning outdoor pavings, steps and pools, for example: its wheels and detergent tank with dosing control make the job even easier and more convenient.

## Power Brush

**Power Brush** is the practical brush that eliminates even the most stubborn dirt while **tripling the cleaned surface area**. Its cleaning ability comes from the mechanical action of the brushes combined with the pressure applied by its 3 nozzles: this synergy will allow you to thoroughly clean any kind of large surface with excellent results.

Given its manageability and light weight, the Power Brush is also a very simple accessory to use, to get the job done fast and effortlessly.





### The drain cleaning kit

A high pressure washer is also a powerful tool for dealing with blocked drains and downspouts, provided it is fitted with the **jetter nozzle**. AR Blue Clean offers 3 drain cleaning kits of different lengths, for you to choose as required: **8 metres** (better for clearing indoor drains and pipes because more flexible) **10 metres** and **16 metres**.



### Water suction kit

When you **clean your swimming-pool**, you may need to pump out the water. The same applies if you have to empty your kids' inflatable paddling pool, or **maintain an ornamental pond**. In all these cases, bear in mind that you can use your high pressure washer combined with the AR Blue Clean **water suction kit**.



### Foam lance bottle kit

For high pressure washers that don't have a built-in detergent tank, there's a specific accessory for uniform soap distribution, the **Foam lance bottle kit**. This tool is normally used at low pressure, but AR Blue Clean has also developed high pressure versions, already supplied as standard for a number of models, such as the innovative Twin Flow. The benefit is much faster, more effective detergent distribution than with a low pressure type.



# The strength of detergents

Our overview of high pressure washers and their use would not be complete without an in-depth look at detergents: with their help, the machine will remove dirt more quickly. All AR Blue Clean detergents are **ready for use** and extremely practical for domestic applications. As well as checking that a detergent is suitable for high pressure washers, it's also important to make sure it's right for your needs, because every surface requires a different solution. AR Blue Clean offers **10 different formulae**, all biodegradable, scented and designed for a specific use. There is a neutral detergent for **outdoor wooden pavings and decking**, excellent for cleaning them with care, and another one for **glass**, formulated not to leave smears. If you're looking for a product for dressed or natural stone surfaces and brick walls, the product for walls and stone is just what you need, while if you have to freshen up your awnings, the detergent for **cloth and plastic awnings** is the right solution. The range also includes products specifically for **artificial turf, solar panels, motorcycles, bicycles, cars and boats**. Last but not least are the **universal detergent** for metal, plastic and ceramics, and HYG, the **sanitising cleaner** specially developed to reduce the bacterial load in outdoor areas.



# Other AR Blue Clean products for outdoor and indoor use

To keep your home even cleaner and tidier, AR Blue Clean has designed a whole range of useful tools for indoors and outdoors, from the vacuum cleaner to the ash vacuum cleaner, through to the water pumps (self-priming and submersible), machines that combine high performances with modern, compact design. If you haven't tried or even discovered them yet, visit the [AR Blue Clean website](#).



WET AND DRY VACUUM CLEANERS



ASH VACUUM CLEANERS



SUBMERSIBLE PUMPS

SELF-PRIMING PUMPS







*Cleaning advice doesn't end here: follow our YouTube channel to view all the AR Blue Clean tools in action and follow the adventures of the AR Blue Clean Family, constantly dealing with domestic mishaps and extraordinary cleaning jobs!*

*And also pay us another visit on our website: we'll be publishing more AR Blue Clean E-handbooks soon.*

**[www.arblueclean.it/en](http://www.arblueclean.it/en)**



@annovireverberispa



arblueclean



@annovireverberispa

**Annovi Reverberi Spa**

Via Martin Luther King, 3  
41122 Modena, Italia  
P.IVA 02207040367

C.F. 01523090353  
REA MO-274393  
[info@arblueclean.it](mailto:info@arblueclean.it)

