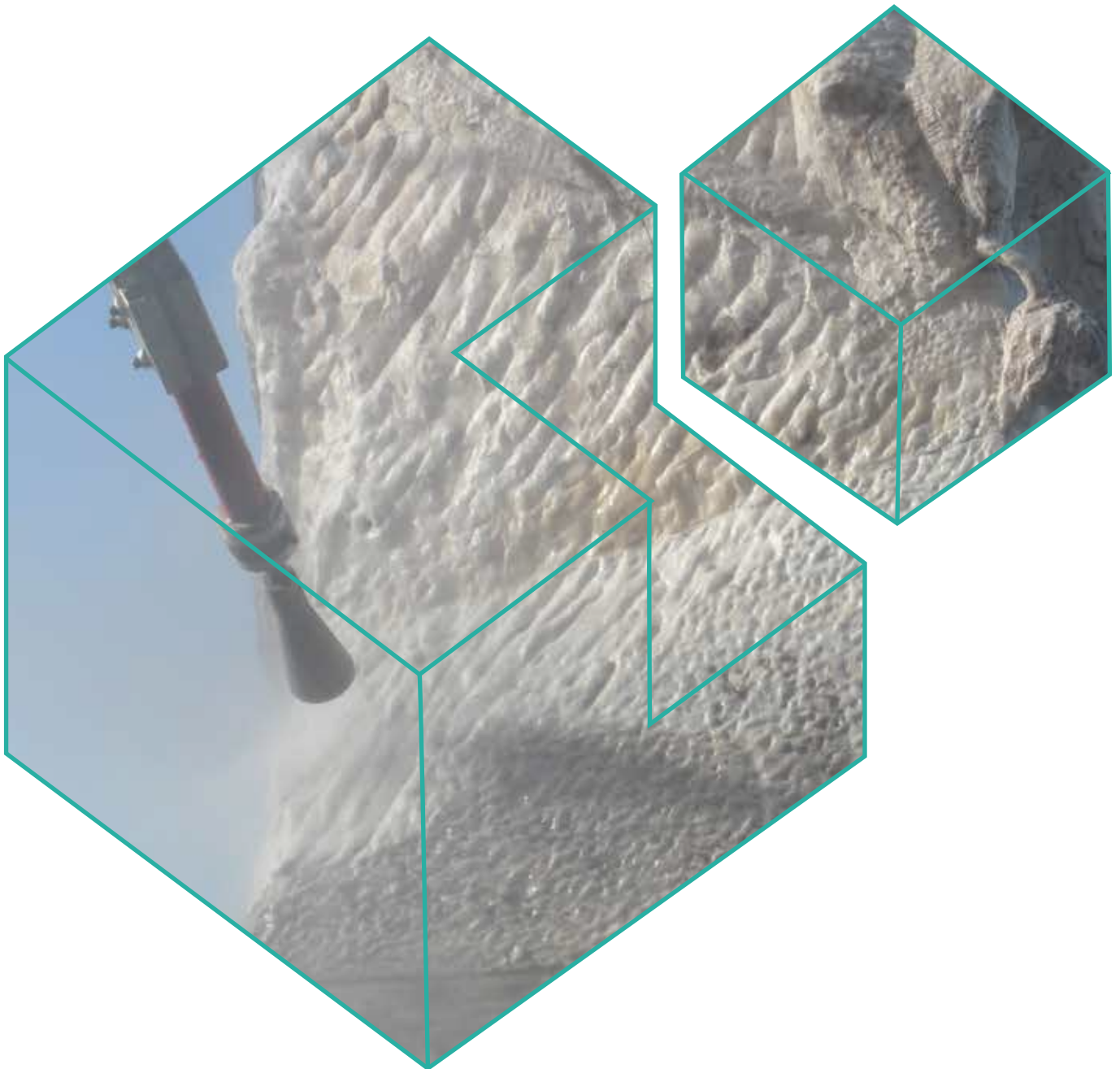


ULTRA CLEAN SYSTEM

Eco-cleaning using plain tap water

Using only tap water and without emitting any gases, dust, or chemical residues, marble, granite, and other stone surfaces can be effectively restored and cleaned.





↑ The floor as it appears before treatment. Note, among other things, the presence of chewing gum.



↑ The surface is restored to its original condition after treatment.

Normally, the cleaning of public surfaces—such as public squares—is a routine operation that is currently carried out either with chemical products, through sandblasting (dry or wet), or generally through mechanical abrasion. The methods currently in use have specific drawbacks in addition to a generally aggressive effect on natural stone. The use of chemicals results in polluting residues that require costly disposal. At the same time, sandblasting processes scatter large quantities of sand that must then be collected, just as abrasive processes remove material, leveling the surface to a lower level. There is also the possibility that both chemical residues and sand, when trapped in the interstices of the materials, may cause poorly understood interactions leading to faster or premature deterioration of the surface. More traditional machines are also used for cleaning large areas, employing water that is simply flushed away and mechanical brushing, but they are not fully efficient.

Airmation Ecologic System equipment, on the other hand, offers a new, highly effective, and fast solution for comprehensive ECO-cleaning and thorough micro-cleaning of surfaces in urban areas. Typically, the equipment can be used on any type of surface, provided its power is properly adjusted, to selectively remove only dirt, impurities, and surface deposits (including chewing gum residue on the ground or graffiti).

The solution developed relies exclusively on tap water and compressed air. A mobile unit equipped with all the necessary equipment powers special motorized rotating nozzles, which emit a relatively small amount of water at extremely high pressure and with high rotational speed, capable of removing any deposits or impurities when they strike any surface at close range.

More specifically, the technology behind the ultra-rotating Airmation tools used (manual or automatic Airmation FINE-JETS series) breaks down the cleaning force into a multitude of microjets with high kinetic energy and low mass. The imparted rotation produces a highly efficient, rotating, scraping action that allows the surface to be cleaned gently or more vigorously depending on the specific removal requirements.

Typically, only small amounts of water are needed to achieve high efficiency. This unique application capability stems from highly advanced technology that Airmation currently employs for precise industrial cleaning processes, the removal of rubber from metal surfaces, and, more generally, in processes requiring the careful preparation of highly sensitive parts. In summary, the application benefits of Airmation technology are as follows:

→ Fast and efficient, just one coat is enough to restore the surface

→ Gentleness: the natural stone beneath remains unaffected.

→ Versatility: depending on the type of stone and the degree of soiling, you can adjust the power and rotation speed to the minimum level necessary to remove deposits.

→ Environmental friendliness—which often also means cost-effectiveness—since no chemicals are used and nothing other than tap water and air is released.

Airmation machines allow you to work anywhere, whether powered by electricity or fully autonomously with diesel engines and an integrated fuel tank.

The cleaning tools enable manual or automated cleaning, with the option to collect any sediment removed from the ground.





In the photos: The cleaning of the historic center of a major municipality in northern Italy has been entrusted—to the satisfaction of the municipal administration—to an Airmation Ultraclean system from Ecopulitura Cittadina



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