

NO NAME®

High Quality Sanitisation



FUTURE IN YOUR HAND

No Name®

Patent No CT2011U000025, commercially named **No Name®**, registered the newest technique developed to dissolve inert gases in water or different liquids intensifying their solvent effect. Its pickling effect is outstanding as its power to decrease sediment biofilm from wells, water distribution networks or liquid transport networks. Its antimicrobial function halts bacterial fermentation avoiding mineral precipitate in minerals attacked by bacteria (e.g. Iron bacteria: oxidation is estimated causing the precipitation of iron with rust effect).

Any industrial, residential, accommodation facilities' hydraulic plant carries countless different inorganic, microbiological substances. Such substances, in a variety of conditions, tend to develop stratified encrustations that in turn become thick and rough rocks. Rough crust is the ideal environment for microorganism proliferation and considerably increases pressure drops, forcing the pressure on the whole plant. Furthermore it often has a strong corrosive power.



Malfunctions, breakdowns and damages arouse. In turn, high temperature in water heating for private residential use or industrial processes causes greater and faster encrustation resulting in additional damages and corrosive effects.

Energetic losses increase for insulation that they provoke: 1 mm thickness causes 15-20% decline in performance. Currently only conventional chemical solutions are applied, despite they are partial and entail collateral effects and by-product treatments. Lab and field tests proved there is a more effective solution to guarantee the definitive answer to the problem. Modifying the calcareous-carbonic proportions in water inorganic pollutants are converted in inert dissolving in water, which, not deteriorating, avoid encrustations development.

No Name® process doses food grade gases in concentration near to solubility in water. These gases do not alter any physical or chemical parameter and are in compliance with the standards.

Any well, industrial plant or hydraulic system while working meets at least one of following conditions:

- Hydraulic effectiveness drop due to physical occlusion, biologic film formation, mineral sedimentation
- Conduits corrosion
- Low biological water quality
- Water bad smell and taste
- Reddish water delivery

No Name® fulfils many functions in different treatments of water and other liquids. It clean at once the whole hydraulic network that not need to be suspended during the process, eliminates all the limestone deposits and do not entail the use of corrosive and polluting acids. Laboratory analyses prove that water organoleptic and chemical structure is not altered, hardness is temporary and not precipitates any more.

Hard drinking water well treatment in Volos (GR)

Results: the well, the hydraulic network linking well and storage and surge tanks are cleaned, limestone eliminated without halting the system and without use of corrosive and polluting acids. Water is tested in laboratory and analyses confirm that it was not altered in organoleptic and chemical structure because hardness became temporary and did not precipitate any more.

After 20 days injecting **No Name®** in an obstructed well, which original flow-rate was 280 l/s reduced to 130 l/s and that entailed daily uses of the pump, the flow rate grew to 320 l/s and 4 m depth was regained, passing from 27 to 31 m).

Oil platform water-cooling

Results: stop the growth and elimination of the existing mucilage and seaweed in the sea bottom extracting pipe tract.

Big structures already treated with No Name®

Yearly treatment of the whole hydraulic system of a five star superior hotel

Results: the photo on the left shows a resistor after two months in use, cooperating with a water softening resin plant; on the right a resistor after six months in use treated only with No Name®. It appears NEW.



Resistor with water softener resins



Resistor with No Name®

Treatment in residential buildings: limestone abatement to maintain clean boiler, heating system and the whole hydraulic system. Drinking water considerably benefit from the treatment.

Results: the boiler and the whole hydraulic system are clean, the latter's flow rate restored to original value. 30% heating gas consumption saved.

Easy to install. No Name® for residential use.

INDOOR AND OUTDOOR

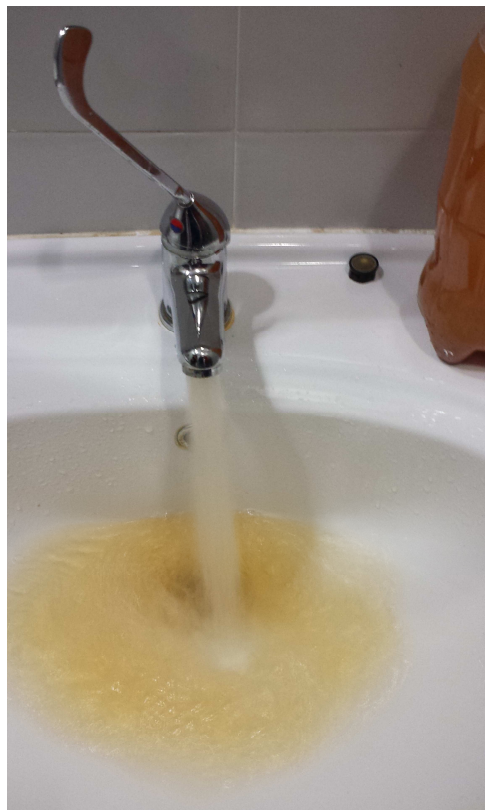


Just replace the cylinder when the product runs out

Immediate benefits: tap filter biofilm removal after 15 minutes from application



Hot water becomes clear again (see the bottle on the sink) after 15 minutes from application



Solutions of the main problems of wells, industrial plants and hydraulic network through **No Name®**:

- Hydraulic efficiency: removal of clogs, biologic films and mineral deposits and prevention of their formation
- Prevention of corrosion in conduits
- Improvement of biological water quality
- Improvement of pleasantness of smell and taste of water
- Pumping of clear water

Results were further tested at University of Catania where several tests in the laboratory have investigated different aspects and functions of **No Name®** highlighting its positive effect of the biological micro flora.

Having adapted the mixture and dose, the product was tested in agricultural irrigation, added to very hard water with strong ferrous component. Results were equally successful: obstruction in irrigation systems tested was entirely dissolved, for the benefit of fertilisation.

The University of Catania in collaboration with the Regional Department of Health has carried out other relevant tests. The structure tested is a major tourist hotel which hydraulic system was entirely descaled after six months of **No Name®** use, with consequent major energy saving in running distribution water and hot water networks and rooms' maintenance works striking reduction. Particularly noticeable is the complete absence of encrustation on showerheads and bathroom fittings.

Further significant test was conducted on sea water cooling pumps, in petrochemical industry. Excellent results in term of effectiveness surpass expectations.

No Name® is a standard blend of food grade gases with high descaling power. After encrustations removal continuous releases of **No Name®** appropriate dose fulfil the function of clear water maintenance, preventing deposits and crust re-formation.

Remote control of parameters and doses in complex or industrial plant guarantees good and effective working of potable and industrial water plants.

Controlling microbial flora reaction to the product, it was tested on different beverages as an alternative to pasteurisation processes. First results are encouraging and wide food farming testing comes along.

**UNIVERSITA' DEGLI STUDI DI CATANIA**

Dipartimento di Scienze Mediche, Chirurgiche e Tecnologie Avanzate "G.F. Ingrassia"

Laboratorio di riferimento regionale per la sorveglianza ambientale, clinica e il controllo della legionellosi

NoName® è una miscela di gas inerti.

Legionella spp., responsabile di severi casi di polmonite nell'uomo a seguito della inalazione di aerosol contaminati, è un batterio ubiquitario che colonizza frequentemente gli impianti idrici e aeraulici specialmente quando trova le condizioni favorevoli per annidarsi, quali la presenza di concrezioni calcaree e biofilm. Grazie all'azione di scioglimento del calcare e di rimozione dei depositi di biofilm per effetto dei gas inerti che lo compongono, NoName® può dimostrarsi utile per eliminare le condizioni che favoriscono la colonizzazione degli impianti da parte di *Legionella* spp.

Prove sperimentali condotte per 6 mesi (dati in corso di pubblicazione) hanno rilevato l'efficacia di NoName® nel rimuovere il biofilm e le concrezioni calcaree dimostrando che, se accoppiata a un idoneo sistema di disinfezione in continuo, tale miscela può essere utile per il controllo della colonizzazione di *Legionella* spp. nelle condutture idriche e nei sistemi di produzione di acqua calda sanitaria.

Catania, 25 novembre 2014

Il Direttore


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Regional Laboratory for Environmental and Clinical Monitoring and Legionellosis Control.

No Name® is an inert gases blend.

Legionella spp., responsible of severe pneumonia in mankind through contaminate aerosol and nebulisers is an ubiquitous bacterium that frequently colonises hydraulic and aureaulic systems and networks especially in favourable conditions to nestle as those offered by biofilms and calcareous scales. Thanks to limestone dissolution and biofilm deposits removal through inert gases, **No Name®** applications eliminate conditions that foster *Legionella spp.* plant colonisation.

Six months experimental testing (data publication forthcoming) showed **No Name®** effectiveness in biofilm and calcareous scale removal. Tests revealed also that **No Name®** removal action, if paired with continuous, adequate sanitizer releases helps to control *Legionella spp.* colonisations in hydraulic conduits and sanitary hot water production systems.

Catania, November 25, 2014

The Executive
Prof. Maria Anna Coniglio