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TECHNOLOGY TO IMPROVE WATER QUALITY



WATER TREATMENT

General Catalogue

**Welcome
in the world
MANTA**



Since 1979 MANTA ECOLOGICA has gained a prominent position in water treatment market in Italy and abroad as well, both with its brand name and private label one. It was the first Italian Company in this field to adopt a quality system according to ISO 9002 norm and subsequently the certification of ISO 9001:2000 for projecting, production and sales by British body BSI.

It is currently certified ISO 9001:2008. Its headquarter is located in the outskirts of Verona.

DESCALING PRODUCTS



Products and solutions for a good efficiency of heat exchangers, heating elements and sanitary lines: maintenance of boilers, heaters, AC and refrigeration systems

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HEATING MAINTENANCE



Products and solutions for a good efficiency of pipeworks and appliances: maintenance of conventional, underground floor and well as AC and refrigerations systems.

Pages 4 - 6

SOLAR MAINTENANCE



Products and solutions for a good efficiency of pipeworks and appliances: maintenance of flat collectors and vacuum tube collectors in solar thermal and photovoltaic installations.

Pages 7 - 8

CONDENSING BOILERS - BURNERS MAINTENANCE



Products and solutions for a good efficiency of boilers: fireside maintenance cleaning, outside cleaning and condensate neutralising.

Pages 9 - 10

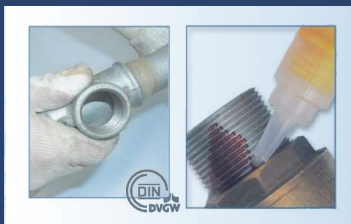
HVAC MAINTENANCE



Products and solutions for a good efficiency of heating and cooling components: cleaning, degreasing and disinfection of filters and accessories.

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SEALANT - SUNDRIES



Products and solutions for a handy installation: pipeworks jointing and fixing, service products.

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WATER TREATMENT - FILTER HOUSINGS



Products and solutions for the best potable water supply: filtering, softening and osmotic appliances.

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DOS LINE PUMPS

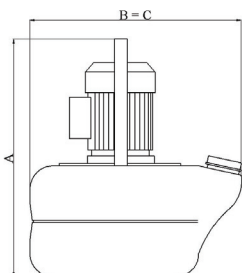
Descaling pumps for HVAC and refrigeration systems. Model: DOS 10 - DOS 25 - DOS 40

Main features

The descaling pumps of DOS line represent ideal equipment for the descaling of heaters, boilers, wall hung boilers and exchangers blocked by limescale. They are characterized by excellent handling, flow rate and head, safe use and extreme ease of maintenance to ensure safety in results and speed of intervention. They are completely built in acid resistant materials. The engine is installed on a openable tank, which allow easy to disassembling and thus simple maintenance. Equipped with 3-way valve flow inverter, which allow a more efficient descaling operations. The use of descaling products with inhibitor developed by Manta Ecologica, ensures a quicker cleaning and maximum safety for installations and for operators.

Fields of application

Descaling pumps for heaters, heat exchangers, wall hung boilers, small commercial boilers.



Cat. ref.

TDS 085 01

Other products of the same line

- PULCE PUMP
- TARTARUGA PUMP



PULCE PUMP

Descaling pump for HVAC and refrigeration systems

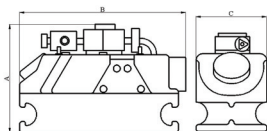
Main features

The smallest descaling pump for heating systems, equipped with a flow inverter and stand-by button. The shoulder strap supplied besides allowing handy transport, is suitable for hanging pump to boiler during descaling operations. It features 2 elbow connections for easy exchangers connecting.

PULCE was built to offer maximum security, reduced weight and dimensions thus ranking one of the smallest in descaling pump category. Tank in reinforced shockproof polyethylene and membrane in special acid resistant material.

Fields of application

Descaling pump for heaters, boilers, heat exchangers and calorifiers.



Other products of the same line

- DOS LINE PUMPS
- TARTARUGA PUMP

Cat. ref.

TDS 086 01



TARTARUGA PUMP

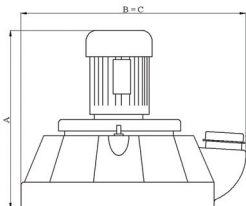
Descaling pump for HVAC and refrigeration systems

Main features

Very small descaling pump for heating systems, equipped with a flow inverter and stand-by button. TARTARUGA was built to offer maximum security, reduced weight and dimensions thus ranking one of the smallest in descaling pump category. Tank in reinforced shockproof polyethylene and impeller motor pump in special acid resistant material.

Fields of application

Descaling pump for heaters, boilers, and wall hung boilers.



Other products of the same line

- DOS LINE PUMPS
- TARTARUGA PUMPS

Cat. ref.

TDS 087 01



DETEX

Non fumigant descaling liquid specific for copper and steel

Main features

DETEX is an high concentration acid product, particularly fast for removing layers of limescale, oxides and all kind of strong saline compound encrustations, from all surfaces made by copper or steel. DETEX is carefully inhibited and therefore, if used properly, does not affect ferrous metals, avoids serious damage in case of dispersion and reduces the inhalation of toxic substances for the operator.

Fields of application

DETEX promptly remove oxidations and limescale from: boilers, heat exchangers, piping, heating elements, cooling and refrigeration circuits.

Other products of the same line

- DETEX FE: strong descaling liquid specific for cast iron, copper and steel, with an exhaustion indicator.
- N-105: liquid neutralizer for residual acidity.

Cat. ref.

TDS 088 01



MANTEX SNO

Descaling liquid for aluminum and its alloys

Main features

Mantex SNO is an acid liquid specifically designed to remove rust and limescale from heating elements, heat exchangers, cooling circuits in aluminum and its alloys, with a strong presence of rust inside.

Non corrosive, non fumigant, with special surfactant agents, anti foam and corrosions inhibitors.

Fields of application

MANTEX SNO promptly remove oxidations from: boilers, heat exchangers, piping, heating elements, cooling and refrigeration circuits.

Other products of the same line

- MANTEX SP: descaling powder ideal for stainless steel heat exchangers, also for brass and tin surfaces.
- MANTEX SPZ: descaling powder ideal for zinc pipings (sanitary lines).

Cat. ref.

TDS 090 00



DOS SILVER DOSATORE

Hydrodynamic proportional polyphosphates dosing system

Main features

Proportional polyphosphates dosing system for scale and anticorrosion prevention.

Adjustable 1/2" connections both for horizontal and vertical pipings.

The operating system, with exclusive patent, uses the depression produced from water flowing through the device, which release its content from a special disposable cartridge. This cartridge features a small float, that shows exhaustion of solution once reached the bottom and thus indicating replacement need.

Cartridge life is 10÷12 m³ and it is influenced by temperature and frequency of use.

Fields of application

Ideal for heating systems and sanitary applications for domestic and industrial use.



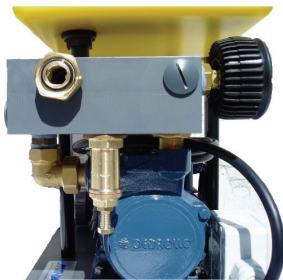
Other products of the same line

- DOSOTTONE: hydrodynamic proportional polyphosphates dosing system, ideal for drinking water.
- ECO PHOS: with 3/4" connections, ideal for mains installations.

Refill available for all the models.

Cat. ref.

TDS 044 02



Cat. ref.

TDS 065 01

POMPA PULISCI IMPIANTI

Power flushing pump

Main features

POMPA PULISCI IMPIANTI is a power flushing pump. Equipped with a 3-way valve, with quick flow inversion for rinsing, cleaning product circulation, draining of remaining sludge and final corrosion inhibitor addition. It also features an adjustable safety valve, which prevents damages to systems due to Δp pressure. Its shockproof polyethylene tank is supplied with an handy washable sponge filter inside.

Fields of application

Pump specifically devised for power flushing cleaning of any type of heating and cooling system.

We recommend use of Manta Ecologica cleaning and protective product line (MR 501/R, MR 501/F, MR 501/P and others).

Other products of the same line

- POMPA CARICA/PULISCI/PROVA IMPIANTI: power flushing pump also suitable for filling and testing heating and cooling systems.
- POMPA PROVA IMPIANTI: pump for testing and pressurize new heating and cooling systems.
- POMPA CARICA IMPIANTI SENZA SERBATOIO: reduced dimension pump, for filling new heating and cooling systems.



Cat. ref.

TDS 065aa 00

POMPA PULISCI MEDI IMPIANTI

Power flushing pump for medium sized installations

Main features

Twin-impeller pump with high flow rate and head, by-pass safety valve and adequate adjustment to medium heating systems flushing workload.

Complete with pipes and fittings, pressure gauge, check valve, anti-overflow valve, three-way valve supply and exhaust.

Twenty liter tank equipped with a washable filter and an anti-flooding, anti-emptying safety float. Fully adjustable both in flow rate and head. Complete with control panel, start-stop button and fused safety shutdown.

Fields of application

Ideal for power flushing cleaning of iron oxide, mud, limescale in medium sized heating installations and following rinse. Suitable for loading and cleaning solar, conventional and underground floor heating systems.

It is also suitable for cooling systems maintenance.

Other products of the same line

- POMPA PULISCI GRANDI IMPIANTI: power flushing pump for large sized installations.



MR 501/R

Sludge remover. Not acid or corrosive. Restoring, descaling, anti corrosive, lubricating for operating heating systems

Main features

Liquid product for cleaning and protecting heating pipings. The sealing and dispersive action makes soluble limescale, rust, sludge and deposits of hydroxide of Iron and magnetite, allowing the elimination when cleaning the system. It lubricates valves and pumps, improves heating exchange and restore installations. It acts also as inhibitor of already existing corrosion.

Fields of application

It is recommended to use product at normal operating temperature. Ideal for: traditional heating systems, underfloor heating systems, radiators, radiant panels, fan coils, etc ... Warm temperature speed up the cleaning process.

Other products of the same line

- MR 501/R RAPIDO: fast action heating system cleaning product.
- MR 501/X: heating system cleaner, specific for limescale problems.

Cat. ref.

TDS 061 02



MR 501/F

Protective, descaling, anticorrosive product for new and operating heating systems following cleaning process

Main features

Corrosion inhibitor with descaling action, anticorrosive for new installations. MR 501/F for its characteristics is able to form and maintain a protective film barrier between metal surfaces and the exchange fluid of heating systems. It inhibits scaling formation, preventing that saturated calcium and magnesium solutions (CaCO_3 , CaSO_4 , ...) precipitate and promotes the stabilization of colloids in the circuit with hydrolytic resistance; prevents deposits of sludge and rust.

Fields of application

Suitable for new and existing heating systems (previously treated with MR 501/R Cleaner).



Other products of the same line

- MR 501/P: corrosion inhibitor for underground floor heating systems.
- POMPA FLUX MARY 10: manual filling pump.

Cat. ref.

TDS 062 02



MAFLU'

Antifreeze liquid

Main features

Antifreeze liquid based on inhibited ethylene glycol, formulated with adequate additives, to be used diluted according to protection required. Non flammable, compatible with common materials used in hydraulic applications, such as: copper, brass, steel, iron, aluminum and its alloys.

Fields of application

Concentrated antifreeze liquid for industrial heating and cooling systems. For the required freezing point, see the related technical data sheet.

Other products of the same line

- - -

Cat. ref.

TDS 072 01



TURAFALLE

Internal leak sealer for heating systems

Main features

Specific liquid for heating systems, radiators and joints for self-sealing treatment in case of leakage, ideal for reducing pressure loss from sealed systems. Suitable for water losses caused by inaccessible micro-leaks, throughout domestic heating systems.

Thanks to enhanced metal polymeric components it repairs multiple leaks inside the circuit.

Fields of application

See the related technical data sheet for correct dilution.

Other products of the same line

- TURAFALLE HD 500: concentrated internal leak sealer, ideal for average domestic heating systems.



Cat. ref.

TDS 071a 00



MAFLU' SOLAR PLUS

Heat transfer fluid, specific for vacuum tubes collectors

Main features

This product is particularly suitable for residential solar thermal installations due to its non-toxic composition besides than being non flammable.

MAFLU' SOLAR PLUS has excellent thermodynamic features: high specific temperature, high specific conductivity, reduced viscosity even at low temperatures. Its non glycol composition, allow it to withstand temperatures between 200°C and 300°C without losing its original structure as well as controlling corrosions effects. Only exception is the tin welding alloy which it can be substituted with silver or brass/zinc ones. Not suitable for Aluminum and its alloys.

PATENT PENDING.

Fields of application

Heat transfer fluid suitable for secondary solar loops with thermal loads above 200 °C, hence ideal specifically for vacuum tubes collectors subjected to frequent stagnation conditions in which traditional glycols tend to irreversibly degrade, maintaining its density absolutely stable.

To be used undiluted for temperatures up to -30°C . It can also be used, according to specific needs, as secondary refrigerator or as fluid for direct termic exchange , or as antifreeze liquid in:

- air conditioning systems
- refrigerating systems
- refrigerating processes
- heating systems

Other products of the same line

Cat. ref.

TDS 074 02



MAFLU' ATS

Antifreeze liquid for flat solar collectors

Main features

Antifreeze liquid based on inhibited mono propylene glycol, formulated with adequate additives, to be used diluted according to protection required. Non flammable, compatible with common materials used in hydraulic applications, such as: copper, brass, steel, iron, aluminum and its alloys.

Fields of application

Concentrated antifreeze liquid for conventional heating and cooling systems, as well as flat solar collectors installations. Suitable for residential applications.

For the required freezing point, see the related technical data sheet.

Other products of the same line

Cat. ref.

TDS 073 01



POMPA FLUX SOLAR

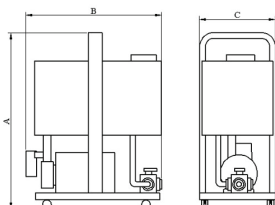
Solar filling station

Main features

Pump with reduced weight and dimensions, high flow rate and head, connection shut valves and flexible hoses.
Equipped with a shockproof tank in reinforced polyethylene with washable filter.

Fields of application

Suitable for filling and cleaning small residential heating and cooling systems.
For solar applications, see our Maflù chemicals line.
For conventional heating and cooling see our MR 501 chemicals line.



Other products of the same line

- POMPA CARICA/PULISCI/PROVA IMPIANTI: power flushing pump also suitable for filling and testing heating and cooling systems.
- POMPA CARICA IMPIANTI SENZA SERBATOIO: reduced dimension pump, for filling new heating and cooling systems.

Cat. ref.

TDS 065a 01



SOLAR CLEANER

Special liquid for solar and photovoltaic panels

Main features

Restores original performing conditions of solar and photovoltaic panels, maximizing energy collection and output. Non-corrosive liquid towards metals, paints and system components. Panels kept perfectly clean guarantee 100% of original efficiency hence a minimum of one cleaning per year is recommended.
Non caustic product, biodegradable by more than 90%.

Fields of application

Concentrated blend of alkaline salts and surfactants, specific for cleaning solar and photovoltaic panels.
For the best use and correct dilution, see the related technical data sheet.

Other products of the same line

Cat. ref.

TDS 109 00



Cat. ref.

TDS 095a 00

ALU CLEANER-A

Cleaning liquid for fireside of condensing boilers

Main features

It is a disincrustant and pickling product formulated specifically for the removal of combustion waste products of gas boilers combustion chambers. It is particularly useful to remove the layers of combustion residues from the internal surfaces and fumes ductwork in condensing boilers. Also suitable for heat exchangers in aluminum alloys.

Fields of application

Alkaline-based liquid descaler for fireside with corrosion inhibitors. It is a bi-component cleaning system where the A product use must necessarily be followed by treatment of product B (see relevant data sheet).

Other products of the same line

- ALU CLEANER-B: Acid liquid for use following treatment with Alu Cleaner-A.
- FILTRO NEUTRALIZZANTE CONDENSE: condensate neutraliser, for domestic condensing boilers



Cat. ref.

TDS 095 01

METANO THERM LIQUID and SPRAY

Cleaning liquid for natural gas fired boilers

Main features

Concentrated alkaline liquid, designed to easily remove soot deposits and layers of non-combusted gas particles, from the surfaces of burner combustion chambers. It maximizes boilers performances, prevents damages and eliminates dirt, even in points that aren't easily accessible.

Fields of application

Products can be sprayed on burner combustion chambers, using a low pressure pump as Manta FLUX-C or FLUX MARY 10.

Other products of the same line

Also available in 400 ml spray bottle.



EC-MIX

Cleaning powder for fireside of oil fired boilers

Main features

EC-MIX product is a powder designed to eliminate non combustioned particles, from oil fired boilers burners surfaces, before they settle forming layers. It also reduce the corrosive soot that reduce the efficiency of heat transfer and could seriously damage the system.

Fields of application

EC-MIX allow simple interventions on boilers while working, thus eliminating the need to stop it.

Other products of the same line

Cat. ref.

TDS 094 01



SPRAY TEST

Cleaning spray

Main features

Specific spray for cleaning outside parts of burners and nozzles. Penetrates, lubricates and dissolve sludge on boiler parts.

Fields of application

Degreasing detergent for cleaning burners and nozzles.

Other products of the same line

Cat. ref.

TDS 106 01



Cat. ref.

TDS 075 01

ALMET SUPER

Detergent for air filters and elements also made of aluminum

Main features

It is a concentrated blend of alkaline salts and surfactants.
Does not corrode metals, coatings and components of the systems. It doesn't alter even when heated up to 95°C and maintains its effectiveness also with very hard water.

Fields of application

It's the most effective detergent for air filters and elements, also in aluminum, air condensers, cooling systems, etc.

Other products of the same line

- POMPA FLUX-C: low pressure pump with spray gun.



Cat. ref.

TDS 076 01

AIR CLEAN LIQUID and SPRAY

Detergent and sanitizing products, for air filters and cooling elements

Main features

It prevents and preserves from formation and development of mildew, fungus and bacteria. It is highly recommended the periodical use of this products, twice a year, during the usual maintenance and cleaning of the air systems.
Doesn't corrode aluminum or painted surfaces.

Fields of application

Detergent available in two forms: liquid and spray foam.
Used for sanitize air filters and for eliminate bacteria from air conditioners, both in domestic systems and industrial ones.

Other products of the same line



HYGIEN SPRAY

Disinfectant spray based on phenol synthesis

Main features

It has a wide range of effect on bacteria Gram+ and Gram-, viruses, fungus, mildews. It eliminates also organic substances.

Fields of application

It is an ideal complement during the normal maintenance and cleaning of air filters, producing also a very pleasant fragrance into the environment. It allows to completely disinfect not only a home facility, but also environments with high attendance of people as: restaurants, stores, offices, hospitals etc. Only for external use.

Other products of the same line

- HYGIEN PROFESSIONAL: is both a detergent and a disinfectant in a concentrated form.



Cat. ref.

TDS 078 01



STEX-X

Disinfecting tablets

Main features

Easily soluble in water, non foaming action, very efficient for a strong disinfection.

Fields of application

It's used to eliminate any kind of bacteria from: washable surfaces, tanks, containers, etc.

Other products of the same line

- BYOZIME: enzymatic tablets for odours neutralizing.



Cat. ref.

TDS 081 01



SISEAL

Anaerobic sealant

Main features

Anaerobic sealant for threaded joints, approved DIN EN 751-1 and DVGW No. NG-5146BM0329.

SISEAL can be used on connections up to 2". The product polymerize spontaneously in the absence of air.

Fields of application

Anaerobic sealant for threaded joints suitable for hot/cold water, air, gas, diesel, LPG, etc.. pipings in residential and industrial installations.

Other products of the same line

- SISEAL/S: high strenght anaerobic sealant.

Wide range of anaerobic sealants are available on demand.

Cat. ref.

TDS 097 01



SUPER PASTA

Jointing compound for threaded joints

Main features

This product complies with DIN EN 751-2 standard. It is also DVGW approved and KTW certified, with homologation for drinking water.

Fields of application

Jointing compound for threaded joints, to be used with hemp. Suitable for gas, hot and cold water applications, both in industrial and domestic systems.

Other products of the same line

Cat. ref.

TDS 098 01



FLOW

Unclogging liquid

Main features

Removes all kind of obstructions or blockages caused by organic materials. Thanks to a thermal reaction, it transforms into liquid everything that causes obstructions. It eliminates all types of sediments like: fat, mud, rags, cardboard, gauzes, soap, limescale and all organic waste.

Fields of application

Acid based liquid for household drains cleaning.

Other products of the same line

Cat. ref.

TDS 099 01



SUPER SOFT

Hand washing compound

Main features

It is a detergent product, with high abrasive action, and therefore extremely effective against grease, oil and jointing compounds residues. Completely soluble in water, with dermal-compatible surfactants, does not contain hydrocarbon solvents.

Fields of application

Specifically devised for professional users hands cleaning.

Other products of the same line

Also available in 5 Kg container, with handy dispenser.



Cat. ref.

TDS 100 00



MANTA OSMO FIRST 90

Compact domestic RO direct system

Main features

It's a domestic reverse osmosis system, with a direct flow rate of 90 l/h.

Equipped with a granular carbon pre-filter (for removing chlorine, odor, etc.), two membranes 150 GPD, high flow booster pump, solenoid valve and in-built anti flooding system.

Purified water is allowed to pass through the tap and all impurities in the water are rejected and flushed to drain.

All materials, that are in direct contact with drinking water inside the machine, are correctly EU certified.

Fields of application

For its small size, it can be installed under sink or kitchen lower side room.

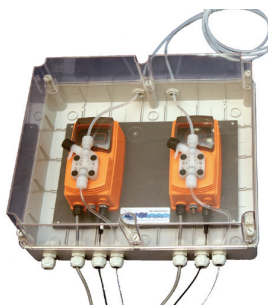
Other products of the same line

- MANTA OSMO FIRST 120: compact RO system with a flow rate of 120 l/h.

The Manta RO systems performances are maximize if supplied with a micro filtration water filter, like Manta SMILE FILTER. If installed before the machine, it will preserve the membranes inside the systems.

Cat. ref.

TDS 017b 00



MANTA BIOS MINI

Chlorine dioxide producer and dosing system

Main features

MANTA BIOS MINI is an easy and functional dosing system for disinfecting water from bacteria, in particular from Legionella. Two dosing pumps provide to inject stabilized chlorine dioxide (COMPONENTE A) and an activator (COMPONENTE B) inside sanitary pipeworks.

Result of this combination is priming of chlorine dioxide properties, which fight presence and formation of bacteria and biofilm.

Dosage is proportional to flow rate, and it is controlled by an electronic flow meter, which allow correct percentage in water.

Equipped with an electric control board in accordance with IP 65 standard and in-built anti flooding system, with light and acoustic alarm.

Fields of application

Suitable for medium sized private and public installations (e.g.: restaurants, hotels, hospice, etc.).

Other products of the same line

- COMPONENTE A & B: bi component chemical disinfectant, to be used with MANTA BIOS MINI.

Cat. ref.

TDS 056a 00



MANTAFILTER

Filter housings for domestic and industrial applications

Main features

Our filters housing are available both in plastic and brass version, also with manual self cleaning device. They are devised to the best water treatment standards and in accordance with EU regulations relevant to potable water parameters. Also available filters for hot water.

Fields of application

MANTAFILTER PP (polypropylene) and OT (brass) lines are available in different dimensions, components and design. They perfectly suit any kind of application for water treatment for protecting installations and their components from dirt and debris.

Other products of the same line

Also available cartridges suitable for several applications, made of: stainless steel, polypropylene cord, pleated polyester, Carbon Block, Nylon, etc.



Cat. ref.

TDS 022 00



SMILE FILTER

Bio microfiltration point of use

Main features

Bio microfiltration, equipped with the special filter element cartridge Smile Filter 0,5 µm, composite structure that inhibits the growth of bacteria giving the filters bacteriostatic properties. The filter structure consists of a semi-permeable membrane in pure polyethylene filtration of 0,5 µm. Within the filter element a layer of charcoal powder (non granular) of vegetal origin. The element of bacteriostatic Manta exclusive concept, is made by copper fine porous grit. Removes unpleasant tastes and odors. Removes free chlorine up to 97% and organic compounds (trihalomethanes), hydrocarbons, herbicides (atrazine), pesticides, phenols. Removes pathogens: bacteria than 99.99% (Coliforms, cholera, salmonella, legionella), cysts and parasites proliferating in water.

Fields of application

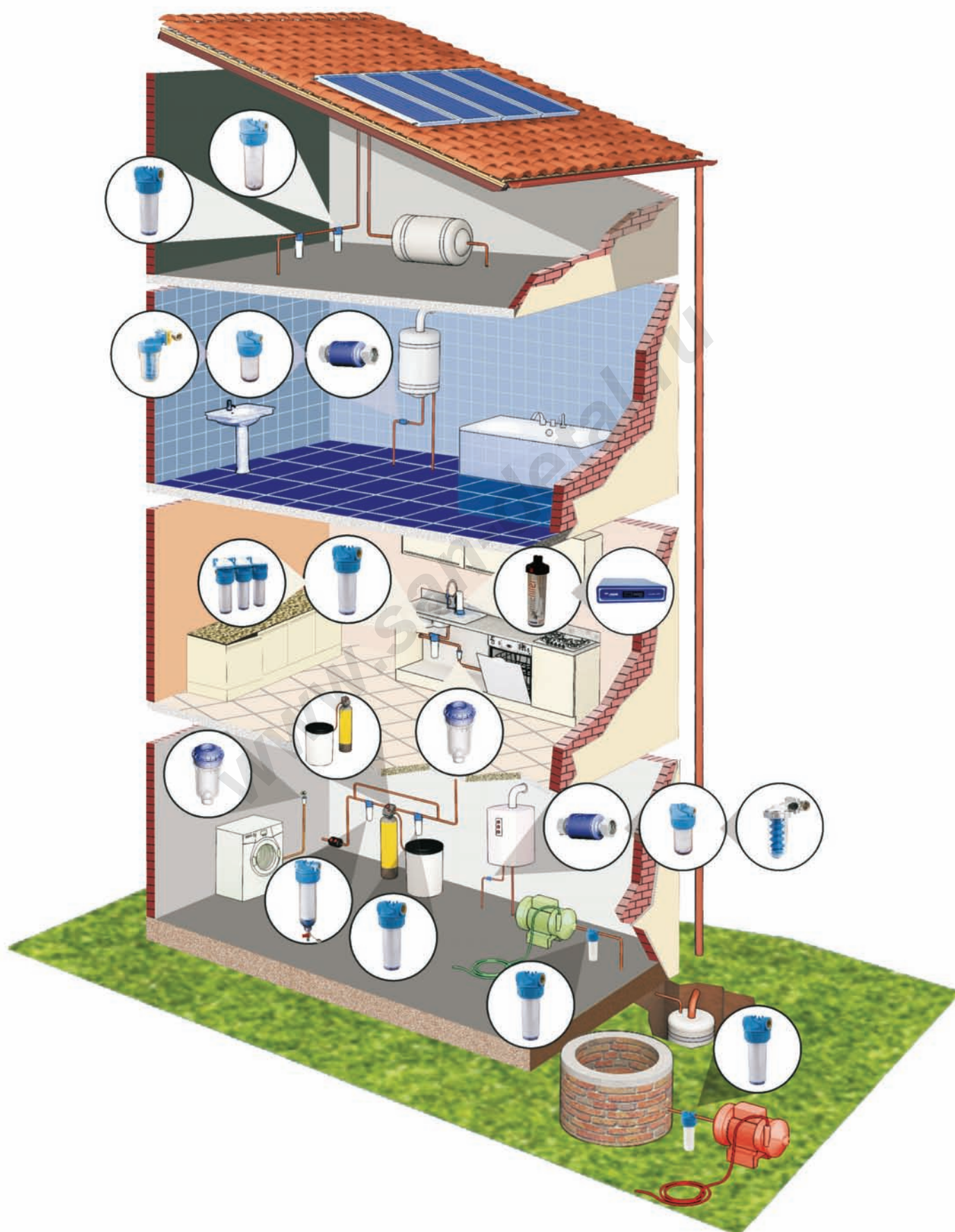
Bio microfiltration for installations on top or below sink.

Other products of the same line

Also can be used in combination with MANTA OSMO FIRST 90.

Cat. ref.

TDS 020a 02





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MANTA

MANTA ECOLOGICA s.r.l. - V.le Archimede, 45 - 37059 - S. Maria di Zevio (VR)
Tel. +39 045 8731511 - Fax +39 045 8731535 - info@h2online.it - www.h2online.it