

ENVIROMENTAL SOLUTIONS

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<p>DHR-8</p> <p>All in one solution for thermal weeding, graffiti removal and much more</p> 	FD 906	1-8
<p>SKID 180/21</p> <p>Industrial multi-purpose cleaner for continuous use.</p> 	FD 360	9-12
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<p>MINI SANIMATIC</p> <p>The smallest of the eurosanimatic for descon of solid waste containers</p> 	FD 391	20-24



Ghibli

ENVIRONMENTAL SOLUTIONS



ISO 9001
CONFORM TO THE QUALITY
SYSTEM STANDARD ADAP 2110
and ISO 9001:2015

FD 906

DHR-8

ALL-IN-ONE SOLUTION FOR

THERMAL WEEDING



POSTER AND STICKER REMOVAL



GRAFFITI REMOVAL



CHEWING-GUM REMOVAL





Urban areas management: hazard of herbicides.

COMBATING WEED INFESTATION

Combating weed infestation is a basic necessity for the maintenance of gardens and management of urban areas to prevent their decline.

Important scientific studies have shown that herbicide products such as those commonly used in agriculture and for the maintenance of public spaces can pose serious risks to human health and animals and can harm the ecosystem.

Chemical herbicides are persistent and can be carried by wind and flowing rainwater, causing widespread and uncontrolled contamination of the environment. They can also be harmful for domestic and wild animals.



DHR-8 IS AN ENVIRONMENTALLY SOUND SOLUTION!

THERMAL WEEDING WITH SATURATED STEAM IS DEFINITELY THE MOST ENVIRONMENTALLY SOUND SOLUTION!

With saturated steam at high temperature, the moisture present in the leaves and in the collar increases in volume, causing the cells of the seedling to rupture. This means the seedling dissects from the outside in the direction of the roots.

THERMAL WEEDING

THERMAL WEED CONTROL WITH THE **DHR-8** SYSTEM

Making sure the fluid to the nozzle is at the correct temperature is one of the main parameters in guaranteeing the system effectiveness.



STEAM LANCE
cod. 085010430

SAM 610 STEAM BELL
cod. 120048204

WEED CONTROL WITH THE POWER OF DHR-8



DHR-8 ACCESSORIES FOR THERMAL WEED CONTROL

STEAM LANCE - code 085010430

SAM 610 STEAM BELL - code 120048204

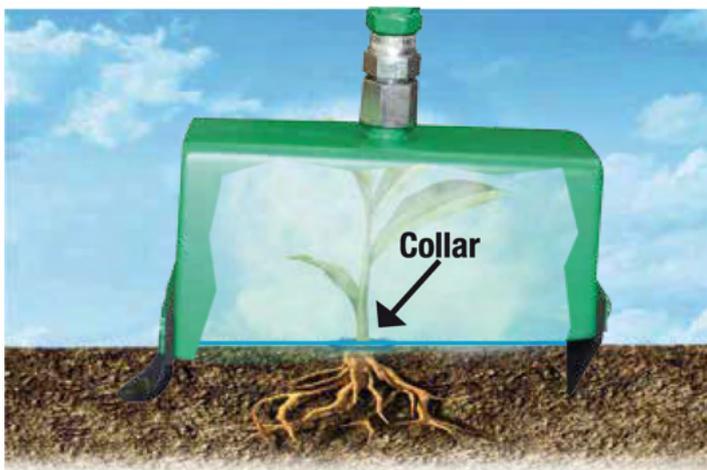
This method is especially suitable for removing grass from sidewalks, pavement cracks, roadsides, walls, flowerbeds around trees, etc.

The European Union has banned the use of phytosanitary products containing the active substance glyphosate (total herbicide) in areas frequented by the public or by vulnerable groups, such as parks, gardens, sports fields and recreation areas, courtyards and green areas within schools, children's playgrounds and areas adjacent to healthcare facilities.

Thermal weeding offers several advantages for the environment and human health and, unlike pesticides:

DHR-8

- Uses only water;
- Is safe even in close proximity to sensitive, high-affluence areas such as kindergartens, schools and hospitals;
- Removes weeds and thus reduces the risk of allergies;
- Is safe for the operators, people and animals on site, during and after treatments;
- Excludes the need for healthcare permits and personal protective equipment for staff;
- Can be used effectively in any weather condition.



CHEWING-GUM REMOVAL

DHR-8 IS ESSENTIAL TO REMOVE CHEWING-GUM FROM ANY SURFACE IN AN ECO-FRIENDLY MANNER

THE METHOD IS:

EFFECTIVE, because it effectively eliminates the chewing gum from all surfaces within a few seconds.

ECO-FRIENDLY, because it does not use chemicals, but only a few grams of water.

RESPECTFUL of surfaces because, working at very low pressure, it does not cause any harm to them.



KIT CHEWING GUM
cod. 950090193

DHR-8 ACCESSORIES FOR CHEWING-GUM REMOVAL

KIT CHEWING GUM - cod. 950090193



DHR-8 IS ESSENTIAL TO REMOVE BILLBOARDS, MURALS, POSTERS AND STICKERS

THE METHOD IS:

ENVIRONMENTALLY FRIENDLY, because it uses only a few grams of water per minute.

EASY, because it does not require strenuous manual operations.

EFFECTIVE, because it ensures removal without damaging the underlying surfaces.

FANJET
code 950010180



STEAM LANCE
code 085010430

DHR-8 AND ACCESSORIES FOR POSTER AND STICKER REMOVAL

- FANJET - code 950010180
- STEAM LANCE - code 085010430



GRAFFITI REMOVAL

DHR-8 IS ESSENTIAL FOR GRAFFITI REMOVAL

THE METHOD IS:

ECO-FRIENDLY, because it uses natural products.

INEXPENSIVE, because the engine has only 4.8 HP.

EFFECTIVE, because it guarantees the removal of all types of graffiti.



SAD 1H
code 8803421

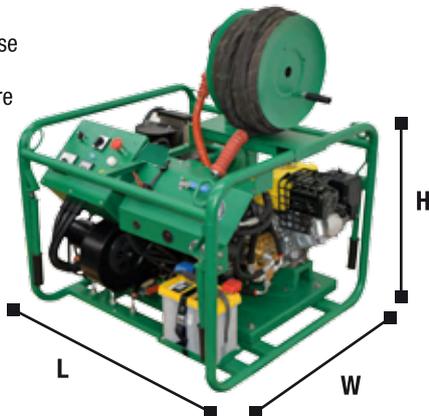
DHR-8 AND ACCESSORIES FOR REMOVING GRAFFITI FROM NON-PRECIOUS SURFACES

SAD 1H - code 8803421



DHR-8

Complete with removable hose reel high-pressure (80 bar) and high-temperature (180°C) hose 15 metres long with quick coupling code 600180190



DATA SHEET

	HIGH-PRESSURE MODE	STEAM MODE
WORKING PRESSURE	80 bar	11-12 bar
WATER FLOW	8 litres per minute	2,8 litres per minute
MAX. TEMPERATURE	85 °C	160 °C
NOISE LEVEL	65 dB(A) a 7 meters	

TECHNICAL SPECIFICATIONS

- 4.8 HP ENGINE
- Electric ignition
- Burner operating at 12 V
- Dimensions: 850 w x 850 W x 670 H mm
- Weight: 125 kg (excluding battery and hose reel)

STANDARD ACCESSORIES FOR THERMAL WEED CONTROL:

WW 75 cod. 950010164

Long lance (1400 mm) with quick coupling



FAN JET cod. 950010180

For poster and sticker removal

KIT CHEWING GUM cod. 950090193

Chewing-gum removal kit



SAM 910 cod. 120048209

To work on medium surfaces



HIGH PRESSURE STEAM HOSE cod. 120019687

Resistant to high temperatures (180 °C)



STEAM LANCE cod. 085010430

Special steam lance in stainless steel



SAM 610 cod. 120048204

To easily reach corners



OPTIONAL ACCESSORIES FOR:

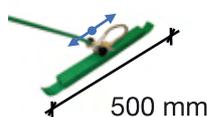
SAD 1H cod. 8803421

To remove graffiti from normal (not delicate) surfaces outdoors.



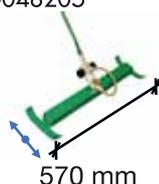
SAM 715 cod. 120048210

To work longitudinally



SAM 710 cod. 120048205

To work on large surfaces



SAM 810 cod. 120048206

To work around trees



DEMO VIDEOS



Cristanini reserves the right to make changes to improve the product without notice.

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ENVIRONMENTAL SOLUTIONS



NDABE A3009
CONFORM TO THE QUALITY
SYSTEM STANDARD CAP 2110
#d/ISO 9001:2015



ARE THESE STILL PROBLEMS?

GRAFFITI

CHEWING-GUM

POSTERS



THE SOLUTION IS

SKID UNIT 180/21 DE HR

INDUSTRIAL, MULTI-PURPOSE,
SELF CONTAINED SOUNDPROOF
(db(A)65 a 7m) FOR CONTINUOUS USE

JUST ONE BIG, UNIQUE AND TESTED MACHINE OF SURPRISING AND IMMEDIATE EFFICIENCY

CHEWING-GUM...



KIT 950090193



GRAFFITI...



KIT 8803421



PEGATINAS ...



KIT 950010192



HAS THE ECOLOGICAL SOLUTION

DEVELOPED FOR

- **ELIMINATING** graffiti quickly and completely
- **REMOVING** chewing-gum from any type of surface without any damage whatsoever
- **REMOVING** posters and stickers
- **DECONTAMINATING** squares, pavements and kerbs from organic matter
- **CLEANING** monuments and cleaning facades from moss, mould, smog and birds residues
- **INTERVENING** immediately for deicing operations

ADVANTAGES

- **IN DEPTH CLEANING** without leaving residuos, even against the most obstinate dirt
- **ENVIRON FRIENDLY** no chemicals are needed
- **NO DAMAGE** to treated surfaces (max pressure 0.3 kg/cm²)
- **ECONOMICAL** : running costs are low; the area treated can be used immediately after interventions
- **EXTREMELY QUIET** : and therefore ideal for use in city centre (soundproofing db(A)65 a 7m)
- **RESULTS GUARANTEED**
- **MULTI-PURPOSE** : WITH THE WIDE RANGE OF OPTIONAL ACCESSORIES AVAILABLE (see back page)
A MULTIPLE OF DIFFERENT INTERVENTIONS CAN BE CARRIED OUT

SKID UNIT 180/21 DE-HR



SKID UNIT 180/21 DE-HR-AC INSTALLED ON EQUIPED VEICHLE



SKID UNIT 180/21 DE-HR-AC ON THE TRAILER



OPTIONAL ACCESSORIES

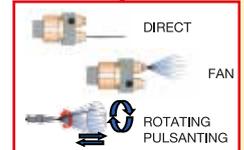
SAM 36 (cod. 8803410)

Accessory with rotating head to wash large surfaces in marble, cement, asphalt, etc. working area of 63 cm diameter.



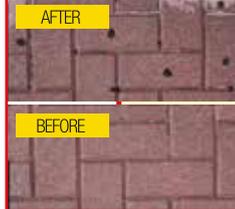
WW 110 (cod. 950010132)

Special launch with 3 different jets for different needs.



KIT CHEWING-GUM (cod. 950090193)

To remove CHEWING-GUM.



KIT (cod. 950090192)

To remove posters.



AJ23B (cod. 085010020)

Reaction nozzle with 15 m hose to clean inside drain pipes up to 300-400 mm diameter.



WW 200 (cod. 085010440)

Curved launch to decontaminate vehicle chassis.



SAD 1H (cod. 8803421)

To remove graffiti from normal (not delicate) surfaces outdoors.



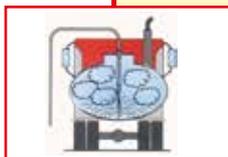
WW 115T (cod. 950010125)

Opposing jet terminal that is applied to the launch and used to remove adhesive from traffic lights and reflecting road signs.



SAM 130 (cod. 950090309)

Nozzle for degassing and sterilising tanks.



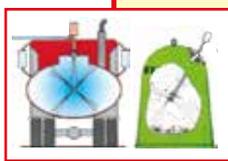
SAM 56 (cod. 950090129)

Suction unit for liquids containing foreign bodies up to 15 mm max.



MSW 3 (cod. 8801470)

Hydraulic rotating head to clean inside tanks, glass skips, etc.



THERMAL WEEDING KIT

For thermal weeding and for the maintenance of urban zones.

SAM 600
(cod. 120048088)

SAM 610
(cod. 120048204)



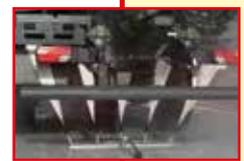
LIGHTING SYSTEM (cod. 950090240)

Complete with 2 LED lamps.



SAM 300 (cod. 950010300)

System for chassis decontamination



DEMONSTRATIVE VIDEO



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ISO 9001
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and ISO 9001:2015

FD 959

GHIBLI SILENT DMR Delicate Mechanical Removal



**RESTORATION AND RECOVERY OF FINE ARTS, HISTORICAL
ARTWORKS, MONUMENTS, DELICATE AND PRECIOUS SURFACES**

(crystal, glass, aluminum, shiny granite, travertine, etc.)

with low pressure (0,08 ÷ 0,1 kg/cm²) using natural vegetable or mineral products

Innovative and special **MIXER** component of **GHIBLI SILENT DMR** that eliminates graffiti using natural, vegetable or mineral products.



Wheeled compressor component of **Ghibli SILENT DMR** necessary to work with **MIXER** allowing maximum versatility and compactness.



TECHNICAL FEATURES

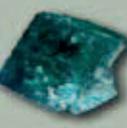
TYPE	Screw compressor
OUTPUT AIR FLOW	360 l/min.
NOMINAL VOLTAGE	400 V - 50 Hz
MAX. POWER	3,5 KW
ELECTRIC CABLE LENGTH	5 m
AIR-WATER HOSE LENGTH	20 m
DIMENSIONS L. x W. x H.	650 x 460 x 820 mm
WEIGHT (without accessories)	87 kg



TECHNICAL CHARACTERISTICS OF NATURAL VEGETABLE AND MINERAL PRODUCT, USED TO ELIMINATE GRAFFITI WITH **GIBLI SILENT DMR**

	Corn	Semolina	Nut	Sand	Quartz
					
MOHS scale hardness	2	2	3 - 4	5 - 6	7
Average granulometry diameter					
Millimeters (mm)	0,55 mm	0,2 - 0,45 mm	0,11 - 1,3 mm	0,12 - 0,2 mm	0,2 - 1,5 mm
Microns (µm)	550 µm	200 - 450 µm	104 - 1300 µm	120 - 200 µm	200 - 1500 µm
U.S. Mesh	33	47 - 72	18 - 140	67 - 123	13 - 67
Specific weight (kg/m³)	673	593	480	1602	1505

MOHS SCALE HARDNESS

1	2	3	4	5	6	7	8	9	10
TALC	GYPSUM	CALCITE	FLUORITE	APATITE	FELDSPAR	QUARTZ	TOPAZ	CORUNDUM	DIAMOND
									

VIDEO



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EXCLUSIVE SYSTEM to mix natural vegetable or mineral products, to obtain a delicate mix, to remove graffiti from delicate and precious surfaces and recover of fine arts, historical artworks, monuments and archaeological assets, without any damage.

ROMAN STELE AMMONIUM LIMESTONE
PONTE PIETRA VERONE (ITALY)



BEFORE



AFTER

GHIBLI SILENT DMR

Delicate Mechanical Removal

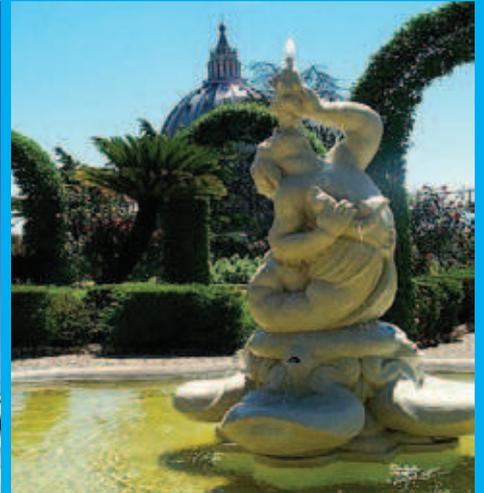
SOME REFERENCES



Trinità dei Monti (Rome - Italy)



Neptune's Fountain (Florence - Italy)



Vatican City Gardens



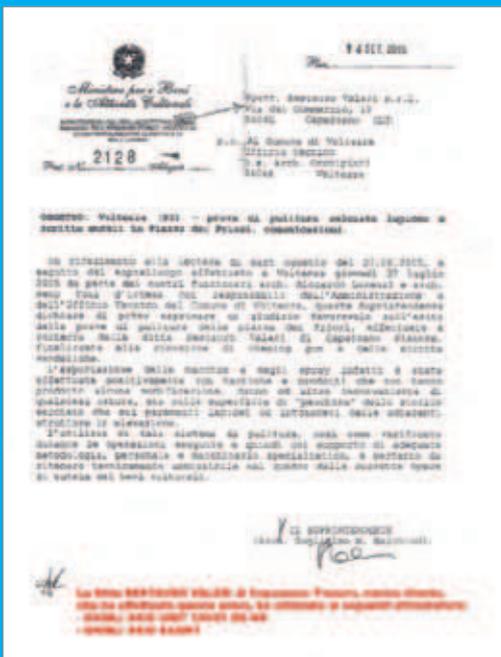
Priori Square (Volterra - Italy)



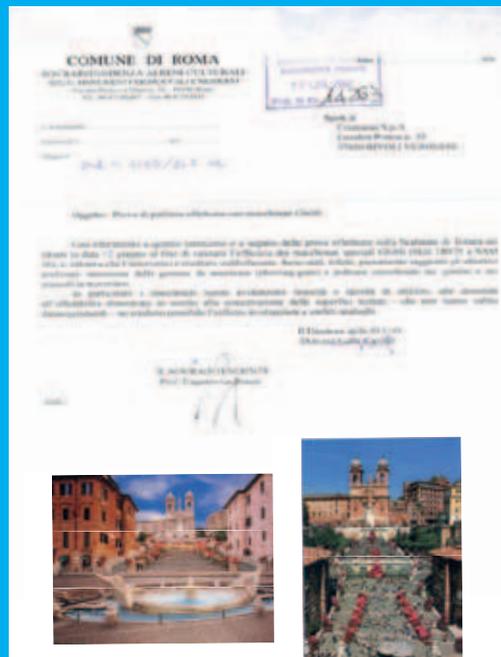
Palazzo delle Poste (Pescara - Italy)



Kitch Fountain (Massa Carrara - Italy)



Ministry for Fine Arts and Culture



Rome Municipality

GHIBLI SILENT DMR

Delicate Mechanical Removal

SOME REFERENCES



Armas Square (Trujillo - Perú)



Obelisk (Buenos Aires - Argentina)



Ciudad (Juarez - México)



Former Franciscan Convent (Churubusco - México)



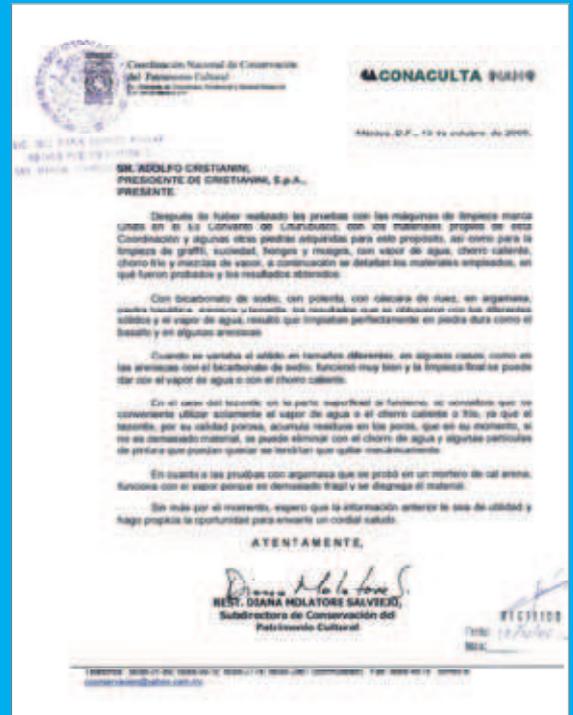
Central Fountain (Antofagasta - Chile)



Culture and Science Palace (Varsovia - Poland)



Cibeles Fountain (Madrid - Spain)



CITY OF MEXICO - CONACULTA INHA
 NATIONAL COORDINATION FOR CONSERVATION OF CULTURAL HERITAGE
 NATIONAL ARCHAEOLOGY AND HISTORY INSTITUTE

mini sanimatic

A Thankful Environment



**THE SMALLEST OF EUROSANIMATIC SERIES
FOR DECONTAMINATING SOLID WASTE CONTAINERS
AND CARRYING OUT MANY OTHER CLEANING TASKS**



N° A5009
QUALITY
CONTROL
AQAP-110



mini sanimatic is a robotized system for high pressure hot water solid waste containers decontamination.

mini sanimatic is THE SMALLEST machine for solid waste container decontamination. It is the best solution developed by today's technology for high pressure hot water disinfection and decontamination of solid waste containers.

mini sanimatic it's reduced dimensions are a great advantage for service in narrow streets, small boroughs, hospital, barracks, large affluent institutes, schools and universities, campuses, etc.

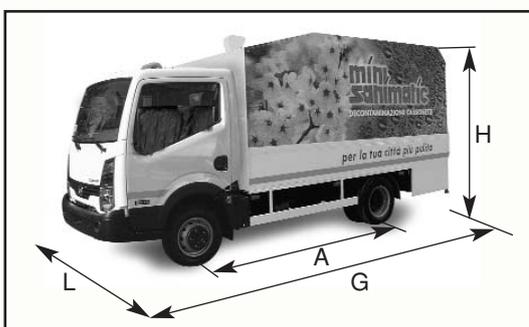
FEATURES:

- Rear charging.
- Washing chamber in stainless steel.
- Lifting system slow - fast - slow.
- Water tank in non-corrosive material (capacity 700 to 2500 litres)
- Internal/external decontamination of solid waste containers from 120 - 240 - 360 litres (2 in one washing cycle) and containers of 700 to 1100 litres (one at a time).
- Washing time: from "pick-up" to "put-down", 55 seconds.
- High pressure (180 bar), hot water production system (85°-90°C).
- Container disinfection system.
- Ensures **maximum bacterial destruction**.
- Guarantees the **maximum "mechanical" removal** of solid residues from the sides of the container.
- **Low water consumption** per container, approximately 8÷10 litres.
- **Low environmental impact** with low diesel / gas consumption (0,15 Kg diesel per container).
- Supplied with a special system that completely cleans the sides and bottom of the container **without cleaning "imaginary" surfaces**, thus offering an efficient and energy saving intervention.



mini sanimatic is extremely safe; it can be supplied with right hand drive, the same side as the controls, offering extra safety for the operator.

mini sanimatic is equipped with a **hose reel 1/2"** and 15 metres of high pressure hose and **lance** for decontaminating squares, benches, gutters, for cleaning the machine itself or other vehicles.



Dimension are variable depending on type of chassis used.

Recommended vehicle →	Mod. 80 hp 130 kW 97 ton 3,5*	Mod. 130 hp 130 kW 97 ton 4,5*	Mod. 250 hp 140 kW 105 ton 7,5*
A	mm 2500	2900	3105
G	mm 5229	5750	5500
L	mm 1900	1900	1900
H	mm 2600	2600	2700
CISTERN CAPACITY: CLEAN WATER	l 700÷800	1300	2500
CISTERN CAPACITY: DIRTY WATER	l 700÷800	1300	2500
N° OF 240-l waste container per full water tank	80	130	250

* total capacity

mini sanimatic

...becomes a special multipurpose machine with the use of a vast range of **OPTIONAL** accessories

CHEWING-GUM KIT
(cod.950090180)



For chewing-gum and posters removal.

SAM 34
(cod.950090115)



Floor-washing machine, suitable for cleaning small and medium-sized surfaces.

SAD 1H
(cod.8803421)



For removing graffiti in open areas.

ROTOJET
(cod.5189010)



Rotating nozzle for removing highly resistant deposits.

AJ 3
(cod.5182560)



For internal cleaning of drain pipes.

SAM 56
(cod.950090129)



Aspirator for sucking liquids even with solid bodies.

WW 115 T
(cod.950010125)



Opposed jet terminal for cleaning road reflectors, traffic lights, etc...

SAD 3
(cod.950020133)



Hydrosandblasting kit for removing road horizontal markings.

MSW 3
(cod.8801478)



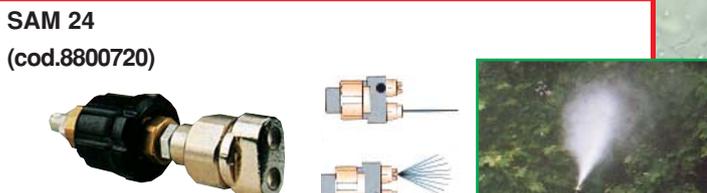
Electrical rotating head, suitable for internal cleaning of cisterns and glass collection skips.

SAM 36
(cod.8803410)



Rotating nozzle accessory for washing wide flat surfaces.

SAM 24
(cod.8800720)



Double nozzle bar for pest control operations.

SAM 115 M - STREET-WASHING BAR
(cod.99024)



For washing wide surfaces such as streets, squares, etc..



DETERGENTS/DISINFECTANTS FOR DEEP AND SAFE DECONTAMINATION, PRODUCED IN MAXIMUM COMPLIANCE WITH ENVIRONMENTAL PROTECTION LEGISLATION.

**mini
sanimatic**

- >> WITH A 3,5 Ton. VEHICLE YOU CAN DECONTAMINATE **80** WASTE CONTAINERS
- >> WITH A 4,5 Ton. VEHICLE YOU CAN DECONTAMINATE **130** WASTE CONTAINERS
- >> WITH A 7,5 Ton. VEHICLE YOU CAN DECONTAMINATE **250** WASTE CONTAINERS

CRISTANINI S.p.A.: TOTAL QUALITY

In today's industrial context, choosing products that are compliant with the principles of **TOTAL QUALITY** and increasingly aimed at respecting man and the environment has become indispensable. This kind of respect, which is both the origin and result of quality, becomes manifest with the reduction of gas, liquid waste and noise pollution, as well as with good cost-performance and operational safety.



SUPREMACY

MINI SANIMATIC is part of the solid waste containers washers range named EUROSANIMATIC. EUROSANIMATIC has earned a solid reputation among top customers in Europe and worldwide. This is a clear sign of its SUPREMACY, backed by certifications and references unparalleled so far.

REFERENCES

The over-300 EUROSANIMATIC and MINI SANIMATIC machines working throughout the world constitute a guarantee of reliability for future customers.

The information and pictures are indicative and non-binding on the manufacturer.

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