

Weed control in public spaces and non-cultivated land

with hot water,
herbicides or
bio-herbicides

For every method, the right spraying system!

MANTIS ULV[®] offers professional weed control solutions for a wide range of areas and spaces, such as:

- ▶ Roads, paths and other hard surface areas
- ▶ Sports and industrial facilities
- ▶ Cemeteries
- ▶ Public parks and gardens
- ▶ Car parks and squares
- ▶ Solar parks

As well as other areas such as tree nurseries, orchards, ornamental plants and other row cultivations.

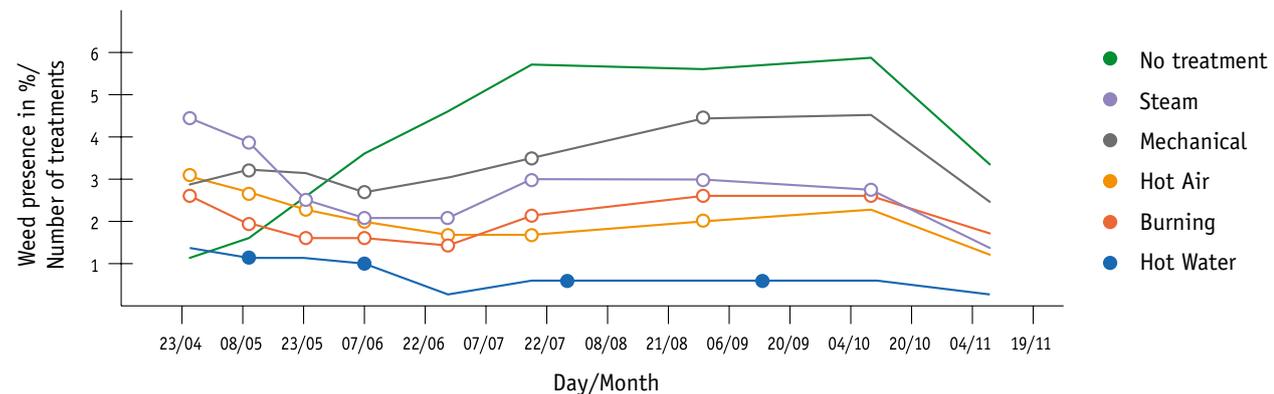


Organic weed control with hot water

In public spaces and other non-cultivated land, as well as everywhere where the use of herbicides is not permitted or undesirable, weed control with hot water offers an ideal and cost-effective solution. BioMant Aqua machines destroys the cell structure of the weed, causing the plant to weaken and die off.

Scientific studies have proven that hot water treatment is one of the most effective methods of alternative weed control. See below graph:

(Source: "Kristoffersen P., Rask A.M. & Larsen S.U. (2008). Non-chemical weed control on traffic islands: a comparison of the efficacy of five weed control techniques." Weed Research 48, 124 –130).



BioMant Aqua advantages

- ▶ Most effective, cost-efficient and time-saving method when compared to other non-chemical methods
- ▶ Increased working speed thanks to the high water flow rate and temperature control system
- ▶ Also kills moss and algae
- ▶ No fire hazard
- ▶ No surface damage to treated areas
- ▶ 2-in-1: Weed control and high-pressure cleaning
- ▶ Exceptionally eco-friendly heating and propulsion technology

before

after



"It pays off!"



WS-I / WS-II

BioMant Aqua WS-I and WS-II models are ideal for use on large surfaces. They are designed as self-sufficient systems, including a water tank. With a high flow rate of 15 or 30 l/min, an optimal working speed can be ensured. With a special pump and filter set, the water tank can even be filled with surface water.

The water temperature in conventional hot water weed control devices is not always stable. As a result, the effect on the weeds can be very variable. BioMant Aqua WS-I/II models are equipped with a sensor-controlled temperature control system (TCS), which ensures a constant water temperature of 99,5 °C. This allows faster working with consistently good and reliable results.

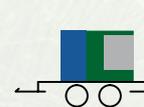
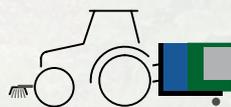
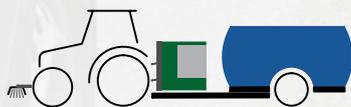
Depending on the model, water is heated by either diesel or environmentally friendly LPG and the pump powered by diesel, petrol or a low-noise battery pack.

WS-I models are equipped with a single burner and have a maximum spray width of 50-70 cm. With a working capacity of up to 2,000 m²/h, they are ideal for working with one person at a time.

WS-II models have double the capacity, with two burners and spray width of 100-130 cm. It allows for two people to work alongside each other or for a vehicle-mounted spray bar or set of side-sprayers. The WS-II can achieve a capacity of up to 4,000 m²/h.



All models can be equipped with 3-point (cat.2) hitch connector or special frame for mounting on electric vehicles, tractors, tool carriers, trailers, pickups, and other vehicles.



WS-Compact

Due to its compact design, the BioMant Aqua WS-Compact is ideal for use in gardens and on small areas, but it is equally suitable for the treatment of larger areas. The WS-Compact can be connected to water mains and a regular 230 V power outlet or can be operated autonomously, on a trailer or vehicle, when combined with a water tank and power generator. A high water flow rate of 9 litres per minute ensures a fast working speed.



WS-Mini

As the smallest and most economical model, the WS-Mini is perfectly suited for use on small and difficult-to-access areas, where a water and electricity connection is available on site.

It is small, manoeuvrable and with only 98 kg much lighter than the WS-Compact. This makes it especially interesting for gardening companies, maintenance and caretakers, for use in and around residential, office and industrial estates.



BioMant Herbi

SPRAYING SYSTEMS

For bio-herbicides

Especially designed for the use of bio-herbicides (e.g. with the active ingredient pelargonic acid), as well as of biological plant-strengthening agents.

The **HQ-80** is a hand-held sprayer with a 10-litre tank that produces a spray cone of 80 cm diameter through a special rotary atomiser.

The **BioMant Herbi** spraying system is available as an integrated unit on an electric cart or as an attachment kit for mounting on vehicles. The system is equipped with our tried-and-tested Flex spray hoods and, depending on the model, produces a spray pattern of 25-110 cm wide.



HQ 80

Up to 50 % herbicide savings thanks to ULV technology

In public spaces and on most hard surfaces, the use of herbicides is more and more restricted. However, there are exceptions where chemical weed control is the only option and hence, in some cases, permitted.*

MANKAR ULV sprayers are based on the “ultra-low volume” technique. Through a special segment rotary atomiser, a minimal amount of undiluted herbicide or herbicide mixture is sprayed vertically downwards without pressure.

MANKAR® advantages

- ▶ Minimal herbicide usage
- ▶ Minimal risk of drift for optimal protection
- ▶ Low weight and easy to operate with considerable time-savings
- ▶ Powered by a rechargeable battery or on-board power supply
- ▶ Optimally designed for a wide range of applications

MANKAR® models

Carry

The lightest and very ergonomic MANKAR-HQ models are ideally suited where maximum flexibility is required, e.g. in flower beds, amongst plants and hard to reach areas. Herbicide metering is ensured by a manual metering valve and the atomiser is activated with a simple ON/OFF switch, so that you only need to spray where absolutely necessary. Spray width vary from 12-45 cm, in some cases adjustable.



MANKAR® Carry

Roll

MANKAR-TWO and -ONE models are ideal for small to medium sized surfaces, for example gardens and cemeteries, and are easy to transport. A wheel-driven pump guarantees exact, path-dependent metering. A “Select” function is optionally available, to interrupt the spraying when selective treatment is required. Spray widths from 25-110 cm, with or without extension arms.



MANKAR® Drive

Drive

Drive sprayers, for front or rear mounting on a vehicle, are ideal for large areas e.g. parks and sports grounds. Depending on the model and mounting system, they can be adapted to a wide variety of vehicles for different spraying and working widths for almost every application.

* Please always respect applicable local laws and regulations.

Benefit from our innovative Flex spray hoods

Perfectly suitable for weed control with variable spray widths

- ▶ Fold back upon contact with obstacles, e. g. park benches and trees
- ▶ Flexible and adjustable spray width and spring force
- ▶ Alternatively spray hoods can be fixed
- ▶ Three spray widths: 25, 40 or 55 cm



Professional spraying technology from MANTIS ULV®

With over 40 years' experience in the development, production and sales of professional spraying systems for a variety of application areas and industries, Mantis offers high quality sprayers for the most efficient and user-friendly application of liquid preparations.

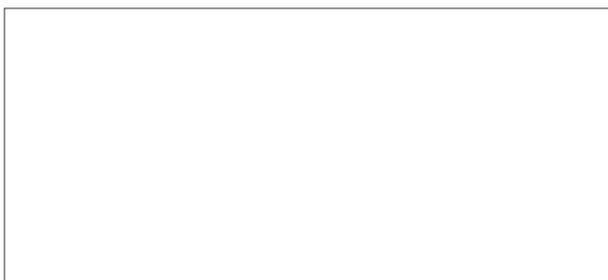
Beyond weed control, Mantis also offers MAFEX® spraying systems for crop protection (e. g. potatoes, fruit and silage), ROFA sprayers for insect control and disinfection, as well as a variety of MANTIS ULV® spraying systems and components for the public health sector and other industries like the pre-fab concrete or food processing industry.

Mantis, specialist in professional weed control solutions with herbicides, bio-herbicides or hot water.

MANKAR®

BioMant

Please visit our website www.mantis-ulv.com for more information on the latest products and developments.



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We can help you find the right solution!

MANTIS ULV®
SPRAYING SYSTEMS

