

Varidome

A range of efficient band sprayers



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Agriculture



Horticulture



Vegetables



Soft Fruit



Forestry

Setting the trend in precision farming

With fewer active ingredients available for crop protection, farmers are often left with a limited choice of herbicides in some crops. The increasing requirement to reduce input costs and weed resistance problems also call for alternative farming techniques. The Varidome range of advanced band sprayers from Micron Group can help growers improve weed control, reduce their dependence on the use of selective products and cut herbicide cost by offering a highly targeted and accurate spraying solution.

Employing innovative application technology, Varidome incorporates a fully shielded design which can safely eradicate weeds growing in between rows of crops and in wheelings. With proven 95% drift reduction, Varidome awards users improved chemical placement and enables the use of a wider range of herbicides, including non-selective products, allowing for effective removal of persistent weeds such as black-grass. With Varidome, product is only applied where it is needed. Not only is it better for the environment, this can also cut chemical expenditure by half.

Varidome can be fitted with Micron's Dual Spray System for simultaneous banded application of selective herbicides, insecticides, fungicides and nutrients directly over the rows of crop.



Flexibility and efficiency by design

Spray width can be adjusted on each individual shield enabling users to treat the desired bands in different crops and varying growth stages. The toolbar configuration can also be easily changed to fit different planting distances, band widths, number of rows and bed heights.

Varidome spray shields are mounted on individual carriages with ground following wheels for independent operation. This enables Varidome to follow the contours of the terrain keeping each shield in close contact with the ground to further minimise spray drift.

When not in use, the carriages can be lifted up and locked in position for safe transportation.

- Suitable for a wide range crops including sugar beet, oilseed rape, maize, vegetables, ornamentals, herbs and tree nurseries
- Over 95% drift reduction thanks to the shielded design
- Significantly reduced chemical and water usage
- Adjustable spray width to suit the crop
- Improved chemical targeting
- Optional Dual Spray System
- Available in three, six, nine and twelve metre working widths



A Fully Bespoke Solution

Recognising the varying needs of their customers, Micron designed the Varidome range to be fully modular. Each machine is entirely purpose-built and users can specify a sprayer which will be tailored to their individual requirements by simply choosing from a number of available options.

1. Toolbar Selection

Customers can easily integrate Varidome into their existing planting set up by selecting the best suited working width for their application. The sprayer is available in S1, S3, S5 and S7 toolbars which are capable of treating up to 3, 6, 9 and 12 metres respectively.

The S1 model is a rigid chassis which can be supplied in a choice of either Micron CDA (Controlled Droplet Application) or HiFlo (hydraulic pressure nozzle) spray systems. The S3, S5 and S7 models are fitted with HiFlo nozzles and fold hydraulically for transportation.

The Varidome S1 and S3 models can be specified as front or rear mounting, whereas the Varidome S5 and S7 are available as rear mount only.



S1



S3



S5



S7



2. Carriage Configuration

Lightweight (LW) or heavy duty (HD) carriages are offered to best suit the terrain and the crop. The lightweight carriage is ideal for narrower machines which are often destined for work in smaller areas and high value crops. The heavy duty carriage features stainless steel parallelogram linkage and is recommended for any application where the machine is likely to see significant usage over undulating terrain. The HD option can be supplied with a larger diameter, wider ground-following wheel.

Carriages can be fixed to the toolbar using a standard clamp or an optional quick release system which allows for easy and rapid repositioning of the carriages.



Heavy Duty Carriage
230mm Wheel



Heavy Duty Carriage
300mm Wheel



Lightweight Carriage
230mm Wheel



Quick Release Clamp

3. Spray System

A selection of HiFlo or CDA shields that offer spraying widths from 80mm to 800mm is available to cater for different inter-row widths. We currently offer four types of oval shields: Varidome 170 HiFlo (capable of spraying inter-rows between 170 to 700mm), Varidome 100 HiFlo (100 – 450mm), Varidome 130 CDA (130 – 800mm) and Varidome 80 CDA (80 – 800mm). The Varidome 100 HiFlo shield can be supplied in a triple configuration on a single carriage for operation in narrow crops.

Supplied in 250mm, 400mm or 600mm diameters, Micron also offers circular, freely rotating shields with a breakaway arm for use in between raised beds or situations where sideways movement of the shield is needed. Additionally, users may opt for a combination of shield types if required.

Sprayers can be fitted with a single spray line for inter-row weed control or a dual system for simultaneous application of two different products.



Varidome 170 HiFlo



Varidome 100 HiFlo



Varidome UD HiFlo



Varidome SD HiFlo



Varidome 130 CDA



Varidome 80 CDA



Varidome 100 HiFlo (triple)



Second Spray Line



4. Tank Systems

The Varidome range can be supplied with a choice of Micron Single or Dual Tanks of varied volume capacity.

Tank System 100L. Designed for use with both Varidome S1 CDA and HiFlo models, the Micron Tank System 100L offers a 100 litre capacity and comes with separate 15 litre hand wash and flushing tanks. It incorporates an electric high capacity diaphragm pump with filter and agitation. The system can be front or rear mounted via 3 point linkage (CAT 1 & 2) and only requires a single 12 volt electrical supply for operation.

Tank Systems 200L, 300L, 400L, 500L and 600L. Recommended for use with Varidome S1 and S3 models, these modular tank systems are available in volume capacities from 200 to 600 litres and share a common chassis which enables users to interchange or upgrade the tanks if required. Customers are able to choose from electric, hydraulic or PTO driven pumps according to their preference. The

systems feature a built-in hand wash tank and adjustable height storage legs. Other options include a fold-away platform or an induction bowl for safe filling, a rinse tank, storage locker, adjustable height control wheels and various lighting kits.

Tank System 1200L. Designed for larger spraying operations, this self-contained system contains a 1200 litre tank, induction hopper, hand wash and rinse tanks and a hydraulically driven pump. It is also equipped with road lighting, a watertight locker and easy access controls.

Dual Tank System 1800L. With the combined volume capacity of 1800 litres, Micron's innovative Dual Tank System 1800L incorporates 1050 and 750 litre reservoirs which feature independent twin spray systems with hydraulic centrifugal self-priming pumps, induction hoppers with agitation and rinse facilities and road lighting. Designed for the simultaneous application of two separate products in the inter-row and over the row, the Micron Dual Tank offers users flexibility and increased productivity.



Tank System 100L



Tank System 400L



Tank System 1200L



Dual Tank System 1800L

Machine Examples



Varidome S1 CDA with a 100 litre Tank System and LW carriages for herbs.



Front mounted Varidome S3 fitted with HD carriages and a combination of 100 HiFlo and 170 HiFlo shields for operation in salad onions.



Varidome S3 with LW carriages, 170 HiFlo shields and Micron Dual Spray System for sugar beet.



Varidome S3 for strawberries, equipped with twin SD400 HiFlo domes on HD carriages.



Varidome S5 with triple 100 HiFlo shields on HD carriages for parsley.



Varidome S1 configured with a 300 litre Tank System and a combination of 100 HiFlo and 170 HiFlo shields on HD carriages for beetroot.



Varidome S7 with overlapping 170 HiFlo shield configuration for sugar cane.



Varidome S3 asparagus model specified with UD600 HiFlo and 170 HiFlo shields with HD carriages.

Technical Specification

Inter-Row Sprayers

Model	Working Width	Typical Application Rates	Implement Requirement	Vehicle Mounting	Min. Tractor Requirement
Varidome S1 CDA	Up to 3m	20 – 50 l/ha	12 volt 3 amp supply; 1 hydraulic service	3 point linkage: CAT2, front or rear	35 kW
Varidome S1 HiFlo	Up to 3m	100 – 500 l/ha	12 volt 3 amp supply; 2 hydraulic services	3 point linkage: CAT2, front or rear	35 kW
Varidome S3 HiFlo	Up to 6m	100 – 500 l/ha	12 volt 3 amp supply; min 3 hydraulic services	3 point linkage: CAT2, front or rear	75 kW
Varidome S5 HiFlo	Up to 9m	100 – 500 l/ha	12 volt 3 amp supply; min 3 hydraulic services	3 point linkage: CAT2, rear only	90 kW
Varidome S7 HiFlo	Up to 12m	100 – 500 l/ha	12 volt 3 amp supply; min 3 hydraulic services	3 point linkage: CAT2, rear only	135 kW

Shield	Working Width	Typical Application Rates	Spray System	Carriage Option	Available Toolbar
Varidome 80 CDA	80 – 800mm	20 – 50 l/ha	CDA atomiser	Lightweight (LW)	S1
Varidome 130 CDA	130 – 800mm	20 – 50 l/ha	CDA atomiser	Lightweight (LW)	S1
Varidome 100 HiFlo	100 – 450mm	100 – 500 l/ha	Hydraulic pressure nozzle	Lightweight (LW); Heavy Duty (HD)	S1, S3, S5, S7
Varidome 170 HiFlo	170 – 700mm	100 – 500 l/ha	Hydraulic pressure nozzle	Lightweight (LW); Heavy Duty (HD)	S1, S3, S5, S7
Varidome UD250 HiFlo	250mm (circular)	100 – 500 l/ha	Hydraulic pressure nozzle	Lightweight (LW); Heavy Duty (HD)	S1, S3, S5, S7
Varidome UD400 HiFlo	400mm (circular)	100 – 500 l/ha	Hydraulic pressure nozzle	Lightweight (LW); Heavy Duty (HD)	S1, S3, S5, S7
Varidome UD600 HiFlo	600mm (circular)	100 – 500 l/ha	Hydraulic pressure nozzle	Lightweight (LW); Heavy Duty (HD)	S1, S3, S5, S7
Varidome SD400 HiFlo	400mm (circular)	100 – 500 l/ha	Hydraulic pressure nozzle	Lightweight (LW); Heavy Duty (HD)	S1, S3, S5, S7
Varidome SD600 HiFlo	600mm (circular)	100 – 500 l/ha	Hydraulic pressure nozzle	Lightweight (LW); Heavy Duty (HD)	S1, S3, S5, S7

Tank Systems

Model	Net Weight (dry)	Net Weight (maximum)	Dimensions (approximate)			Capacity			
			Width	Length	Height	Main	Rinse	Hand Wash	Induction Hopper
Tank System 100L	80kg	210kg	1160mm	740mm	970mm	100 l	15 l	15 l	N/A
Tank System 200L	243kg	525kg	1060mm	830mm	1290mm	200 l	30 l	15 l	Optional
Tank System 300L	248kg	650kg	1060mm	830mm	1360mm	300 l	30 l	15 l	Optional
Tank System 400L	253kg	810kg	1060mm	830mm	1510mm	400 l	40 l	15 l	Optional
Tank System 500L	265kg	900kg	1060mm	830mm	1690mm	500 l	50 l	15 l	Optional
Tank System 600L	270kg	1020kg	1260mm	830mm	1690mm	600 l	60 l	15 l	Optional
Tank System 1200L	415kg	1800kg	1800mm	2050mm	1200mm	1200 l	170 l	15 l	40 l
Dual Tank System 1800L	515kg	2500kg	2000mm	2050mm	1200mm	1050/750 l	170 l	15 l	40 l (x2)

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