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EvenSprey 300



OPERATOR'S MANUAL

Thank you for purchasing the Evensprey 300 Pedestrian Sprayer.

This instruction booklet includes the following information:

- a) User application guide and machine operation
- b) Technical specification and calibration guide
- c) Parts list

Evensprey 300 Machine Assembly

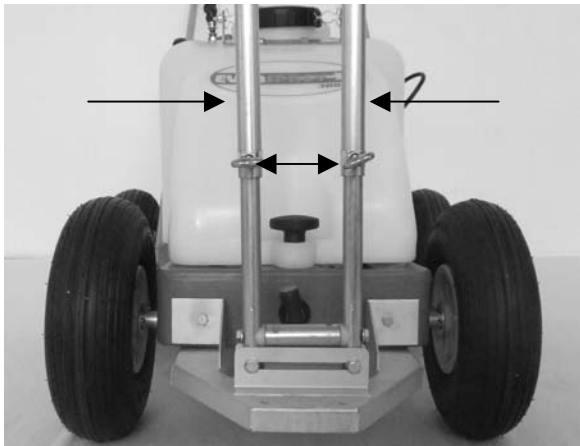
The Evensprey 300 (both 4 nozzle boom option and hand lance option) comes ready for use.

Evensprey 300 Boom Assembly

The 1.6 metres, 4-nozzle boom is detached from the main frame of the machine inside the box. The boom mounts are designed in two parts to enable height adjustment and to enable the user to fold the two halves of the boom back to allow ease of transportation. The bottom half of the boom mount is supplied attached to the machine. The top half should be located into the bottom mount. To do this simply:

- Remove the machine and boom assembly from the box.
- Locate the two tubes from the top half of the boom mount (**picture 1 black arrows**) over the two small diameter tubes of the lower boom mount (**picture 2**)
- Tighten the D-clamp thumbscrews to secure the boom in place (**picture 1 double arrows**)

Picture 1



Picture 2



The Evensprey 300 is now in boom spraying mode

Machine Operation and User Application Guide - Four-Nozzle Spray Boom

Both the boom and hand-lance facilities on the Evensprey 300 offer flexible application rates with their ability to interchange between nozzle sizes and the ability to adjust the inline pressure. The Evensprey 300 boom is supplied and fitted with standard Blue 03/110° flat fan nozzles. See the spray guide table on page 4 for nozzle outputs.

Height Adjustment

The Evensprey 300 has the ability to increase or decrease the height of the spray boom, depending on the height of the crop to be sprayed. Mis-application can be avoided if the correct height is used. The recommended height is 35cm (13½ inch) from the top of the crop to the nozzle tip.

Evensprey 300 Pressure Valve and Pressure Valve Adjustment

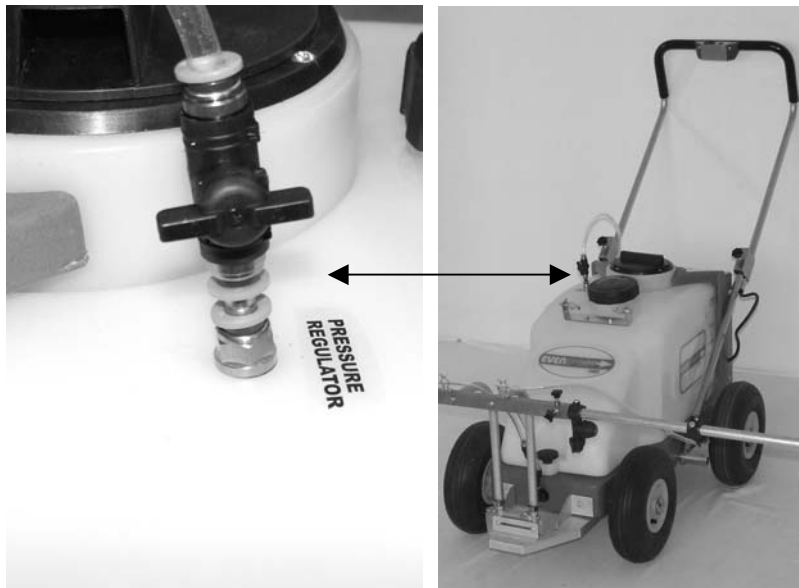
The Evensprey 300 is fitted with a pressure gauge and inline pressure control. The pressure control valve located on the console (**picture 3 below**) allows the operator to control the inline pressure, by returning a percentage of the flow back to the supply tank through the return pipe. This enables the operator to set the

machine to spray at a fixed pressure, when using a given nozzle size. The results of this is that the exact application rate can be achieved.

Picture 3



Picture 3a



Adjusting the Inline Pressure

IMPORTANT - When adjusting or setting the inline pressure this action must be carried out using water only.

To adjust the inline pressure turn the control valve clockwise to increase the pressure and anti-clockwise to decrease the pressure. By monitoring the pressure gauge (**picture 3 above**) at the same time as turning the valve (**picture 3a above**), the required inline pressure can be achieved. The pressure adjustment can be used for the spray boom or hand lance operation.

Nozzle options compatible with the Evensprey 300 boom are as follows:

SPRAY GUIDE TABLE

<i>Nozzle</i>	<i>Output Litres per min/per nozzle</i>	<i>Maximum Pressure</i>	<i>Total Output</i>
Brown 110°/05	1.633 litres per minute	2.0 bar	6.532 litres per minute
Red 110°/04	1.453 litres per minute	2.5 bar	5.812 litres per minute
Blue 110°/03	1.293 litres per minute	3.5 bar	5.172 litres per minute

The table above is accurate to +/-2.5%

NOTE: by adjusting the pressure at the pressure regulator valve, different outputs can be achieved with different nozzles. Do not use nozzles at a lower pressure than recommended by the nozzle manufacturers. Always use a nozzle tip filter in the diaphragm check valve assembly and ensure they are kept clean and clear of any of any particles.

IMPORTANT - only 110° nozzles can be used. Use of the wrong degree nozzle will cause mis-application and possible crop damage.

NOTE:

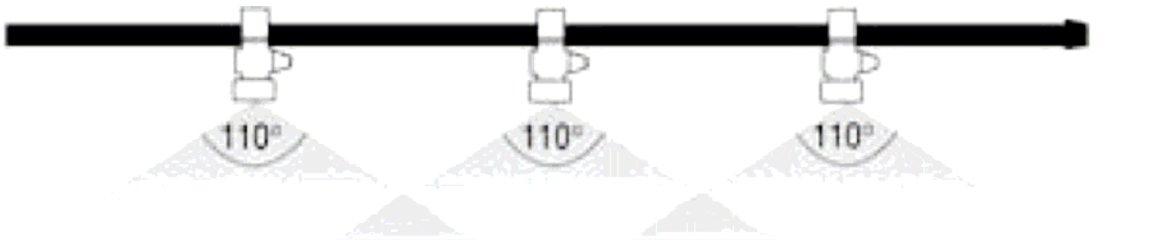
- 1) Replace nozzles at least annually to ensure accuracy of application.
- 2) Do not use a nozzle smaller than 06 in the hand lance, as this will damage the pump and invalidate The warranty.

Speed of Travel and Calibration

For ease of use, the Evensprey 300 has been designed to minimise the variable associate with sprayer calibration. The table on the previous page explains the output with the standard nozzles and the output achievable using other nozzle options. The Evensprey 300 pump delivers a constant flow, but walking speed over the ground is a variable that needs to be controlled in order to deliver an even and accurate application rate. The Evensprey 300 is designed for use at 2.25 mph or 1 metre per second (a comfortable walking speed), when boom spraying.

Nozzle Overlap

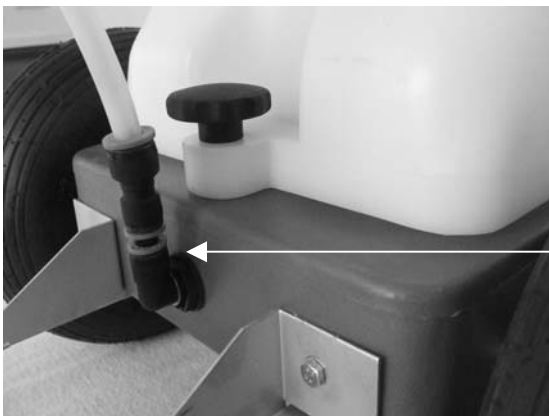
Flat fan spray nozzles are designed to overlap. For accurate spraying, it is recommended using a spray pattern indicator. This allows the operator to clearly see the area covered.



Hand Lance Information

To assemble the hand lance, simply connect the free end of the lance to the connector exiting the front of the Evensprey 300 (**picture 4 below**). The blue-ended pipe connector fittings are attached by pushing the pipe firmly into the connector. To remove the pipe, place one hand on the fitting, whilst pushing with two fingers, the spring loaded blue part towards the barrel of the fitting. Push the pipe inwards into the fitting and then pull back sharply and the pipe will come free.

Picture 4



The hand lance can be used whilst the spray boom is still attached to the machine. The standard hand lance is fitted with a standard **white** flat fan 10/80° nozzle.

WARNING

During hand lance operation, the pump is designed to stop when the hand lance trigger is in the off position. **BE AWARE** if the tank is empty or there is air trapped in the supply line to the lance, the pump can continue to run when the hand lance trigger is off and thus discharge the battery. After hand lance use, always ensure the handlebar on/off switch is in the off position.

Evensprey 300 Battery Maintenance

The machine's battery should be fully charged after every use. If the machine is out of use the battery should be charged every 3 months that the machine is sitting idle. To charge the battery:

1. Remove the rear panel from the machine to expose the battery.
2. Connect the red crocodile clip to the red terminal of the battery and the black crocodile clip to the black terminal. It is not necessary to disconnect the wiring from the terminals to do this. See **(picture 5 below)**.
3. Plug in the battery charger to mains electricity and switch on.

Picture 5



The battery charger is designed to recharge the battery overnight (12 hours will completely recharge the battery). The red light showing on the battery charger denotes the unit is on. The amber light will come on when the battery is charging. When the green light is on and solid (not flashing) the charger unit is in float standby mode and the battery is fully charged. It is safe to leave the battery charger on indefinitely, although switching it off after an overnight charge is recommended.

Cleaning of the Evensprey 300

It is recommended that the machine be thoroughly washed out after every use to avoid cross contamination of products used and to extend the pump life.

Calibration Guide

Follow the procedure below for both 4-nozzle boom and hand lance calibration.

How to check calibration - 4 nozzle boom

- 1) Ensure the battery is fully charged and 8 litres of clean water is in the tank.
- 2) Ensure all air is removed from the pipe work by spraying out approximately 2 litres of the water. This will remove trapped air.
- 3) Put a bucket or measuring beaker (sufficient to hold 2 litres) underneath each nozzle and switch on the machine for exactly one minute. If you are using the standard Blue 03/110° flat fan nozzle, the four collecting vessels should have exactly the same amount of water in each. The output into each collecting vessel will be 1.293 litres, giving a total sprayed over one minute of 5.172 litres.

The results should always replicate the information shown in the table. If the results achieved show an increase in the stated output, this is due to nozzle tip wear. If the result is more than 7% above the guide table on any of the four nozzles, replace all four nozzle tips with new ones. If the calibration test shows a reduction of output compared to the spray guide table, check that all filters are clean and repeat the above test, again making sure that any trapped air is sprayed out of the system before starting the calibration test. If the calibration test shows the output to be below 7% of the results shown in the spray guide table, contact your local Vitax dealer or Vitax direct.

Spare Parts List – Evensprey 300

Code	Description
	Electrical System
11396UK	CHARGER – 12 VOLT 2.7Ah UK WITH CROC CLIPS
11396EC	CHARGER – 12 VOLT 2.7Ah EURO WITH CROC CLIPS
11396US	CHARGER – 12 VOLT 2.7Ah USA WITH CROC CLIPS
00226	BATTERY -12V 18h – code:
13068	CHARGER PLUG – 2 POLE FOR EVENSPREY 300 CHARGER
13069	CHARGER SOCKET – CHASSIS MOUNT – 2 POLE FOR EVENSPREY 300 CHARGER
13049	LOOM 0 17.5 AMP LOOM SET
12039	CONNECTOR BLOCK
	Framework
13200	HANDLE FOR EVENSPREY 300 – INCLUDES WIRING AND BRACKET TO HOLD SWITCH
13127	AXLE – FRONT FOR EVENSPREY 300 INCLUDES ‘R’ PINS, CAPS & WASHERS
13136	AXLE – REAR FOR EVENSPREY 300 INCLUDES ‘R’ PINS, CAPS & WASHERS
13054	CHASSIS – GREEN MK II
13022	STICKER – CONTROL PANEL GREEN
11344	SPRAY BOOM ‘H’ SUPPORT
13074	SPRAY BOOM SUPPORT UPPER ASSEMBLY (SET)
13076	SPRAY BOOM SUPPORT ASSEMBLY COMPLETE
12138	AXLE – CENTRE TUBE
00522	WHEEL
12168	FRONT BUMPER MK II
11048	CLAMP – 3/4” (d) POLE CLAMP AND THUMB SCREW
00306	CLAMP FOR SPRAY BOOM SUPPORT – PACK OF 2
00293	STARLOCK – CAPPED FOR ENDS OF AXLE – PACK OF 4
00297	PIN – AXLE R PINS – PACK OF 4
00298	WASHER FOR AXLE PACK OF 4
12189	HANDLE BRACE COMPLETE WITH TUBE BUSHES, WASHERS & BOLTS
12202	HANDLE SIDE BRACE (LEFT) COMPLETE WITH WASHERS & BOLTS
12203	HANDLE SIDE BRACE (RIGHT) COMPLETE WITH WASHERS & BOLTS
12139	HANDWHEEL SET FOR HANDLE ADJUSTMENT – PACK OF TWO
12151	CLAMP – HANDLE CLAMP
12157	HANDWHEEL – M6 X 40
	Spray System – Pump and Spray System Parts
13052	PUMP- SHURFLO 2088-343-135- CODE:
00470	TUBE – 8MM NATURAL PU – BULK
11073	TUBE – 4MM NATURAL PU – BULK
12056	TUBE – 10MM CLEAR 9BULK)
13027	ADAPTOR – 10MM BULKHEAD ELBOW
13035	PRESSURE GAUGE – GLYCERINE FILLED
13061	ADAPTOR – 10MM TO 8MM STEM ‘Y’ REDUCER
13062	VALVE - 2 PORT 8MM 2/2 BALL VALVE
13062	VALVE - 2 PORT 8MM 2/2 BALL VALVE /REGULATOR TAP
13071	ADAPTOR – ¼” OFF-SET MALE TEE
13079	PRESSURE GAUGE – GLYCERINE FILLED COMPLETE WITH FITTING

	Spray Valve & Boom Parts
13100	SPRAY BOOM FOR EVENSPRAY 300 COMPLETE
00247	NOZZLE FILTER – BLUE (MESH SIZE – 510) PACK OF 5
00275	NOZZLE SEAL – PACK OF 5
00250	SPRAY VALVE – DIAPHRAGM (ARAG)
00294	DIAPHRAGM (ARAG) FOR SIDE OF SPRAY VALVE – PACK OF 5
13062	VALVE – 2 PORT 8MM 2/2 BALL VALVE
13064	SPRAY BOOM CONNECTOR MOUNT (CENTRE PIECE)
13077	SPRAY VALVE COMPLETE FOR EVENSPRAY 300 BOOM
13078	SPRAY BOOM CENTRE MOUNT COMPLETE FOR EVENSPREY 300
11091	NOZZLE CAP ¼” BSP FEMALE THREAD
11121	SPRAY VALVE – FOR SPRAY BOOM (10MM SPIGGOT)
04031	NOZZLE TIP VP 04F110-RED
04032	NOZZLE TIP VP 03F110 - BLUE
04033	NOZZLE TIP VP 03F110 – YELLOW
00432	NOZZLE SEAL
00440	NOZZLE CAP
00480	NOZZLE FILTER – STAINLESS STEEL 50 MESH
13061	ADAPTOR – 10MM TO 8MM STEM ‘Y’ REDUCER
12054	SCREW – M6 X 35 HEX SET SCREW ZP
12198	ADAPTOR – 12MM TO 10MM REDUCER
12078	ADAPTOR – 10MM DOUBLE MALE STEM CONNECTOR
12157	HANDWHEEL – M6 X 40
11303	HANDWHEEL – M6 X 15MM MALE.
00474	STRAINER – COMPLETE WITH FITTINGS
00477	STRAINER
	Tank & Storage Compartment
13010	STORAGE COMPARTMENT – COMPLETE WITH CAP
11292	LID FOR STORAGE COMPARTMENT
13015	SCREW – 6 X ¾ POZI PAN SELF TAP ZP
13009	LID – BLACK FOR 30 LTR TANK
13021	STICKER – ENENSPRAY 300 OVAL FRONT PANEL
13032	STICKER – LITRE MARKING IN GREEN
12000	TANK – MK 11 30 LTR WATER TANK
12135	HANDWHEEL FOR LOCKING TANK INTO PLACE
12002	FILTER – BASKET FILTER 95MM
12001	NOZZLE CAP – BLANKING CAP FOR 30 LTR WATER TANK OUTLET
12081	TANK – MAIN WATER TANK FOR EVENSPRAY 300 – INCLUDES ALL TANK FITTINGS
	Other
00249	CARTON FOR EVENSPREY 300
13065	HANDLANCE