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EVENSPREY PROFESSIONAL

OPERATOR'S MANUAL

VITAX LTD



Vitax Limited
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UK & EC DECLARATION OF CONFORMITY

Herewith we declare that the machinery described below is in accordance with the relevant health and safety requirements of “The Secretary of State” and “The EC Council Directives” concerned with the supply of machinery compatibility. No alterations are to be made to the machine without the prior consultation and approval of Vitax Limited otherwise this Declaration may become invalid. This equipment must be commissioned, used and maintained strictly in accordance with the operating and maintenance instructions issued with the machine. Operators must be trained in accordance with the recommendations given in the operating and maintenance instructions issued with the machine.

Description of machine:	EVENSPREY PROFESSIONAL
Machine Serial number:	As per the build sheet (<i>supplied</i>)
Date of supply:	As per invoice date
Relevant EC Council Directives:	Machinery Directive 2006/42/EC and Subsequent amendments.
Relevant Secretary of State act:	The Supply of Machinery (<i>Safety</i>) Regulations 2008.

Issued on 7th May 2021 by *A. Gurney* on behalf of Vitax Ltd.

Signed - *A. Gurney*

Position of signatory: - *Operations Director*

INTRODUCTION

IMPORTANT - PLEASE READ THIS MANUAL BEFORE USE

This is essential if you are to learn how to operate this equipment correctly. Failure to do so could result in personal injury or equipment damage.

This manual should be considered a permanent part of the equipment and should remain with the machinery if sold on.

INTENDED USE/DISCLAIMER

The Evensprey Professional is designed for use as a chemical/fertiliser sprayer. Use in any other way is considered as contrary to the intended use. The manufacturer accepts no liability for damage or injury resulting from misuse and these risks must be borne solely by the user.

The Evensprey Professional should only be operated, serviced and repaired by persons familiar with its characteristics and acquainted with the relevant safety features (accident prevention).

INTRODUCING THE EVENSPREY PROFESSIONAL SPRAYER

Thank you for purchasing the Evensprey Professional Pedestrian Sprayer. We recommend the use of Vitax products or products of equal high quality. Use of inferior products could result in machine failure which could invalidate the machines warranty.

This instruction booklet includes the following information:

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

Evensprey Professional Machine Assembly

The Evensprey Professional comes ready for use straight out of the box.

Evensprey Professional Boom Assembly

The 2.1 metre, Multi-head nozzle boom is detached from the main frame of the machine for transportation. The boom mounts are designed in two parts to enable height adjustment and to enable the user to remove the boom if required whilst in 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 over the two small diameter tubes of the lower boom mount (**picture 1**)
- Tighten the D-clamp thumbscrews to secure the boom in place (**picture 2**)
- Push the Multi 'T' onto the upright 10mm metal tube (**picture 3**)
- Secure the multi 'T' into the terry clip of the lower mount (**picture 4**)

Picture 1



Picture 2



Picture 3



Picture 4



The Evensprey Professional is now ready for use.

Machine Operation and User Application Guide

Multi-Nozzle Spray Boom.

The multi nozzle spray boom on the Evensprey Professional offers the operator flexible application rates with its ability to interchange between nozzles and adjust the inline pressure. The Evensprey Professional boom is supplied and fitted with twisting triple head spray valves, meaning changing between nozzle outputs is just a twist away. The machine is supplied with standard Blue 03/110°, Red 04/110° and Brown 05/110° flat fan nozzles. See the spray guide table on page 6 for nozzle outputs.

Head in 'SPRAY' position



Head in 'OFF' position



You can determine how many spray heads you use, depending on accessibility, and area to be sprayed by shutting off each head individually and adjusting the inline pressure to suit. This means the Evensprey Professional can be a five, three, or single head sprayer by the twist of a spray head.

Evensprey Professional Pressure Valve and Pressure Valve Adjustment

The Evensprey Professional is fitted with a pressure gauge (**picture 5**) and an inline pressure control valve (**picture 6**). These are located on the back plate of the machine (**picture 7**) 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 result of this is that the exact application rate can be achieved.

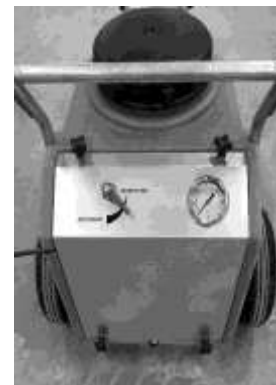
Picture 5



Picture 6



Picture 7



Adjusting the Inline Pressure

IMPORTANT - When adjusting or setting the inline pressure this action must be carried out using water only, and suitable containers under each spray valve

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 5 on previous page**) at the same time as turning the valve (**picture 6 on previous page**), 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 Professional 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 (5 nozzles)</i>
Brown 110°/05	1.633 litres per minute	2.0 bar	8.165 litres per minute
Red 110°/04	1.453 litres per minute	2.5 bar	7.265 litres per minute
Blue 110°/03	1.293 litres per minute	3.5 bar	6.465 litres per minute

The table above is accurate to +/-2.5%

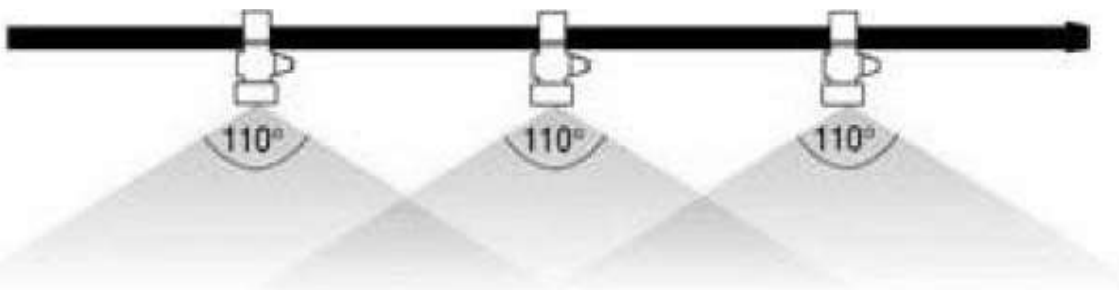
NOTE: by adjusting the pressure at the pressure regulator valve, different outputs can be achieved with different nozzles. Do not use nozzles at a lower pressure than recommended by the nozzle manufacturers. Always use a nozzle tip filter in the diaphragm check valve assembly and ensure they are kept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

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.



Height Adjustment

The Evensprey Professional 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 50cm (19½ inch) from the top of the crop to the nozzle tip.

Cleaning of the Evensprey Professional

It is recommended that the machine pipe work, strainers and nozzle filters are thoroughly washed out after every use to avoid cross contamination of products and to extend the pump life. Follow the guidelines below:

1. Always read and comply with the manufacturer's instructions for the handling of the product being sprayed.
2. Empty the contents of the tank into a suitable container via the drain bung at the side of the machine.
3. Fill approximately 5 litres of cleaning fluid/water into the tank and rock the tank gently back and forth to clean the tank.
4. Spray approximately 2 litres of the cleaning fluid through the machine as normal.
5. Undo the drain bung at the side of the machine to empty the remaining cleaning fluid out of the tank.
6. Repeat stages 3,4 and 5 again to make sure all residue is removed.

Speed of Travel and Calibration

For ease of use, the Evensprey Professional has been designed to minimise the variable associate with sprayer calibration. The table on the previous page explains the output with the standard nozzles supplied with the machine. The Evensprey Professional 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 Professional is designed for use at 2.25 mph or 1 metre per second (a comfortable walking speed), when boom spraying.

How the check calibration - 5 nozzle boom

- 1) Ensure the battery is fully charged and at least 10 litres of clean water are 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 five 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 6.465 litres.

The results should always replicate the information shown in the table on page 6. 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 five nozzles, replace all five 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.

Evensprey Professional 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) Plug the output lead on the battery charger unit into the charger socket, which is found on the back of the switch, as seen in the picture 7 below.
- 2) Plug the battery charger into a mains electricity socket and switch on.



The battery charger is designed to recharge the battery overnight (12 hours will completely recharge the battery). The charger has the following led protocol:

RED – STATIC = Bulk charge mode.

GREEN – STATIC = Float charge mode / charge complete.

RED/GREEN – STATIC = open circuit / no battery connected.

RED FLASHING / GREEN STATIC = reverse polarity.

RED / GREEN FLASHING ALTERNATELY = short circuit.

RED FLASHING ONLY = battery disconnected whilst charging / trickle charge / low battery voltage detected.

GREEN FLASHING ONLY = time out forced end of charge.

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.

Evensprey Professional spare parts

Code	Description
	Electrical System
11395UK	CHARGER – 12 VOLT 1.5Ah UK
11395EU	CHARGER – 12 VOLT 1.5Ah EURO
11395US	CHARGER – 12 VOLT 1.5Ah USA
00226	BATTERY -12V 22h
00339	WIRING LOOM
00274	SWITCH CASE COMPLETE
11182	FUSE – 15AH BLADE FUSE
	Tank & Framework
15299	HANDLE FOR EVENSPREY PROFESSIONAL
11216	AXLE – FRONT FOR EVENSPREY PROFESSIONAL
11215	AXLE – REAR FOR EVENSPREY PROFESSIONAL
15284	REAR AXLE PLATE (<i>SINGLE</i>)
15286	CHASSIS/TANK – GREEN
14005	8” TANK LID
14006	8” BASKET FILTER
15301	STICKER – PRESSURE
13057	SPRAY BOOM SUPPORT (<i>SINGLE</i>)
11342	CROSS BAR (<i>FOR SPRAY BOOM SUPPORT</i>)
14004	REINFORCING TUBE (<i>TUBE SUPPORT PIPE UNDER TANK</i>)
15285	SUPPORT PLATE (<i>FOR REINFORCING TUBE – SINGLE</i>)
00522	WHEEL
15282	EVENSPREY PROFESSIONAL FRONT BUMPER
11048	‘D’ CLAMP AND THUMB SCREW
00306	‘D’ CLAMP AND THUMB SCREW– 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
15103	HANDLE SIDE BRACE (<i>SINGLE</i>)
11053	TANK BUNG - 1/4” BSP END PLUG
15283	BACK PLATE
11303	HANDWHEEL M6 X 15MM (<i>FOR BACK PLATE – SINGLE</i>)
	Pump & Strainer parts
15322	PUMP- SHURFLO CODE 5059-3611-D011
11073	TUBE – 4MM NATURAL BULK (<i>1 METRE</i>)
12056	TUBE – 10MM NATURAL BULK (<i>1 METRE</i>)
15288	VALVE – 2 PORT PRESSURE REGULATOR VALVE
15323	7 BAR PRESSURE GAUGE – GLYCERINE FILLED
15279	ADAPTOR – MULTI ‘TEE’ (<i>ON THE FRONT OF THE MACHINE</i>)
00236	STRAINER
12079	ADAPTOR – 10MM EQUAL ELBOW
12075	ADAPTOR – 10MM STEM ELBOW
12077	ADAPTOR – 10MM TO 1/4” BSP SWIVEL ELBOW
12091	ADAPTOR – 10MM TO 1/2” BSP

13025	ADAPTOR – 10MM TO 1/2” FEMALE ELBOW
00619	ADAPTOR – 10MM EQUAL ‘TEE’
13059	ADAPTOR – 10MM RUN SWIVEL ‘TEE’

Code	Description
	Pump & Strainer parts (cont’)
12076	ADAPTOR – 10MM TO 1/4” BSP
13060	ADAPTOR – 4MM TO 1/8” BSP FEMALE
15280	ADAPTOR – 4MM TO 1/4” BSP FEMALE
12074	ADAPTOR – 4MM STEM ELBOW
	Spray valve parts
15294	3 WAY NOZZLE HOLDER
00480	NOZZLE FILTER – BLUE – STAINLESS STEEL 50 MESH
00247	NOZZLE FILTER – BLUE – STAINLESS STEEL 50 MESH – PACK OF 5
00432	NOZZLE SEAL
00275	NOZZLE SEAL – PACK OF 5
00250	SPRAY VALVE – DIAPHRAGM (ARAG)
00294	SPRAY VALVE – DIAPHRAGM (ARAG) – PACK OF 5
04001	NOZZLE TIP VP 04F110 – RED
04035	NOZZLE TIP VP 03F110 – BLUE
04041	NOZZLE TIP VP 05F110 – BROWN
15291	NOZZLE CAP – RED
15292	NOZZLE CAP – BLUE
15293	NOZZLE CAP – BROWN
	Spray boom parts
11081	SPRAY BOOM CENTRE MOUNT BODY (<i>CENTRE PIECE OF BOOM</i>)
13078	SPRAY BOOM CENTRE MOUNT COMPLETE (<i>WITH CAP & FITTING</i>)
00432	NOZZLE SEAL
11091	NOZZLE CAP ¼” BSP FEMALE THREAD
00433	ADAPTOR – 8MM TO ¼” BSP STRAIGHT
00470	TUBE – 8MM NATURAL BULK (<i>1 METRE</i>)
15297	HINGE - CANOPY END CAP (<i>DOUBLE ARM</i>)
15298	HINGE – CANOPY CLAMP (<i>SINGLE ARM</i>)
12350	SCREW – M6 X 12MM HEX SET ZP
15126	LOCKING RING (<i>EACH END OF THE CENTRE BOOM</i>)
15127	SCREW – 8MM GRUB SCREW FOR LOCKING RING
11017	‘U’ BOLT (<i>HOLDS CENTRE BOOM IN PLACE</i>)
15287C	700MM ALUMINIUM BOOM (<i>CENTRE BOOM</i>)
15287L	700MM ALUMINIUM BOOM (<i>LEFT SIDE FROM BACK OF MACHINE</i>)
15287R	700MM ALUMINIUM BOOM (<i>RIGHT SIDE FROM BACK OF MACHINE</i>)
	Misc parts
00249	BOX FOR EVENSPREY PROFESSIONAL
11154	CRIMP – YELLOW BULLET FEMALE
11119	CRIMP – RED BULLET MALE
11120	CRIMP – RED BULLET FEMALE
15290	STICKER – FRONT OVAL STICKER
15289	STICKER – SIDE RECTANGULAR STICKER
11259	CABLE – 3 CORE BLACK (<i>1 METRE</i>)

NOTES



WWW.SUPATURF.CO.UK

Visit our website for more information on our range of line marking machines and line marking liquids. Also available are informational videos offering demonstrations of Supaturf line marking machines and some trouble shooting guides.

ONLINE SPARE PARTS SERVICE

Comprehensive ranges of spare parts for all Supaturf line marking machines are available. If you require spare parts for your machine, visit the website where you will find a complete listing for each machine.

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