

LIQUID FERTILIZER

LF 600 M1

LIQUID AGENT DOSAGE MADE EASY

APV



AMBITION. PASSION. VISION.

OPERATING MODE



OPERATING PRINCIPLE

The main focus of the machine is on user-friendliness and exact dosage of all liquid agents commonly used in agriculture. The spread rate setting is conveniently adjusted via the Control Box 5.2 and can be changed as needed during operation. Sensors can additionally be used for speed and excavation guided application. Its strength lies in its interoperability with other work processes like seeding, care or soil tillage. This saves additional passages and increases yield.



NOZZLES

The nozzles that are attached in varying ways to the soil tillage implement ensure precise application within the row. The Liquid Fertilizer can be fitted with a range of nozzles, e.g.: with 1 mm, 2 mm or 3 mm spot jet nozzles. There is also the possibility of a combination with TeeJet nozzles.



APPLICATIONS

- Possible applications on arable land, grassland, viticulture, etc. (from arable to ornamental horticulture)
- Spreading effective microorganisms, liquid fertilizers or compost tea during soil tillage
- Liquid fertilizer application in combination with a grain seeder, a potato planter or other attachments
- Spreading silage additives during the pressing process or directly on the loader wagon



BENEFITS



EXACT

- Uniform distribution of liquids across the desired working width
- Exact quantity control ensured by a flow sensor
- Optical level indication by means of a float ball
- Major advantage under dry conditions, as liquid fertilizer is available to plants more quickly

VERSATILE

- The number of hose outlets can be freely selected from 2-48
- Non-required outlets can be covered with blanking plugs
- Suitable for applications in conventional and organic farming
- Optional three-point or direct installation on an attachment
- Ideal as a front-rear superstructure, because this saves a front weight

COMFORTABLE

- Speed-adapted spreading and headland management via various sensors in combination with the control box (e.g.: 7-pin signal cable, GPS sensor, linkage sensors, etc.)
- Variable regulation of the spread rate via the control box even while driving
- The entire system is 100% electrically operated
- Filling sieve prevents dirt from entering the hopper
- Agitator function for optimal liquid mixing



TECHNICAL DATA

Liquid tank	600 L
Pure water tank	15 L
Dimensions in cm (HxWxD)	130 x 145 x 80
Net weight	120 kg
Power data	12 V / 25 A
Pump flow rate	1 - 20 L / min
Maximum pump pressure	4 bar
Three-point attachment	CAT I and CAT II

ITEMS INCLUDED LF 600 M1

- Complete machine with a hose system up to the hose coupler
- Control Box 5.2
- 8 m of cable from the pump to the control box
- Flow sensor for pump control
- Filling sieve with hinged lid
- Suction filter in front of the pump
- Fresh water tank to wash hands or rinse machine
- Stirrer function by the pump
- LED lighting with indicators
- Optical level indication by means of a float ball
- Discharge function
 - With pump via control box or
 - With outlet valve at the bottom of the hopper
- 2 pieces 3-way valves
- Fast coupler for 3/4" hose connection

ITEMS INCLUDED DISTRIBUTION

HEAD

- Distribution head with 10 m hose to the LF 600
- Optional 12, 24, 36 or 48 outlet configuration
- 50 m hose to individual nozzles per 12 outlets
- 1 mm spot jet nozzle per outlet
- Manometer for pressure indication
- Fast coupler for easy and quick separation of LF and distribution head
- Angle to fix the distribution head and the manometer

LIQUID FERTILIZER LF

LF 600 M1



ADVANTAGES

- Precise distribution of liquids via the distribution head to the individual nozzles
- Precise or full-surface application of many different liquids (liquid fertilizers, microorganisms, compost tea, etc.)
- Liquid fertilizer is more readily available to the plants, thereby offering a major advantage under dry conditions
- Easy operation with ISOBUS is possible
- A wide range of outlets, nozzles, etc. gives you a lot of options.
- Ground speed-related liquid application and headland management with sensors (optional)
- Quick coupling thanks to 3-point hitch (CAT 1 and CAT 2) and the possibility of attaching to a wide range of tillage implements
- Application and soil tillage in one pass

TECHNICAL DATA

	LF 600 M1	LF 600 M1 (BIG PUMP)	
Variant of the control unit	5.2 and ISOBUS	Control Box 5.2	ISOBUS
Liquid tank	159 U.S.gallon (600l)		
Pure water tank	4 U.S.gallon (15l)		
Dimensions in inches (H x W x D)	55 x 59 x 31 (140x150x80cm)		
Net weight	331 lbs (150kg)		
Power data	12 V / 20 A		
Pump flow	0.5–5.3 U.S.gallon/min (2–20 l/min)	2.6–5.8 U.S.gallon/min (10–22 l/min)	1.6–6.6 U.S.gallon/min (6–25 l/min)
Maximum pump pressure	4 bar	3 bar	
Three-point linkage	CAT 1 and CAT 2		

STANDARD SCOPE OF DELIVERY

- Complete implement with hose system up to the hose coupler
- 20 ft (6m) cable from the pump to the Control Box
- Flow sensor for regulating the pump
- Filling sleeve on the folding lid
- Suction filter upstream of the pump
- Fresh water tank for washing hands or cleaning the implement
- Agitator function thanks to the pump
- LED lighting with indicators
- Visual fill level indicator via float ball
- Emptying function
 - With pump via Control Box or
 - With outlet valve at the bottom of the hopper
- 2x 3-way valve
- Fast coupler for the 3/4-inch hose connection



ITEM NO.	LIQUID FERTILIZER	
13001-1-000	LF 600 M1 incl. Control Box 5.2	\$ 9,764.00
13001-1-001	LF 600 M1 without Control Box 5.2 ¹	\$ 8,921.00
13001-1-002	LF 600 M1 incl. ISOBUS M2	\$ 11,044.00
13001-1-004	LF 600 M1 up to 5.8 U.S.gallon/min (22 l/min) incl. Control Box 5.2	\$ 10,592.00
13001-1-005	LF 600 M1 up to 5.8 U.S.gallon/min (22 l/min) without Control Box 5.2	\$ 9,749.00
13001-1-006	LF 600 M1 up to 6.6 U.S.gallon/min (25 l/min) incl. ISOBUS M2	\$ 11,872.00

⚠ The Liquid Fertilizer LF 600 M1 is NOT approved for applying crop protection products!

ITEM NO.	ACCESSORIES	
00410-2-148	Extension cable PS MX 6.6 ft (2m)	\$ 208.00
00410-2-149	Extension cable PS MX 16 ft (5m)	\$ 280.00
00410-2-022	Tractor cable set 26 ft (8m)	\$ 446.00
13000-2-011	Distribution head ² with 12 outlets (1 mm spot jet nozzle)	\$ 1,077.00
13000-2-012	Distribution head ² with 24 outlets (1 mm spot jet nozzle)	\$ 1,570.00
13000-2-019	Distribution head ² with 36 outlets (1 mm spot jet nozzle)	\$ 1,706.00
13000-2-013	Distribution head ² with 48 outlets (1 mm spot jet nozzle)	\$ 2,212.00
13000-3-001	Spot jet nozzle LF 0.08 in (2mm)	\$ 11.00
13000-3-002	Spot jet nozzle LF 0.12 in (3mm)	\$ 11.00
00601-3-965	Blind plug 0.32 in (8mm)	\$ 3.00
13000-2-020	Adapter for Teejet nozzle holder	\$ 21.00
13000-2-041	LF nozzle holder accessories kit	\$ 47.00
13001-2-006	ISOBUS M2 retrofit kit for LF	\$ 2,325.00

Additional outlets and nozzles available on request!

¹ You need software version 1.27 or newer on Control Box 5.2.

² Incl. hose coupler, hose system, pressure gauge and nozzles

