

Instruction Manual

MANTR100-10 REV-A 6/8/14

BOOMLESS NOZZLE KIT TO SUIT 100L REDLINE



BOOMLESS NOZZLE KIT TR100-10 TO SUIT 100L REDLINE SP100-R2

The boomless nozzle kit for the 100L Redline is fitted with a Teejet TK-VP7.5 flood nozzle and mounted in a swivel nozzle holder.

The nozzle sprays a width of approximately 3m and the application rate is controlled by varying the speed of towing vehicle.

The pump is matched to the nozzle and the pump pressure is fixed and not adjustable.

The kit is supplied with an on/off switch which can be fitted to the wiring loom of the 100L Redline within easy reach of the driver so the sprayer can be switched on and off without having to get off the towing vehicle.

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Calibration

GENERAL INFORMATION

WHEN TO SPRAY

Results will be best when wind speed is low, temperature low and relative humidity high. An ideal time is at sun up when these conditions are most likely to apply.

APPLICATION RATE

The application rate depends on the following.

- Speed of travel - increasing speed reduces application rate and vice versa.

$$\text{Application Rate (L/Ha)} = \frac{600 \times \text{Nozzle Output (l/min)}}{\text{Speed (km/hr)} \times \text{Spray Width (m)}}$$

GROUND SPEED

The speedometer on many vehicles may not be sufficiently accurate at the slow speeds used when spraying. If in doubt it should be checked by the following method.

Measure and mark a distance of 100 metres. Approach the starting mark at the required spraying speed and accurately measure the time in seconds to reach the finishing mark. The ground speed can then be calculated as follows.

$$\text{Speed (km/hr)} = \frac{360}{\text{Time in seconds for 100m}}$$

BOOM TEST (NOZZLE OUTPUT)

1. Partly fill the sprayer tank with water and mark the level or refer to the sight gauge.
2. Run the sprayer for several minutes and measure the time carefully.
3. Refill the sprayer tank to the mark using a measuring jug and record the amount added.
4. The output for one nozzle in litres per minute can be calculated as follows.

$$\text{Nozzle Output (l/min)} = \frac{\text{Litres Used}}{\text{No. Minutes}}$$

SPRAY CHART

The TK-VP7.5 nozzle has an output of 3.7 l/min when fitted to the 100L Redline SP100-R2. The spray width is approximately 3m. Based on these figures the following application rates are achieved at the following towing speeds. Always verify the speed and nozzle spray rate with water first before attempting to spray with chemical

TK-4 Application rate L/Ha				
Speed Km/Hr				
2	4	6	8	10
370	185	123	93	74