

# MODEL 15

## RAINER EFFLUENT APPLICATOR



### **A very efficient, low cost, low pressure Travelling Effluent Irrigator.**

Big features, small machines

- ▶ Fully Hot Dipped Galvanised
- ▶ Simple to Operate
- ▶ Trouble Free Rotating Drive
- ▶ Variable Travel Speeds
- ▶ Low Pressure Operation
- ▶ Also Suitable for Irrigation
- ▶ Thermoplastic Bearings
- ▶ Operates with Lay Flat and Hard Hoses
- ▶ Low Running Costs
- ▶ Application Rate as low as 5mm

IMPORTERS AND DISTRIBUTORS OF ZIMMATIC PIVOTS

MANUFACTURED IN **NEW ZEALAND**  
BY RAINER IRRIGATION LIMITED



# MODEL 15 EFFLUENT IRRIGATOR

## Effluent Applicator is Mechanically Efficient:

The Rainer Effluent Applicator performs a complex task by means of a few simple mechanisms. The retro-action of the effluent causes the boom to rotate for an even spread of effluent.

The rotation of the boom provides the motive force that propels the machine using a drive roller rotating around a series of cams which operates a simple lever mechanism to the wire rope winch drum.

## Effluent Applicators Performance:

The Rainer Model 15 Effluent Applicator dragging a 150 metre length of 63 mm medium density polyethylene hose operating at a flow rate of 20m<sup>3</sup>/hr (75 gpm) with a wetted width of 35 metres, will on its fastest travel speed of 85m/hour apply effluent onto the ground at a rate of 6.7mm per pass. On the slowest travel speed of 17m/hour this applicator will apply 34 mm of effluent per pass.

Based on a 500 cow herd producing 25 cubic metre of effluent daily, for a 25 mm application this applicator would only have to operate for 1.25 hours per day.

The machine would take 10.5 days to complete a full 300 metre run before being shifted to a new location. Effluent is applied at less than 2 metres from the ground surface; this is environmentally acceptable to the regional councils throughout New Zealand.

## Effluent Applicators Features:

Rainer effluent applicators are manufactured to very high engineering and dimensional standards with each component being identical to one another. All bearings are manufactured from high molecular weight thermoplastic which are very abrasive and corrosive resistant and are an excellent medium to transfer the working loads of this machine.

A 316 stainless steel wear sleeve is fitted around the inner tower assembly to provide an improved wear surface; this sleeve can be easily replaced when required.

The upper tower assembly contains a Y junction to help prevent any build up of solid material accumulating at this point. The boom itself is segmented to allow for ease of dismantling if

required. Rubber drive nozzles allow for large size segments of solid material to pass without causing any blockages. A very simple sealing arrangement is provided to prevent any effluent from entering into the tower area.

An automatic starting mechanism and a forward travel release are provided to allow for ease of operation of this machine.

With the 15 metre long boom, this applicator can provide substantially more torque than is required to pull the 150 metre of 63 mm diameter drag hose, and can easily start under load at any point along its travel path.

With the machine pulling up to 150 metres length of hose, with a central supply, a 300 metre run can be achieved.

## SPECIFICATIONS:

Boom Length	15 metres
Wetted Width	35 metres
Lane Spacings	35 metres
Hose Length	Up to 150 metres
Run Length	Up to 300 metres
Hose Diameter	Up to 63mm
Flow Range	2 to 6 L/s
Operating Pressure	150 to 250 k.p.a. (20 to 30 psi)
Travel Speeds	17 to 85 metres per hour
Area Covered	1.05 hectares (300 Run)

*Figures are for reference purposes and are not binding in detail. We reserve the right to introduce changes to the specifications of the machine without prior notice.*

## DISTRIBUTOR:

MANUFACTURED IN NEW ZEALAND BY RAINER IRRIGATION LIMITED

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