

EFFICIENT AND ENVIRONMENTALLY FRIENDLY

VALUE IN EFFLUENT

THE BENEFITS OF EFFLUENT

A well designed system and management plan will enable as much as 80 to 90% retention of the nutrient value. The organic matter in the effluent will also improve soil water holding characteristics, aeration and drainage and will make soil less prone to compaction and erosion.

Research shows that 1kg N from effluent is equivalent to 1kg N from Urea, in terms of pasture production, composition and nitrate leaching. Therefore farm dairy effluent can produce good pasture response, up to 10 to 15kg DM per kg N applied in effluent.

ESTIMATED NUTRIENTS IN EFFLUENT FROM 100 COWS (KG/YR)*

No feed pad – farm dairy effluent

	N	P	K
All grass system (milking 270 days twice a day)	590	70	540
Feeding 2tDM/ha of maize silage in paddock	668	80	668

Using a feed pad – farm dairy effluent plus feed pad effluent (feeding 2tDM/ha of maize silage)

TIME ON PAD	N	P	K
1/2 hour on pad per day	838	100	868
1 hour on pad per day	1008	120	1044

NUTRIENT	SOLID FERTILISER EQUIVALENT OF EFFLUENT FROM 100 COWS (all grass system - as above table)
N	1,3 t of Urea
P	0,7 t of superphosphate
K	1,1 t of MoP (50% potash)
Mg	0,2 t of MgO

NUTRIENT	SOLID FERTILISER EQUIVALENT OF EFFLUENT FROM 100 COWS (feeding 2tDM/ha of maize silage on a feed pad, 1 hr per day)
N	2,2 t of Urea
P	1,3 t of superphosphate
K	2,1 t of MoP (50% potash)
Mg	0,3 t of MgO

Figures are estimated using the Overseer nutrient budget model, figures will vary from farm to farm. Testing the effluent from your farm will confirm the nutrient values.

*Source: DairyNZ and Environment Waikato's "A guide to managing Farm Dairy Effluent".

SLURRY SPREADER

Top quality components ensure constant, reliable handling of effluent, day in and day out. The tank is manufactured from heavy plate steel, with 6mm domed ends and a strong integrated chassis giving the tank support throughout its entire length.

KEY FEATURES

- Battioni Pagani vacuum pump
- Tandem or single axle
- Strong integrated chassis and drawbar
- Internal baffle plate to prevent surging
- Separate filling points
- Access points for easy cleaning
- Level indicator
- Lightweight sectioned suction hoses for easy handling
- Brass and galvanised fittings for corrosion protection
- Double moisture trap system
- Epoxy paint inside the tank to reduce corrosion

OPTIONAL EXTRAS

- Brakes
- Side delivery discharge nozzle
- Auto-fill system with pump actuation
- Quick hose coupler
- Hydraulic driven vacuum pump
- Various wheel options
- Sprung/steering bogey axle assemblies
- Hydraulic suspension drawbar
- Internal tank agitation
- Upgrade to 200mm suction hoses
- 200mm hose lifter/transport rack
- Turbo filler
- Mudguards
- 75mm trough cleaning kit



Italian Battioni Pagani rotary vane vacuum pumps are standard equipment, featuring rugged design, high airflow capacity and low maintenance requirements.



Domed ends are 6mm steel plate, double butt welded into the tank cylinder. Hydraulic suspension can be fitted to the drawbar, it can also be used to increase the angle of the tank by 3 degrees.



Galvanised quick coupling hose connectors offer an easy hook up and decoupling system for the suction hoses with minimal hassle or mess.



Reinforced rubber suction hoses are designed to withstand the forces of full vacuum, and are supplied in 4m lengths for ease of handling.



Auto-fill system with pump actuation.



Add Technology with a flow-meter and touch screen to create GPS coverage maps of each job for proof of placement recording.

MODEL	5000	7500	10000	12000	15000	20000
Tank Diameter	1,60m	1,60m	1,80m	2,00m	2,00m	2,00m
Tank Length	3,10m	4,30m	4,40m	4,10m	5,06m	6,66m
Tank Capacity	5250 litres	7700 litres	10050 litres	12050 litres	15050 litres	20000 litres
Baffles	1	1	1	2	2	3
Tare Weight	2130kg	2600kg	3750kg	3900kg	4400kg	7700kg
Overall Length	5,45m	6,7m	6,8m	6,5m	6,85m	8,5m
Overall Height	2,40m	2,45m	2,90m	3,10m	3,10m	3,20m
Overall Width	2,50m	2,50m	2,50m	2,80m	2,80m	2,65m
Pump Capacity	6500 l/min	8000 l/min	12000 l/min	12000 l/min	12000 l/min	12000 l/min
Pump Lubrication	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Hose Size	150mm (6")	150mm (6")	150mm (6")	150mm (6")	150mm (6")	200mm (6")
Hose Length	4m (x2) plus 3m probe	4m (x2) plus 3m probe	4m (x2) plus 3m probe	4m (x2) plus 3m probe	4m (x2) plus 3m probe	4m (x2) plus 3m probe
Filling Points	3	3	3	3	3	3
Manhole Access Points	2	2	2	2	2	2
Axle Type	Tandem	Tandem	Tandem	Tandem	Tandem	Triple
Axle Size	60mm (6 stud)	70mm (8 stud)	80mm (8 stud)	90mm (8 stud)	90mm (8 stud)	130mm (10 stud)
Wheels	400/60 x 15.5	400/60 x 15.5	400/70 x 22.5	400/70 x 22.5	400/70 x 22.5	560/60 R22.5