Dairypower Smart Slurry
Aeration System

“Increasing Nitrogen Values up to 50% DM & Ammonia Nitrogen Values up to 70% DM”
The Dairypower Smart Slurry Aeration System is now established as being the most cost effective and environmentally friendly method of keeping slurry in a homogenous pumpable state that is always ready to spread. The system introduced to the Irish market in 1998 is now established as a market leader in Ireland with over 600 systems in operation. The system is approved by the Irish Department of Agriculture under the Tams On Farm Investment Schemes.

**Drive Unit Features**

The electric drive unit is designed for a long and trouble free life with low noise level. The roots blower pump is protected by a suction filtration system, helping to extend the lifetime of all components. The system operates on a high volume low pressure basis (5 PSI Approx) so the smooth operation does not disturb the animals. Adjustable air pressure makes it possible to optimize each plant to actual conditions.

**Pipework Features**

The pipe we use is 50mm class D UPVC which neither corrodes nor degrades. The pipework is fixed to the tank floor by stainless steel brackets and stainless steel bolts. Each supply pipe feeds an outlet-branch which has self-closing neoprene non-return outlet valves which open when the air is supplied from the pump.

**Rotary Valve Features**

Dairypower has now developed and patented a very simple trouble free electric rotary valve which operates on 24 Volts. The blower pump supplies air through a manifold to the rotary valve which in turn distributes air through the 50mm uPVC piping to an outlet-branch which aerates a section of the slurry tank for a set period of time. The rotary valve then simply rotates to distribute air to the next outlet-branch and continues in sequence until the entire tank is aerated.
Main Benefits

- Increasing Nitrogen Values up to 50% DM (Proven in Trials)
- Ammonia Nitrogen Values up to 70% DM (Proven in Trials)
- Does away with the need for a tractor agitator and the dangers accompanying it
- Eliminates the Dangers of Gases associated to Agitating Hydrogen Sulphide (H2S), etc.
- Complete consistency – in the distribution of slurry nutrients
- Improved palatability of grass
- Reduces Fertilizer Costs. The introduction of oxygen also helps to reduce the loss of nitrogen from the slurry which makes the slurry a more valuable asset, reducing the need for chemical fertiliser
- Slurry is in an ideal state to be used with low emission slurry spreading equipment i.e. dribble bar, shallow injection spreader, trailing shoe
- Slurry is maintained in a homogeneous, easy-to-manage state
- Grass has a better regrowth rate after spreading