

## Fact Sheet - Dairy Farming

### The Problems

- Milk yield is closely related to water quality, availability and intake. A lack of water can lead to reduced dry matter intakes, lower milk yields and a loss in body condition.
- Research has shown that aesthetic pollutants such as iron, manganese and hydrogen sulphide are the most common water-related causes of problems with dairy herds. These pollutants cause tastes or odours that result in reduced water intake and milk production. Other pollutants, such as nitrates or heavy metals, can cause health problems in dairy herds.



- Water is the single most important requirement for cows at pasture, and during warm weather, providing enough good quality water is more important than ever.

- Milk is composed of nearly 87% water and lactating dairy cows need at least 60 litres each per day with some high yielding cattle needing up to 100 litres.
- Cows also have a sensitive sense of smell and will choose not to drink tainted or dirty water.
- Microbiological and organic biofilm is problematic in the agricultural sector, and especially the dairy sector, the drinking water quality of animals is often neglected. The drinking water may be contaminated with bacteria, which are present in the drinking water systems that are covered with microbiological and organic biofilm.

### The Aquapulse Benefits

- Increased water intake per head of cattle, resulting in increased milk yield.
- Treated water more readily absorbed by animals.
- Naturally clean water lines, reducing the risk of pathogens.

- Suspended pollutants reduced to nano-particles and easily flushed from storage tanks.
- Significantly reduced risk of legionella in water storage tanks.
- Reduction or elimination of biofilm in water storage tanks.
- "Happier" animals.



## Frequently Asked Questions

### **Q. Does Aquapulse contain any chemicals ?**

A. No, it is a totally natural solution and contains no chemicals, toxicants, or artificial additives.

### **Q. Will Aquapulse change the PH of water ?**

A. No, it changes only the physical properties of water, causing water molecules to resonate.

### **Q. How long does the product last ?**

A. It remains effective for two years, after which time it is returned to our factory for replenishment and replaced with a new cartridge.

### **Q. Does it have any other agricultural benefits ?**

A. Yes, it can be used in grown produce to reduce water consumption and volume of fertilisers and accelerants. Improved crop quality, crispness, and taste where also noted. It has also been tested on hens' water supplies and increased egg production was evident.

### **Q. Cows traditionally produce less milk in the colder, darker, winter months. How does Aquapulse help ?**

A. Our trials in the UK demonstrated an increase in milk production per head when tested over a four month period, from November 2017 until February 2018.

[www.clearworldwater.co.uk](http://www.clearworldwater.co.uk)

References - <https://www.dairyglobal.net/Articles/General/2017/4/Good-quality-water-An-essential-nutrient-for-dairy-cows-119842E/>

<https://dairy.ahdb.org.uk/media/10351/effectiveuseofwaterondairyfarms.pdf>