

Zdzisław JAŃCZAK Manager at PAMAL Broiler Farm POLAND



**VACCINATION · MEDICATION · ACIDIFICATION · SUPPLEMENTATION
WATER SYSTEM SANITATION**

Management of broiler health through drinking water

For over 20 years, Zdzisław JAŃCZAK has been raising broiler poultry. He manages more than a dozen modern poultry houses, after an extensive experience in poultry feed processing.

The PAMAL poultry farm includes 19 houses. Capacities range from 20,000 to 37,000 broilers. Drinking water is essential for animal welfare. It plays a key role in poultry health and performances. It also serves as a major method for administering vaccines and treatments.

Until recently, each house was equipped with standard dosing pumps. However, their service life could be significantly reduced. This was due to intensive use (36 days in a 39-day cycle) and high daily water consumption (up to 12,000 L/day). It was also due to borehole water containing high iron levels (up to 4.33 mg/L). This is a common characteristic in many regions of Poland.

Over time, mechanical wear affects equipment installed on the water lines. This can occur sometime before 1 year of intensive use (dosing pump motors & water meters). This wear is linked to water quality. It is also linked to the millions of liters passing through the equipment each year. The first signs appear as reduced performance at lower flow rates. This is especially visible during the day-old chick stage. This is a critical period when up to 70% of vaccines and treatments are administered.

Mr JAŃCZAK therefore contacted his Dosatron dealer, HODOWSCA sp. z o.o., 5 years ago. The dealer recommended the Dosatron DIA4AL diaphragm motor pump. Designed for intensive use, it can operate at very low water flow. It also handles mineral loaded water containing iron, manganese, and hardness. This technology significantly increases pump life cycle. It also reduces maintenance costs. After extended testing, the pump proved efficient. It required little & lower cost basic maintenance every 2 years only.

Consequently, all broiler houses were equipped with DIA4AL models. One additional Dosatron D3 dosing pump was also installed for organic acid.

Application parameters

DOSING
PUMP

1 DIA4AL + 1 D3 range
dosing pump per house
(19 houses)

SETTINGS

DIA4AL set at 1%

ADDITIVES

- Gumboro vaccines
- Electrolytes (rehydration)
 - Organic acids
 - Vitamin cocktails
- Metaphylactic medication (if enterococcal infections)
- Sanitizer (water pipe cleaning)

DAILY WATER
CONSUMPTION

From 500 L / Day
(day 1 - 20,000 broilers)
to 12,000 L / Day
(day 39 - 37,000 broilers)



DOSATRON®
Because life is powered by water®

Since **1974**,
DOSATRON INTERNATIONAL
 has been helping to improve
 your livestock's health &
 performances by guaranteeing
 control over the dosage
 of treatments & vaccines
 administered via drinking water,
 the ideal route of administration.



DOSATRON DIA4AL + D3 PUMPS INSTALLED



Our solution

To meet the breeder's needs for vaccination, acidification, rehydration, supplementation and occasional medication from the moment day-old chicks arrive, the DIA4AL dosing pump was easily installed in bypass on the existing water system in each house. Operating without electricity using only water pressure, the DIA4AL ensures constant and reliable dosing of treatments and vaccines. This is particularly important given the significant variations in water flow caused by animal drinking behaviour.

Additives are drawn in and dosed directly in proportion to the drinking water flow. This guarantees precise and consistent administration of treatments up to the nipple drinkers, which is essential for the healthy growth of chicks.

The DIA4AL pumps have now been in daily use for five years, requiring minimal and less frequent maintenance. Only a simple routine must be followed: rinsing by injecting clean water after each use, and disinfecting both the pump and the water lines at each depopulation. Thanks to the DIA4AL pumps, Mr Jańczak saves valuable time and money on maintenance. He avoids the early replacement of his nine dosing pumps, while maintaining the precision and effectiveness of vaccinations and treatments.

Benefits:

- Significant improvement in dosing pump life cycle, with less frequent and cost-effective motor maintenance*. (3 to 4 times less expensive than other technologies).
- Start-up at very low flow rates, ensuring reliable dosing for day-old chicks.
- Improved security and efficacy of vaccinations and treatments, reducing health risks and production losses. (A single Gumboro vaccination or one medication failure can result in economic losses of several thousand euros per production cycle).

** Basic maintenance: Change the dosing seals once a year or every 500 m³*

“ The DIA4AL Dosatron dosing pump have a much longer pump life cycle with less frequent maintenance. The treatments & vaccines are administered in safer conditions from the very first days. ”

Zdzisław JAŃCZAK
Manager at PAMAL
Poultry farm



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