



# Big Dutchman®



## HydroJet

Accurate and hygienic liquid feeding system  
for baby piglets

# HydroJet – the liquid feeding system for baby piglets which meets the highest demands

The Big Dutchman **HydroJet** liquid feeding system has been specially developed for piglet rearing. The system is also capable of feeding finishing pigs and sows with piglets. It is also very well suited for use in naturally-ventilated houses.

This feeding system allows mixing and dispensing of even the smallest feed quantities – approx. 2.0 kg – with a considerably increased dry matter content (more than 30 %). This is possible due to the use of **compressed air for conveying feed**.



## Why is HydroJet so successful?

In piglet rearing, sensor feeding systems are becoming more and more significant. Such systems make it possible to feed many small and fresh feed portions several times a day, thus avoiding losses owing to infection and diarrhoea as well as a sharp decline in daily weight gain after weaning.

The frequent feed supply, however, is only one of the advantages of **HydroJet**. Further important points are **adapting the optimum feed composition** to the piglets requirements, the supply of **warm liquid feed** as well as careful and **smooth changes of feed**. All this is no problem with **HydroJet**, since liquid feed is conveyed to the trough and accurately metered out by means of compressed air. This means that there are **no residues** in the mixing tank as well as in the pipes. Remaining quantities, which otherwise would be added to the next mixture to be prepared, do not occur in this system. This is a prerequisite for the application of **multi-phase feeding** in the true sense of the word – and all this for each individual valve.

## Hygiene – HydroJet sets high standards

Optimum hygienic conditions are a basic requirement for high feed intake and feed conversion. **HydroJet** transports the feed to the trough by means of compressed air and meters it out without any residues. This means that there are no remains in the mixing

tank as well as in the pipes.

A unique facility that gives a decisive advantage over other liquid feeding systems is that **no feed pump is needed**, where feed remains could settle.



Acid fogger for tank cleaning

Our well-proven acid fogger distributes very small quantities of disinfectant solution to the tank several times a day. This way, the creation of a dirt film which would otherwise occur after longer times of use is avoided. The fog penetrates every corner of the mixing tank, thus ensuring optimum disinfection and hygiene. In addition, the feed pipes can be rinsed thoroughly by using acidified water.

The entire system is controlled by the MC 99 NT feeding computer.



Healthy piglets thanks to optimum hygiene

## HydroJet – can be installed even in the smallest feed kitchen



Pre-assembled feed unit with high-pressure tank made of stainless steel



MC 99 NT feeding computer

**HydroJet** only requires minimum space and can consequently be installed even in small feed kitchens – another advantage over traditional liquid feeding systems.

The compact high-pressure tank with a capacity of 95 litres is the heart of the new **HydroJet** feeding system. This tank and compressed air as a means of conveyance allows even the smallest feed quantities (2.0 kg) with a considerably increased dry matter content (> 30 %) to be transported and to be dispensed individually at each valve.

Experienced pig producers know that an increased feed intake especially during the first days after weaning can be secured by feeding warm liquid feed. This is no problem thanks to **HydroJet**! The baby piglet feeding system allows continuous adjustment of the feed temperature by means of feed curves (multi-phases). To avoid heat losses during mixing it is possible to warm up the tank before by means of hot water. If the water temperature is at 37°C, the feed will have a temperature of 30 to 32°C.

The system is controlled by a Big Dutchman MC 99 NT feeding computer. With its 32-bit high-performance processor it can cope with very demanding tasks – from control over feeding protocols, through to the evaluation of the entire grow-out phase.

## HydroJet with sensor trough and the correct animal-to-feeding place ratio

Practical experience shows that it is very important to feed the piglets by means of sensor troughs, so that fresh feed is always available as required (due to the pigs appetite). It is important that each piglet has approx. 8 cm of feeding space. This provides an

animal-to-feeding place ratio of 1.2 :1 at the beginning and of 2 : 1 at the end of rearing. Consequently a very uniform feed intake can be achieved within the group, and daily weight gains of more than 450 g are no longer rare.



HydroJet in combination with large group management



Sensor trough made of stainless steel with trough dividers

# The use of compressed air technology

In contrast to many other liquid feeding systems, **HydroJet** works with compressed air. This means:

- no feed pump required;
- absolutely no residues when metering out;
- no residues in the mixing tank and the feed pipes;
- multi-phase feeding at each individual valve;
- medicine can be applied at the individual valves without being wasted;
- excellent conditions for top hygiene;
- installation of feed valves outside the pens.



Compressor for the generation of compressed air



Installation of feed valves in the central passage

# Fermentation – improved feed digestibility thanks to fermented grain

To offer the piglets feed that is even easier to digest, it can be fermented beforehand in a separate tank. The feed then has an increased concentration of lactic acid, a low pH-value (approx. 4.5) and starches are pre-digested.

This means:

- greatly improved digestibility of feed;
- improved feed conversion;
- improved energy utilisation;
- increased weight gain;
- healthier pigs.



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