

HEFT

A SYSTEM FOR LARGE-SCALE EUTHANASIA OF LIVESTOCK

A scalable containerized solution for pigs and poultry during the event of an emergency.

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LESS PAIN AND STRESS



TRANSPARENCY AND VISIBILITY



EASY AND SAFE TO USE



TIME EFFECTIVE

ONE TECHNOLOGY - ALL PURPOSES

One of the great benefits of our technology is the scalability, which means the same technology can be applied to groups of animals or to one animal at the time. Size, age or other conditions doesn't matter, we have the solution. The system can be used both by loading animals manually and by loading it with crates.

Whether it's when a disease is spreading, closed borders, transportation accidents or insufficient capacity, maintained respect for the last step is our main focus. A key part of our solutions and procedures is to keep environment, staff and other farms safe.

EMERGENCY SITUATIONS

Notifiable diseases

Non-notifiable diseases

Closed borders

Transportation accidents and delays

Insufficient slaughter capacity



TECHNICAL KEY PARAMETERS

Foam capacity	3 000 liters foam per minute per module
Nitrogen gas consumption	3 400 liters per minute per module
Number of modules	14 pc (depends on design of container)
Nitrogen source	Nitrogen tube trailer or liquid nitrogen with vaporizer solution
Animal area	10 m ²
Animals per run	Example: 30 pigs of 50 kg
Internal height	110 cm
Filling time	~30 seconds



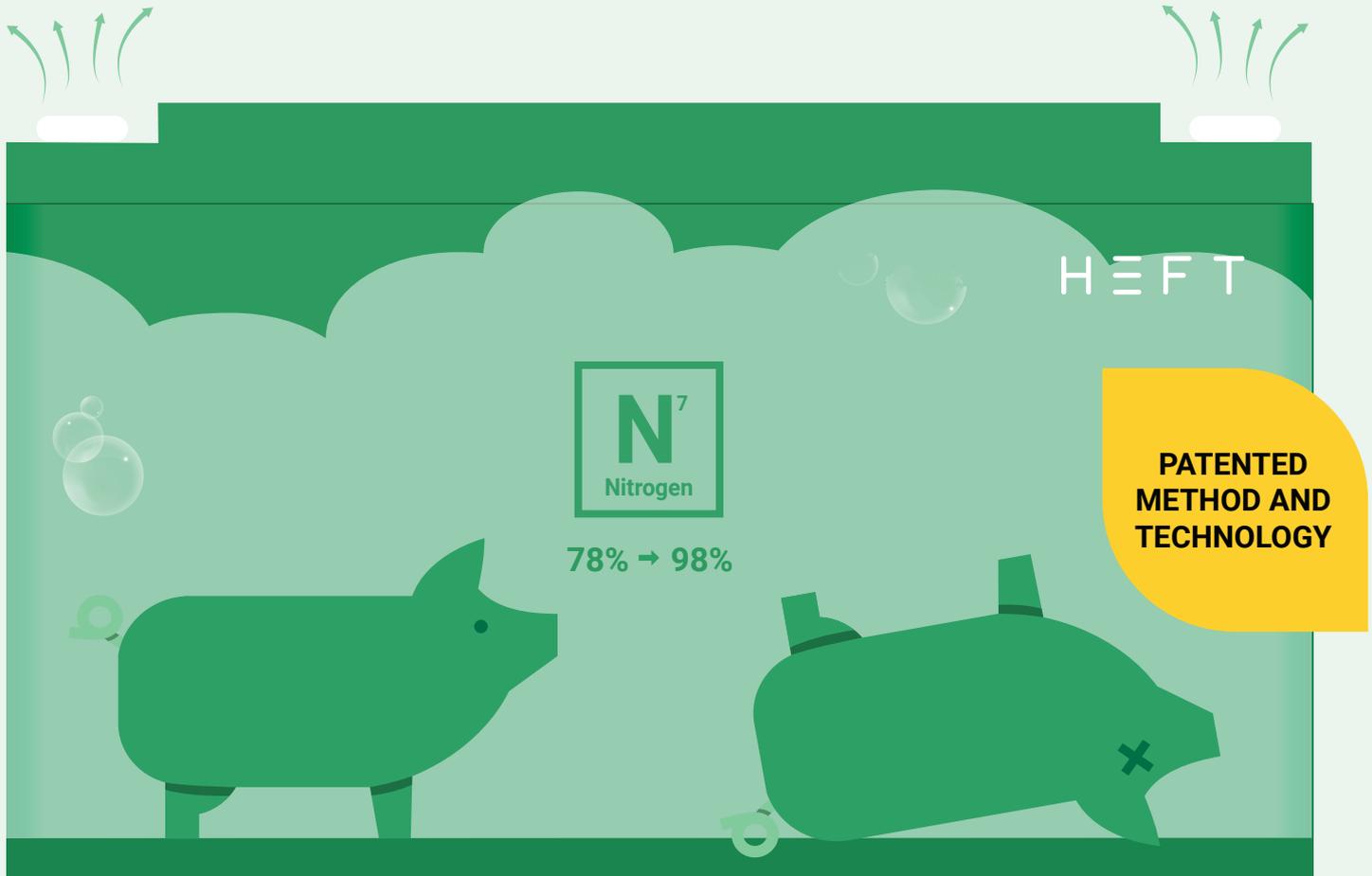
ADVANTAGE

More humane method	Nitrogen-based procedure, inflicting minimal aversion to the animal
Operator friendly	Designed to be easily operated and safe to use
Effective carcass disposal management	Solution based on a dumpster container that can be managed by a truck for easy management and driving to carcass disposal location
Consistent	Semi-automatic process guaranteeing that the same result is always achieved
Limited virus transmission and increased biosecurity	Reducing contact between animals and humans, limited dust contamination by collecting it in the foam, and adding disinfectant to the foam solution for a high level of biosecurity
Effective consumption	The HEFT system requires 3-4 less gas than flushing and requires very little foam agent per run



SUSTAINABLE SOLUTIONS TO END THE LIFE OF PIGS AND POULTRY.

Because of the respect for farm animals and animal care workers HEFT has developed a more humane method, based on science and proven methods, to improve the handling of the last step of farm animal life.



Process

- 1** In about 30 seconds the container is filled with foam. The bubbles contain 100% nitrogen.
- 2** A burst of nitrogen is added, the bubbles break and an atmosphere with only nitrogen is created.
- 3** The animals lose consciousness within 10-20 seconds and will be irreversibly stunned with minimal stress and pain.

Benefits

- High expansion foam controls the gas, pushes out the air and makes the process quick.
- No occlusion of airways due to dry and large bubbles that burst quickly to release the gas.
- Animals have no receptors that make them react to the instantaneous change of atmosphere with nitrogen levels from 78% to 98%.