



THE SPECIALIST IN SLURRY HANDLING TECHNOLOGY

- fully-automatic claw cleaning and disinfection system
- suitable for every type of cowshed
- animal-friendly system



CCS

CLAW CLEAN SYSTEM

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CCS claw Clean System

Product

In cooperation with the engineering consultancy Ingenieursbureau Heemskerk, JOZ has developed the 'Claw Clean System (CCS®)', an automatic system for cleaning and disinfecting cows' claws after every milking.

The CCS® comprises a central control unit and one or two spray units. These spray units are installed in the return corridor of the milking shed or at the exit of the milking robot.



Central unit

The central control unit is connected to the water mains and the electricity network (230V). A dosing unit ensures that the disinfectant is dosed into the water in the correct ratio and a high-pressure pump feeds the solution to the spray nozzles. The system is electronically driven.

Spray unit

The spray unit consists of a semicircular, stainless steel housing, which is fixed to the ground in the middle of the corridor. When the cows walk along the corridor, the housing is between their legs and a nozzle mounted in the housing sprays the disinfectant between the fore and hind claws.

Cow detection

A sensor located above the spray unit detects when a cow walks through the corridor and activates the disinfectant sprayer.



Operation

The CCS® is simple to operate and set. After assembly, the feed hose is simply placed in a jerry can of disinfectant and the system activated by turning a knob.

The system is self priming so that it does not have to be de-aerated during assembly or when changing the jerry can. The required dose is easy to set on the dosing unit. The CCS® subsequently disinfects the claws of every cow detected by the sensor.



CCS Claw Clean System

Advantages for the cattle farmer

- Manure rapidly fouls foot baths. Consequently, the effect of the disinfectant is poor and only short term. A negative effect may even arise. The CCS cleans and disinfects the claws hygienically.
- The cleaning of foot baths is time consuming and unpleasant. At large farms this even has to be carried out during milking. The CCS, on the other hand, works completely automatically.
- Foot baths are a source of stress to cows and, therefore, also for the milker. The CCS spray unit does not hamper the movements of the cows in any way at all.
- Continual cleaning and disinfection is a preventive approach which helps cattle farmers keep claw problems under control. In combination with the JOZ slurry scraper (clean floors), the CCS guarantees a positive result.
- A preventive approach reduces the costs of veterinary care and medication.
- A preventive approach ensures that cows maintain production.
- A preventive approach saves time and, therefore, money for the cattle farmer.
- A preventive approach extends the life of your cows.
- The CCS is a robust system with high-quality components, guaranteeing low maintenance costs and a long life.



Technical information

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| Power supply | 230 Volt, 0.90 amp, single phase, 50 HZ CCS is delivered with 5 metre cable, equipped with an earthed plug. |
| Water connection | The CCS is delivered with a 1/2 mm hose sleeve |
| Water consumption | 1.82 l/min |
| Power consumption | Approx. 1 amp |
| Dosing | Continuously variable from 0.8% to 5.5% |
| Type of agent | Bacticlean |
| Dimensions of dosing unit | 600 * 400 * 210 (l*w*h) |
| Dimensions of spray unit | 220 * 210 * 135 (l*w*h) |
| Internal electrical fuse | 3.15 amp |
| Length of suction hose for disinfectant | 1.8 metre |
| Length of sensor cable | 15 metre |
| Length of compressed air hose | 15 metre |
| CE approval | Yes |
| Working pressure | 4 - 4.5 bar |
| Nozzle spraying angle | 80 degrees |
| Reach of nozzle sprayer | 1.5 metre to 2 metre |

The combination of very frequent floor cleaning (using, for example, a barn cleaning robot), a soft floor for the cows to walk on and regular cleaning and disinfection of the claws forms a highly-effective preventive approach that yields results in the short term.



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