

Equidame phantom technical specification

Dimensions

Length.....	220 cm
Width.....	50 cm
Length of the back.....	140 cm
Length of the neck.....	70 cm
Height of the neck.....	35 cm
Distance form the middle of the vaginal opening to the back level.....	20 cm
Total weight	200 kg

Structure

Continuous standby	
Wall mounted control unit	
Connecting voltage.....	230 VAc or 110 VAc
Connected load.....	1,2 kW
Operating voltage.....	24 V
Frame.....	moulded aluminium
Case.....	moulded,flexible
Surface.....	seamless polyurethane
Stand.....	telescopic
Artificial vagina type.....	open principle
Structure of the artificial vagina.....	air-water-combination,adjustable
Water volume (gel volume).....	2,5 L
Installation of the vagina.....	inside the phantom
Interior of the phantom.....	Closed,warmable
Installation place.....	sheltered place

Functions

Minimum height.....	120 cm
Maximum height.....	160 cm
Vagina temperature.....	adjustable
Interior temperature.....	adjustable
Hanging of the vagina.....	flexible in all directions
Semen collection.....	separation into five cups
Volume of cup.....	45 ml each
Fullnes degrees of the collection cups.....	adjustable
Capacity of computer.....	data for 1000 stallions

Warranty.....2 years

MISSOURI vs. EQUIDAME

Quality of semen collected by the Equidame phantom compared with semen collected by a Missouri artificial vagina.

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1. PURITY OF SEMEN 24 HOURS AFTER THE COLLECTION

65 % of semen collected by the Equidame phantom did not contain any colony forming units (CFU) (= bacterium colony) 24 hours after the collection and in all samples amount of CFU was under 10.000 /ml. (CFU<10.000 /ml = very pure semen)

12 % of semen collected by Missouri vagina were equally pure 24 hours after the collection but half of the samples contained more than 10.000 CFU /ml.

2. PURITY OF SEMEN 48 HOURS AFTER THE COLLECTION

24 % of the samples collected by the Equidame phantom were nearly pure even 48 hours after the collection and in 75 % of the samples the amount of CFU was under 10.000 /ml.

By using Missouri vagina only 6 % of the samples were equally pure 48 hours after the collection and 75 % of the samples contained more than 10.000 CFU / ml.

Benefits in practice

- handling of the separated semen collected by the Equidame phantom is easier
- preservability of purer semen is longer
- high semen density helps to maintain a proper insemination
- risk of inflammations decreases
- purity of semen benefits marketing

3. EASINESS OF THE WORK

The collection of semen by the Equidame phantom was easy and for one collection only 1,3 mountings on average were needed whereas with the Missouri vagina 2,1 mountings were needed for one collection. With the Equidame phantom, after the 10th collection, all of the stallions ejaculated at first try.

Benefits in practice

- one person can collect semen quickly and safely