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MCA™ & dedicated mobile host TANK

The only automatic machine
for packaging frozen straws in visotubes



MCA & dedicated mobile host TANK
Mastering the distribution of semen

- Safety
- Productivity
- Simplicity
- Reliability

Optional scissor lift cart





MCA™

Automatic Packaging Machine



Safe

- Manual packaging of frozen straws can damage semen. It is also a tiresome, monotonous and potentially risky task for the operator. The MCA, working in nitrogen vapors and partly in liquid at -196°C , improves the comfort of use, and allows the user to distribute the doses safely.
- The insertion of straws inside the visotubes is operated by a break-away pusher.
- Re-circulated liquid nitrogen is pumped continuously to bathe straws to perfectly maintain their frozen state. As liquid nitrogen evaporates, the user simply lowers the MCA machine using a rotating thumb wheel on the side thus utilizing all the available liquid nitrogen before needing to refill.

Productive

With a speed of 80 to 90 straws per minute, the MCA improves the productivity of the distribution center. Its independent functioning and mechanization allow the user to be available for other tasks (supply of straws, stocking, recording...).

Simple

- 3 switches control panel, easily accessible with gloves.
- Easy selection of the number of straws or visotubes to be filled via two electronic memory counters.
- Adjustable system thanks to quick exchange of drums for changing the size of visotubes.

Reliable

The MCA is built on a light alloy and polymeric frame with thin walls that reduce thermal constraints related to extreme cold. After use, the machine is stored in a specially designed warming and drying box.

Since its introduction over 200 units are reliably in operation worldwide.





Optional scissor lift cart

Dedicated mobile host TANK

Ergonomics & Design

Specially designed to host the MCA packaging machine, the mobile tank is the ideal tool for optimizing its performance and ease of use. Its mobility allows you to increase the security of your straws by limiting their transfer and handling as well as the possible loss of straws falling at the bottom of the tank.

Sturdy & reliable

- Designed and manufactured by **IMV Technologies**.
- 100% polished 304L stainless steel / 95 mm thick polyurethane insulated double walls – tig welded joints.
- No maintenance required.
- Easy to clean and disinfect.

Economical

- Eliminates the need for a costly dedicated liquid nitrogen container.
- Low liquid nitrogen requirement and evaporation.

Ergonomic

- Comfortable working posture.
- Perfect all-around view.
- Fewer nitrogen vapors thanks to improved volume/surface ratio.
- Lower rear design allows nitrogen vapors to move away safely from the operator.
- 2 longitudinal grids with slots for 16 goblets of 65 mm each.



Vapor Freezing

The design and performance of this mobile tank have also been studied for use as an autonomous tank for freezing straws over nitrogen vapors.

All the properties of its main use for the MCA can be adapted to this function.

- **Capacity:** up to 6 freezing racks (1050 PF or 600 PM).
- **Low use of nitrogen:** insulated walls and lid limit evaporation (approx. 5 L per hour).
- **Easy and efficient level gauge:** the height of the two support grids for the freezing racks was calculated so the user knows the required level of nitrogen, just at the level of the grids for optimal freezing process (4 cm above the level of liquid nitrogen).



MCA & options

015691	MCA	mini straws	230v 50hz
023153	MCA with dedicated TANK	mini straws	230v 50hz
015760	MCA	medium straws	230v 50hz
023154	MCA with dedicated TANK	medium straws	230v 50hz
015763	MCA	mini straws	115v 60hz
023155	MCA with dedicated TANK	mini straws	115v 60hz
015764	MCA	medium straws	115v 60hz
023156	MCA with dedicated TANK	medium straws	115v 60hz

007115	MCA conversion kit to mini straws
007114	MCA conversion kit to medium straws
007102	Drum kit for 7.1 mm visotube
007103	Drum kit for 9.2 mm visotube
007105	Drum kit for 10 mm visotube
007106	Drum kit for 12 mm visotube
007107	Drum kit for 13 mm visotube
007108	Drum kit for hexagonal visotube
007109	Drum kit for polygonal visotube

Dedicated mobile host TANK & options

022512	MCA dedicated mobile host TANK Freezing tank with lid and handles
023157	Scissor lift cart
007136	3 slot support for 65 mm goblets
005524	Short forceps
007120	Freezing rack for 175 mini straws
007089	Distribution block for 175 mini straws
007117	Freezing rack for 100 medium straws
007091	Distribution block for 100 medium straws
016393	Dual probe hand-held temperature controller

Dedicated mobile host TANK Specifications

Outside dimensions	1100 x 900 x 500 mm / 43" x 35" x 20"
Inside dimensions	880 x 660 x 350 mm / 35" x 26" x 14"
Net weight without lid	67 kg / 150 lbs
Net weight with lid	72 kg / 160 lbs




- ISO 9001 certification, ISO 14001 certification
- Production site compliance with strictest standards of quality and safety
- Continuous improvement of processes and quality control
- All materials and components are in contact with liquid nitrogen for low conductivity
- 95% made in France



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