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MCA™ & dedicated mobile host TANK

The only automatic machine for packaging frozen straws in visotubes



Reliability



MCATM

Automatic Packaging Machine



- 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

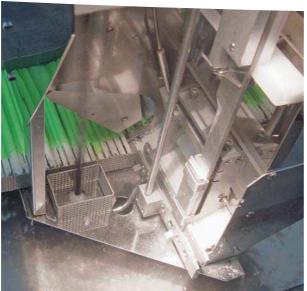
- 3 switches control panel, easily accessible with gloves.
- Easy selection of the number of straws or visotubes to be filled via two electonic memory counters.
- Adjustable system thanks to quick exchange of drums for changing the size of visotubes.

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.









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

- 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).



$\textbf{MCA} \; \& \; \textbf{options}$

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

Dedicated mobile host TANK & $_{\mbox{\scriptsize Options}}$

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 $_{\mbox{Specifications}}$

1100 x 900 x 500 mm / 43" x 35" x 20"	
880 x 660 x 350 mm / 35" x 26" x 14"	
67 kg / 150 lbs	
72 kg / 160 lbs	



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