



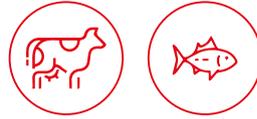
# Digitcool<sup>α</sup>

CONTROLLED RATE CRYOGENIC FREEZER

**Precise And Uniform Straw Freezing**



IMV TECHNOLOGIES. FOR LIFE.



## We listen to your needs

Freezing animal semen stored in straws while preserving the spermatozoa viability and motility is an every day challenge.

Therefore, it's important to choose a high-performance equipment that has been designed for the demanding standards of the laboratory environment.

The Digitcool alpha is a uniform and stable cryogenic straw freezer that preserves the semen quality. Designed with user comfort in mind, it simplifies operations and comes equipped with a range of standard or additional features such as user-friendly interface, high-efficiency insulation of the lid to minimize temperature losses, audible or visual alarms, safety back-up systems in the event of a power failure.

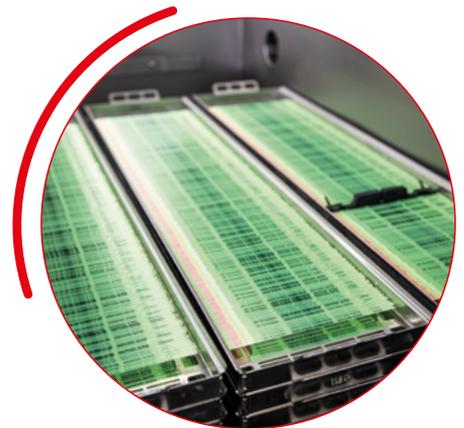


## Freezing uniformity

Freezing uniformity is a multifactorial process. The Digitcool Alpha has improved on the **best available technology**.

### Consistent nitrogen flow within the chamber.

The characteristic "chimney effect" is improved through the reorganization of the internal chamber and design of the new straw racks.



Racks designed to support freezing uniformity

### Homogeneous distribution of nitrogen vapor

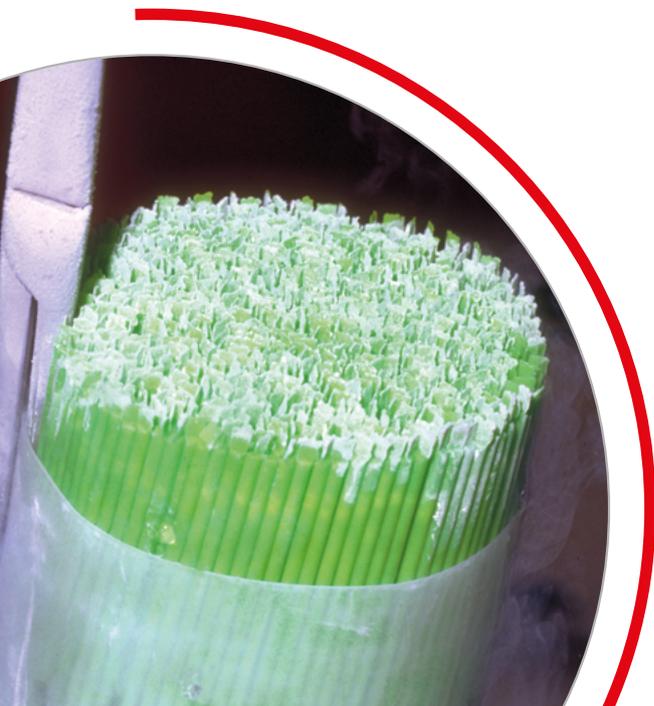
Carefully selected fan hardware and fan blade design result in higher speed and finer speed control.

### High insulation capacity

through meticulous gasket and freezer lid design.

### Reduced energy (thermal) loss

or exchange with the environment. Exclusive material and design reduce the "thermal bridge".





# User and semen safety

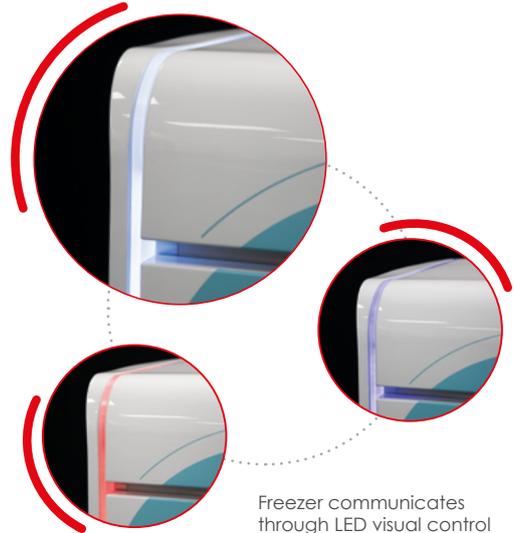
Safety – of product, data, and user – are at the heart of the design of the Digitcool Alpha. IMV Technologies pulled out all the stops to ensure **safety in production**:

## User defined rubbery state threshold

to prevent product damage (audible and visual warnings).

## User and semen safety are integrated into the design

of freezer and accessories. Prevent user interaction with the freezer from resulting in injury or discomfort. Reduce direct contact between finished product and user without sacrificing usability.



Freezer communicates through LED visual control

## Built-in contingency aids

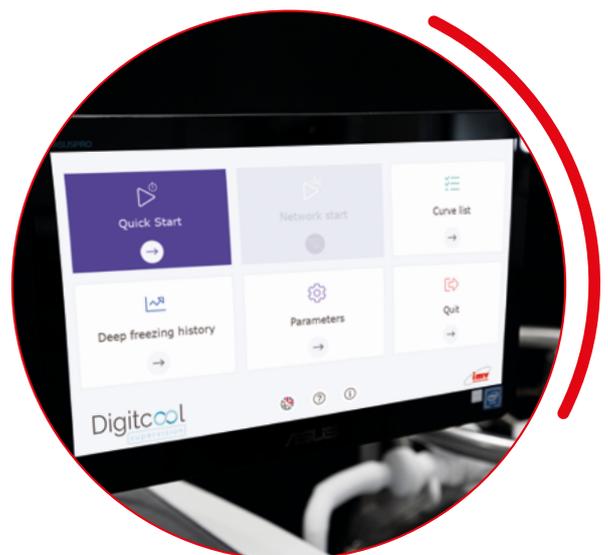
reduce down-time. Yes, solenoid valves have a lifespan. The Digitcool Alpha predicts the maximum number of valve activations and warns the user before this event puts the equipment out of use.

## Freezing data will not be unintentionally lost

to an erroneous keystroke. Auto save function features ensure traceability of data is never broken.

## Freezing cycles will not stop inadvertently

while in progress. An on-board battery (in option) backup will ensure every cycle that starts controlled, ends the same way.





# Operations made easy

Smart design and interactivity are the basis of Digitcool Alpha. Decades of observation and experience are translated into features that ensure ease of use:

Optimized accessories to improve user experience



Cup holder

## Convenient straw racks and distribution block

with semi-automatic alignment system and straw counting grid

## Ease of straw collection

thanks to patented straw collector and batch separator

## Equipment communicates its status

and troubleshoots itself, through LED lighting self-diagnostic messages.

Foot-pedal to

## automatically open the chamber's lid

## Intuitive software

to guide the user through the cryogenic freezing process

## All-in-one design

with screen and control box on-board



Patented straw collector and batch separators



Distribution block with semi-automatic alignment

“

## Testimonial

*Due to homogeneous cooling, we notice a perfect freezing of every dose. Also, the system brings time saving and improved security for the user.”*

**René Koch**  
Lab manager, Ki Kampen

# Digitcool<sup>α</sup>

## Cryopreservation, the key step for semen processing

To meet the challenges of today's semen laboratory, IMV Technologies has developed the Digitcool Alpha, a **controlled rate cryogenic freezer**. Adding several users, product and data safety features to IMV Technologies' proven liquid nitrogen circulation system results in a safer, smarter, and ultimately better controlled rate freezer.



## TECHNICAL SPECIFICATIONS

### Capacity, mini straws:

> 5 250

### Dimensions (L × W × H) mm:

> 1543 x 819 x 1087

### Voltage:

> 230V - 50Hz

> 208V - 60Hz

### Capacity, medium straws

> 3 000

### Weight (kg)

> 350

### Recommended nitrogen pressure

> constant supply: 2.5 bars +/- 0.3

## References

### Digitcool Alpha

Straw freezer ..... 029126

### Distribution block

175 mini straws ..... 029131

100 medium straws ..... 029132

### Freezing racks

175 mini straws ..... 028483

100 medium straws ..... 028482

### Straw collector kit with 10 batch separators

Mini ..... 029136

Medium ..... 029135

### Pack of 20 batch separators

Mini ..... 029133

Medium ..... 029137

### Starter pack including:

**30 racks, 1 distribution block, 1 collector, 30 batch separators, 1 funnel**

Mini ..... 029134

Medium ..... 029138

## Optional

- Uninterruptable Power Supply Battery back-up System





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