



# Temperature-controlled semen storage units



## Optimal storage of valuable liquid genetics

Equipped with both heating and cooling elements, Minitube semen storage units are used to efficiently store semen doses at a constant temperature.

Paired with an externally mounted controller, the user can easily adjust the internal temperature from +5°C to +40°C without having to open the unit and compromise the internal environment. The programmable HTiP controller allows the user to cool down semen in a defined and gradual way.

Two fans ensure continuous airflow throughout the unit for homogenous temperature distribution. In addition, the aluminum back panel prevents the semen doses from having direct contact with the cooling or heating elements.

### ★ Product features

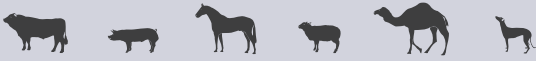
- Temperature range: +5°C to +40°C
- Accurate within +/- 1°C
- Outer dimensions (H x W x D) approx.:
  - 168 x 75 x 77 cm (544 l)
  - 85 x 60 x 60 cm (160 l)
- Digital Minitube controller (TC 200 or HTiP)

### + Your benefits

- + Two different sizes, for any purpose and scale of production
- + Sophisticated heating and cooling technology ensures that the target temperature is kept inside, regardless of whether the room temperature is above or below it (guaranteed compensation on fluctuations in the ambient temperature)
- + Forced air circulation distributes temperature evenly throughout the unit, even when it is completely full
- + Digital temperature display clearly legible from outside
- + Condensation is effectively dissipated
- + Sturdy design, robust components
- + Strict quality controls by Minitube technicians



Highest protection for valuable semen doses  
- for best insemination results



## Semen storage units

### With adjustable temperature



TC 200 controller allows variable temperature setting for dual purposes: for semen storage at a selected temperature (e.g. 5°C or 17°C), or for pre-warming the semen collection items to +40°C.

160 l, capacity: ~300 tubes/bags or ~900 straws, 0.5 ml 14160/0300

544 l, capacity: ~700 tubes/bags or ~8400 straws, 0.25 ml 14160/0352



### With programmable cooling curve



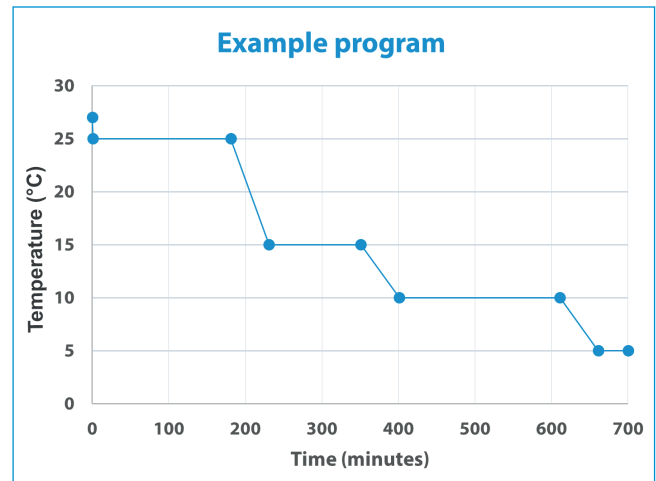
With the programmable HTiP controller, the semen storage units can cool down semen in a defined and gradual way allowing full flexibility for any semen processing scheme down to +5°C.

For many species, like bovine and equine, a defined slow cooling from room temperature to +5°C is recommended, both for chilled semen and for equilibration before freezing.

HTiP can also be operated with a fixed temperature setting.

160 l, capacity: ~300 tubes/bags or ~900 straws, 0.5 ml [1] 14160/0330

544 l, capacity: ~700 tubes/bags or ~8400 straws, 0.25 ml [2] 14160/0340



Example cooling curve from +25°C to +5°C

## Alternative cooling option

### Klima Kit [3]

Electronic controller to keep a freely selectable temperature (e.g. 5°C or 17°C) in any refrigerator. No installation required. Target value adjustable.

230 V 14160/9001

110 V 14160/9002

