



## ***SEMEN STORAGE***

*"the optimum temperature for the storage of boar semen is 17°C"*

*Rotech offers a range of both Portable and Static Semen Storage Containers*

### **PORTABLE SEMEN STORAGE:**

**THERMOSAFE 25** 80 - 100 doses  
*with re-programmable digital controller*

Not only will the **Thermosafe 25** maintain boar semen accurately at its optimum storage temperature of 17°C, but it can easily be re-programmed by the user to run at any temperature, up to approximately 35° above, or down to approximately 20° below, the ambient.

Therefore, for example, you could re-set the digital controller to run the **Thermosafe 25** at 4°C for storing vaccines or other medicines, or to 35°C for warming collection equipment, microscope slides, or doses of semen to blood temperature.

The **Thermosafe 25** will run on 12 volts, from a vehicle power socket, and is also supplied with a transformer for running from the mains.

**Also available:**

**Battery saver device** - ensures that your vehicle battery is protected even if the Thermosafe is left turned on whilst the engine is off.

*Unless the portability of a Thermosafe is specifically needed, the reliability and the long life of the compression system of refrigeration, is recommended.*

*See overleaf for Static Semen Storage Containers.*



06/1230 THERMOSAFE 25



### **Rotech Livestock Equipment Limited**

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## STATIC SEMEN STORAGE - *digitally controlled*

**THERMOCABINET 105** approx 100 doses

**THERMOCABINET 250** approx 250 doses

**THERMOCABINET 500** approx 500 doses

**Thermocabinets** are based on domestic refrigerators which are modified to run at 17°C. **Rotech** offers three sizes of Thermocabinets, to hold approx 100, 250 and 500 doses of semen. All are **digitally controlled** to hold the set temperature accurately, with very small variations.

*Unless the portability of a Thermosafe is specifically needed, the reliability and the long life of the compression system of refrigeration, is recommended.*

### **A word on the reliability of Semen Storage Boxes**

Portable semen storage boxes, like the **Thermosafe 25**, use what is known as the Peltier effect to cool and heat. The optimum semen storage temperature of 17°C is quite a difficult one to hold, as it is close to room temperature, so sometimes we need to cool, sometimes to heat. A Peltier element will cool or heat depending upon the direction of the flow of the electric current. Its big advantage for our application is its portability and its ability to operate from a 12 volt supply.

The Peltier element will have a limited life because each time it switches from heating to cooling mode, a portion of it will become damaged. The **Thermosafe 25** therefore has a "Peltier Protector", which will reduce the incidence of switching to an absolute minimum, thereby prolonging the life of the box.

*However, we continue to recommend a fridge-based semen storage container unless portability is a definite requirement.*



06/1350 THERMOCABINET 105



06/1024 THERMOCABINET 250



06/1137 THERMOCABINET 500

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