

K Series Cryogenic Storage Systems



K Series systems are used throughout the world wherever it is necessary to store biological specimens or larger objects such as organs for transplantation. Like all Taylor-Wharton vessels, the ultra high capacity refrigerators use nitrogen in liquid or vapor phase for cooling. This provides a series of important benefits as compared with mechanical refrigeration systems, especially in terms of environmental considerations:

- Greater reliability • No heat output • Silent operation
- Lower temperature • Virtually maintenance-free • Safety back up to power failures

Taylor-Wharton K Series systems are designed to accommodate various inventory control systems. The high capacity makes it possible to hold up to 38,350 2ml vials or up to 739,500 0,25ml straws. Normally 10K and larger systems are connected to a liquid nitrogen tank by means of a hose (see p. 14) equipped with a CryoCon unit, which is an electronic Taylor-Wharton automatic level controller that is available in various models (see p. 8/9).

In case it is necessary to make absolutely sure that specimens do not come into contact with liquid nitrogen (to avoid cross contamination), it is possible to place a gas phase frame inside the system. The liquid tight frame ensures a reliable separation of the specimen from the liquid nitrogen and at the same time functions as a guide for the individual racks (see p. 11).

10K and larger systems are available with the CE mark in compliance with the Medical Devices Directive MDD 93/42 EC.

