MATHESON
The Gas Professionals

Cryo Library ADVANCE

Fully automatic cryopreservation system supporting
universal rack sample housing

Cryo Library ADVANCE supports universal rack sample housing that is commonly used in universities and laboratories. It enables the smooth introduction of fully automatic sample management.

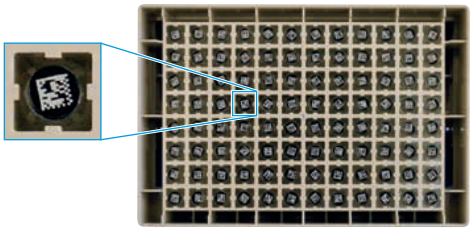
— Supports universal rack sample housing

Cryo Library ADVANCE supports 48-format (2cc)/ 96-format (1cc) universal rack sample housing, and it allows automatic loading/unloading of each rack or vial. Vial housing capability has been improved—three times higher than conventional models—and can house 16,000 of 1cc-type vials and 10,000 of 2cc-type vials.

96-format (1cc) universal rack

— Fast sample operations

Each vial has a 2D code attached to the bottom. Cryo Library ADVANCE is equipped with a high performance image processing camera that can quickly and simultaneously read both 48 and 96 codes in one action, realizing fast sample operation. Dedicated data management software can manage 2D code data without making data management errors, and helping to build a secure system.



PC control window

— Drastically reduces evaporation of liquid nitrogen

The evaporation rate of liquid nitrogen is reduced to half or lower than conventional models, and the operating cost of equipment has been also drastically reduced. In times of emergency, such as a blackout, Cryo Library ADVANCE can keep temperatures of -150°C or lower for more than 20 days.

— Compact design for easy installation

Compact design with height lower than 2,000 mm minimizes installation restrictions, such as gate size. It can be installed without taking the components apart.

Specifications

Dimensions	W1,200 x D1,235 x H1,970 mm
Weight	Approx. 900 kg
Cryopreservation temperature	-150°C or lower (vapor phase storage)
Max. storage	16,128 (1cc vial): 96-format universal rack x 168 10,368 (2cc vial): 48-format universal rack x 216
Evaporating rate of liquid nitrogen	5 L/day (Cryopreservation container)
Power source	AC100V, single phase, 50/60 Hz, 15A x 2
Period temperature retained during blackout	20 days or more
Vial data management	Independently manages each block of 2D code data Displays a list of loading/unloading history Stock management
Incidental work	Construction of liquid nitrogen supply system and exhaust gas ducts, and installation of oxygen concentration meter

- Before using this product, carefully read the attached paper to ensure correct usage.
- Specifications are subject to change without notice or obligation as product improvements occur.

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