

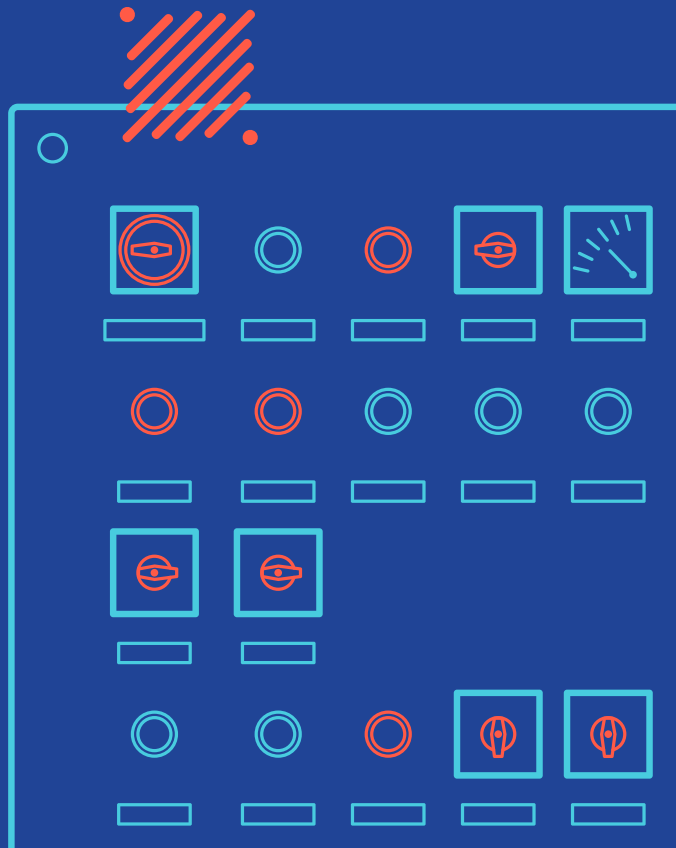
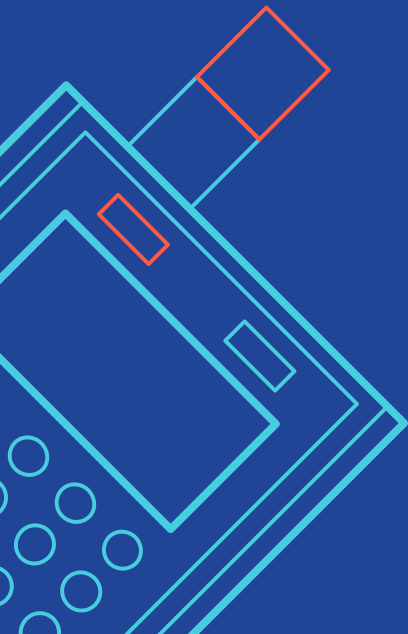


DK SERIES



MODEL DK-TS01

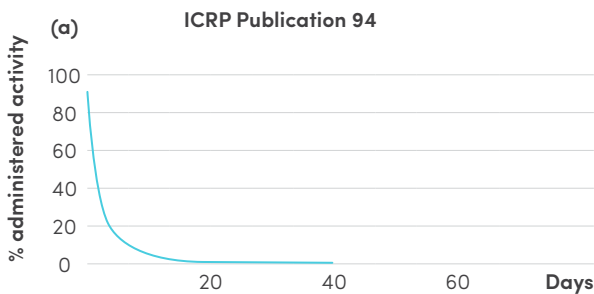
MEDICAL WASTE DECAY TANK SYSTEM



GENERAL PROCESS DESCRIPTION OF THE MEDICAL WASTE WATER RADIOACTIVE DECAY TANK SYSTEM

Decay tanks are designed to hold radioactive waste until it is safe to discharge. We design customised decay tanks to handle both solid and liquid waste generated by institutions using radioactive sources. These tanks are constructed based on specific local regulations and best practices provided in the IAEA radiation protection guidelines. Decay Tanks are used to dilute or to store radioactive waste depending on the local statutory requirements.

Our tanks are designed to facilitate the safe discharge of radioactive matter generated by laboratories, industrial processes, or other sources of pollution. These tanks are also useful as equalisation tanks for diluting or storing polluted effluents destined for industrial treatment plants or municipal water treatment facilities, helping to reduce the burden placed on these plants.



Decay refers to half-life of isotopes. Retention times of more than 45 days will typically result in optimal neutralisation levels.

HAZARDOUS LIQUID MEDICAL WASTE

Radioactive Medical Waste materials are DANGEROUS/HARMFUL to health and the environment and require special management, treatment and disposal. Radioactive Medical Liquid waste consist of chemical, toxic, and or corrosive substances with water. Amongst the various source of hospital liquid waste are:



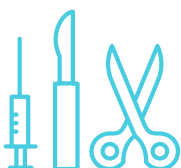
Pathology &
History Laboratory



Mortuary



Clinical Lab
Waste



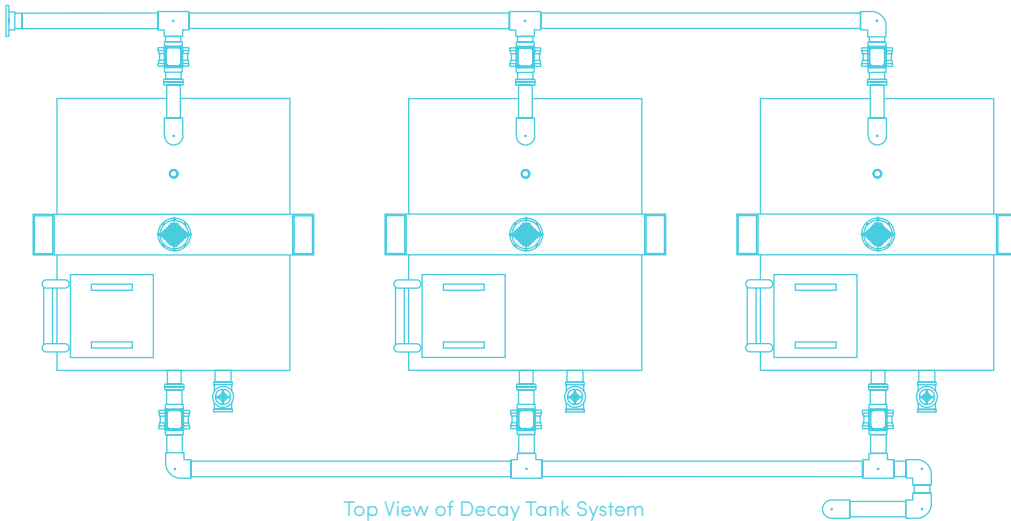
Surgery &
Emergency



Pharmacy



Chemotherapy

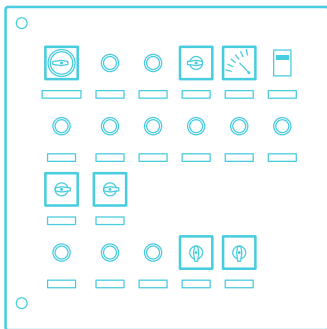


Top View of Decay Tank System

DK-TS01 SPECIFICATIONS

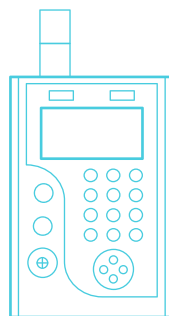
Radioactive water is monitored by radiation and level sensors while vent valves incorporated into the design trap any excess fumes. All these processes are monitored and controlled by the Electrical Control Panel, an automatic monitoring system that operates on sensor feedback and SCADA & BMS output provision.

ACCESSORIES



PLC Control

This is a multi-parameter control instrument for industrial and water treatment applications. The instrument provides highly accurate measurements along with an intuitive user interface. It features an RS485 port with ModBus RTU protocol to make for a fully compatible remote data-logging interface.



Radiation Sensor

The innovative CMS Dual series radiation monitoring system is used in a wide array of applications to monitor radiation levels, either by inline process storage. The units provide various units of readings and have a customisable information output that is non-proprietary.

ABOUT ELI

ELI (Environment Laboratory Impact) provides consultation on clinical equipment specifications, site planning, manpower requirements, incident reporting, and comparative studies to institutions dealing with chemical, biological, and radioactive waste. We customise engineering solutions and communications management system to achieve a seamless and cost effective measures to our partners.

ELI aspires to deliver impeccable quality in design, supply, installation, test and commission, and maintenance for medical and science institutions, and has worked closely with diverse partners across a range of industries to deliver astounding results.



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