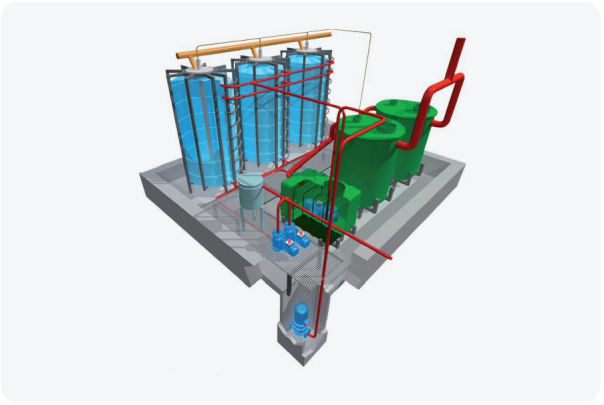
ELSE NUCLEAR

WDMS NT-VK

Monitoring and disposal of radioactive wastewater

System that collects and monitors radioactive wastewater, mainly from diagnostic and therapeutic procedures with radioactive substances, and releases it only after its activity has dropped below a defined value. The water is stored in decay tanks and measured in Marinelli geometry with a NaI(Tl) detector in a lead well; a local PLC is commanded from software on a remote PC.



Detector type

NaI(Tl) 2 × 2 in with MCA [2]

Specifications

Use	Collection and monitoring of radioactive wastewater, mainly from diagnostic and therapeutic procedures with radioactive substances; release only once the activity is below a defined value	[1]
Detector type	NaI(Tl) 2 × 2 in with MCA	[2]
Sample geometry	1-litre Marinelli beaker with connections to the system	[2]
Lead shielding	5 cm lead well	[2]
Main components	Imhoff purification tanks, sorting pumps, decay tanks, sampling system, release pumps, and level and pump sensors with a safety flooding well	[1]
Control	Local PLC commanded by software on a remote PC: automatic cycles, measurement parameters, alarm and release archives and system status	[1]
Redundancy	Critical elements are redundant: a second Imhoff tank takes over when the first is clogged or serviced, and the sorting pumps work alternately	[2]
Customisation	Number and type of decay tanks defined by the installation	[2]

Sources

[1] **WDMS NT-VK Monitoring and Disposal System for Radioactive Wastewaters**
ELSE NUCLEAR · product-page · Product page · checked 2026-10-16
https://www.elsenuclear.com/portfolio/wdms-nt-vk/

[2] **WDMS NT-VK Monitoring and Disposal System for Radioactive Wastewaters (datasheet)**
ELSE NUCLEAR · datasheet · p. 2, Technical Specifications; p. 2, Safety Devices; p. 2, System layout · checked 2026-10-16
https://www.elsenuclear.com/wp-content/uploads/2025/05/DAT_WDMS_EN_1.04.pdf

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.