

MVE's Automated LN2 Supply Tank Switch

The MVE Tank Switch enables two liquid nitrogen supply tanks to be connected to one or more cryogenic freezers. When the primary supply cylinder is exhausted, the switch automatically selects liquid delivery from the auxiliary cylinder and warns the user that the primary cylinder requires replacement.

The MVE automated supply tank switch is a dual inlet manifold enabling automatic switch to back-up supply for cryogenic storage tanks. Two liquid cylinders connect via the switching manifold directly to the nitrogen freezer. When the ~~first, or~~ primary tank is empty, the supply line is automatically switch to the secondary or back-up cylinder.

This unattended switching ensures that supply integrity is maintained to the storage system. A visual alarm shows when the primary tank has been switched. Audible and visual alarms indicate to laboratory personnel when both tanks are empty.

The tank switch operates by monitoring pressure in the transfer line, indicating both the demand for and supply of liquid nitrogen. This method eliminates the necessity for hardwired electrical connections to the cryogenic freezer control system, avoiding the potential for electrical interference and simplifying installation. Although designed primarily for cryogenic freezers, the tank switch can be utilized to supply any device using liquid nitrogen to supply any device using liquid nitrogen at low pressure and at a rate similar to liquid nitrogen freezers.



Features

- Automatic, unattended switching between two supply tanks.
- Audible and visual alarm modes.
- Simple installation with no hard wire connections to freezer unit.
- Backup tank increases sample security.
- Maximizes usage of liquid nitrogen—primary cylinder only needs to be replaced when empty.
- Remote monitoring via contact closure notification (NC/NO).

TWO Year Standard Warranty

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