

## Vacuum Jacketed Cryogenic Liquid Nitrogen Manifold for Cryogenic Freezers

**Description:** Airgas' stainless steel vacuum jacketed tank switcher provides a continuous liquid nitrogen supply by automatically switching to another dewar when the primary tank supplying the freezer becomes empty. This unit is specifically designed to provide cryogenic liquid nitrogen to freezers. The unit is constructed of vacuum jacketed piping and the valves are specifically designed to operate and control cryogenic liquids without large ice build ups on the system.

Liquid flows to the freezer or other device are ensured by a capacitive probe that detects actual liquid in the line, unlike some models that only sense liquid or gas temperatures.

The vacuum jacketed lines prevent dripping and sweating. Combined with an included Programmable Logic Controller (PLC) this tank switcher provides improved accuracy and cryogen control.

Vacuum Jacketed Cryogenic Changeover

CHANGEOVER PANELS



Two-Tank Version Specifications	
Manifold Dimensions	28" W x 28" H 24" D (71 cm x 71 cm x 61 cm)
Control Box Dimensions	11.5" W x 13.5" H x 6" D (29.2 cm x 34.3 cm x 15 cm)
Operating Temperature	32°F-120°F (0°C-50°C)
Enclosure and Penetrations Rating	NEMA 4X, IP65
Power Requirements	110-240 VAC, 50-60 Hz
Power Usage	200 watts @ 110 VAC 1.7 amp max.
Alarm Output	24 VDC 0.2 amp max. current

### Design Features

- No operator intervention for cylinder switching.
- Frost-free operation. No more puddles or water running down the walls.
- Quicker cool-down time enabling faster delivery of liquid nitrogen to cryogenic freezers or other applications.
- Easy to operate touch screen controls with simple operation and adjustments.
- Eliminates system downtime during cylinder switchover.
- Allows different pressure liquid nitrogen cylinders and VGLs.

Materials	
Tubing	Stainless Steel
Relief Valves	Brass
All other wetted parts	Stainless Steel

Other versions and configurations available

Ordering Information	
Product Number	Description
Y11-TECFAB1	Stainless steel liquid changeover 2 cylinders 1 x 1

Other versions and configurations available

Optional Parts	
Product Number	Description
Y15-35308	Vacuum jacket inlet hoses ½" ID hoses 295 CGA x T-65 bayonet
Y91-23208	T-65 Bayonet clamps

Other lengths available