

# TechniSwitch TS Series NJ & VJ Tank Switchers

## Saves money, reduces down time

Technifab's tank switchers provide a continuous liquid nitrogen supply by automatically switching to another dewar when the current tank becomes empty. Designed with a Programmable Logic Controller, our tank switchers offer the ultimate in accurate cryogen control. TechniSwitch Tank Switchers are available in non-vacuum jacketed or vacuum jacketed versions.

The TechniSwitch VJ vacuum jacketed switcher offers the advantages of a non-vacuum jacketed switcher with added benefits of low heat leak, minimal boil-off, no condensation and touchable casing makes the VJ tank switcher the most efficient, safe unit in the industry. Actuated valves eliminate background noise created by solenoid chatter.



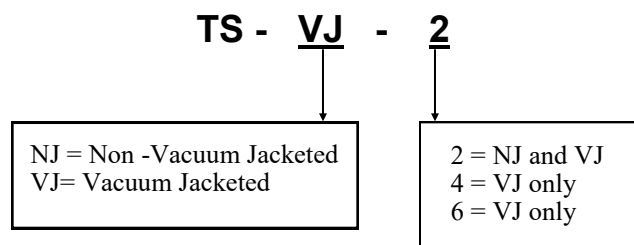
<b>Benefits—Features</b>	<b>NJ Non-VJ</b>	<b>VJ Vacuum Jacketed</b>
Reduces operating expenses by minimizing employee's involvement in cylinder switching.	X	X
Saves money by reducing system downtime during cylinder replacement.	X	X
Allows different pressure liquid nitrogen cylinders and VGLs.	X	X
Easy to operate touch screen PLC controls with simple operation and adjustments.	X	X
Empty tank alert and dry contacts for customer provided alarm.	X Status light included	X Visual Alert on PLC
Improves environmental safety by eliminating pipe dripping and reducing slip hazards		X
Reduces workplace hazard because vacuum jacketed pipe is safe to touch.		X
Uses less cryogen through quicker cool-down enabling faster liquid nitrogen delivery to end use.		X
Password protected PLC access.		X

# Specifications

	<b>NJ</b> Non-VJ	<b>VJ<sup>1</sup></b> Vacuum Jacketed
Manifold Dimensions <sup>1</sup>	NA	29.5" W x 29" H 23" D (75 cm x 74 cm x 59 cm)
Operating Pressure	35 psig (2.4 bar)	35 psig (2.4 bar)
Maximum Pressure	50 psig (3.4 bar)	50 psig (3.4 bar)
Control Box Dimensions	16" W x 24" H x 7" D (40.6 cm x 61 cm x 17.8 cm)	12" W x 12" H x 6" D (31 cm x 31 cm x 15 cm)
Operating Temperature	32°F-122°F (0°C-50°C)	32°F-122°F (0°C-50°C)
Enclosure and Penetrations Rating	Powder Coated NEMA 1	Stainless Steel NEMA 4X, IP66
Power Requirements	110-240 VAC 50-60 Hz	110-240 VAC 50-60 Hz
Power Usage	200 watts @ 110 VAC 1.7 amp max.	200 watts @ 110 VAC 1.7 amp max.
Alarm Rating	12-250 VDC/VAC, 6 amp max.	12-250 VDC/VAC, 6 amp max.

<sup>1</sup>Dimensions shown for two outlet version only.  
Four and six outlet versions are also available.

## Nomenclature



**To develop a configuration that fits your needs, contact us today!**

Technifab manufactures and installs vacuum jacketed pipe, transfer hoses, dewars, valves, and other cryogenic equipment. We also provide the industry leading warranty and service to back it up.

Satisfying customers since 1992 because, *We Know Cryo<sup>®</sup>*