environment by JANIS

# Cryostat Vacuum Pumps

Lake Shore CRYOTRONICS
a **DwyerOmega** brand

A range of pumps is available to suit all cryogenic requirements, from small pumps for roughing out vacuum jackets to large-capacity hermetically sealed pumps for pumping on liquid helium.

## Rotary vane

### 10RVP

10RVP general-purpose mechanical pumping station

**Features:**

- 10 CFM/8.4 CFM (60/50 Hz) two-stage rotary vane vacuum pump
- 5 ft flexible stainless steel pumping line with NW 25 flanges
- Isolation valve, vent valve, and compound pressure/vacuum gauge

### 11DDP

11DDP general-purpose mechanical pumping station

**Features**:

- 10 CFM/8.4 CFM (60/50 Hz) two-stage rotary vane vacuum pump
- Liquid nitrogen cold trap with isolation valve
- 5 ft flexible stainless steel pumping line with NW 25 flanges
- Vacuum gauge and readout

## Scroll

### SP-20

SP-20 dry scroll pumping station for pumping on helium vapor

**Features**:

- 13 CFM (60/50 Hz) dry scroll pump
- 5 ft standard flexible stainless steel pumping line
- NW 25 isolation valve, vent valve, and compound pressure/vacuum gauge
- Floor-level cart with casters

### SP-35

SP-35 dry scroll pumping station for pumping on helium vapor

**Features:**

- 21 CFM (60/50 Hz) dry scroll pump
- 4 ft long flexible stainless steel pumping line
- NW 40 isolation valve, vent valve, and compound pressure/vacuum gauge
- Floor-level cart with casters

## Turbomolecular

*Power requirement: 100 to 240 VAC, 50/60 Hz*

### TS-85-D

TS-85-D turbopumping station for evacuation of a small cryostat vacuum space

**Features:**

Turbomolecular pump with nominal 42 L/s capacity

- 0.8 CFM dry diaphragm backing pump
- Mounting frame with rubber feet and cutouts for easy handling
- Wide-range vacuum gauge (atmosphere to $10^{-8}$ Torr) with digital display
- Controller with integral air cooler, digital display of turbo speed, and input for one vacuum gauge
- 5 ft flexible stainless steel pumping line
- NW 25 vacuum isolation valve and fittings

### TSJ-85-D

TSJ-85-D turbopumping station for evacuation of a large cryostat vacuum space

**Features:**

- Turbomolecular pump with nominal 42 L/s capacity and NW 40 fittings
- 9 CFM dry scroll backing pump
- Mounting frame with rubber feet and cutouts for easy handling
- Wide range vacuum gauge (atmosphere to $10^{-8}$ Torr) with digital display
- TIC controller with integral air cooler, digital display of turbo speed, and input for up to three vacuum gauges
- 4 ft flexible stainless steel pumping line
- Vacuum isolation valve