



SPECIALISTS IN CRYOGENIC EQUIPMENT



overhead mount

Phase Separator

Ambient Pressure

Stainless steel, vacuum jacketed vessels designed to store LN₂ under atmospheric pressure



All Phase Separators come with Cryogas's renowned customer service, from conceptual design to implementation, and are backed by a one year warranty.

Phase Separator

A Cryogas Phase Separator is used in specialized applications requiring extremely high quality, low pressure liquid nitrogen on demand. Cryogas Phase Separator is a vacuum insulated reservoir holding tank for liquid nitrogen with a differential pressure control system that operates a proportional inlet valve. A one inch (1") vent line allows gas to be discharged from the system. The Phase Separator is continually full of liquid nitrogen under atmospheric conditions. Typical applications include both direct feed or closed loop. A closed loop system is typically used to feed a cryopanel in a MBE (molecular beam epitaxy) application. CryoRigid or StatiFlex pipe is used to feed LN₂ into the Phase Separator. Specialty triaxial pipe transports the pure LN₂ from the Phase Separator to the application.

Features and Benefits

- Differential pressure controls and a proportional inlet valve maintain a constant level of LN₂
- Provides a ready supply of pure liquid to critical applications
- High volume Phase Separators for custom applications available
- Available with 2 to 10 outlets

Phase Separator Specifications

Materials

Stainless Steel Series 300

Controller Dimensions

14" H x 6.5 D x 2.5" W
(356 mm H x 165 mm D x 64 mm W)

Maximum Inlet Pressure

125 psi (8.62 bar)
Optimal is 80 psi (5.52 bar)

Optional Maximum Back Pressure

10 psi (0.7 bar) when using a
back pressure regulator

No. of Outlets

2 to 10

Capacity Operational Volume*

2 or 4 outlets: 5.8 gallons
6 or 8 outlets: 11 gallons

Maximum Withdrawal Rate

gallons/minute

Weight

Empty Condition
60 - 85 lbs (27.2 - 38.6 kg)

Full Condition
100 - 163 lbs (45.4 - 73.9 kg)

*High volume available for MBE applications

System Utilities

Electricity: 80 - 240 VAC

Minimum GN₂

Pneumatic Valve Pressure

40 psi (2.7 bar)

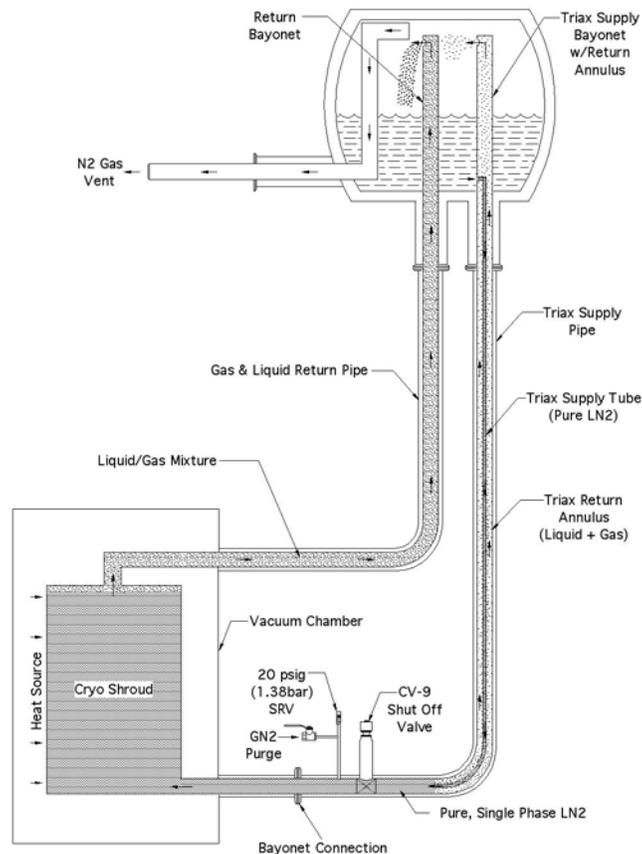
Certifications

NEMA 4X, CE

Options

Custom sizes and ASME coded
pressure vessels

Phase Separator Closed Loop Application



CRYOGAS TECH.

No 10, Jalan PPU3A, Puchong 47150 Selangor Malaysia

Phone: (603) 8051-0982 Fax: (603) 8051-0913

e-mail: info@cryogas.com.my