

APPS 160

ADJUSTABLE PRESSURE PHASE SEPARATOR

The Adjustable Pressure Phase Separator (APPS 160) unit is used to lower the saturation point of liquid nitrogen. Liquid nitrogen saturated at a high pressure flows into the APPS 160, and exits at a much lower saturation pressure and temperature. Liquid nitrogen enters the APPS 160 unit through a solenoid valve, and exits through a one-inch vacuum insulated female bayonet. A differential pressure switch maintains the liquid level in the cylinder.

The internal pressure of the cylinder is controlled by the combination of a pressure switch connected to the solenoid valve and a back-pressure regulator. If the pressure exceeds the set point of the back-pressure regulator, the pressure switch activates a solenoid valve that rapidly vents the APPS 160 down to the desired working pressure.



APPS 160

TECHNICAL FEATURES

- Allows low pressure liquid and high pressure gas from a single storage vessel
- More precise pressure control on liquid use
- Mini-bulk storage for under-sized vacuum lines
- Low cost alternative to two bulk tanks
- Two operating pressure ranges available.



Innovation. Experience. Performance.™

APPS 160

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System Specifications

Height	61 9/16"
Width	30 3/16" (20" OD cyl)
Weight (empty)	210 lbs
Capacity	160 liters / 42.27 gallons
Cryogenic Fluids *	Nitrogen, Oxygen, Argon
Inlet Connection	1/2" male 45° Flare
Outlet Connection	1" female MVE bayonet (MPT adapter option)
Vent Connection	1/2" female pipe thread
Max. Allowable Working Pressure	150 PSI
Operating Pressure Range Options	10-50 PSI or 40-85 PSI
Max. Inlet Pressure	235 PSI
Max. Withdrawal Rate	15 gallons per minute continuous
Power Requirements	110 Volt / 60 hz 200 watts
Applicable Codes	ASME Section 8, Division 1

* Oxygen and argon service available upon special request. Specifications subject to change at any time without notice.

