Degasser

Point-of-use

The POU degasser removes gas by slowing down the liquid flow velocity, ensuring that the exit liquid supply is pure. It is typically installed to the dropper before connecting to equipment. The equipment degasser is modular and pre-engineered for easy installation.

All Degasser comes with CSM renowned customer service, from conceptual design to implementation, and are backed by a 5-years Vacuum Warranty, and 1-year Defect Warranty.

Degasser

Due to a constant heat leak and pressure drop between the storage tank and the consumer use points, a portion of the liquid nitrogen in the pipeline will evaporate into gas or vapor. As the liquid passes through the degasser, the gas is removed, ensuring high-quality liquid is delivered to the use points. This is done by mechanically separating the boil-off gas from the liquid.

The degasser is maintenance-free and does not require any field adjustments. Its operation requires no electrical power, sensors, pneumatics, or electronics. The pre-engineered degasser has a capacity of delivering liquid nitrogen flow consumptions up to 200 L/h, with higher capacities available upon request.

Typical Applications

- This product is suitable for cooling down piping without venting gas through the equipment.
- •This product can improve the consistency of the cooling mass of LN_2, which is essential for stable test handler operations.

Features and Benefits

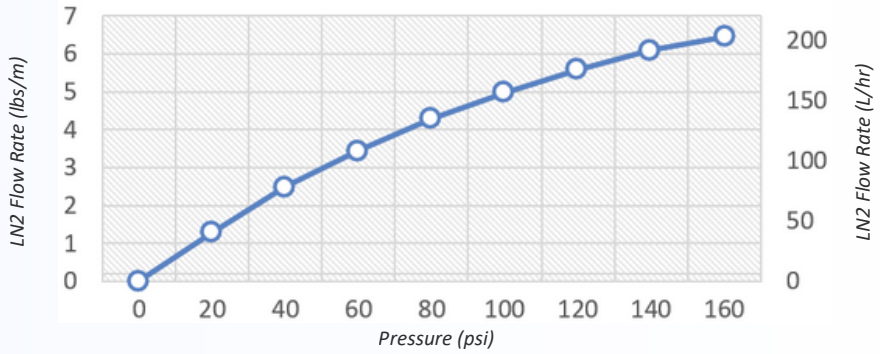
- The degasser is available with bayonet connection
- It uses a bayonet connection to reduce heat leaks from further deteriorating the LN_2 cooling mass consistency
- The degasser ensures consistent and efficient liquid supply from bulk storage to the end application
- It maintains liquid in the piping system at all times

Installation Method:

POU Degasser Specifications

Model	DX2	DX8
Vessel Capacity	0.5 gal (2 L)	2 gal (8 L)
Liquid Outlets	1	1 or 2
Control Principle	Mechanical / Buoyancy Force	
Max. Venting Capacity	1.5 Nm^3/hr	
Orifice Size	Fixed Orifice	
Insulation	Static / Dynamic Vacuum	
Cleanliness Level	Cleaned, oil and grease-free	
Maximum Operating Pressure	200 psi (13.8 bar)	
Material Construction	Stainless Steel Series 300	
Standard Testing	Dimensional Check He Leak Checked @ 1 x 10^{-9} cc/s	
Optional	Pneumatic Pressure Test, Vacuum Retention Testing, LN_2 Cold Shock, Pre-Material Certs., X-ray Inspection, ASME B31.3 Certification, CFOS Cleaning for O_2 Services	

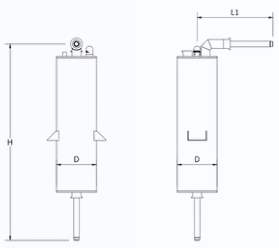
DX8 Flow Rate *



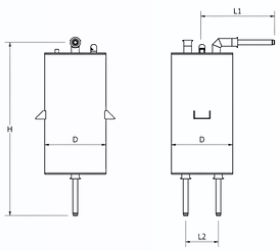
** Depending on liquid supply quality or liquid storage saturated pressure, i.e. gas & liquid mixture ratio. Larger saturation results in lesser liquid flow output.*

POU Degasser Dimensions

Part Number	H	L1	L2	D
DX2	33.5” (850 mm)	12.6” (320 mm)	-	6.6” (168 mm)
DX8		14.2” (360 mm)	6.3” (160 mm)	11.8” (300 mm)



DX2 Equipment Degasser



DX8 Equipment Degasser

All dimensions provided are for indication purposes only and may not accurately represent the actual product dimensions. Please contact us for updated and actual measurements.

CRYOGENIC SPECIALTY MANUFACTURING
Email: info@csm-cryogenic.com