

Purifiers – Grade 6+ Helium “Trident”

Spec Sheet

Capable of producing grade 6 Helium, skid mounted, with the following 3 major components:

TRIDENT

HELIUM PURIFIER SYSTEM



- **DeHydro 4.0** Moisture Purifier - with bypass valve, regeneration kit and temperature monitoring purifier

- **DeOxo 4.0** Trace Oxygen - with bypass valve, regeneration kit and temperature monitoring purifier

- **Helium Purifier, Cryogenic** - Liquid nitrogen bath with internal purifying coil assembly, regeneration kit and temperature monitoring purifier

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The CryoVation Grade 6.0 Helium Purification System **TRIDENT** is designed to purify inert gases utilizing three unique Purifiers either individually or in series. The Purifier System is comprised of the following:

DeOxo 4.0 Purifier, Trace Oxygen Removal, 15,000 SCFH inert gas capacity at 3000 PSI maximum working pressure. Includes the following: but is recommended to be downstream of the Moisture Purifier. Includes the following:

- Coiled Catalyst Chamber, SS
- Back-pressure Regulator (N2 and Ar only)
- Control Valves (CPV) – Inlet, Outlet and Bypass
- Pressure Gauge – 2-1/2”, 4000 PSI
- Piping and fittings – all stainless steel
- Frame Assembly with removable side panels
- Regeneration Kit installed (regeneration requires 2 separate 20 amp / 120V circuits and regeneration gas of 10% CO / in N2). Optional voltages available.

DeHydro 4.0 Purifier, Trace Moisture Removal, 15,000 SCFH inert gas capacity at 3000 PSI MAWP. Includes the following:

- Coiled Chamber with Molecular Sieve
- Back-pressure Regulator (N2 and Ar only)
- Control Valves (CPV) – Inlet, Outlet and Bypass
- Pressure Gauge – 2-1/2”, 4000 PSI
- Piping and fittings – all stainless steel
- Frame Assembly with removable side panels
- Regeneration Kit installed (regeneration requires 2 separate 20 amp / 120V circuits)

Cryogenic Purifier, Helium Purifier System, improving purity on a scale of 10 to 1, will turn grade 5 into grade 6 helium, 3000 PSI, skid mounted, with the following major components. Includes the following:

- Purifier, Cryogenic Liquid nitrogen with internal purifying coil assembly and regeneration kit
- 5000 SCFH flow
- Full Cylinder Pressure, 3000 psi
- Isolation valves
- Pressure Gauges
- Inter-connecting piping (1/2" tube)
- Sample Ports, (3) each, with pack-less valves and 1/8" tube connection to analyzers
- Line Heater – purifier outlet gas
- Skid with all inter-connecting piping, fittings and supports
- Vacuum pump for regeneration of Cryo and DeHydro purifiers (Optional)