Purifiers – Trace Moisture Removal

Spec Sheet

This purifier is a proven solution to control your plants vital lifeline on critical gaseous supply of Inert gases. The purifier once installed will provide reassurance that the gas meets your needs. In conjunction with in-house monitoring ensures reliable gas impurity control.

DeHydro 4.0

DeHydro 4.0 Purifier, Trace Moisture Removal, **15,000 SCFH inert gas capacity at 3000 PSI** maximum working pressure. The CryoVation DeHydro Purifier has been designed to remove moisture from inert gas not exceeding 10 PPM to less than 1 PPM. Lower levels can be achieved based on raw material H_20 impurity and flow rate.

Includes the following:

- Stainless Steel Coiled Purification Chamber
- Flow orifice by gas type
- Control Valves (GasFlo packless) – Inlet, Outlet and Bypass
- Pressure Gauge – 2-1/2", 5000 psi
- Piping and fittings – all stainless steel
- Frame assembled with removable side panels for easy access to perform maintenance
- Regeneration Kit pre-installed to allow field regeneration (regeneration requires a single 120V 20-amp circuit)
- Can be used in series with DeOxo to control both H2O and O2
- Recommended to be upstream of the Oxygen Purifier (DeOxo)

Operation: The Purifier is normally piped in series in a typical cylinder filling system.

Bypass valve is available to allow purifier to be placed offline if not needed. The moisture purifier is designed for inert gas. Oxygen contents exceeding 23.5 % should never be allowed to enter the purifier. The purifier has been designed to remove moisture from an inert gas not exceeding 10 ppm to less than 1 ppm. Total capacity depends on incoming moisture content but should easily last for 1,000,000 SCFH total before needing to be regenerated.

Regeneration: A regeneration process gas heater is provided with purifier. This allow field regeneration to be done in place. Regeneration is required when the purifier becomes saturated and is no longer removing moisture at desired levels. Optional regeneration may be performed by evacuation of the heated vessel.

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