

## Purifiers – Cryogenic Purifier

**Spec Sheet**

**Cryo Purifier**, Trace contaminant removal, 5,000 SCFH (140 M3/hr) inert gas capacity. The Cryogenic Purifier is designed to remove trace impurities from Helium and can be adapted to remove impurities from Hydrogen (H<sub>2</sub>). The CryoVation Cryo Purifier can be sold by itself or as the third part of the TRIDENT Purification System.

### Includes the following:

- Purifier, Cryogenic - Liquid nitrogen with internal purifying coil assembly
- Isolation valves
- Pressure Gauges
- Inter-connecting piping (1/2" stainless steel tube)
- Sample Ports, (2) each, with pack-less valves and 1/8" tube connection to analyzers.
- Outlet gas ambient heater.
- Regeneration Heater – heated, vacuum regeneration
- Skid with all inter-connecting piping, fittings and supports
- Maximum Allowable Flow Rate: 5,000 SCFH
  
- Maximum Recommended Inlet Impurity: Grade 5.0 specification (PPM)
  - H<sub>2</sub>O 0.5
  - O<sub>2</sub> 1.0
  - THC 0.1
  - Ar 1.0
  - N<sub>2</sub> 1.0
  - CH<sub>4</sub> 1.0
  - CO 1.0
  - CO<sub>2</sub> 1.0
  
- Expected Outlet Impurity: Grade 6.0 specification (PPM)
  - H<sub>2</sub>O 0.2
  - O<sub>2</sub> 0.1
  - THC 0.1
  - Ar 0.1
  - N<sub>2</sub> 0.4
  - CH<sub>4</sub> 0.1
  - CO 0.1
  - CO<sub>2</sub> 0.1

**Mean Flow Between Regenerations: 150,000 SCF**

