PSB Industries

METHANE DEOXO AND DRYER PURIFICATION SKIDS

PSB

ISO 9001 CERTIFIED

CRN

MADE IN U.S.A.

Methane Deoxo and Dryer Purification Skids

Biogas (Landfill / Digester / Waste Water / Coal bed, etc.) is often contaminated with Oxygen and this can make the gas unacceptable to the product pipeline owner. PSB Methane Deoxo and Dryer Skids are an ideal system for removing oxygen and moisture from the pretreated methane gas.

Each unit is conservatively sized to remove O_2 and H_2O and are designed based on the gas composition, flow rate, temperature and pressure. An optional H_2S guard bed will protect the catalyst vessel. The Oxygen is then removed from the methane gas stream through a catalytic reactor and excess heat is removed and then moisture removed with a dual tower desiccant dryer.

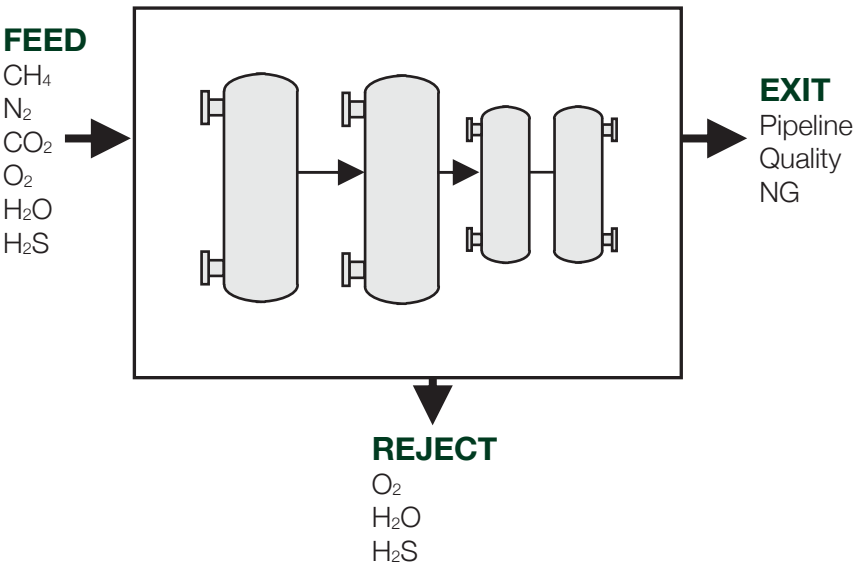
Typical concentration range of O_2 inlet is 0.1% to 2.5% volume.

PSB's Methane Deoxo will purify the stream to less than 0.1% or even less than 5 ppmv O_2.

PSB's Dual tower desiccant dryers remove moisture to less than 7 lb/MMSCF and more typically less than 4 lb/MMSCF.

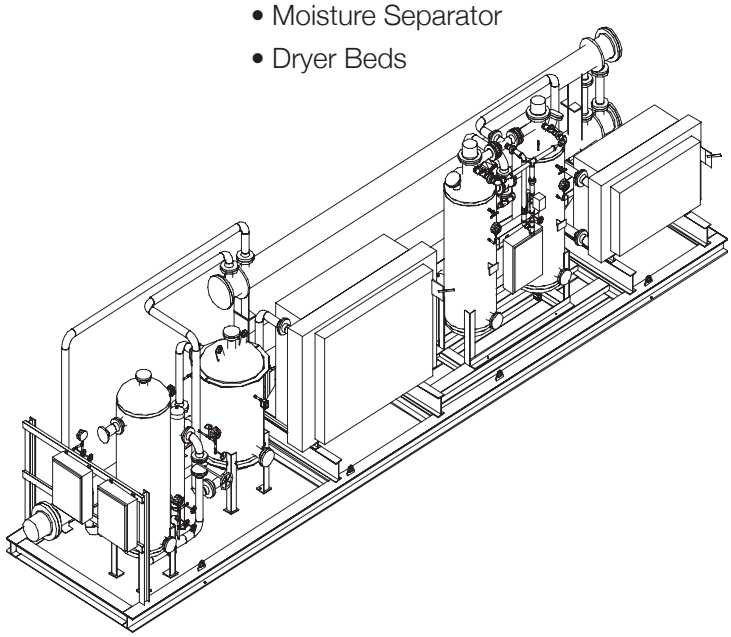
Contact PSB with your specific operating conditions.

TYPICAL BLOCK DIAGRAM



MAJOR COMPONENTS

- Catalyst Guard Bed
- Particulate Filter
- Economizer
- Trim Heater
- Deoxo Bed
- After Cooler - Air Cooled
- After Cooler - Water Cooled
- Moisture Separator
- Dryer Beds



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