



COAL MINE METHANE COMPRESSION & CONDITIONING SYSTEMS

THE PRODUCT

Designed Expressly For Coal Mine Methane Applications

FEATURES:

- Best Engineering Selection of Either:


Multi-stage centrifugal blowers (single, series, parallel or series-parallel)
-or-
Rotary lobe or sliding vane compressors
-or-
Rotary screw compressors
- Gas to Air Exchangers for Intercooling and/or Aftercooling
- Chilling & Re-Heating Systems
- ASTM A-249 304L/316L Low Carbon Stainless Steel Piping w/ Stainless Steel Weld Hub Assemblies & Painted Cast Iron or Galvanized Flanges
- CH₄, CO₂, O₂ Monitoring & Datalogging Compliant with GHG & Carbon Credit Projects

BENEFITS:

- Designed & Packaged for Site Specific Performance Requirements
- Single Source for Design & Manufacture of Waste Gas Compression & Combustion Equipment
- Mechanical, Thermal, Electrical & Packaging Design by Experienced Factory Project Team in One Location
- Fully Packaged Systems, Pre-Assembled, Pre-Wired & Pre-Tested at the Factory
- All Systems & Sub-Systems Fully Integrated to a Single MCC/Control Panel System
- Value Engineered for Lowest Possible Parasitics, Highest Possible Performance
- Designed per USEPA, CARB & MSHA Guidelines



STANDARD EQUIPMENT

- Engineered Equipment Skid Systems Constructed from ASTM A-36 Carbon Steel Wide Flange and/or Channel
-  Industrial Control Panels
- PLC Digital and Analog Control Systems w/ Touch Screen Operator Interface Panels
- Windload, Overturn, and Seismic Restraint Design Per ASCE 7-10 & IBC-2012

AVAILABLE FEATURES

- Data Acquisition and SCADA Systems
- Remote Monitoring Systems
- Remote Control Systems
- Automatic Pressure Control System
- Automatic Pressure Relief System
- Automatic Diversion to Combustor
- Integration to Existing Control System

Specifications & Options Subject To Change Without Notice

Phone: (417) 256-2002 • sales@perennialenergy.com



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APPLICATIONS

PEI's Coal Mine Methane Compression and Conditioning Systems can be provided for:

- Pipeline Transport Systems
- Coal Mine Fired Boiler Systems
- Coal Mine Fired Turbine & Micro-Turbine Systems
- Coal Mine to Energy "**CMMTE**" **Pre-Treatment Systems** for CAT and Jenbacher Genets
- May be Integrated with any PEI Combustion System



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