Clean Energy Compression MobilePRS empowers customers to use cost-effective natural gas fuel in a variety of field locations, enabling tremendous savings and environmental benefits without waiting for expensive pipeline of LNG infrastructure. MobilePRS saves capital and operating costs with decreased footprint, construction, commissioning time and overall set-up to operation time. MobilePRS supports a wide variety of natural gas applications (outlet pressure of 29-725 psig / 2-50 bar).

**OPTIMIZE VIRTUAL PIPELINE EFFICIENCY WITH MAXIMUM TRAILER OFFLOADING**
MobilePRS system is designed to maximize offloading of trailer and storage tanks while maintaining desired outlet flow rates.

**ULTRA-PORTABLE & QUICK TO DEPLOY**
Designed to be transported with a 1-ton truck, deployed with little site construction time. Trailer mounted skid reduces site preparation requirements, deployment and set-up time, compact design saves footprint requirements.

**CONSISTENT GAS DELIVERY**
System designed for consistent gas flow throughout trailer switching cycle.
MobilePRS Advantages

- Reduced Capital Costs. Trailer mounted skid reduces site preparation requirements, deployment and set-up time, compact design saves footprint requirements.

- Optimize Virtual Pipeline Cost-Efficiency. Maximized Offload. Oversized components to maximize offloading of trailer and storage tanks while maintaining desired outlet flow rates significantly reducing delivered cost per cubic meter / cubic feet.

- Reduced Operation Costs. Efficient control and serviceability further improves efficiency of operation and savings.

- Ultra-Portable & Quick to Deploy. Can be deployed with no site construction time and cost.

- Reduced Transport Costs. Can be re-deployed with a 1-ton truck.

- Consistent Gas Output During Trailer Switchover. Field tested Pressure Reduction Module (PRM) and Heat Control Module (HCM) deliver consistent gas flow throughout decanting cycle.

- Increased Longevity in all Climates. Complete weather-proof enclosure means PRS unit will not be impacted by extreme weather and serviceability will be maintained with operator safety and comfort maximized.

- Simple, Controlled Performance and Efficiency. Simple and accessible controls ensure efficiency and performance can be optimized quickly with ease.

Features & Benefits

- System mobility
- Self-contained fuel-supply system
- Trailer decant hose is the interface between CNG trailers and the PRS
- User friendly touch-screen control screen for set-point and alarm control
- Boiler utilizes natural gas from the tube trailer
- Emergency Shutdown System (ESD)
- Uses 2-stage regulation for maximum consistency of outlet pressure
- Oversized components to retrieve maximum capacity from mobile storage units by allowing mobile storage to drain to lower pressure levels while maintaining rated flow through the PRS

Accessories

- Line-pack module
- Discharge gas flow meter
- Air actuated control valves
- Full enclosure
- Dual boiler arrangement for redundancy
- Dual train regulation system
- Remote Monitoring
# Technical Specifications

## Medium to Decompress
SWEET, DRY NATURAL GAS

## Maximum Allowable Gas Dewpoint
-51°C (-60°F)

## Recommended Gas Dryness
0.62 LBS/MMSCF

## Design Ambient Temperature
-40–40ºC (-40–95ºF)

## Design Inlet Piping Pressure
275 BAR (4000 PSIG)

## Design Outlet Piping Pressure
19.3 BAR (280PSIG)

## Inlet Pressure Range
10.3–250 BAR (150-3625 PSIG)

## Gas Inlet Temperature Range
-40–40ºC (-40–95ºF)

## Gas Outlet Pressure Range
1.6 - 6.2 BAR (25-90 PSIG)

## Gas Outlet Temperature Range
-10-45ºC (14-110ºF)

## Design Flow Rate Over Full Trailer Inlet Pressure Range
<table>
<thead>
<tr>
<th>SCFM</th>
<th>NM³/H</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 - 500</td>
<td>80 - 800</td>
</tr>
</tbody>
</table>

## Supply Voltage
- 50Hz Countries: 50HZ | 380-400VAC | 120/200V
- 60Hz Countries: 60HZ | 380-400/460-480/575-600VAC 120/200V

## Phases
1

## Typical Outlet Pressure
4.8 – [+0.6/-0.6] BAR (70 – [+10/-10] PSIG)

## Typical Outlet Temperature
20 – [+10/-10] ºC (68 – [+18/-18] ºF)

## Design Elevation
0-1000 MASL (0-3300 FASL)

## Pressure Regulation
- Two Stage
- Pneumatic Actuated Decant Valve and PRM Inlet Valve close on ESD
- First Stage Regulation: Fail-Closed Pressure Control Valve, Controlled by PLC
- Second Stage Regulation: Pilot-Operated Spring Regulators

## Over Pressure Protection 1 Stage
- Relief Valves and High Pressure Alarm.

## Over Pressure Protection 2 Stage
- Monitor Regulator, Burst Disc and High Pressure Alarm

## Gas Heating
- Natural Gas Fired Boiler with Shell & Tube Heat Exchangers

## Filtration
- High Pressure Particulate Filter Upstream of Control Valve and Regulator

## Flow Meter
- Integral Ultrasonic Flow Meter Located on Low Pressure Gas Outlet Line

## Gas Inlet Connections
- Dual 1" CNG Hoses

## Gas Outlet Connection
- 3” 150# RF Flange Located at Rear of Trailer.

## Modules
- Decanting Modules, Pressure Reduction Module, and Heating & Controls Module integrated in a single package

## Dimensions
- TRAILER: 327” L X 93” W X 124” H (8300MM X 2360MM X 3150MM)

## Approximate Weight
- 8,200 KG (18,000 LBS)

## Electrical Classification
- PRM: C1D1 & C1D2
- HCM: Non-Hazardous

## Code Compliance
- ANSI, ASME, NFPA, UL, CSA, CE

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**Graph:**

- FlowRate [CLM/H]
- InletPressure [PSIG]

**X-axis:** Elapsed Time [minutes]

**Y-axis:**
- FlowRate: 0 to 2500 [CLM/H]
- InletPressure: 0 to 3000 [PSIG]
PROJECT MANAGEMENT
Clean Energy Compression has a dedicated Program Management office that oversees projects in all phases; including initiation, planning execution, monitoring, control, and completion. All projects include a project charter, stakeholder register, responsibility assigned matrices, and project schedule.

MANUFACTURING
A global leader in manufacturing CNG and LNG fueling systems, Clean Energy Compression meets or exceeds standards for ISO 9001:2008 Quality Management System as well as extensive safety and environmental protocols. Clean Energy Compression offers complete CNG fueling systems that are tested in house with Natural Gas and don’t leave the factory until they are 100% certified field-ready.

SERVICE
All Clean Energy Compression projects are supported by a global service network. Customer Care representatives closely monitor performance of units in the field in real-time 24/7. A global network of parts and service providers are available for first-class support on all products.