nublu ENERGY

CNG PRESSURE REDUCTION SYSTEM

TRAILER PRESSURE IN SITE PRESSURE OUT

BUILT FOR HIGH-VOLUME CNG

PRS G8000

Overview

CNG delivered from trailers arrives at high pressure and drops sharply on its way to site pressure. That pressure drop cools the gas - fast enough to freeze regulators, valves, and downstream equipment if the heat isn't put back in. The PRS-G8000 solves that with a 2 MMBTU glycol bath heater sized for continuous delivery up to 8 MMSCFD.

Redundant control valve (stage 1) and Mooney regulator (stage 2) circuits keep gas flowing even during maintenance. User-definable outlet PSVs and onboard fuel gas mean the unit ships ready to drop on site, hook up, and run.





WHY THE PRS-G8000

High-Volume Glycol Bath Heating
2 MMBTU glycol bath heater sized for continuous 8 MMSCFD delivery. Keeps gas above hydrate and freeze conditions even during sustained high-flow operation.

Redundant Pressure Control
First-stage cut by two parallel control valve circuits; second-stage cut by two parallel Mooney regulator circuits. Run on one, service the other. No shutdown required for routine maintenance.

Mobile, Trailer-Mounted Package
Trailer-mounted footprint under 30 ft. Roughly 43,000 lbs. Designed to be moved between sites and operated wherever CNG trailers are staged.

Fully Automated
PLC-based control system with HMI and remote monitoring via Ewon. Trailer swap logic, multi-trailer mode, and start-up sequencing all handled in software.

Onboard Fuel Gas
Self-supplied fuel gas for the heater burner. No external fuel hookup required to start producing heat.

Built for Demanding Applications
Used in dual-fuel frac, e-frac, drilling, power generation, pipeline integrity work, and peak shaving. Engineered for the duty cycles and uptime those operations demand.

Built and Tested In-Shop
Final assembly, FAT, loop checks, and HMI commissioning happen in our shop. Issues get caught in the shop, not on your site.

SPECS:

Compression Stages	2-stage standard (3 and 4 stages optional)
Heater Type	Glycol bath, 2 MMBTU
Flow Rate	0.5 to 8 MMSCFD
Inlet Pressure	Up to 5,000 psig (CNG trailer service)
Outlet Pressure	User-defined; set per application
Pressure Control	Control valves (stage 1); Mooney regulators (stage 2)
Overpressure Protection	User-definable outlet PSVs
Fuel Gas	Onboard fuel gas system
Automation	Fully automated PLC + HMI; remote monitoring via Ewon
Footprint	Trailer-mounted, under 30 ft, approx. 43,000 lbs
Design Standards	ASME Sect. VIII Div. 1, B31.3, NEC, NFPA
Skid	Single skid, fully assembled and FAT tested in shop

Final outlet pressure, valve trim, and PSV settings are configured to your application. Contact engineering for a sized proposal.

Applications:
- Dual-fuel frac and e-frac fleets
- Drilling rig fuel gas supply
- Mobile and temporary power generation
- Pipeline integrity work and pipeline pack-up
- Peak shaving and standby gas service
- Remote site CNG-to-line pressure conversion

PRS G8000

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877-520-4018

What's Included:

- Trailer-mounted skid with glycol bath heater, control valves, and process piping
- Stage 1 control valve / stage 2 Mooney regulator circuits
- User-definable outlet PSVs
- Onboard fuel gas system
- PLC, HMI, and field instrumentation, wired and tested
- Trailer-swap and multi-trailer control logic
- Cause-and-effect diagram, control narrative, and FAT package
- ASME-stamped pressure vessels, B31.3 piping
- Installation, commissioning, and start-up procedure
- Recommended spare parts list and pricing

Engineering and Aftermarket Support:

Every PRS-G8000 ships with a complete engineering package: P&IDs, GA drawings, electrical load lists, and a full O&M manual. Critical spares - including control valve trims and instrumentation - are stocked at our shop for fast response.

Field service, troubleshooting, and remote diagnostics are handled by the same team that designed and built the unit.

PRS Family at a Glance

Glycol Bath (PRS-G Series) - for high-volume delivery with continuous, reliable heating:

- PRS-G8000 - up to 8,000 MSCF/d
- PRS-G4000 - up to 4,000 MSCF/d
- PRS-G2000 - up to 2,000 MSCF/d
- PRS-G750 - up to 750 MSCF/d

Catalytic Heater (PRS-C Series) - for compact, flame-free efficiency at mid-size and smaller loads:

- PRS-C720 - up to 720 MSCF/d
- PRS-C360 - up to 360 MSCF/d

Ready to size the right PRS for your project?

Send us your inlet pressure, target outlet pressure, and flow requirement, and we'll come back with a configured PRS-G8000 package.

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