



CNG MRU



SinoCleansky
Gas Container & Solution

(Mobile Refueling Unit)

CNG Daughter Station Solution for NGV

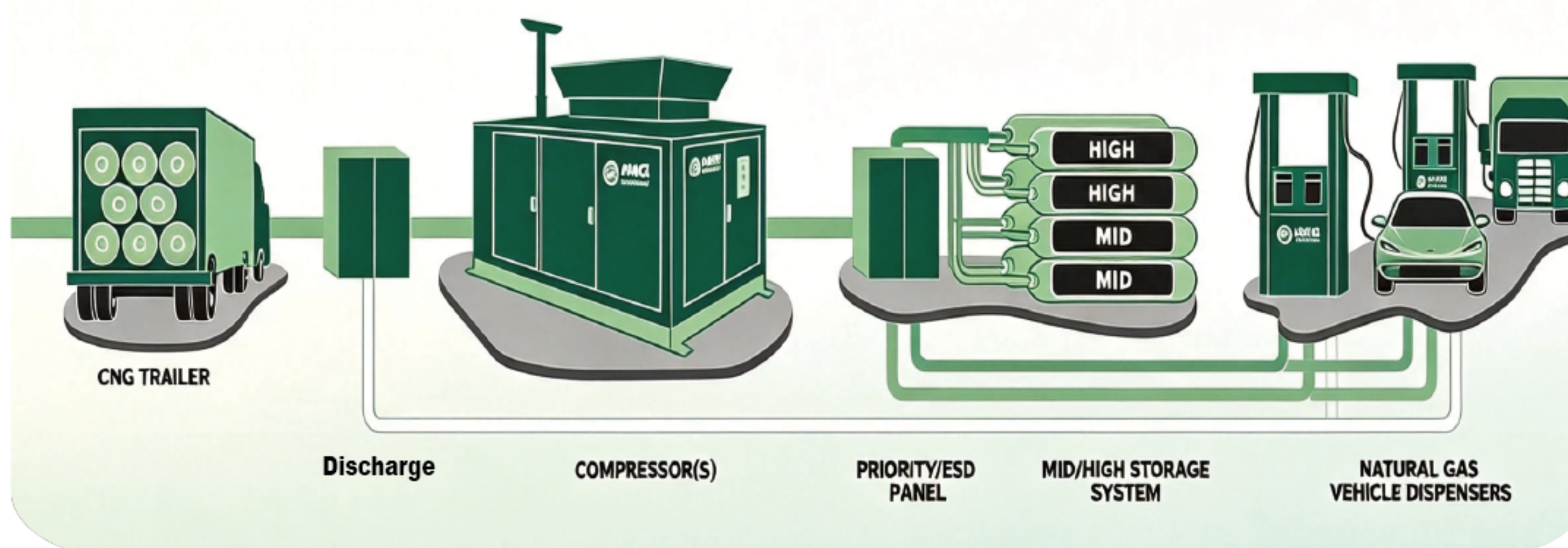
Sinocleansky's new MRU is a self-contained CNG daughter station: hydraulic-driven, oil-free, PLC-automated, convenient and cost-effective.

Our hydraulic compressors combines **vector frequency conversion**, complete **oil-gas isolation** and **a vector piston pump** — delivering clear advantages in energy consumption, gas loss, noise and maintenance.



One unit, one refueling station

Along with SinoCleansky CNG Jumbo Tube Trailer, the skid-mounted CNG daughter station produced by SinoCleansky integrates compression, storage, refueling, and control process into one compact system. Ready to run upon installation, it provides a complete NGV fuel solution for areas without pipeline.



Tailored to your application, ready to deploy in days!



Tel : +86-10-64709959 E-mail : sales@sinocleansky.com
Beijing SinoCleansky Technologies Corp.



廿载共携手，瓶罐通全球
20 Years on Gas Container & Solution



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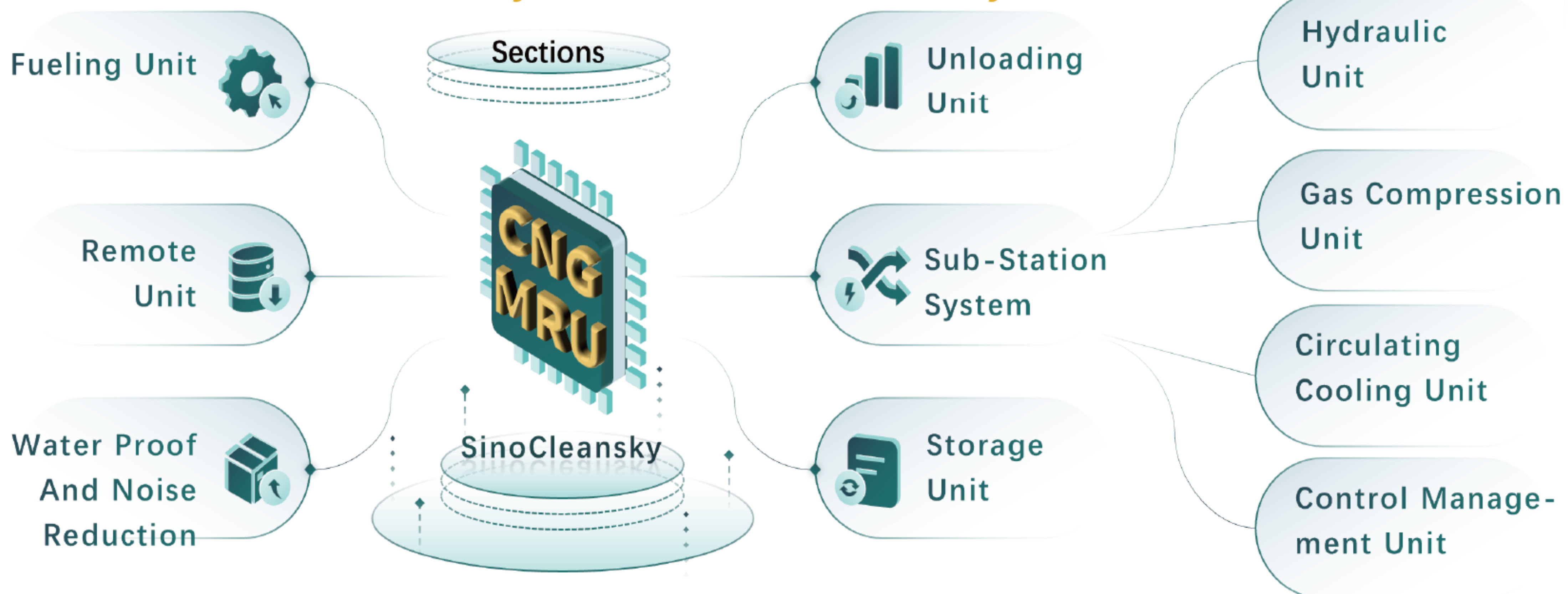


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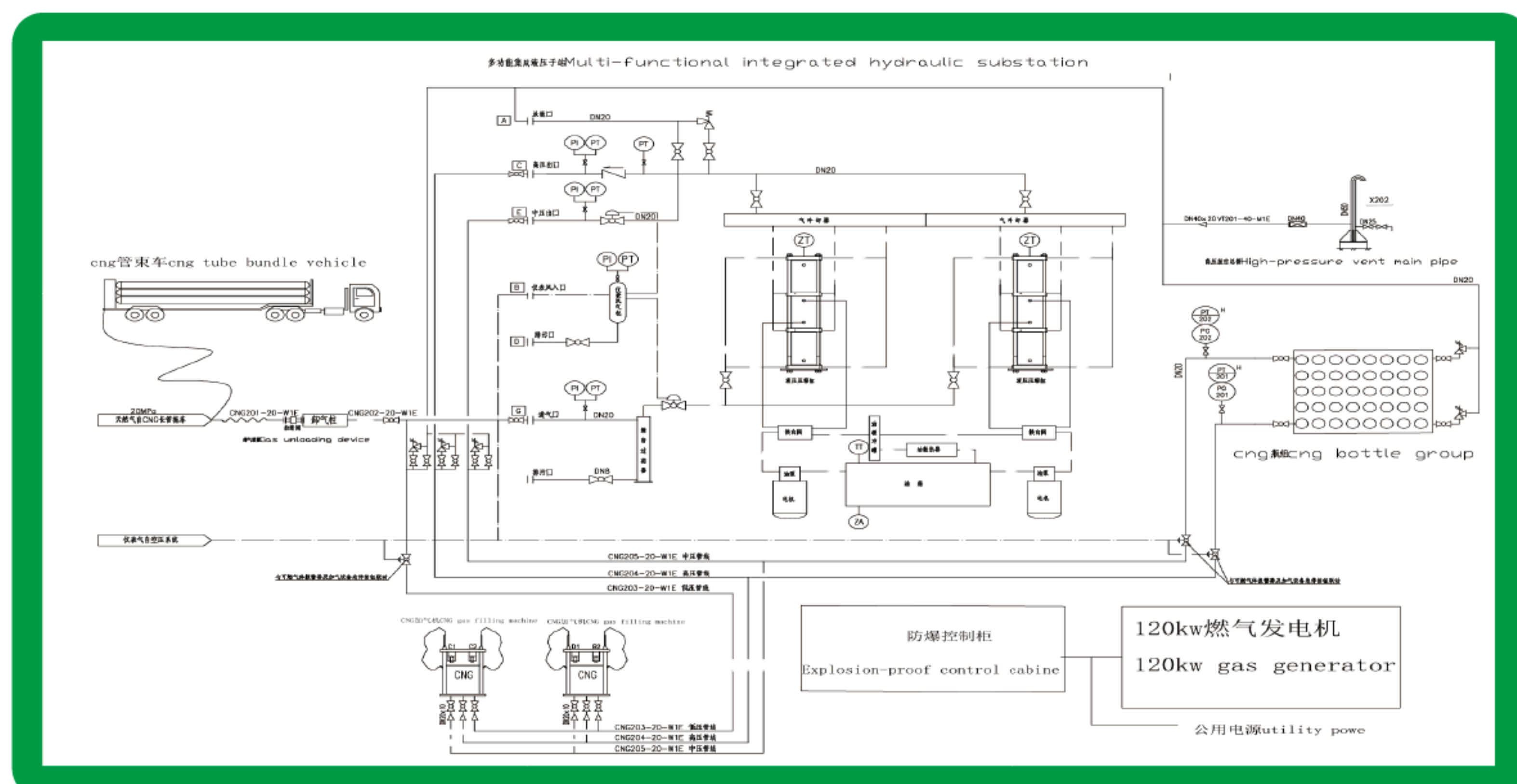
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CNG MRU – ONE SKID

The sections of CNG MRU system from SinoCleansky



The one-stop CNG MRU solution built on SinoCleansky's virtual pipeline



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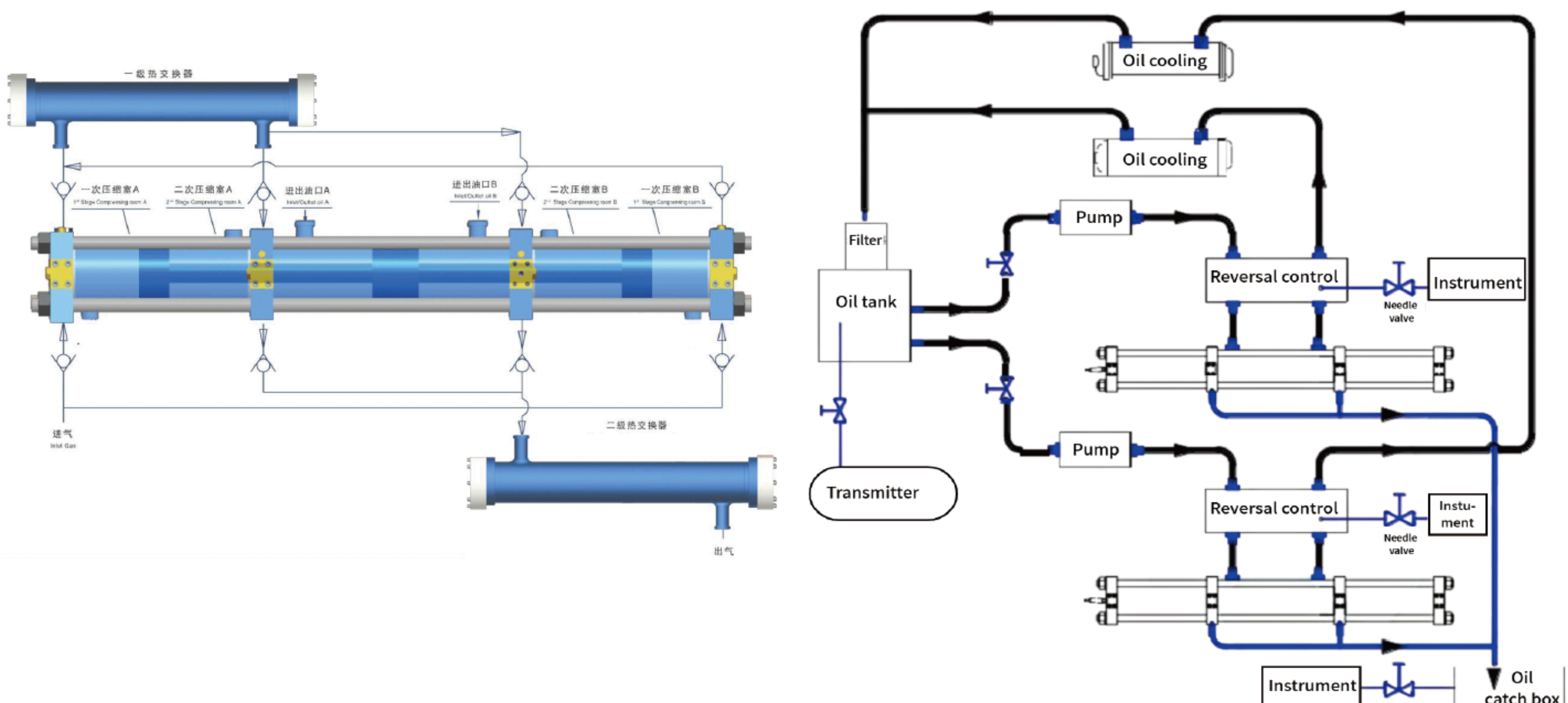
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CNG MRU – ONE SKID

One skid. One container. A complete CNG MRU



Working principle of the SinoCleansky CNG hydraulic piston compressor



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5 Key Advantages

Cleaner CNG Quality

A two-stage sealing system — oil seal, gas seal, and a leak outlet in between — fully isolates the hydraulic oil from the gas chamber

Any oil that gets past the oil seal drains directly into an external catch box, so oil can never enter the gas chamber

Hydraulic oil and natural gas remain completely separated, protecting the compressor, dispenser piping, vehicle fuel lines and engines from oil contamination

All systems — compression, hydraulic drive, cooling, PLC control, and sound insulation all in one. TCP/IP-based control resists interference

Integrated into a single frame, minimizing the equipment footprint
Four-sided access doors make installation and maintenance simple

Suitable for residential area and easy to do Re-deployment

Higher Space Utilization

Higher Operating Efficiency

- Compression cylinder extended from 400 mm to 420 mm — gas volume up 5%
- An inlet buffer tank stabilizes gas supply and reduces pressure drop, especially at low inlet pressure
- Each cylinder is fed independently — no uneven distribution from shared manifolds
- Vector variable - frequency oil pump delivers constant power: low inlet pressure means higher flow, faster piston speed, and quicker refueling
- Precision reversal control ensures complete gas discharge on every stroke
- Host-computer intelligence coordinates single- and dual-cylinder operation for maximum efficiency
- Medium/high-pressure cascade switching plus solenoid-piloted pneumatic valves — fast response, zero waiting during refueling

Superior Control

A host-computer management system monitors equipment parameters and operating status in real time

Data-bus and network-based transmission technology, it delivers industry-leading control accuracy and response speed

Cuts power consumption by approximately 20%, and removes the need for on-site reactive power compensation equipment.

As a machinery manufacturing company, SinoCleansky produces the entire CNG compressor mainframe in-house — no outsourced core parts

Our complete production line covers drawing, machining, heat treatment, surface finishing, and assembly & inspection.

Strict ISO 9001 quality management, high-precision equipment and an experienced technical team stand behind every unit.

Higher Quality Standards



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Main Equipment of MRU

Oil stays out. Gas stays pure.

Compressor

- Two-stage sealing and oil-leakage protection keep CNG cleaner
- Longer compression cylinder design results in 5% increase of gas volume

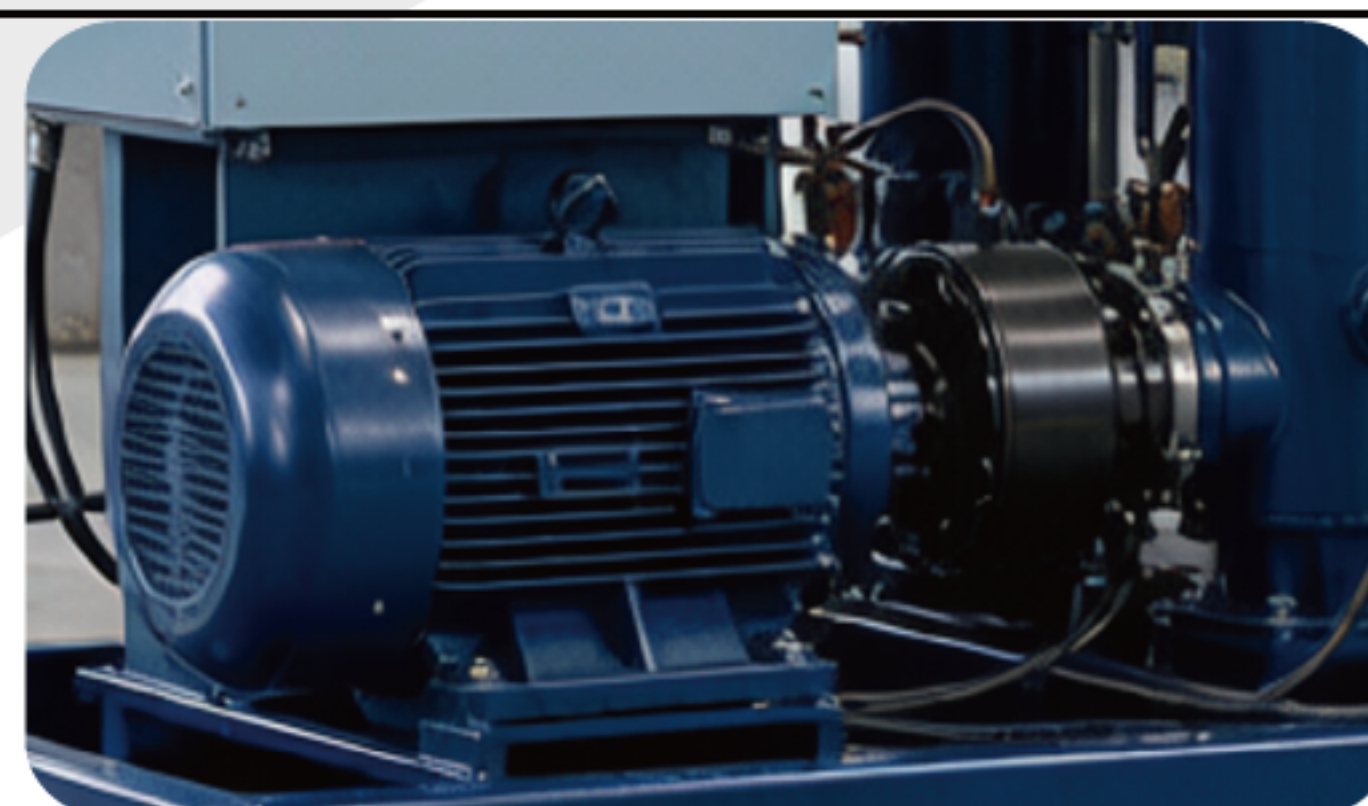


Gas storage cascade

- Capacity 2~3m³, ISO11439 standard seamless steel cylinders combined storage zone
- Design high/medium-pressure coordinator shortens switching time
- No waiting during refueling

Power system

- Explosion-proof electric power, variable frequency speed regulation, energy saving
- Independent forced cooling
- Stable operation even at low frequencies
- Soft start limits inrush current



Unloading unit:

Dual hose connection to the CNG trailer

PLC Explosion-proof control cabinet:

Centralized automation, interlock protection, remote monitoring and communication

Dispenser :

Dual guns, dual meters, remote control

Silenced Cabinet

- Low noise: ≤ 70 dB, suitable for residential areas
- Rain-proof: H-type steel, multi-layer sound insulation, seamless exhaust system
- Four-sided access doors design for easy installation and maintenance





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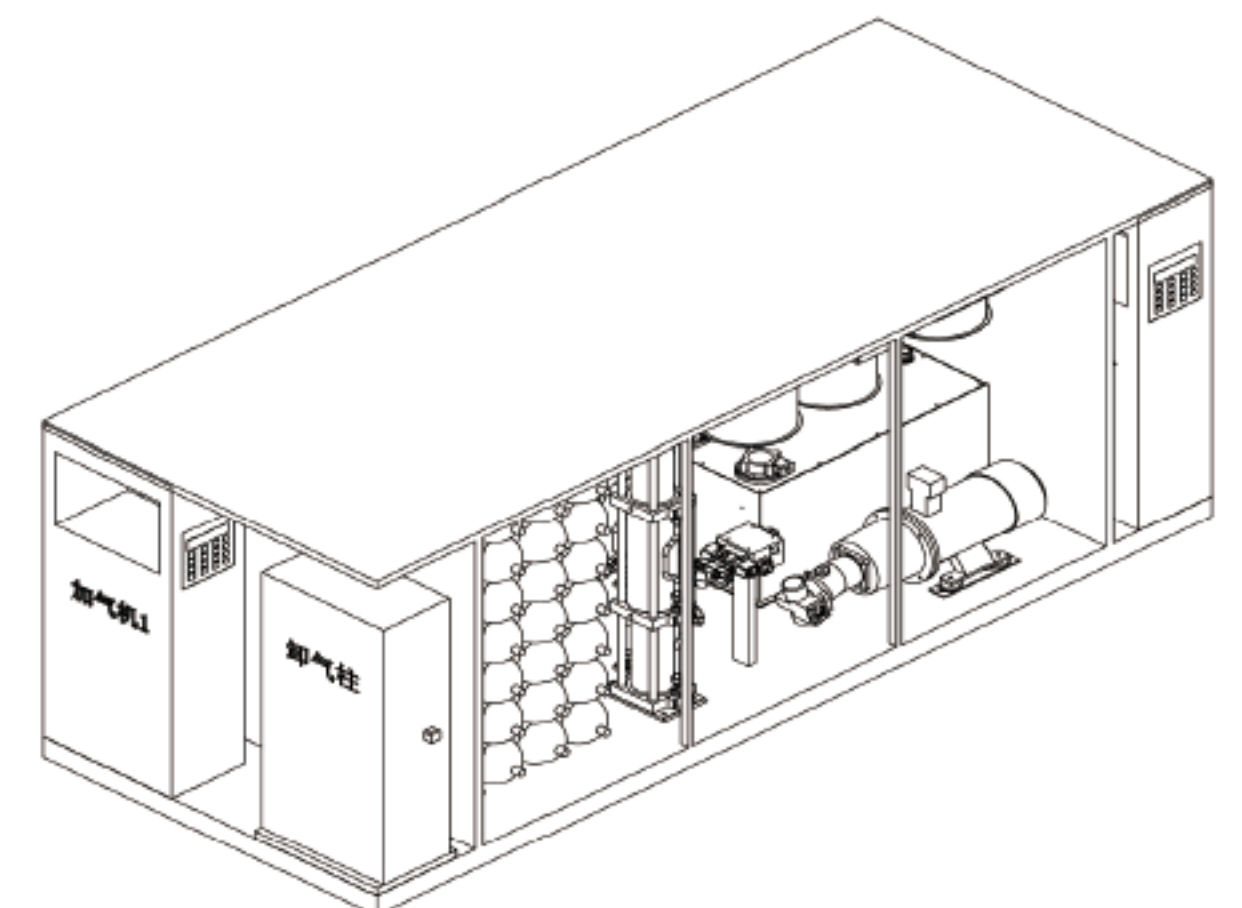
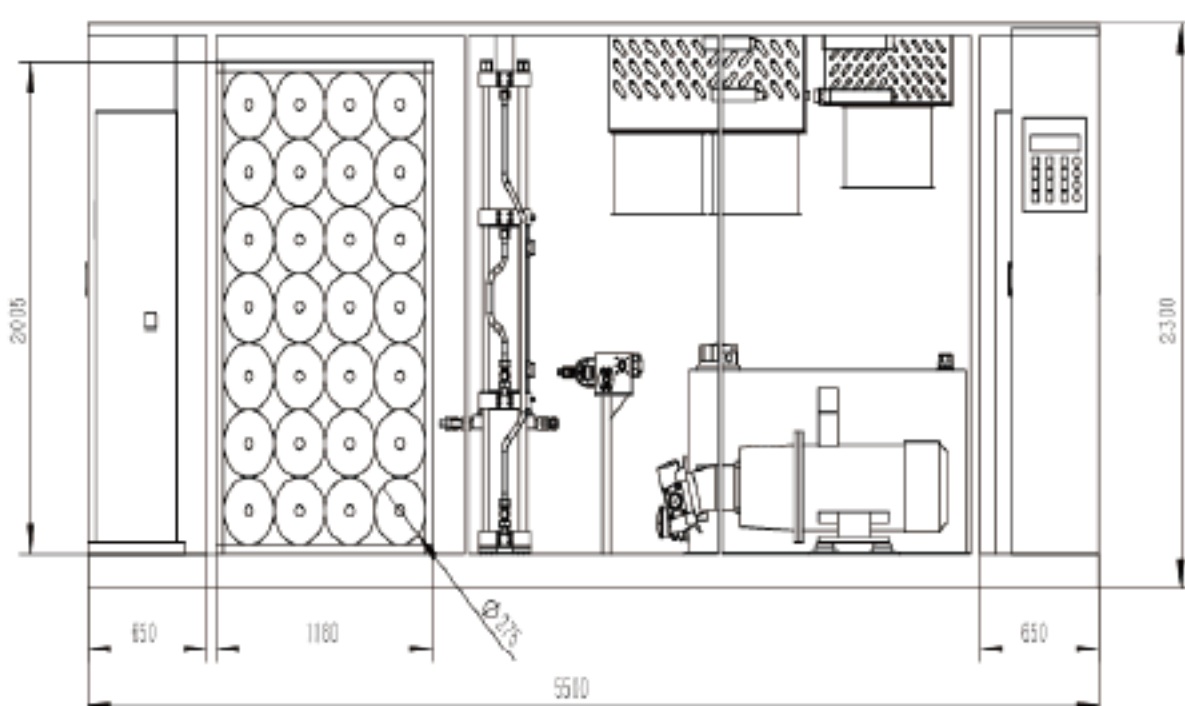
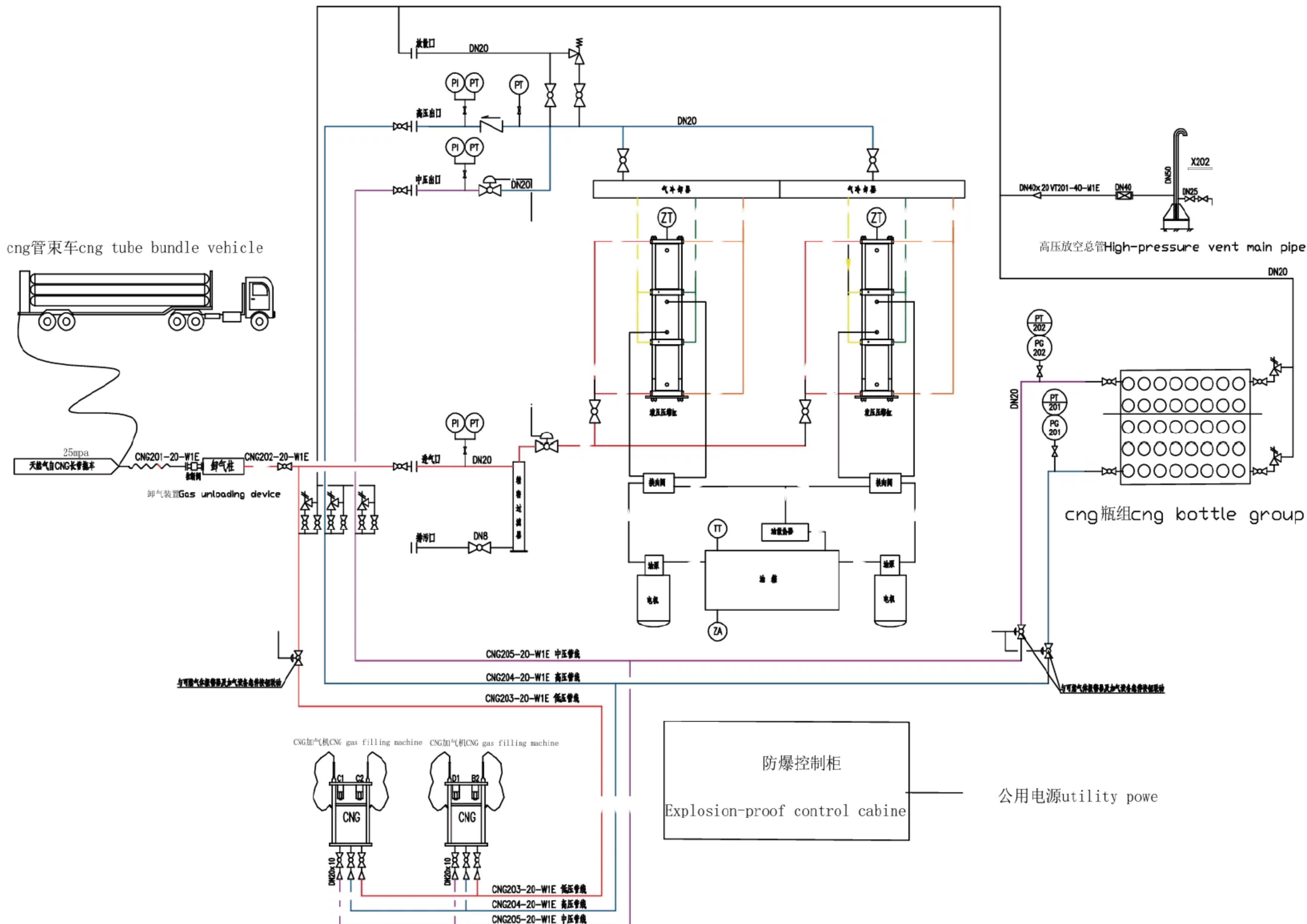
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Design of Dual-line

Dual Compressors

多功能集成液压子站 Multi-functional integrated hydraulic substation



Multi-functional integrated hydraulic daughter station



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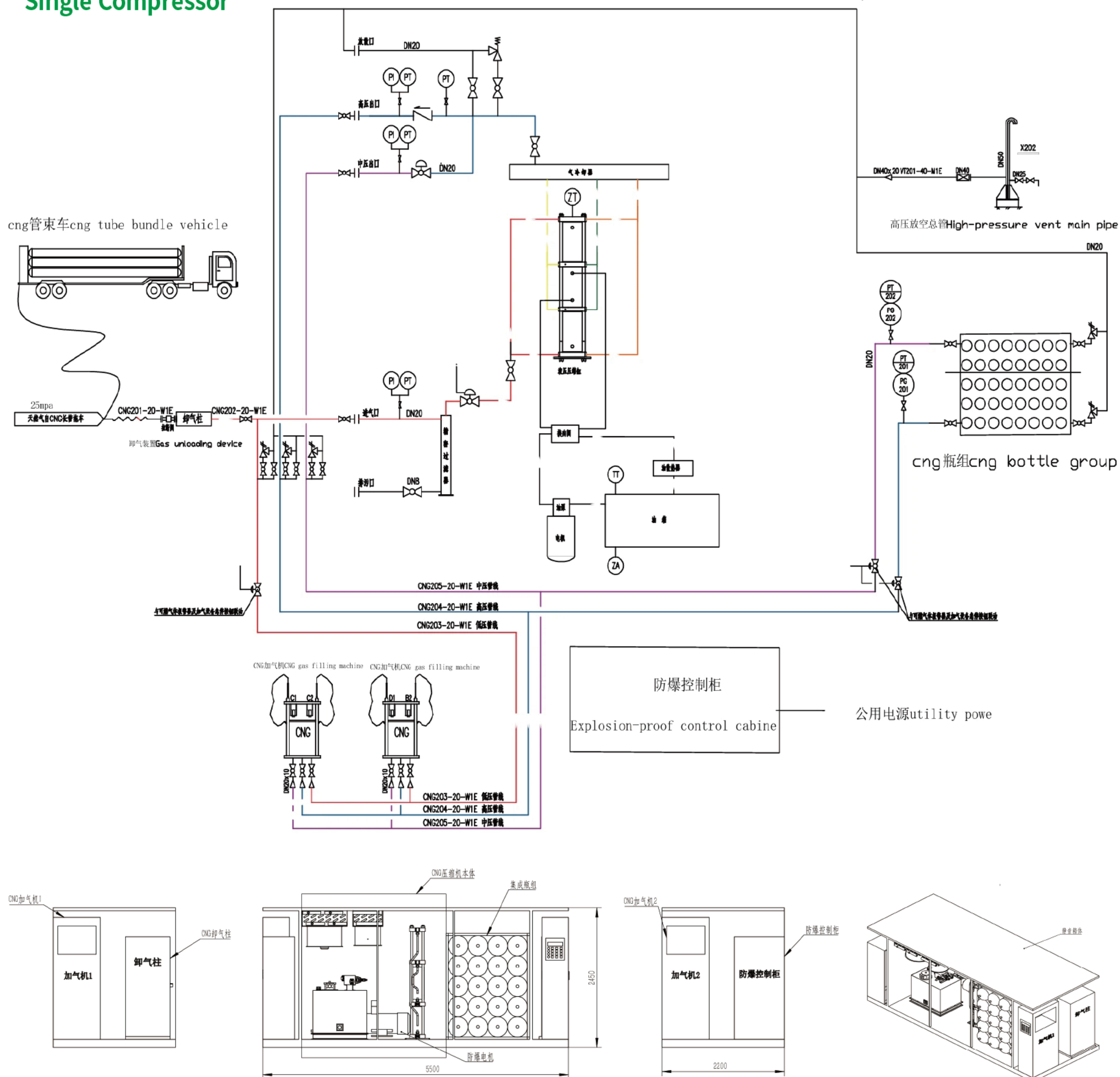
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Design of Single-line

Single Compressor

多功能集成液压子站Multi-functional integrated hydraulic substation



Multi-functional integrated hydraulic daughter station



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Parameters

Talk to our experts – let's size your project

Item/Model	SCS-CNG-MRU800	SCS-CNG-MRU1200	SCS-CNG-MRU1600	SCS-CNG-MRU2400
Flow rate	800Nm ³ /h	1200Nm ³ /h	1600Nm ³ /h	2400Nm ³ /h
Medium	CNG	CNG	CNG	CNG
Frame	Skid	Skid	Skid	Skid
Dimension LxWxH(mm)	5500*2100*2450	5500*2100*2450	5500*2100*2450	5500*2100*2450
Equipment weight(kg)	4000	4500	5000	5500
Working pressure(MPa)	25	25	25	25
Compressor model	SCS-CNG800-S	SCS-CNG1200-S	SCS-CNG1600-D	SCS-CNG2400-D
Compressor stage	2	2	2	2
Engine working principle	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Lubirication	Oil-free	Oil-free	Oil-free	Oil-free
Gas unload temperature	≤45℃	≤45℃	≤45℃	≤45℃
Gas filling temperature	<50℃	<50℃	<50℃	<50℃
Rated power	37kw	45kw	37kw*2	45kw*2
Noise	≤70dB(A)	≤70dB(A)	≤70dB(A)	≤70dB(A)
Gas Storage Cascade	3m ³	3m ³	2.24m ³	2.24m ³
PLC Controller	1	1	1	1
Discharge Post (unit)	1	1	1	1
Dispenser (Dual guns / Unit)	2	2	2	2
Sequential control panel	1	1	1	1

Customized to your on-site application



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