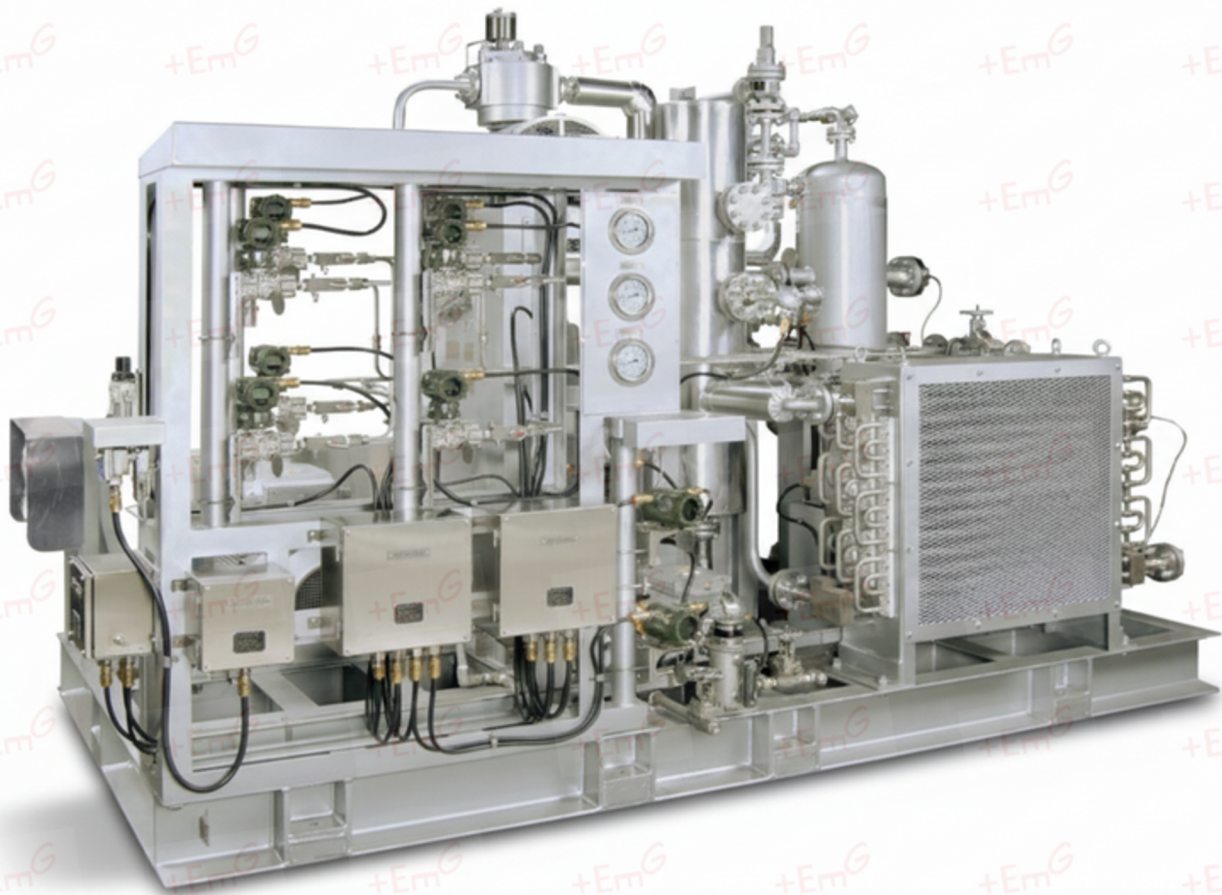


Nitrogen Compressor Package - Model VS2A-22GH-OL



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**高圧ガス設備
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MAB 133

認定 熱交換器、往復動式圧縮機・管類・弁類
機器 その他の附属機器類・複合機器

1. Product Overview

The Model VS2A-22GH-OL is a 2-stage, air-cooled vertical reciprocating compressor designed for nitrogen gas service in environments where water cooling utilities may be unavailable or impractical.

Featuring an oil-free cylinder design, this unit ensures high-purity nitrogen compression without contamination. The air-cooled configuration significantly simplifies installation and maintenance by eliminating the need for cooling water piping and towers, making it ideal for remote industrial sites or standalone nitrogen generation packages.

2. Technical Specifications

2.1 A. Operational Conditions

Parameter	Value	Unit
Handled Gas	Nitrogen (N ₂)	-
Capacity (Flow Rate)	125	m ³ /h
Suction Pressure	6.2 ~ 6.9	barG
Discharge Pressure	5,601	kPaA

2.1 B. Mechanical Data

Parameter	Value	Unit
Compressor Type	Vertical Reciprocating	-
Cooling Method	Air-Cooled	-
Number of Stages	2	Stages
Lubrication Type	Oil-Free	Cylinder
Motor Output	18.5	kW
Drive System	V-Belt Drive	-

3. Key Design Features & Advantages

- **Air-Cooled Design:** Eliminates cooling water requirements, reducing utility costs and simplifying installation in remote or water-scarce locations.
- **2-Stage Compression:** Enables efficient compression to higher pressures (up to ~56 barA) compared to single-stage units.
- **Oil-Free Gas Path:** Prevents oil migration into the nitrogen stream, ensuring process purity.
- **Compact Vertical Frame:** The vertical arrangement saves valuable floor space and allows for easy skid mounting.

6. Project Reference

SONATRACH (Algeria). Nitrogen Compressor for Oil/Gas Facility. Status successfully commissioned and operating.

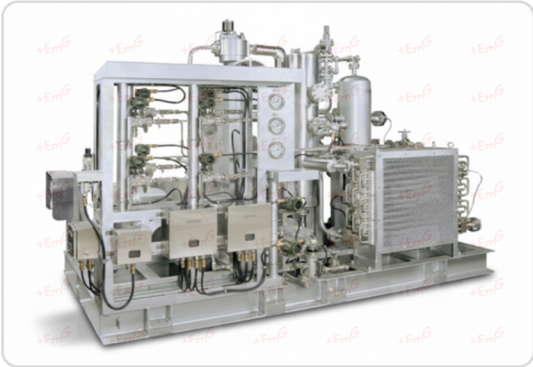


Figure 1: VS2A-22GH-OL

4. Applications

- **Nitrogen Generation Plants (PSA/Membrane):** Booster compression for product gas.
- **Remote Facilities:** Oil & Gas fields or processing plants lacking cooling water infrastructure.
- **Instrument Air/Gas:** High-pressure pneumatic supply.
- **Pipeline Purging:** Mobile or stationary purging units.

5. Scope of Supply

The standard package typically includes:

- VS2A Compressor Bare Block (Air-Cooled).
- 18.5 kW Main Driving Motor.
- Air-Cooled Heat Exchangers (Radiator Type).
- Common Baseplate / Skid.
- Suction/Discharge Dampeners & Local Panel.