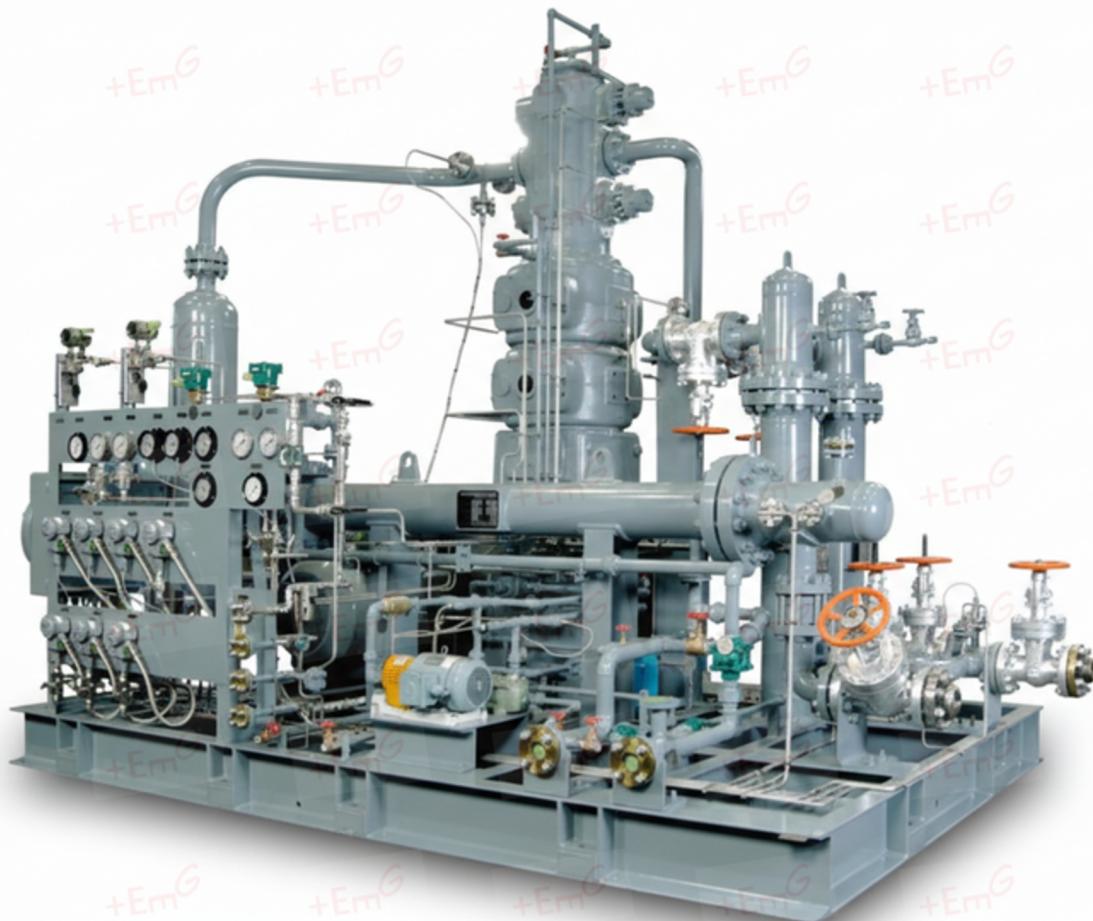


Technical Data Sheet

Hydrogen Compressor Package - Model VS-75GH-OL



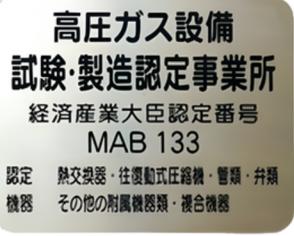
QUALITY MANAGEMENT SYSTEM ISO 9001



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1. Product Overview

The Model VS-75GH-OL is a vertical reciprocating compressor unit with an oil-free design specifically engineered for hydrogen gas service.

Unlike horizontal configurations, this vertical setup provides a compact footprint for space-constrained installations while maintaining high stability. This unit is ideal for chemical industries, energy sectors, and hydrogen fueling systems that require high-purity compression.



Figure 1: VS-75GH-OL

2. Technical Specifications

2.1 A. Operational Conditions

Parameter	Value	Unit
Handled Gas	Hydrogen (H ₂)	-
Capacity (Flow Rate)	1,000	Nm ³ /h
Suction Pressure	11	kg/cm ² G
Discharge Pressure	34	kg/cm ² G

2.1 B. Mechanical Data

Parameter	Value	Unit
Compressor Type	Vertical Reciprocating	-
Cylinder Configuration	Vertical Single-Crank	-
Number of Stages	1	Stage
Lubrication Type	Oil-Free	Cylinder
Cooling Method	Water-Cooled	-
Motor Output	75	kW

3. Key Design Features & Advantages

- Vertical Configuration:** Minimizes installation footprint, ideal for skid-mounted packages and tight plant layouts.
- 100% Oil-Free Gas Path:** Guarantees hydrogen gas purity without oil contamination, critical for downstream catalyst protection.
- High Reliability:** Engineered to handle the specific properties of hydrogen gas (leakage prevention & material compatibility).
- Efficient Cooling:** Water-cooled cylinders ensure stable thermal control during compression.

6. Project Reference

Major Korean Company. Hydrogen Gas Compression. Successfully commissioned and operating.