



Centrifugal · Oil-Free

H4000 Centrifugal Air Compressor

High-power centrifugal compressor for the most demanding large-scale industrial and energy applications.

TECHNICAL SPECIFICATIONS

Model	H4000
Type	Centrifugal (Oil-Free)
Flow Rate	381 – 565 m ³ /min
Discharge Pressure	2 – 12 bar-G
Motor Power	1,500 – 3,500 kW
Dimensions (L×W×H)	6500 × 2900 × 3500 mm
Unit Weight	28 – 33 T
Cooling Method	Water-cooled intercooler
Control System	PLC + LCD Touchscreen
Communication	Modbus Protocol
Lubrication	Oil-free
Bearing Type	5-pad tilting pad bearings
Standards	IEC / GB

KEY FEATURES

- ▶ **100% Oil-Free Output** — Advanced labyrinth sealing ensures zero oil contamination in the compressed air stream — suitable for sensitive process applications.
- ▶ **Anti-Surge Protection** — Real-time pressure monitoring with automatic surge-line compensation — reduces energy use and protects the machine.
- ▶ **Straight-Tube Intercooler** — Removable straight-tube heat exchangers for easy cleaning. Corrosion-resistant construction for long service life.
- ▶ **3D Swept Impeller** — Five-axis CNC machined backward-swept impeller blades for high aerodynamic efficiency and fatigue resistance.
- ▶ **PLC Intelligent Control** — LCD touchscreen with real-time parameter display, automatic alarm and interlock shutdown. Modbus integration ready.
- ▶ **AGMA Grade 13 Gearbox** — Forged alloy-steel gearbox with carburized tooth surfaces for high load capacity and long service life.

Hovol Air — a product line of Hovol Global

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Centrifugal specs measured at 35°C, 80% RH, 100 kPa inlet, 32°C cooling water. Subject to change; custom configurations available.

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