



Centrifugal · Oil-Free

## H3000 Centrifugal Air Compressor

Heavy-duty centrifugal compressor for large-scale air supply in petrochemical, steel and power generation.

### TECHNICAL SPECIFICATIONS

|                    |                               |
|--------------------|-------------------------------|
| Model              | H3000                         |
| Type               | Centrifugal (Oil-Free)        |
| Flow Rate          | 295 – 380 m <sup>3</sup> /min |
| Discharge Pressure | 2 – 12 bar-G                  |
| Motor Power        | 1,000 – 2,300 kW              |
| Dimensions (L×W×H) | 5250 × 2500 × 2800 mm         |
| Unit Weight        | 15 – 20 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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