QUALITY
AND INNOVATIONS
MADE IN GERMANY.

Decades of experience and excellent performance

ALMiG is one of the leading compressed air technology system providers and has decades of experience delivering premium products in the compressed air sector. Companies all around the world trust in our customer focused solutions, our quality, innovation and flexibility. Our advanced compressor technologies combine excellence with the quietest possible running performance, optimal energy efficiency and particularly careful conservation of resources.

Ongoing development and comprehensive industry knowledge

Constant research and development form the essential foundation for the efficiency of every system manufactured by ALMiG. Only these constant enhancements and improvements enable us to react quickly and flexibly to individual customer wishes. This attitude is complemented by a comprehensive understanding of the sector: we understand the challenges that our customers are faced with and the requirements that arise as a consequence. ALMiG offers effective solutions for a wide range of applications – from small craft workshops to medium-sized companies to big industry.

Complete service and maximum availability

The highest quality technological solutions deserve an equally high level of service. The ALMiG service provisions offer our customers a complete service programme: from providing comprehensive advice to ensuring availability, improving cost-effectiveness and developing energy-saving potential. As an expert partner, ALMiG offers its customers advice and support on all issues. Our goal is to contribute to your economic success with our service offerings.

ALMiG:
Compressor Systems
Made in Germany

Piston compressors
Screw compressors
Turbo compressors
Scroll compressors
Special installations
Controllers
Compressed air treatment
Services
G-DRIVE T

Highest efficiency in class

With the two stage G-Drive T series ALMiG sets new standards in energy efficiency. By compressing air in two stages they achieve a specific performance which is at the highest level. Therefore, the G-Drive T compressor series offers a higher volume flow with a lower input power consumption, in comparison to an equivalent single stage compressor. Low rotational speeds and lower internal compression ratios within the compressor stages increase the efficiency, reliability and lifetime of the compressor elements. State of the art efficiency, coupled with a low sound level and low service costs, makes the two-stage technology very interesting for industrial compressed air users.

The G-Drive T offers all these benefits, plus a compact footprint due to its well-thought-out design. With a look to Industry 4.0, the controller of the compressor has all the required functionalities to communicate with common industrial company systems. Or simply use the web server to monitor the compressor from anywhere.

Advantages:
• Due to the high efficiency of the compressor maximum energy savings can be achieved and the life cycle costs of the machine can be reduced
• Up to 15% greater energy savings in comparison to a single stage compressor
• Durable and reliable
• Low differential pressures
• Reduced heat load
• Easy maintenance and service

The unique design of the airend integrates the first and second stage into one compressor element. The rotors of both air ends achieve the optimal speed due to the gear drive.

An efficient compression is achieved by using a cooling oil mist for interstage cooling. This controlled amount of oil enables at the same time to avoid condensate in the second stage. A complicated and expensive separate interstage cooling is not necessary and reliability increases.

Application
Industry
Power output
90 - 315 kW
Volume flow acc. to ISO 1217 (Annex C-2009)
14.9 - 62.7 m³/min
Operating pressure
5 - 13 bar
Cooling
Air-cooled
Drive
Gear
Motor
Energy efficiency class IE 3, IP 55 protection, protection class F

Efficient screw compressor technology
Low rotational speeds together with lower internal pressure ratios ensure a long durability
Efficiency and ease of maintenance made for lower life cycle costs
Stable base frame
With vibration dampeners

Heavy duty suction filter
Best possible filtration and easy maintenance

Energy-efficient IE3 Motor
with long bearing life

Oil lubricated two stage compression
Best possible efficiency, integrated gear drive and robust durable design

Industry 4.0
Smart controller that monitors, visualises and documents

AIR CONTROL HE

Standard

Screw compressors
G-Drive T
## G-DRIVE T

### 50 Hz

<table>
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<th>Model</th>
<th>8 bar m³/min</th>
<th>10 bar m³/min</th>
<th>13 bar m³/min</th>
<th>kW</th>
<th>Length mm</th>
<th>Width mm</th>
<th>Height mm</th>
<th>Weight kg</th>
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</table>
The two-stage compression is almost isothermal and requires up to 15% less power consumption than single-stage compression.

**Single-Stage Compressor**
- FAD @8,0bar: 46.50 m³/min
- Input Power: 300 kW
- \( P_{\text{spec.}} \): 6.45 kW/(m³/min)
- Air demand/Year*: 22,320,000 m³
- „Load“ h/Year: 8,000 h
- Energy costs: 0.10 €
- „Load“ c/Year: 240,000 €
- Ø Net Price: 70,000 €

**G-DRIVE T 52**
- FAD @8,0bar: 51.50 m³/min
- Input Power: 300.50 kW
- \( P_{\text{spec.}} \): 5.83 kW/(m³/min)
- Air demand/Year*: 22,320,000 m³
- „Load“ h/Year: 7,223 h
- Energy costs: 0.10 €
- „Load“ c/Year: 217,060 €
- „Load“ savings/Year: 22,940 €
- „Load“ savings/Month: 1,912 €
- „Load“ savings/Day: 64 €
- Ø Net Price: 90,000 €
- Price Balance: 20,000 €
- Payback Time: 0.87 years / 10 months

*8000 operating hours per year, starting from the compressor with the lower delivery quantity.
CONTROLLERS

Smart monitoring, reliable documentation
In the future it will be even easier to remotely monitor your compressed air generation thanks to visualisation via the ALMiG web server – regardless of where you happen to be at the time. The system ensures high reliability with convenient access to various parameters, prompt messages and comprehensive facts.

Up to ten compressors can be monitored in this way – regardless of the compressor type. The system works with both piston and screw or turbo compressors. The only prerequisite is that the web server is connected via an AIR CONTROL HE. State-of-the-art bus technology is used for the installation.

**Accessible parameters:**
- Energy and compressed air balance, also available to download
- Overview of the compressor station with the operating statuses of each individual compressor
- Loaded / idle mode statistics of compressors
- Data on delivery volumes, volume flows and motor starts
- Detailed information about utilisation, network pressure and specific performance data
- Data on energy efficiency and maintenance

**The most important benefits:**
- Easy to operate via standard internet browser
- Can be accessed via company’s own network or anywhere in the world via the Internet
- Dial-in protected by user ID
- Various parameters are depicted either in tables or graphs
- Continuous monitoring of all parameters of relevance to operation
- Active e-mail notification to up to 5 e-mail addresses in the event of warnings, maintenance work or faults
- Convenient transfer of all relevant data into Office programs such as MS Excel
- The parameters are displayed in a visually appealing way
- CSV files for further processing
Using the ALMiG AIR CONTROL family of controllers you can control, manage and monitor your entire compressed air supply system in the best possible way. The smart, integrated compressor controllers offer you optimum operating convenience and outstanding cost-effectiveness. They deliver maximum reliability in the supply of compressed air and plan maintenance ahead of time.

The very latest microprocessor and communications technology is used, guaranteeing you seamless integration of all compressor models as well as the entire range of accessories. And all that as standard via the RS-485 data bus. The optional connectivity to a web server enables monitoring of your compressor station from anywhere in the world.

**AIR CONTROL MINI**
- Icon display for the most important operating states, such as compression temperature, dew point and operating pressure
- Programmable automatic restart
- On-site operation – Remote on/off
- Fault memory (no. of positions)
- Refrigeration dryer activation

**AIR CONTROL B**
- Microprocessor controller
- Illuminated colour LCD display
- Navigation using number keys
- Icon display for all the important operating states, such as mains pressure, final oil and compression temperature
- Maintenance interval indicator
- Fault memory
- Link to superordinate control systems
- Refrigeration dryer activation

**AIR CONTROL P**
- Microprocessor controller with colour touch screen and illuminated graphic display menu
- Supported user guidance
- Simple connection to all accessory components
- Can be integrated into the customer’s own management systems
- Timer programming for optimum adaptation to operational requirements
- “System pass” – the compressor’s identity card
- Various language variants available
- Various graphical depictions can be accessed, e.g. volume flow produced as daily and weekly profile
- Basic load cycle switching: another 4 additional compressors (slaves) can be added as master control device
- Fault memory
- Programmable automatic restart
- Extensive statistics with data logging
- System parameters can be saved to a data medium to reduce programming effort

**AIR CONTROL HE**
**Version: Compressor and global control system**
- Integrated web server
- Can be used as a consumption-dependent global control system for up to 10 compressors
- Excellent optical display and simplest possible operation using a 7” TFT colour touch screen
- Flexible installation into the compressor or into a separate control cabinet possible
- Comprehensive statistics can be accessed using the data-logging functionality

**Version: Global control system**
- Quick access to information about the operating state of the connected compressors
- Graphical display of power and consumption profiles
- Leaks can be identified and displayed
- Priorities can be allocated
- Energy-saving – all the compressors operate in one pressure tolerance range
- Can be connected to higher-level control systems or a web server

**Further functionality and benefits:**
- Huge potential savings by reducing idling levels and lowering pressure levels
- Transparency when it comes to the compressors and accessories, at all times
- Reductions in maintenance time and downtimes