ALMiG
Compressor Systems

V-DRIVE T

Screw Compressor

Two-stage compression.
Maximize efficiency.

10 YEARS AirCare
CERTIFIED WARRANTY COVERED BY ALMiG
TERMS & CONDITIONS APPLY

TOP ENERGY EFFICIENCY

THE NEW GENERATION
V-DRIVE T

HIGHEST EFFICIENCY
Over 15% energy savings compared to single-stage systems – for minimal operating costs

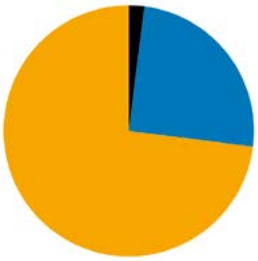
NO IDLING, NO LOSS
The variable speed control prevents costly idle times and boosts efficiency

RELIABLE AND ROBUST
Consistent performance thanks to low thermal load and minimal differential pressure

EASY TO SERVICE & MAINTENANCE-FRIENDLY
Maintenance and servicing are simple, quick, and cost-effective

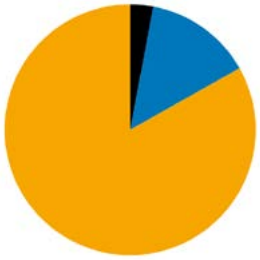
WHY ENERGY EFFICIENT?

2.000 Bh/a



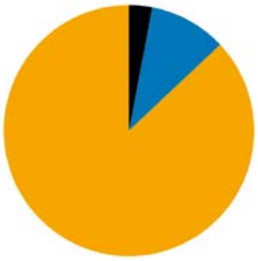
- Maintenance costs: 2%
- Acquisition costs: 25 %
- Energy costs: 73 %

4.000 Bh/a



- Maintenance costs: 2,5%
- Acquisition costs: 13,5 %
- Energy costs: 84 %

8.000 Bh/a

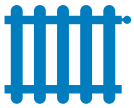


- Maintenance costs: 3%
- Acquisition costs: 10 %
- Energy costs: 87 %

Energy savings

Two-stage compression

Variable speed control



Optional heat recovery system

Protecting the environment

Save money

Since energy costs account for the largest share of lifecycle costs, ALMiG continuously optimizes its compressors. The V-Drive T impresses with two-stage compression, a variable speed drive, and outstanding efficiency. With heat recovery, additional heating energy can be saved.

V-DRIVE T
EFFICIENCY REDEFINED

The new V-DRIVE T combines two-stage compression with intelligent variable speed control—for maximum energy efficiency, reliability, and digital connectivity. It also impresses with easy operation and a maintenance-friendly design.

Drive & Compression

- Two-stage integrated compression in a single compressor unit
- Variable speed drive for demand-oriented delivery adjustment
- Highly efficient permanent magnet motors
- Motor with energy efficiency class IE5, protection class IP55, insulation class F
- Low thermal load and differential pressures
- Especially quiet and durable operation
- Power range: 90 – 250 kW

Digitalization & Connectivity

- Modern control system with IoT connectivity for Industry 4.0
- Access to the digital service platform COMPASS
- IoT device and COMPASS included free of charge during the AirCare period

Energy Efficiency & Cost-Effectiveness

- Combination of a new rotor profile with integrated intercooling and variable speed control for maximum energy efficiency
- Up to 15% energy savings compared to single-stage systems
- Durable, reliable, and exceptionally robust
- Up to 10 years AirCare warranty

Application & Maintenance

- Ideal for a wide range of industrial applications
- Easy maintenance thanks to a well-designed machine layout
- Reduced maintenance effort due to durable components
- Condition monitoring via IoT device and COMPASS (optional)
- **Application:** Industrial
- **Cooling:** Air-cooled (standard) or water-cooled (optional)
- Designed for continuous operation

Advantages of an oil-cooled motor

- **Consistent/constant operating temperature**

The oil ensures even heat dissipation, thus preventing overheating.

- **Efficient cooling**

Heat is dissipated from hot engine parts in a targeted manner, for example by means of an oil jacket around the engine housing.

- **Quieter engine noise**

Oil dampens noise and vibrations better than air.

- **More compact design**

No large cooling fins (necessary for air cooling) are required, allowing the engine to be built smaller and lighter.

- **Higher performance**

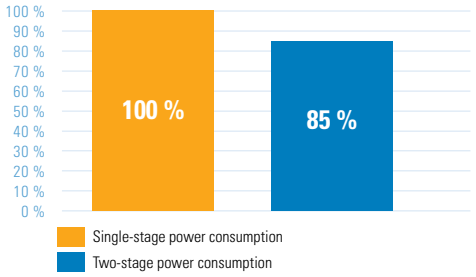
It is suitable for higher speeds and continuous loads without overheating.

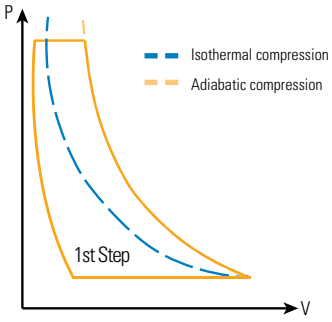
- **Longer service life**

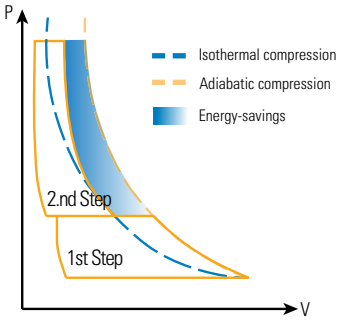
Even temperature distribution reduces material fatigue.

V-DRIVE T

EFFICIENCY THAT PAYS OFF

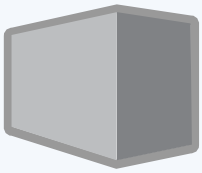






Single-stage compressor

Standard technology



Volume flow rate @8,0 bar	**33,00 m³/min**
Motor rated power	**200 kW**
Input Power	**231,14 kW**
P spec.	**7,00 kW (m³/min)**
Air demand / Year*	**15.840.000,00 m³**
„Load" Hours / kWh	**8.000h**
Energy costs / kWh	**0,30 €/kWh**
„Load" Costs / Year	**554.736,00 €**

VS

V-Drive T 48

ALMiG Innovation

Volume flow rate @8,0 bar	**44.35 m³/min**
Motor rated power	**200 kW**
Input Power	**252.6 kW**
P spec.	**5,70 kW/(m³/min)**
Air demand / Year*	**15.840.000,00 m³**
„Load" Hours / kWh	**5.953 h**
Energy Costs / kWh	**0,30 €/kWh**
„Load" Costs / Year	**451.091,77 €**
„Load" Cost savings / Year	**103.644,23 €**
„Load" Cost savings / Day	**287 €**

Two-stage compression + High-efficiency IE5 motor; Low service and maintenance costs; Optional heat recovery system = **287 €** cost savings per day

*8,000 operating hours per year, based on the compressor with the lower delivery volume.

V-DRIVE T

PERFORMANCE FROM INSIDE

Two premium permanent magnet motors
High efficiency and long bearing life

High-performance intake filter
Optimal filtration and easy maintenance

Compressed air cooler

Two-stage compression principle
with oil-injected intercooling

Robust base frame
Torsion-resistant with vibration decoupling

AirControl Advanced
Intelligent control system that monitors, visualizes, and documents

V-DRIVE T
PRODUCT VARIATIONS

50 Hz - air cooled

V-DRIVE T	Operating pressure	Volume flow rate according to ISO 1217 (Annex C-2009)*		Motor rated power	Length	Width	Height	Weight
		min.	max.					
Model	bar	m³/min	m³/min	kW	mm	mm	mm	kg
20	5 - 13	7,27	20,28	2 x 45	2400	1800	2000	3800
24	5 - 13	8,39	22,60	2 x 55	2400	1800	2000	3900
30	5 - 13	11,61	29,64	1 x 55 / 1 x 75	2800	2000	2000	4400
38	5 - 13	13,56	35,70	1 x 75 / 1 x 90	2800	2000	2000	4600
48	5 - 13	18,48	45,58	1 x 90 / 1 x 110	3200	2100	2100	7250
60	5 - 13	20,18	56,19	2 x 132	3200	2100	2100	7550

*V based on operating pressure of 8 bar at 50 Hz

50 Hz - water cooled

V-DRIVE T	Operating pressure	Volume flow rate according to ISO 1217 (Annex C-2009)*		Motor rated power	Length	Width	Height	Weight
		min.	max.					
Model	bar	m³/min	m³/min	kW	mm	mm	mm	kg
20	5 - 13	7,27	19,46	2 x 45	2400	1800	2000	3700
24	5 - 13	8,67	23,36	2 x 55	2400	1800	2000	3800
30	5 - 13	11,61	29,64	1 x 55 / 1 x 75	2800	2000	2000	4200
38	5 - 13	13,56	35,70	1 x 75 / 1 x 90	2800	2000	2000	4400
48	5 - 13	18,48	45,58	1 x 90 / 1 x 110	3200	2100	2100	6850
60	5 - 13	20,18	56,19	2 x 132	3200	2100	2100	7150

*V based on operating pressure of 8 bar at 50 Hz

V-DRIVE T

QUALITY AND INNOVATION MADE IN GERMANY.

Decades of experience

ALMiG is a leading provider in compressed air technology with decades of experience. Companies worldwide rely on our customer-focused solutions, quality, innovation, and flexibility. Our compressor technologies deliver excellent performance, high energy efficiency, and conserve resources.

Continuous development

Continuous research and development form the foundation of ALMiG's efficient systems. With our industry expertise, we offer tailored solutions for all company sizes—from craft businesses to large-scale industries.

Comprehensive service

ALMiG offers comprehensive services—from consulting and maintenance to optimizing energy efficiency. As a reliable partner, we support the success of our customers.

Enviromental awareness

ALMiG focuses on efficiency and sustainability. We continuously develop energy-saving and environmentally friendly compressors with improved performance. Our oil-free compressors and compressed air treatment components are constantly optimized to minimize environmental impact.

ALMIG AirCare WARRANTY

Extend the warranty on your compressed air system to up to 10 years – so you're on the safe side.

The ALMiG AirCare package allows you to make claims for the rectification of defects even after the statutory warranty period has expired. Keep full track of your service costs and avoid any
nasty surprises.

What makes the ALMiG AirCare is that this extension covers not only the newly purchased ALMiG compressors, but also associated components such as

- External heat recovery modules
- Refrigeration dryers
- Adsorption dryers
- Oil-water separation systems condensate drains

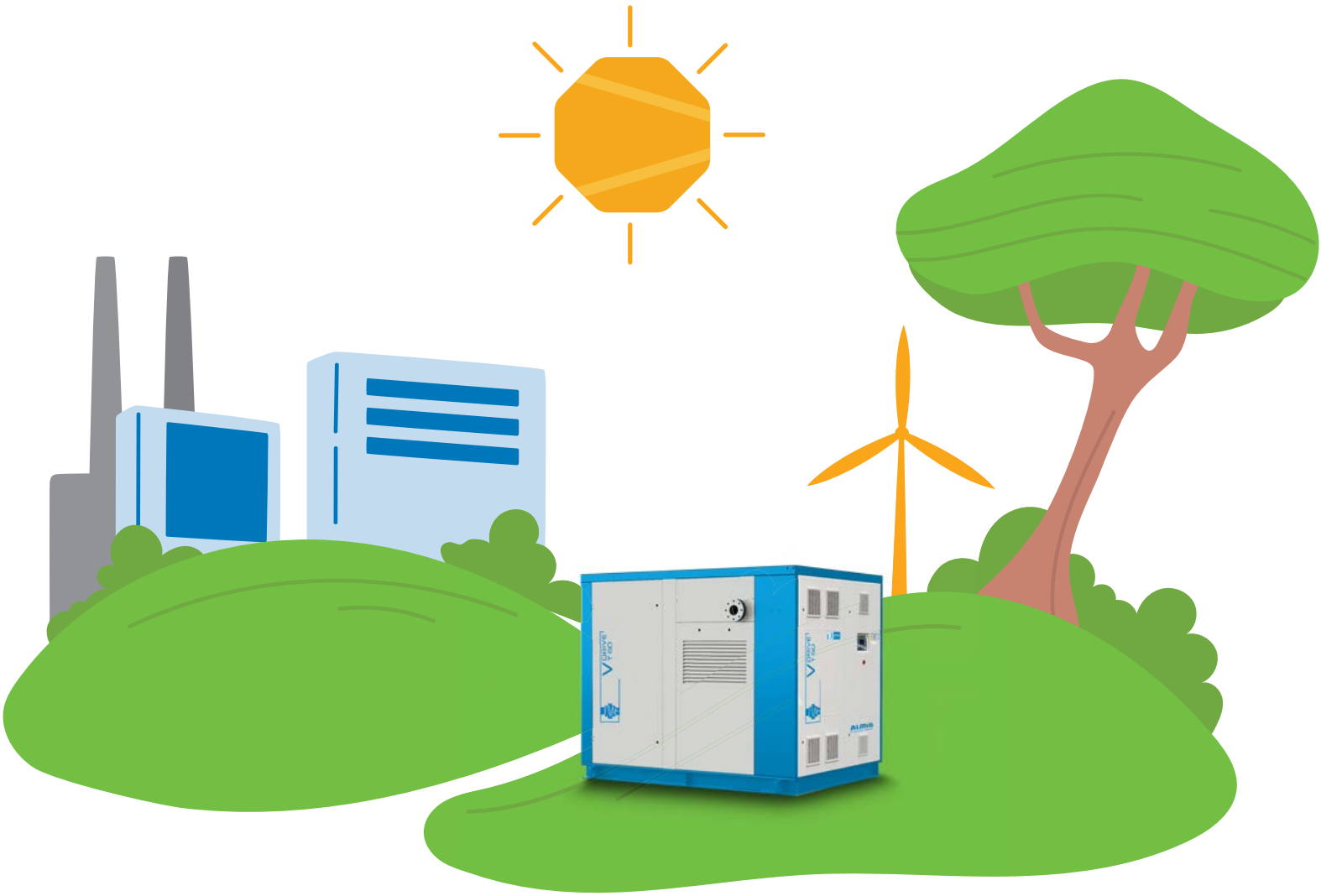
In addition to the supply of spare parts under warranty, AirCare also covers the following:

- Immediate repairs
- Necessary spare parts deliveries under warranty, delivered free of charge
- Labour costs for diagnosis and repair of the compressor
- Travel costs (a distance of up to 100 km and a journey time of up to 2 hours (one way) are included in AirCare)

Please do not hesitate to ask your ALMiG contact for the exact terms and conditions.

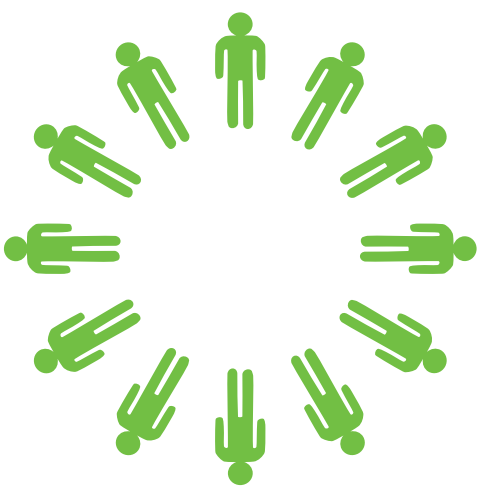
Further information can be found in our AirCare warranty terms and conditions.

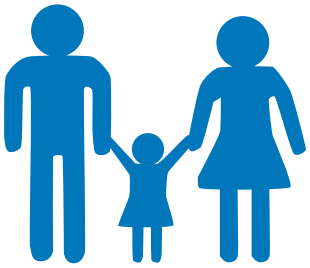
SUSTAINABILITY IN COMPRESSED AIR TECHNOLOGY



Social commitment

As a leading manufacturer of compressed air systems, we combine economic success with environmental responsibility. With innovative technologies and sustainable initiatives, the company sets new standards in the industry while consistently pursuing its environmental goals and strengthening its position as an innovation leader.

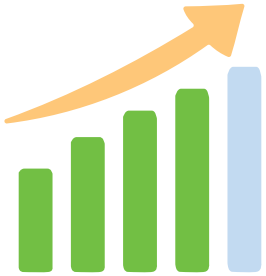




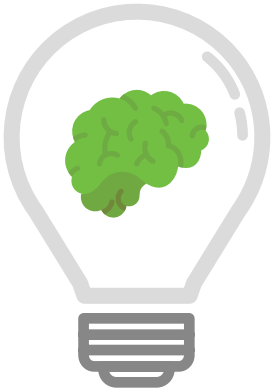
Social responsibility

We support our employees with training and health initiatives and place great importance on work-life balance as well as a positive work environment.

Future through Innovation



Innovation drives ALMiG's sustainable future. Through continuous investment in R\&D, we develop energy-efficient, environmentally friendly technologies.



Efficiency and Environmental Awareness

Our products combine top performance with energy efficiency. Through innovative compressed air solutions, frequency-controlled compressors, and intelligent control systems, we minimize the energy consumption and CO2 emissions of our customers.

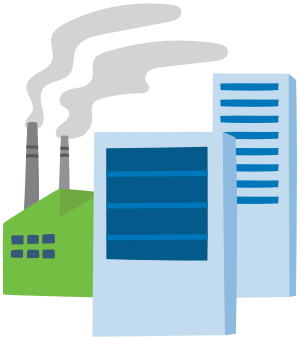
ISO 14001:2015 Certification

Our certification according to DIN EN ISO 14001:2015 confirms our commitment to environmental management and sustainability. It ensures that we systematically pursue and continuously improve our environmental goals.

Water Resources Management

Water is one of our most valuable resources. At ALMiG, we place great importance on minimizing water consumption in our production processes.

Sustainability in Production



We rely on sustainable production processes and reduce the consumption of water and energy. Our manufacturing is continuously optimized to minimize waste and emissions.

People and Society in Focus

ALMiG is committed to fair working conditions, employee health, and social projects in the region to jointly promote sustainable change.

Sustainable Partnerships

ALMiG collaborates with partners to promote sustainable solutions and take ecological responsibility along the entire value chain.

Would you like to learn more about us?

Then visit our website at www.almig.com or simply scan this QR code.

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Errors and changes excepted.