

G-DRIVE T

TWO-STAGE SCREW COMPRESSOR







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 2-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 cloud service 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)

14.6 - 63.1 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

Heavy duty suction filter

Best possible filtration and easy maintenance

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



Energy-efficient IE3 Motor

with long bearing life

Stable base frame

With vibration dampeners

AIR CONTROL HE



Standard

G-DRIVE T

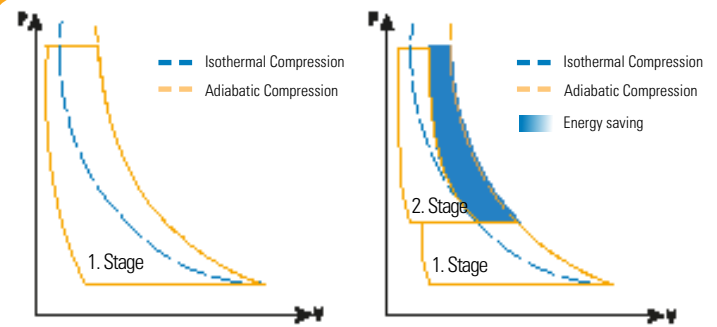
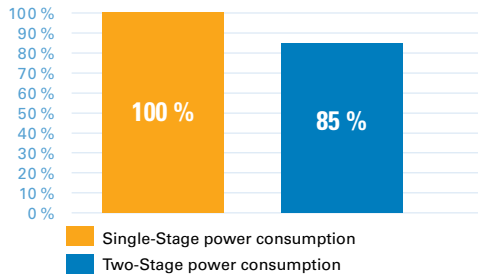


G-DRIVE T

50 Hz								
G-DRIVE T	Volume flow acc. to ISO 1217 (Annex C-2009)			Rated motor power	Length	Width	Height	Weight
	8 bar	10 bar	13 bar					
Modell	m ³ /min	m ³ /min	m ³ /min	kW	mm	mm	mm	kg
90	18.2	16.3	14.6	90	2900	1860	1945	4000
110	22.0	19.2	17.8	110	2900	1860	1945	4100
132	26.1	23.2	21.5	132	2900	1860	1945	4200
160	32.3	28.6	26.5	160	3520	2290	2030	5500
200	40.5	35.0	31.0	200	3350	2350	2400	7000
250	51.5	45.3	40.0	250	3350	2350	2400	7000
315	63.1	55.7	50.5	315	3350	2350	2400	7000

Setting standards in enAIRgy efficiency

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
 Nominal Motor Power 250 kW
 Input Power 300 kW
 P_{spec.} 6.45 kW/(m³/min)

Air demand/Year* 22,320,000 m³
 „Load“ h/Year 8,000 h
 Energy costs 0.15 €
 „Load“ c/Year 360,000 €

Ø Net Price 70,000 €

VS

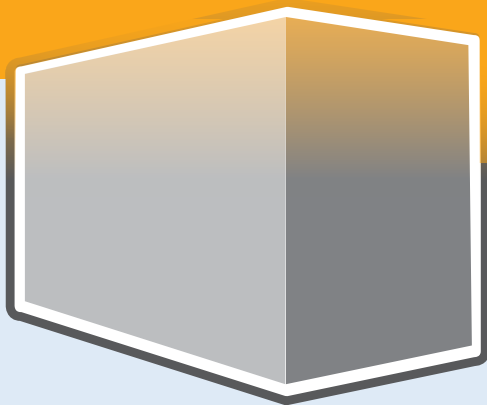
G-DRIVE T 250

FAD @8,0bar 51.50 m³/min
 Nominal Motor Power 250 kW
 Input Power 290.13 kW
 P_{spec.} 5.63 kW/(m³/min)

Air demand/Year* 22,320,000 m³
 „Load“ h/Year **7,223 h**
 Energy costs 0.15 €
 „Load“ c/Year **314,341 €**

„Load“ savings/Year **44,658 €**
 „Load“ savings/Day **122 €**
 Ø Net Price 90,000 €
 Price Balance 20,000 €

Payback Time **0.45 years / 5 months**



Two-stage compression



High efficient IE3 Motor
 Smart controller 4.0
 Variable Speed cooling fan
 Low service and maintenance costs



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

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