

VARIABLE 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

VARIABLE

Compressors for maximum cost-effectiveness

The speed-controlled screw compressors of the VARIABLE series are the result of decades of experience in the field of energy-efficient solutions. They are designed for use under the toughest operating conditions and for applications with variable compressed air requirements. The system is therefore the right solution for high operational readiness and efficient compressed air supply.

Market analyses show that on average compressors only have a utilisation rate of around 50 – 70%. The maximum delivery volume is, however, only needed during peak times. The integrated ALMiG SCD technology, the benefits of which come to the fore in partial load applications, allows you to achieve an energy saving of up to 35%. The holistic SCD technology drive concept stands for **S**peed **C**ontrolled and **D**irect drive.

The directly driven, speed-controlled VARIABLE is unbeatable when coupled with the DIRECT series, which is also directly driven, as an "energy-saving duo".

Achieve an energy saving of up to 35% through:

- Speed control
- Constant mains pressure, stepless from 5 to 13 bar
- Extremely good system efficiency
- No start-up changeover power peaks
- No expensive idle times

Application

Industry

Power output

16 - 355 kW

Volume flow acc. to ISO 1217
(Annex C-2009)

1.07 - 55.55 m³/min

Operating pressure

5 - 13 bar (stepless)

Cooling

Air-cooled (standard)

Water-cooled (option as of 35 kW,
only water-cooled as of 355 kW)

Drive

Direct and speed-controlled

Motor

Energy efficiency class IE 3; IP 55
protection, protection class F



- + Efficient ALMiG SCD technology
- + Designed for use under the toughest operating conditions
- + Unbeatable energy efficiency in combination with the DIRECT series
- + Versatile use thanks to numerous possible extension options



Maintenance-friendly design

Air Control

Smart controller that monitors, visualises and documents

Suitable controllers:

AIR CONTROL B



Standard (16 – 28 kW)

AIR CONTROL P



Optional (16 – 28 kW)
Standard (35 – 355 kW)

AIR CONTROL HE



Optional

Base frame
Torsion-resistant

Horizontal separating tank
With external fine separator cartridges

Control cabinet
Large with integrated frequency converter

VARIABLE



VARIABLE 16–28



VARIABLE 35–70

50 Hz								
VARIABLE	Operating overpressure	Volume flow acc. to ISO 1217 (Annex C-2009)*		Rated motor power	Length	Width	Height	Weight
		min.	max.					
Model	bar	m ³ /min	m ³ /min	kW	mm	mm	mm	kg
16	5–13	1.17	2.68	16	1270	890	1190	387
20	5–13	1.17	3.22	20	1270	890	1190	387
24	5–13	1.17	3.62	24	1545	890	1190	405
28	5–13	1.17	4.14	28	1545	890	1190	405
35	5–13	1.07	6.02	40	2090	1080	1600	940
37	5–13	1.07	6.52	50	2090	1080	1600	980
55	5–13	2.22	9.98	60	2090	1080	1600	1160
65	5–13	2.23	10.73	80	2090	1080	1600	1240
70	5–13	2.81	12.84	85	2090	1080	1600	1270
90	5–13	4.30	16.85	100	2300	1400	1860	2050
115	5–13	4.30	18.28	115	2300	1400	1860	2200
130	5–13	4.30	20.00	130	2300	1400	1860	2200
150	5–13	9.40	27.25	150	2700	1686	1888	3500
210	5–13	9.40	30.14	210	2700	1686	1888	3600
260	5–13	15.70	41.80	260	3950	1650	2025	4300
315	5–13	15.70	53.00	315	3950	1650	2025	4450
355	5–10	15.70	55.55	355	3950	1650	2025	4900

* V relates to an operating overpressure of 7 bar at 50 Hz / 100 psig at 60 Hz; systems are air-cooled as standard / water-cooled as an option as of VARIABLE 35 model (VARIABLE 35 / 51), as of VARIABLE 315 model (VARIABLE 315 / 430) only water-cooled systems available; heat recovery systems available for all models; variants 16 – 28 are also available as "0" or "Plus" versions



VARIABLE 90-201

60 Hz								
VARIABLE	Operating overpressure	Volume flow acc. to ISO 1217 (Annex C-2009)*		Rated motor power	Length	Width	Height	Weight
		min.	max.					
	psig	acfm	acfm	HP	inch	inch	inch	lbs
16/20	75-190	41	95	20	50	35	46.9	853
20/25	75-190	41	115	25	50	35	46.9	853
24/30	75-190	41	130	30	60.8	35	46.1	892
28/40	75-190	41	148	40	60.8	35	46.1	892
35/51	75-190	38	216	50	82.3	42.6	63	2072
37/55	75-190	38	234	55	82.3	42.6	63	2160
55/80	75-190	78	356	80	82.3	42.6	63	2557
65/90	75-190	79	385	90	82.3	42.6	63	2734
70/95	75-190	99	461	95	82.3	42.6	63	2799
90/125	75-190	152	602	125	90.6	55.1	73.2	4519
115/155	75-190	152	652	155	90.6	55.1	73.2	4850
130/175	75-190	152	713	175	90.6	55.1	73.2	4850
150/200	75-190	332	976	200	106.3	66.4	74.3	7716
210/280	75-190	332	1078	280	106.3	66.4	74.3	7937
260/350	75-190	554	1476	350	155.5	65	79.7	9480
315/430	75-190	554	1901	430	155.5	65	79.7	10580
355/480	75-145	554	1990	480	155.5	65	79.7	10802

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