

# VARIABLE XP

## 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 XP

## High efficiency with SCD speed control

The VARIABLE XP screw compressors are the optimal solution to provide the right amount of compressed air when the demand for compressed air fluctuates. With the integrated frequency converter, the specially designed motor only runs as fast as necessary to generate the required amount of compressed air. Expensive idle times and over-compression are now a thing of the past. Thus, the plant is the right solution for a highly efficient compressed air supply. The product range offers delivery quantities of 0.89 - 35.00 m<sup>3</sup>/min at maximum operating pressures of 5 - 13 bar.

In the development of the new VARIABLE XP series, the optimization of the cooling air flow has further improved the reliability and service life of the components. With the extra thick sound insulation, the system can also be installed where the noise level is critical.

### ALMiG SCD-Technology

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.

### 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

22 - 200 kW

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

0.89 - 35.00 m<sup>3</sup>/min

#### Operating pressure

5 - 13 bar (stepless)

#### Cooling

Air-cooled (standard)

Water-cooled (option)

#### Drive

Direct and speed-controlled

#### Motor

Energy efficiency class IE 3; IP 55;  
insulation class F



- + Efficient ALMiG SCD technology
- + Designed for use under the toughest operating conditions
- + Versatile use thanks to numerous possible extension options

#### ALMiG XP Series:

The standard compressors for demanding applications:

- Xtra Performance
- Efficient cooling
- Proven reliability
- Robust and long-lasting components

#### Cooler Unit

Large-area radiators for lowest compressed air outlet temperatures

#### SCD frequency converter

The integrated power pack, according to EMC guidelines

#### High performance suction filter

#### Air Control

Smart controller that monitors, visualises and documents



#### Compressor stage

Latest airend technology

#### Highly efficient IE3-Motor

Suitable controllers:

#### AIR CONTROL P



Optional

#### AIR CONTROL HE



Optional

# VARIABLE XP



VARIABLE XP 22



VARIABLE XP 30 - 37



VARIABLE XP 45 - 55

50 Hz								
VARIABLE XP	Operating overpressure	Volume flow acc. to ISO 1217 (Annex C-2009)*		Rated motor power	Length	Width	Height	Weight
		min.	max.					
Model	bar	m³/min	m³/min	kW	mm	mm	mm	kg
22	5-13	0.89	3.90	22	1250	880	1515	560
30	5-13	1.54	5.50	30	1350	940	1680	830
37	5-13	1.54	6.60	37	1350	940	1680	855
45	5-13	3.18	8.30	45	2000	1250	1750	1555
55	5-13	3.18	10.30	55	2000	1250	1750	1640
75	5-13	3.93	14.00	75	2180	1330	1850	2025
90	5-13	3.93	16.40	90	2180	1330	1850	2120

\* 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 XP 30, heat recovery systems available for all models



VARIABLE XP 75 - 90



VARIABLE XP 100 - 200

50 Hz								
VARIABLE XP	Operating overpressure	Volume flow acc. to ISO 1217 (Annex C-2009)*		Rated motor power	Length	Width	Height	Weight
		min.	max.					
Model	bar	m³/min	m³/min	kW	mm	mm	mm	kg
100	5–13	6.50	16.40	90	2940	1710	1825	2700
110	5–13	6.50	21.00	110	2940	1710	1825	3000
132	5–13	9.92	25.20	132	2940	1710	1825	3500
160	5–13	9.92	29.20	160	3300	1860	2145	3700
200	5–13	9.92	35.00	200	3300	1860	2145	3750



**ALMiG Kompressoren GmbH**  
**Adolf-Ehmann-Straße 2**  
**73257 Köngen, Germany**  
**Tel: +49 (0)7024 9614-0**  
**info@almig.de**

[www.almig.com](http://www.almig.com)



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