

# FLEX 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

# FLEX

## Compact, quiet and powerful

The speed-controlled, directly driven compressors of the FLEX series are used wherever compressed air is to be generated by a small, compact and extremely quiet system.

With the vertical alignment of the motor-compressor unit in the FLEX series, ALMiG has developed one of the most compact screw compressor systems on the market. The sound level of these small screw compressors is only around 60 dB(A). If required, they can be used directly at the workstation.

The FLEX series also provides you with a significant cost reduction: 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 speed-controlled version of the direct drive offers additional benefits. For example, a speed-controlled FLEX can instantly make an entire compressed air station more cost-effective in the smart ALMiG "master-slave network".

### 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

5.5 - 30 kW

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

0.53 - 4.05 m<sup>3</sup>/min

#### Operating pressure

5 - 13 bar

#### Cooling

Air-cooled

#### Drive

Direct and speed-controlled

#### Motor

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



- + Volume flow can be adapted exactly to meet compressed air requirements
- + No switching cycles or expensive idle times
- + Energy-saving soft start without current peaks
- + Operating pressure can be freely selected between  $p_{\min}$  –  $p_{\max}$  in 0.1 bar/1.5 psig increments
- + The reduction in pressure can save money



**Air Control**

Smart controller that monitors, visualises and documents

**SCD frequency converter**

The integrated power pack; meets EMC guidelines

**Maintenance-friendly design**

Accessible from one side

**Unit cooler**

Efficient cooler for minimum coolant/ compressed air outlet temperatures

**Motor-compressor unit**

Highly efficient, vertically aligned drive system

Suitable controllers:

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**AIR CONTROL B**



Standard

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**AIR CONTROL P**



Optional

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**AIR CONTROL HE**



Optional

# FLEX



FLEX  
Standard variant



FLEX  
Receiver variant



FLEX "PLUS"  
Variant with sub-mounted refrigeration dryer

50 Hz								
FLEX	Operating overpressure	Volume flow acc. to ISO 1217 (Annex C-2009)*		Rated motor power	Length	Width	Height	Weight
		min.	max.					
	bar	m <sup>3</sup> /min	m <sup>3</sup> /min	kW	mm	mm	mm	kg
6	5-13	0.53	0.85	5.5	870	590	990	165
7	5-13	0.53	1.19	7.5	870	590	990	165
11	5-13	0.53	1.70	11	870	590	990	180
15	5-13	0.53	2.10	15	870	590	990	190
16	5-13	1.39	2.79	15	1140	890	1315	285
18	5-13	1.06	3.16	18.5	1140	890	1315	295
22	5-13	1.06	3.47	22	1140	890	1315	325
30	5-13	1,06	4,05	30	1140	890	1315	365

\* V relates to an operating overpressure of 7 bar at 50 Hz / 100 psig at 60 Hz; heat recovery systems available

\*\* as "0" variant with sub-mounted refrigeration dryer and filter system for generating "oil-free" compressed air



FLEX "0"\*\*\*  
Variant with refrigeration dryer and filter system



FLEX "PLUS"  
Variant with receiver



FLEX "0"  
Variant with receiver

60 Hz								
FLEX	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
6/7	75-190	17	30	7.5	34.3	23.2	39	364
7/10	75-190	22	42	10	34.3	23.2	39	364
11/15	75-190	17	61	15	34.3	23.2	39	397
15/20	75-190	26	76	20	34.3	23.2	39	419
16/21	75-190	49	100	20	44.9	35	51.8	628
18/25	75-190	37	113	25	44.9	35	51.8	650
22/30	75-190	37	126	30	44.9	35	51.8	717
30/40	75-190	37	143	40	44.9	35	51.8	805

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