

SPEED-CONTROLLED SCREW COMPRESSORS

Volumetric flow rate: 0.18 - 4.12 m³/min • 6 - 145 acfm



INTELLIGENTE DRUCKLUFT MADE IN GERMANY

ALMiG Kompressoren GmbH

a name that guarantees top-grade technology in the compressed air sector. ALMiG has emerged from a company with a long tradition whose products in the compressed air industry have always stood for quality, innovation and consideration for its customers.

Today ALMiG is an extremely flexible company that can react fast to special customer requests. It stands by its customers as a competent partner, giving advice and practical support.

As one of the leading suppliers of advanced compressed air systems, our commitment to continuous research and development forms the basis for all our products. ALMiG compressors are all manufactured in accordance with

• IRIS

• ISO 9001: 2000 • ISO 14001: 2004 They meet the conditions for acceptance in compliance with:

- ISO 1217-3 annex C-1996
- ASME
- OSHA

and conform to the CE guidelines.

Compliance with the most stringent acceptance conditions, such as

- DET NORSKE VERITAS
- GERMANISCHER LLOYD
- BUREAU VERITAS
- LLOYD's REGISTER OF SHIPPING
- ABS

is a matter of course for us.

Our motto is:

If you have stopped improving, you have stopped being good!

Simple, silent and smooth whilst saving energy

- energy-saving speed control by means of direct drive
- powerful, extremely quiet and requiring very little space60 dB(A)
- flexible operating pressure, infinitely adjustable
- clear, maintenance-friendly design









INTELLIGENT CONCEPT, MODULAR DESIGN

























- Airend 1 newly developed rotor profile for maximum efficiency wide control range very good overall efficiency
- SCD motor 2 robust drive motor with speed control
- scd direct drive 3 compressor shaft and the motor rotor are a single piece loss-free power transmission and no coupling element no motor bearing required, therefore increased operating reliability
- SCD frequency converter 4 the integrated power pack, conforms to stringent EMC directives
 - Mains screening 5 100 % safety against harmonic interference
 - Separator system 6 optimal compressed air quality thanks to a proven multi-stage separation system
 - Radial fan 7 powerful, efficient and smooth running high residual pressure for subsequent connection to a duct duct ventilation system
 - System cooler 8 efficient cooler for low temperature level
 - Air Control 9 the compressor's intelligence; thinks, monitors and records

Air Control f



The "integrated single shaft solution" from ALMiG



INTELLIGENT COMPONENT ARRANGEMENT



INTELLIGENT TECHNIQUE

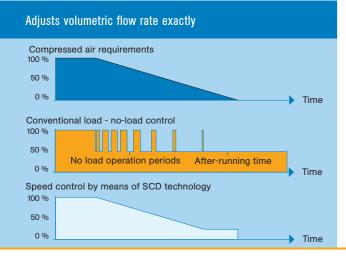
The integrated single shaft solution in a speed-controlled design offers top technology without any compromises:

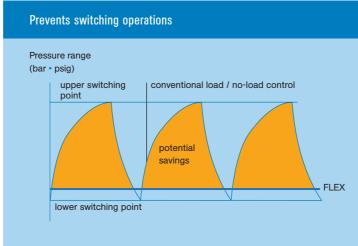
- exact adjustment of the volumetric flow rate to the respective current compressed air requirements
- avoids switching operations and the consequent costly no-load running periods
- energy-saving start-up eliminating current peaks
- operating pressure can be selected freely between p_{min} - p_{max} in 0,1 bar (1,5 psig) stages.

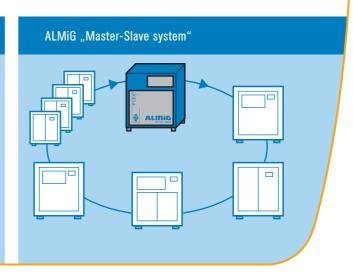
The reduced pressure thus achieves saves you money

- it is impossible to improve on the design in terms of compactness and space-saving - yet it is still very accessible for service and maintenance
- a speed-controlled FLEX can increase the economic efficiency of up to eight large compressors immediately in the intelligent ALMiG "Master-Slave System"









FACTS AND FIGURES

	50 Hz								60 Hz										
	FLEX	Operating vol. flow rate* according to pressure ISO 1217 (annex C-1996) min. max.		Rated Length motor output		Width	Height	Weight	FLEX	FLEX	Operating over- pressure	Vol. flow rate* according to ISO 1217 (annex C-1996) min. max.		Rated motor output	Length	Width	Height	Weight	
		bar	m³/min	m³/min	kW	mm	mm	mm	kg			psig	acfm	acfm	HP	inch	inch	inch	lbs
	2S	5 - 10	0.19	0.34	2.2	590	590	995	123		2/38	75 - 145	7	13	3	23.2	23.2	39.2	273
	38	5 - 10	0.19	0.43	3	590	590	995	123		3 / 4 S	75 - 145	7	17	4	23.2	23.2	39.2	273
	48	5 - 10	0.19	0.65	4	590	590	995	123		4/5S	75 - 145	7	23	5.5	23.2	23.2	39.2	273
	6S	5 - 14	0.34	1	5.5	590	590	995	136		6/7S	75 - 203	12	36	75	23.2	23.2	39.2	300
	88	5 - 14	0.32	1.07	7.5	590	590	995	136		8 / 10 S	75 - 203	11	38	10	23.2	23.2	39.2	300
	6	5 - 13	0.40	0.79	5.5	870	590	990	165		6/7	75 - 190	14	31	75	34.3	23.2	39	364
	7	5 - 13	0.40	1.13	7.5	870	590	990	165		7 / 10	75 - 190	14	42	10	34.3	23.2	39	364
	11	5 - 13	0.40	1.62	11	870	590	990	180		11 / 15	75 - 190	14	60	15	34.3	23.2	39	397
	15	5 - 13	0.40	211	15	870	590	990	190		15 / 20	75 - 190	14	76	20	34.3	23.2	39	419
	16	5 - 13	1.16	2.55	15	1140	890	1315	285		16 / 21	75 - 190	41	97	20	44.9	35	51.8	628
	18	5 - 13	1.16	3.02	18.5	1140	890	1315	295		18 / 25	75 - 190	41	114	25	44.9	35	51.8	650
1	22	5 - 13	1.16	3.31	22	1140	890	1315	325		22 / 30	75 - 190	41	125	30	44.9	35	51.8	716
1	30	5 - 13	1.16	3.98	30	1140	890	1315	365		30 / 40	75 - 190	41	143	40	44.9	35	51.8	805

^{*} V in relation to 8-bar operating overpressure at 50 Hz / 100 psi at 60 Hz heat recovery systems available from FLEX 6 model upwards (FLEX 6 / 7)









INTELLIGENTE DRUCKLUFT MADE IN GERMANY

In line with the customer's needs

With our innovative system concepts we offer customised solutions for almost all applications.

Our endeavour lies not only in supplying compressors, we

offer ourselves as a competent system provider capable of offering solutions to all users of compressed air.

That does not only apply to the consultation and installa-

tion phase of your new compressor(s), but naturally continues in all areas of service, maintenance and visualisation.

Challenge us!

Screw compressors	Piston compressors	Turbocompressors	Blower	Complete accessories	Control, regulate, monitor
 constant speed 2.2 - 500 kW/5 - 13 bars variable speed-controlled and direct drive 2.2 - 355 kW/5 - 13 bars oil-free, with water injection 1.5 - 85 kW/5 - 13 bars 	 oil-free, up to 10 bars 1.1 – 4 kW for normal pressure up to 10 bars 1.5 – 15 kW for medium pressure up to 15 bars 1.5 – 15 kW for high pressure up to 40 bars 2.2 – 45 kW as a booster for an input pressure up to 15 bars and an output pressure up to 40 bars 2.2 – 30 kW 	for oil-free compressed air 65 – 1000 kW two-stage up to 9 bars three-stage up to 10 bars	 at constant speed 1.5 - 55 kW 300 - 1000 mbars with speed control and direct drive 3 - 55 kW 300 - 1000 mbars 	 refrigerant dryers 0.27 - 100 m³/min desiccant dryers 0.08 - 145 m³/min activated carbon adsorbers 0.08 - 145 m³/min filters, all particle sizes 0.5 - 225 m³/min complete condensate management up to 120 m³/min 	 base load changeover controls consumption-related controls visualisation (we bring your compressed air to the PC) tele-monitoring (the hotline of your compressed air station)



Your expert advisor