

Variable speed rotary
screw air compressors

Series VARIABLE

Capacity:
0.49 – 56.11 m³/min



Intelligence, Innovation, Reliability

Energy savings up to 35% through SCD technology:

variable speed controlled

constant net pressure – infinitely variable from 5 to 13 bar

extremely high efficiency

elimination of high starting current and star delta change surge

no expensive wasted energy for idle running



Maximum benefits for our customers:

This premise is the defining characteristic of everyone at ALMIG.

Our products benefit from the latest techniques in research and development and are manufactured according to ISO 9001: 2000 / ISO 14001: 2004/ IRIS.

They fulfil all acceptance conditions according to ISO 1217 – 3 annex C – 1996 and agree with the CE-guidelines.

Even the most stringent conditions, such as DET NORSKE VERITAS, GERMANISCHER LLOYD, BUREAU VERITAS LLOYD'S REGISTER OF SHIPPING, ABS among others, are for us from ALMIG a matter of course.



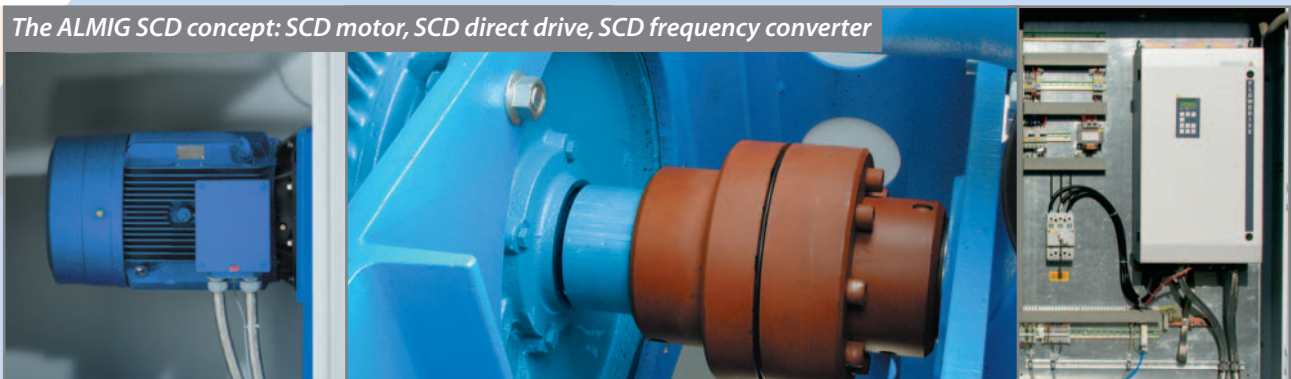
Assembly, Technique, Highlights



Photos: VARIABLE 90 – 130

- 1 Separating system**
highest compressed air quality through proven multi-stage separation
- 2 SCD frequency converter**
the integrated power package, self-evident according to EMV guidelines
- 3 SCD motor**
high-efficiency drive motor, enclosure IP 55, optimum efficiency up to 96%
- 4 SCD direct drive**
loss-free power transmission, maximum cost-savings
- 5 Air end**
excellent efficiency over the entire control range
- 6 Cooling unit**
large surface area radiators for lowest compressed air outlet temperatures and optimum thermostat-controlled coolant temperatures
- 7 Fan**
powerful, efficient, high-performance
- 8 Air Control**
the intelligence of the compressor. Thinks, monitors, records

The ALMIG SCD concept: SCD motor, SCD direct drive, SCD frequency converter



Compatibility, Flexibility, Energy savings



VARIABLE 35 – 70



VARIABLE 90 – 210



VARIABLE 16 – 34



VARIABLE 16 – 34 "Plus"

... with coupled refrigeration dryer,
which can also be added later

Type	Pressure bar	Air flow* according to ISO 1217 (annex C-1996)		Motor power kW	Length mm	Width mm	Height mm	Weight kg
		min. (m ³ /min)	max. (m ³ /min)					
VARIABLE 16	5 – 13	0.51	– 2.49	16	1270	890	1190	387
VARIABLE 20	5 – 13	0.51	– 2.96	20	1270	890	1190	387
VARIABLE 24	5 – 13	0.51	– 3.42	24	1270	890	1190	405
VARIABLE 28	5 – 13	0.51	– 4.10	28	1270	890	1190	405
VARIABLE 32	5 – 13	1.43	– 4.80	32	1545	890	1190	545
VARIABLE 34	5 – 13	1.43	– 5.45	38	1545	890	1190	555
VARIABLE 35	5 – 13	1.06	– 5.70	40	2090	1080	1600	940
VARIABLE 37	5 – 13	1.06	– 6.50	50	2090	1080	1600	980
VARIABLE 55	5 – 13	2.21	– 9.57	60	2090	1080	1600	1160
VARIABLE 65	5 – 13	2.21	– 10.71	80	2090	1080	1600	1240
VARIABLE 70	5 – 13	2.78	– 12.26	85	2090	1080	1600	1270
VARIABLE 90	5 – 13	3.15	– 15.75	100	2300	1400	1840	2050
VARIABLE 115	5 – 13	3.15	– 18.73	115	2300	1400	1840	2200
VARIABLE 130	5 – 13	3.15	– 20.00	130	2300	1400	1840	2200
VARIABLE 150	5 – 13	9.33	– 25.68	150	2390	1510	1800	3200
VARIABLE 210	5 – 13	9.33	– 28.88	210	2390	1510	1800	3450
VARIABLE 260	5 – 13	15.50	– 41.48	260	3950	1650	2025	4300
VARIABLE 315	5 – 13	15.08	– 49.60	315	3950	1650	2025	4500

* \dot{V} referred to an operating pressure of 8 bar
air-cooled/water-cooled optionally from VARIABLE 35
various heat recovery systems available from VARIABLE 35

Save, Save, Save

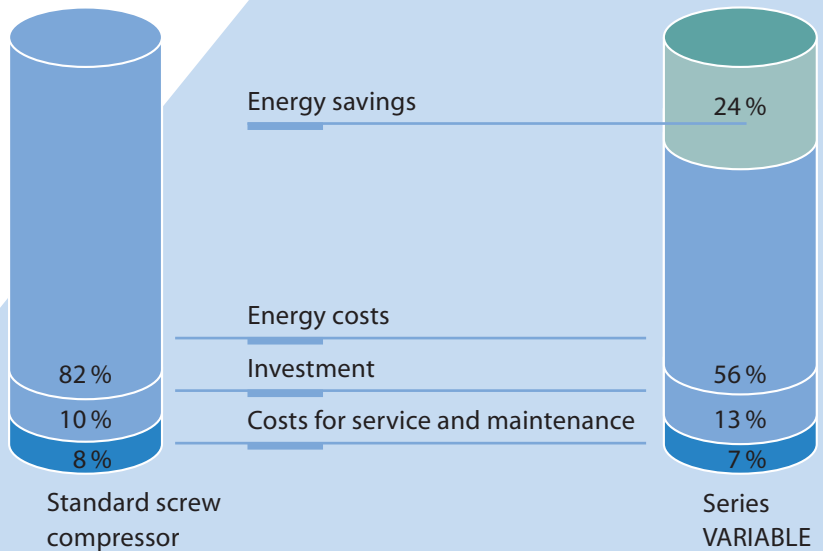
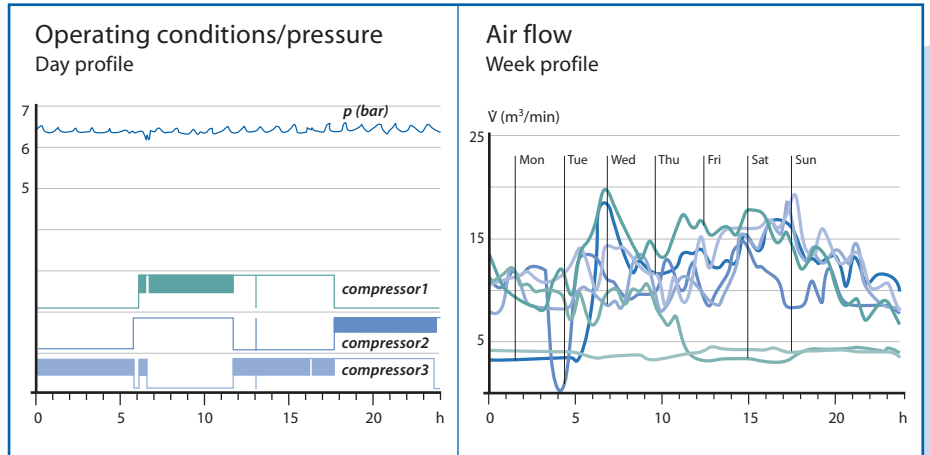
In typical installations as shown there is an enormous energy-saving potential!

Only on the basis of facts can decisions be made. Therefore: **First analyse, then decide.**

This is reason enough to allow the specialists from ALMIG to determine your current compressed air consumption, and with the help of accurate measurements, develop the optimum system solution together with you.

The directly driven, speed-controlled VARIABLE together with the also directly driven DIRECT form an unbeatable "energy-saving duo".

Average total cost comparison of a screw compressor, averaged over 5 years



Or can you afford to give money away?



Products, Concepts, Solutions

Built on the needs of the customer

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, who is able to offer solutions to all users of compressed air.

That does not only apply to the consultation and installation phase of your new compressor(s), but naturally continues in all areas of service, maintenance and visualisation.

Challenge us!



Screw compressors

- constant speed
2.2 – 500 kW/
5 – 13 bar
- variable speed controlled and direct drive
3 – 315 kW/
5 – 13 bar
- oil-free, with water injection
15 – 55 kW/
5 – 10 bar



Piston compressors

- oil-free, up to 10 bar
1.1 – 12 kW
- for normal pressure up to 10 bar
1.5 – 15 kW
- for medium pressure up to 15 bar
1.5 – 15 kW
- for high pressure up to 40 bar
2.2 – 45 kW
- as a booster for an input pressure up to 15 bar and an output pressure up to 40 bar
2.2 – 30 kW



Blower

- at constant speed
1.5 – 55 kW
300 – 1000 mbar
- with speed regulator and direct drive
3.0 – 55 kW
300 – 1000 mbar



Turbo compressors

- oil-free, up to 9 bar
65 – 370 kW



Complete accessories

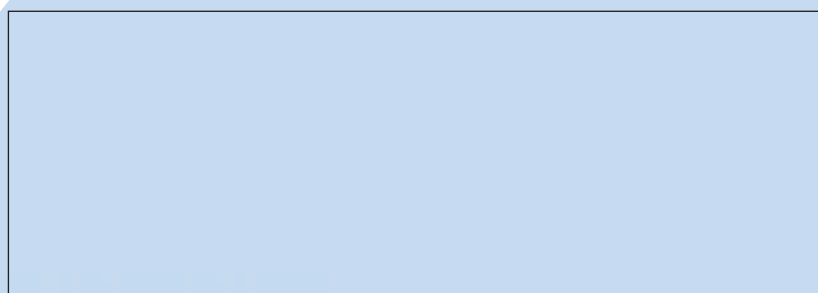
- refrigeration dryers
0.27 – 100 m³/min
- desiccant dryers
0.08 – 145 m³/min
- activated carbon adsorbers
0.08 – 145 m³/min
- filters, all particle sizes
0.5 – 225 m³/min
- complete condensate management up to
120 m³/min



Control, regulate, monitor

- lead-lag control
- consumption-dependant control
- visualisation (we bring your compressed air to the PC)
- tele-monitoring (the hotline of your compressed air station)

Your specialist



ALMIG
since 1923

www.almig.de