

Variable speed rotary  
screw air compressors

## Series ALLEGRO

Capacity:  
0.49 – 42.10 m<sup>3</sup>/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 ALUP.

Our products benefit from the latest techniques in research and development and are manufactured according to ISO 9001.

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 ALUP a matter of course.



*intelligent compressed air ... everywhere* ■ ■ ■ *intelligent compressed air ... everywhere* ■ ■ ■ *intelligent compressed air ... everywhere* ■ ■ ■

# Assembly, Technique, Highlights



Photos: ALLEGRO 100 – 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 costs more 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

SCD motor



SCD direct drive



SCD converter



# Compatibility, Flexibility, Energy savings



ALLEGRO 30 – 80



ALLEGRO 100 – 210



ALLEGRO 16 – 38



ALLEGRO 16 – 38 "Plus"

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

type	pressure bar	air flow* according to ISO 1217 (anex C-1996)		motor power kW	length mm	width mm	height mm	weight kg
		min. (m <sup>3</sup> /min)	max. (m <sup>3</sup> /min)					
ALLEGRO 16	5 – 13	0,51	– 2,49	16	1270	795	1170	387
ALLEGRO 20	5 – 13	0,51	– 2,96	20	1270	795	1170	387
ALLEGRO 24	5 – 13	0,51	– 3,42	24	1270	795	1170	405
ALLEGRO 28	5 – 13	0,51	– 4,10	28	1270	795	1170	405
ALLEGRO 32	5 – 13	1,43	– 4,80	32	1540	795	1170	545
ALLEGRO 38	5 – 13	1,43	– 5,45	38	1540	795	1170	555
ALLEGRO 30	5 – 13	0,79	– 5,70	30	2020	850	1570	870
ALLEGRO 40	5 – 13	0,79	– 6,00	40	2020	850	1570	910
ALLEGRO 60	5 – 13	1,73	– 8,80	60	2020	850	1570	1090
ALLEGRO 80	5 – 13	1,73	– 10,70	80	2020	850	1570	1165
ALLEGRO 100	5 – 13	3,15	– 15,75	100	2300	1400	1800	2050
ALLEGRO 115	5 – 13	3,15	– 18,73	115	2300	1400	1800	2200
ALLEGRO 130	5 – 13	3,15	– 20,00	130	2300	1400	1800	2200
ALLEGRO 150	5 – 13	9,33	– 25,68	150	2300	1500	2000	3200
ALLEGRO 210	5 – 13	9,33	– 28,88	210	2300	1500	2000	3450
ALLEGRO 260	5 – 13	12,00	– 41,48	260	3500	1650	2025	4300

\*  $\dot{V}$  referred to an operating pressure of 8 bar  
air-cooled/water-cooled optionally from ALLEGRO 30 on  
various heat recovery systems available from ALLEGRO 30 on

# Save, Save, Save

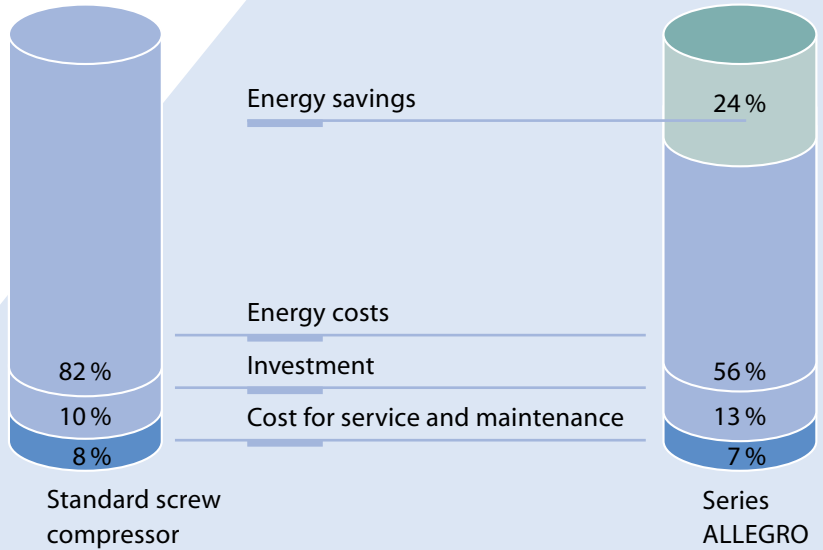
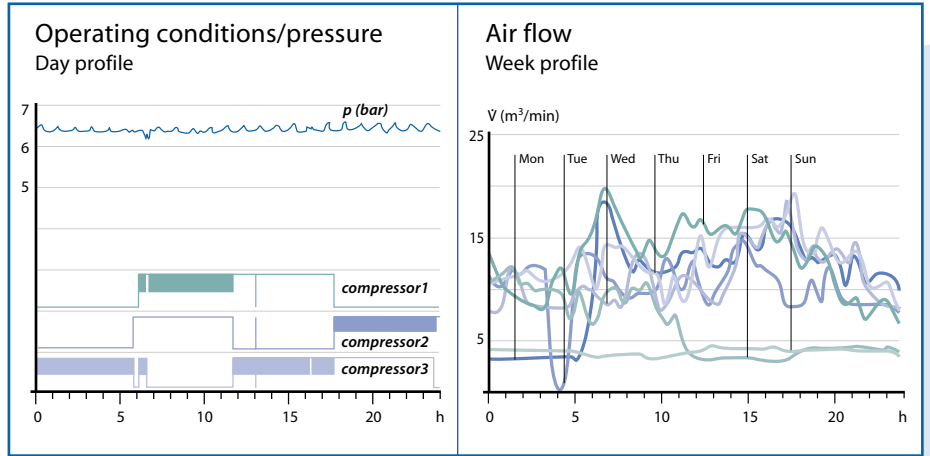
In typical installations as show there is an enormous energy saving potential!

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

This is reason enough to allow the specialists from ALUP to determin 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 ALLEGRO together with the also directly driven OPUS form an unbeatable "energy-saving duo".

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



*Do you have money to throw away?*



# Products, Concepts, Solutions

## Built on the needs of the customer

For almost 100 years we from ALUP have produced quality compressors.

With our innovative system concepts we offer customised solutions for almost all ranges of application.

Our endeavour lies not only in supplying compressors, we offer ourselves as a competent system provider, who is able to offer a solution from the compressed air producer to the last compressed air consumer.

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

**Challenge us!**



### Screw compressors

- Constant speed  
4 – 400 kW/5 – 13 bar
- Variable speed controlled and direct drive  
16 – 260 kW/5 – 13 bar
- Oil-free, with water injection  
4 – 250 kW/5 – 10 bar



### Piston compressors

- Oil-free up to 10 bar  
0.75 – 4.0 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 35 bar  
2.2 – 11 kW
- As a Booster for an input pressure up to 15 bar and an output pressure up to 40 bar  
2.2 – 15 kW



### Complete Accessoires

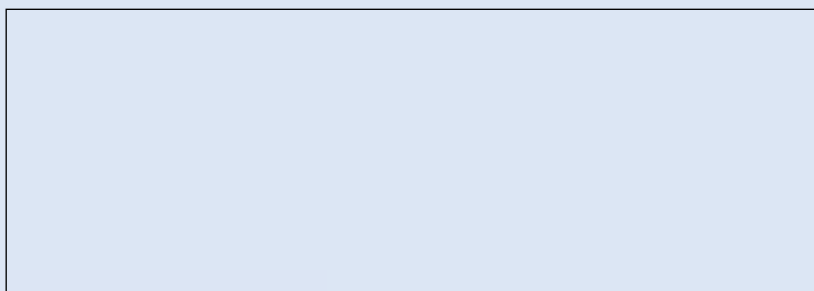
- Refrigeration dryers  
0.16 – 145 m<sup>3</sup>/min
- Desiccant dryers  
0.08 – 145 m<sup>3</sup>/min
- Activated carbon adsorbers  
0.08 – 145 m<sup>3</sup>/min
- Filters, all particle sizes  
0.08 – 380 m<sup>3</sup>/min
- Complete Condensate management  
up to 120 m<sup>3</sup>/min



### 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 competent consultant



**ALUP**  
Kompressoren

 a company of the  
Abac Group

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