

Screw compressors

**SCK 5-52**

Capacity:

0.43 – 5.78 m<sup>3</sup>/min



# Intelligence, innovation, reliability

## The small power package

*small, compact, powerful*

*great diversity of variants*

*clear, maintenance-friendly design*

*super sound insulation as standard feature*

*intelligent microprocessor controls*

*optimal system efficiency*



### Maximum benefits for our customers:

This premise holds true for 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 criteria according to ISO 1217 – 3 annex C – 1996 and conform to the CE-guidelines.

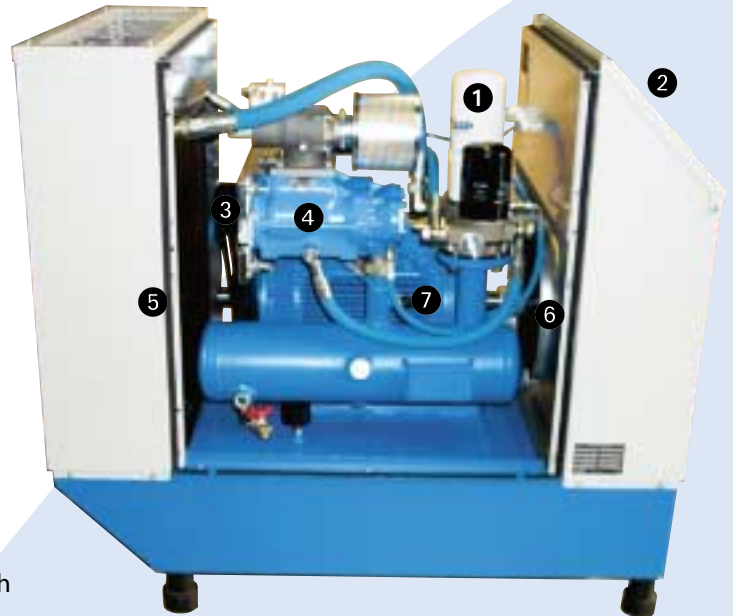
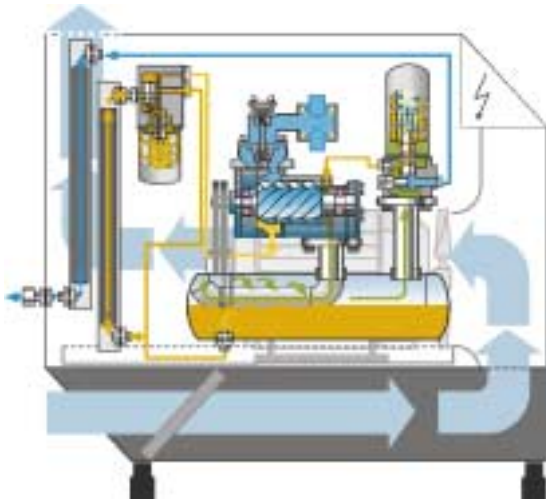
Even the most stringent conditions, such as DET NORSKE VERITAS, GERMANISCHER LLOYD, BUREAU VERITAS, LLOYD'S REGISTER OF SHIPPING, ABS among others, are for us at ALUP a matter of course.



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



# Assembly, technique, highlights



- 1 **Separating system**  
highest compressed air quality through proven multi-stage separation
- 2 **Air Control**  
the intelligence of the compressor; thinks, monitors, records (available in two versions)
- 3 **Drive system**  
highly efficient, operationally safe V-belt drive
- 4 **Air end**  
high performance, excellent efficiency

- 5 **Cooling unit**  
large surface-area radiators for lowest compressed air outlet temperatures and optimum thermostat-controlled coolant temperatures
- 6 **Fan**  
powerful, efficient, high-performance
- 7 **Drive motor**  
Robust drive motor with reserves

Manufacture



Test



Service



# Data, facts, analysis



Type	Air flow according to ISO 1217 (annex C-1996)			Motor power	Length	Width	Height	Weight
	8 bar (m <sup>3</sup> /min)	10 bar (m <sup>3</sup> /min)	13 bar (m <sup>3</sup> /min)	kW	mm	mm	mm	kg
SCK 5	0.65	0.54	0.43	4.0	605	945	900	190
SCK 8	0.88	0.78	0.65	5.5	605	945	900	190
SCK 10	1.20	1.07	0.87	7.5	605	945	900	205
SCK 15	1.70	1.50	1.32	11.0	605	945	900	220
SCK 22	2.24	1.98	1.63	15.0	605	1010	900	235
SCK 21	2.52	2.17	1.75	15.0	795	1270	1170	435
SCK 26	2.97	2.62	2.27	18.5	795	1270	1170	450
SCK 31	3.54	3.12	2.67	22.0	795	1270	1170	485
SCK 42	4.60	4.12	3.40	30.0	795	1270	1170	580
SCK 52	5.78	5.15	4.42	37.0	795	1270	1170	595



Air Control 1



Air Control 3

## ALUP Air Control

The microprocessor controls for the safe monitoring of all functions.

Control, regulate, monitor, early-warning and in "extreme cases" – failure diagnosis – these are the main tasks for the "brain" of your compressor, a standard feature of all our screw compressors.

Available in 2 variants.



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# Compatibility, flexibility, diversity

The SCK 5-52 series is designed so that the units can be employed in a great variety of ways and applications.

You can install this series:

- ... as standard compressor



SCK 5-52

In any case, the series sets new standards for its power class with regard to quality, operational safety, service life and user comfort.

- ... with coupled refrigeration dryer, which can also be added later  
SCK 5-52



- ... mounted on a tank  
SCK 5-22



- ... mounted on a tank with refrigeration dryer  
SCK 5-22



# 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



### Piston compressors



### Turbo compressors



### Complete Accessories



### Control, regulate, monitor

- 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

- Oil-free, up to 10 bar  
0.75 – 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 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

- Oil-free, up to 9 bar  
65 – 370 kW

- 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

- 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



**ALUP**  
Kompressoren

a company of the  
**Abac Group**

Screw compressors

**SCK ... oil-free**

**OPUS ... oil-free**

**ALLEGRO ... oil-free**

Capacity:

0.43 – 6.03 m<sup>3</sup>/min



# Compact, numerous versions, oil-free



SCK ... oil-free  
OPUS ... oil-free  
ALLEGRO ... oil-free

## Small compact units, also in oil-free versions.

Based on modular system components, these oil-free compressors are made up of:

1. SCK/OPUS or ALLEGRO type screw compressor
2. AD compressed air-refrigerant dryer
3. Filter system consisting of
  - 1 x coalescing filter with economiser and electronic condensate drainer
  - 2 x active carbon filters (second active carbon filter is used only as an extra safety filter)

Whether centralised or decentralised, these compressors generate compressed air of particularly high quality – technically oil-free.

That means, according to DIN ISO 8573-1:

Residual components in the compressed air	Amount	Class according to DIN ISO 8573-1
Oil	0.003 mg/m <sup>3</sup>	1
Particles	< 0.01 µm	1
Water	DTP + 3 °C	4

## Benefits of the design:

- technically oil-free compressed air
- modular construction
- the experience of individual components proven a thousand times over
- extremely easy to service
- safe in operation, high performance

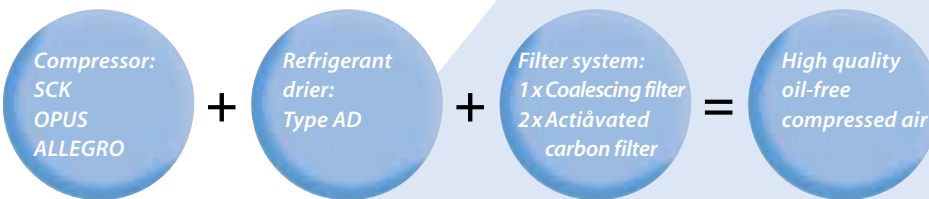
## This flexible power pack

generates oil-free compressed air with the following drive systems:

- SCK = V-belt drive
- OPUS = Direct drive
- ALLEGRO = Direct drive with speed control



SCK 5 - 22 standard/PLUS and oil-free also available as a tank variant (270/500 l)



Type	Operating overpressure bar	Volume flow m <sup>3</sup> /min.	Motor-rated power kW	Length mm	Width mm	Height mm
SCK 5 – 22	8/10/13	0.43 – 2.25	4 – 15	1145	605	900
SCK 21 – 52	8/10/13	1.75 – 5.88	15 – 37	1470	795	1170
OPUS 11 – 15	8,5/13	1.75 – 1.85	11 – 15	1470	795	1170
OPUS 16 – 22	7/9/13	2.89 – 3.00	16 – 22	1740	795	1170
ALLEGRO 16 – 28	5 – 13	0.49 – 4.24	16 – 28	1470	795	1170
ALLEGRO 32 – 38	5 – 13	1.36 – 6.03	32 – 38	1740	795	1170

Volume flow in accordance with ISO 1217 Appendix C

Your authorized technical adviser



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