

Variable speed rotary  
screw air compressors

**Series SOLO®**

Capacity:  
0.40 – 4.24 m<sup>3</sup>/min

Patent  
applied for



**SOLO®**



# Intelligence, Innovation, Reliability

*Simple, silent and smooth whilst saving energy by up to 35%*

*compact, fully integrated compressor unit*

*powerful, smooth-running and compact ~ 60 dB(A)*

*Energy-saving speed control with direct drive*

*flexible operating pressure 5 – 13 bar, continuously variable*

*simple, user-friendly maintenance*

*also available as the "PLUS version", with slimline vertically arranged dryer*



## 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.

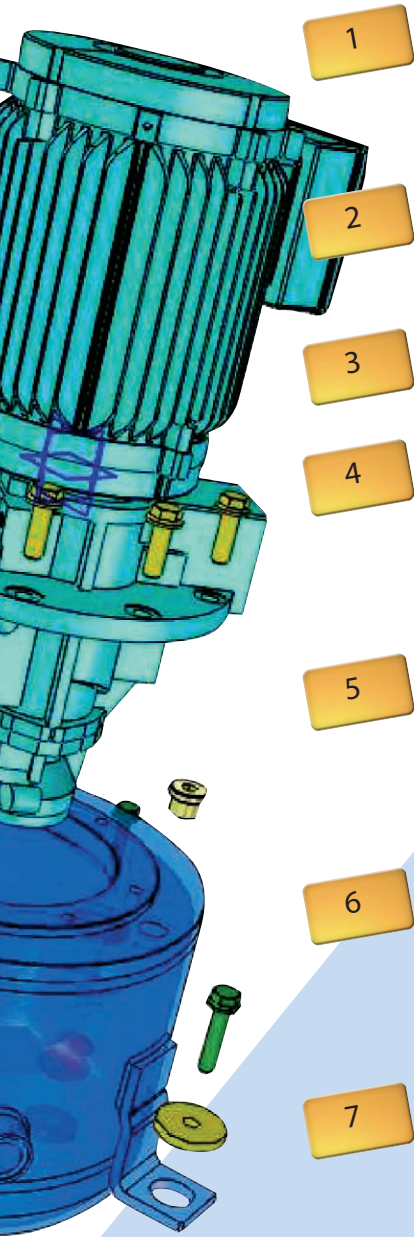
Even the most stringent conditions, such as DET NORSKE VERITAS, GERMANISCHER LLOYD, BUREAU VERITAS LLOYD'S REGISTER OF SHIPPING, ABS among others, are for us at ALUP a matter of course.



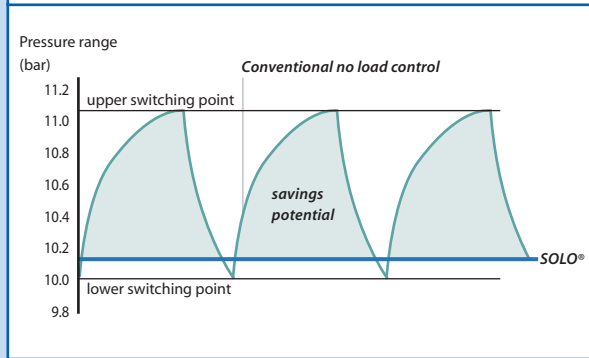
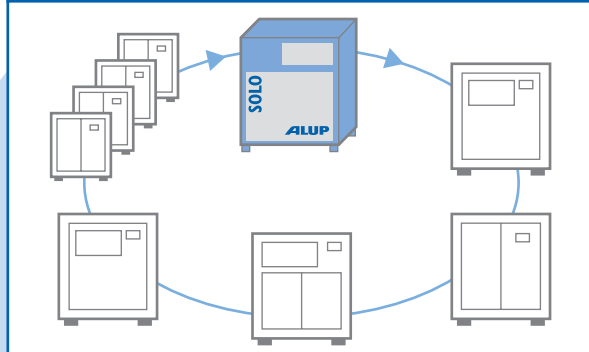
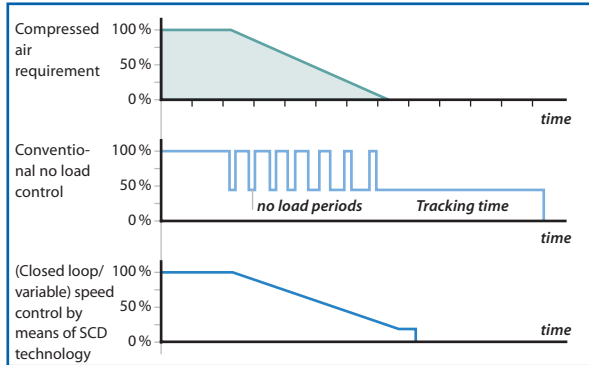
intelligent compressed air ... everywhere ■■■ intelligent compressed air ... everywhere ■■■ intelligent compressed air ... everywhere ■■■

# Intelligent technology where it matters!

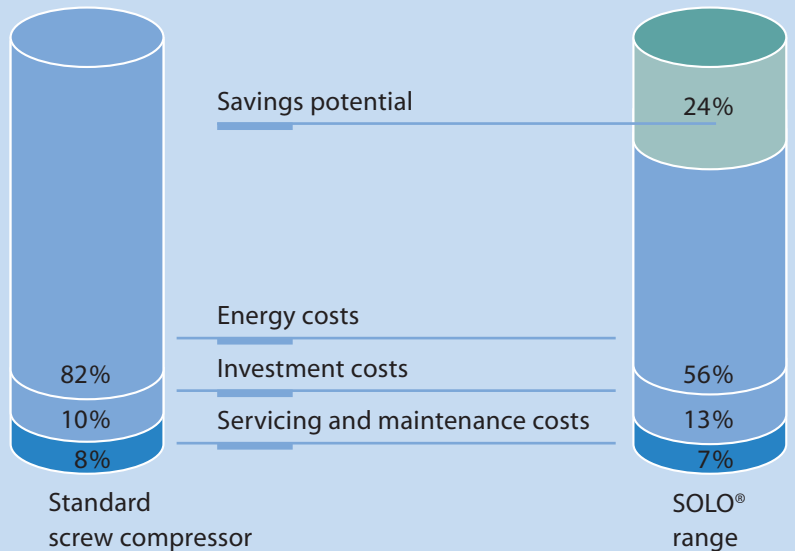
The integrated single shaft solution in a speed-controlled design offers TOP technology without compromise:

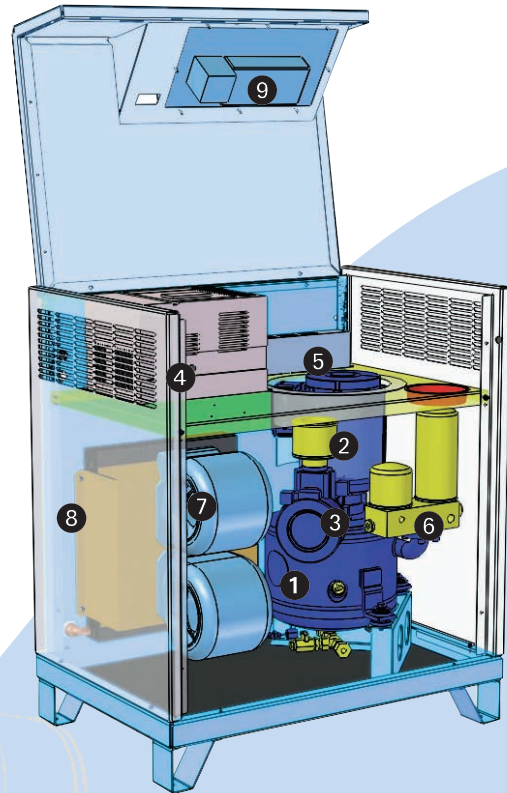


- 1 Exactly matching the flow compressor air to the precise compressed air requirement, instantly
- 2 Avoiding of switching cycles and the consequent costly no-load running periods
- 3 Energy-saving start-up eliminating current spikes
- 4 Freely selecting the operating pressure between 5 – 13 bar in 0.1 bar increments constant. The reduced pressure generation immediately saves you with power!
- 5 Compact and space saving design – there is really nothing more to be said – and this with optimum accessibility for service and maintenance.
- 6 Being speed controlled the SOLO® can work with up to eight large compressors, providing further savings in an intelligent ALUP “Master-Slave relationship”
- 7 Average cost comparison for a standard screw compressor in comparison to the SOLO®, over a 5 year period



Save,  
save,  
save,  
save!





**1 Compressor**

- fully integrated within the separator vessel
- newly developed rotor profile for maximum efficiency
- wide control range with very good overall efficiency

**2 SCD motor**

- robust drive motor with speed control
- IP 55 protection with class F insulation

**3 SCD direct drive**

- Compressor shaft and the motor rotor are one piece
- loss-free power transmission and no coupling element
- no motor bearing required, providing increased operating safety

**4 SCD frequency converter**

- the integrated power pack
- conforms to stringent EMC directives

**5 Mains screening**

- 100% safety against surge interference

**6 Separator system**

- highest compressed air thanks to a proven multi-stage separation system

**7 Radial fan**

- powerful, efficient and smooth running
- high residual pressure for subsequent connection to a ducted ventilation system

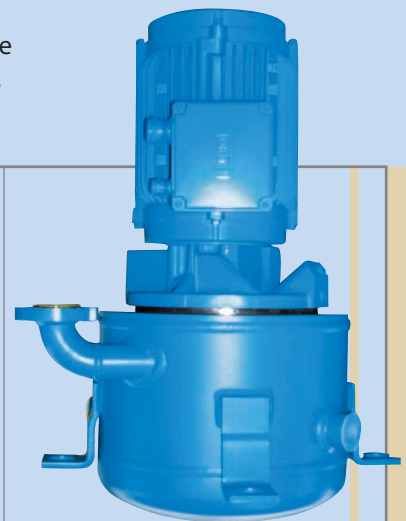
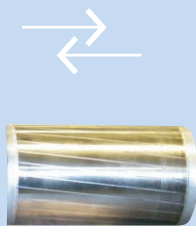
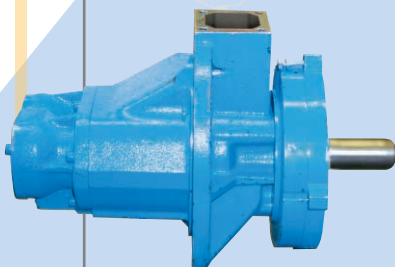
**8 System cooler**

- efficient cooler for lowest coolant/compressed air output temperatures

**9 Air Control 2**

- the compressor's intelligence
- thinks, monitors and records

*The "integrated single shaft solution" from ALUP*



# Compatibility, Flexibility, Energy saving

Type SOLO®	Operating overpressure bar	Flow* to ISO 1217 (Appendix C-1996)		Motor-rated output kW	Length mm	Width mm	Height mm	Weight kg
		min. (m <sup>3</sup> /min)	max. (m <sup>3</sup> /min)					
SOLO 6	5 - 13	0.40	– 0.79	5.5	870	590	990	165
SOLO 7	5 - 13	0.40	– 1.13	7.5	870	590	990	165
SOLO 11	5 - 13	0.40	– 1.67	11	870	590	990	180
SOLO 15	5 - 13	0.40	– 2.11	15	870	590	990	190
SOLO 16	5 - 13	0.84	– 2.49	15	1050	795	1240	275
SOLO 18	5 - 13	0.84	– 2.96	18.5	1050	795	1240	285
SOLO 22	5 - 13	0.84	– 3.42	22	1050	795	1240	305
SOLO 30	5 - 13	0.84	– 4.10	30	1050	795	1240	365

\* V̇ referred to operating overpressure of 8 bar

## SOLO® – unique concept, modular design ...

The diagram illustrates the modular design of the SOLO compressor system. A central SOLO 9 unit is shown with callouts pointing to different configurations:

- ... as the receiver mounted version:** A SOLO 6 unit with a receiver mounted on top.
- ... as the standard compressor:** A SOLO 6 unit without a receiver.
- ... as „PLUS“ version version with underslung refrigeration dryer for DTP of 3°C:** A SOLO 6 unit with a receiver and a refrigeration dryer mounted underneath.
- ... as the receiver mounted „PLUS“ version\*:** A SOLO 6 unit with a receiver and a refrigeration dryer mounted underneath.
- ... as the „O“ version with underslung refrigeration dryer and filter system for production of „oil free“ compressed air:** A SOLO 6 unit with a receiver, a refrigeration dryer, and a filter system mounted underneath. A circular inset shows the filter system with a green starburst labeled "oil-free".
- ... as the receiver mounted „O“ version\*:** A SOLO 6 unit with a receiver, a refrigeration dryer, and a filter system mounted underneath. A circular inset shows the filter system with a green starburst labeled "oil-free".

\* Versions not available for SOLO 16 – 30

# Products, Concepts, Solutions

## Built on the needs of the customer

For almost 100 years, we at ALUP have produced quality air compressors.

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

Our endeavour lies not only in supplying compressors however, and 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!



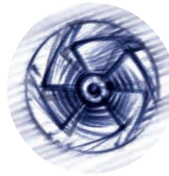
### Screw compressors

- Constant speed  
4 – 400 kW/  
5 – 13 bar
- Variable speed controlled and direct drive  
5.5 – 260 kW/  
5 – 13 bar
- Oil-free, with water injection  
15 – 55 kW/  
5 – 10 bar



### Piston compressors

- 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



### Turbo compressors

- Oil-free, up to 9 bar  
65 – 370 kW



### Complete Accessories

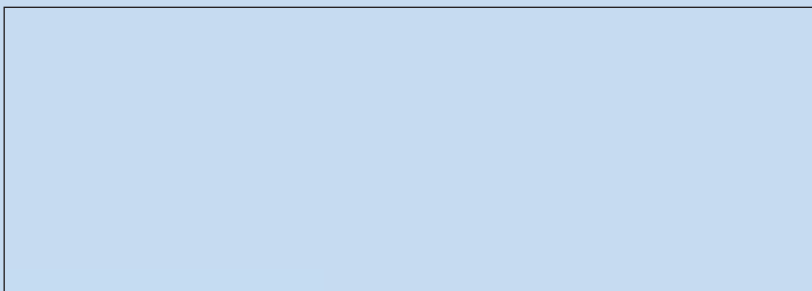
- Refrigeration dryers  
0.16 – 145 m<sup>3</sup>/min
- Desiccant dryers  
0.08 – 145 m<sup>3</sup>/min
- Activated carbon adsorbers  
0.08 – 145 m<sup>3</sup>/min
- Filters, all particle sizes  
0.08 – 380 m<sup>3</sup>/min
- Complete Condensate management  
up to 120 m<sup>3</sup>/min



### 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 specialist



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

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Kompressoren

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