

Variable speed rotary
screw air compressors

Series ALLEGRO

Capacity:
0.49 – 42.10 m³/min



ALLEGRO
SCO technology



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 betasolutions

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

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Assembly, Technique, Highlights



Separating system

highest compressed air quality through proven multi-stage separation

SCD frequency converter

the integrated power package, self-evident according to EMV guidelines

SCD motor

high-efficiency drive motor, enclosure IP 55, optimum efficiency up to 96%

SCD direct drive

loss-free power transmission, maximum costs more savings

Air end

excellent efficiency over the entire control range

Cooling unit

large surface area radiators for lowest compressed air outlet temperatures and optimum thermostat-controlled coolant temperatures

Fan

powerful, efficient, high-performance

Air Control

the intelligence of the compressor. Thinks, monitors, records

SCD motor



SCD direct drive



SCD converter



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Compatibility, Flexibility, Energy savings



ALLEGRO 30 – 80

ALLEGRO 100 – 260



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 ³ /min)	max. (m ³ /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

* 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



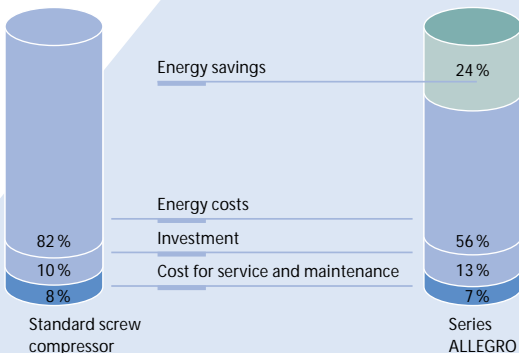
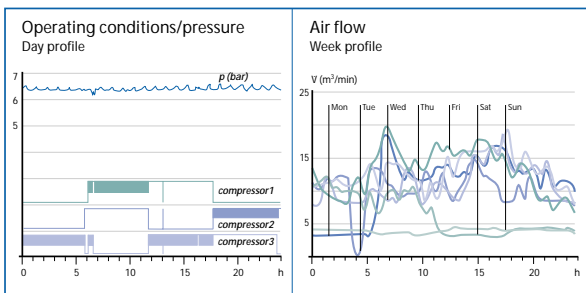
In typical installations as show there is an enormous energy saving potential!

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?



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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 m³/min

Desiccant dryers
0.08 – 145 m³/min

Activated carbon
adsorbers
0.08 – 145 m³/min

Filters,
all particle sizes
0.08 – 380 m³/min

Complete
Condensate
management
up to 120 m³/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)

Screw compressors

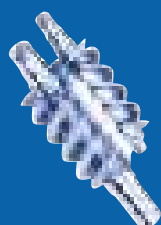
SCK ... oil-free

OPUS ... oil-free

ALLEGRO ... oil-free

Capacity:

0.43 – 6.03 m³/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.



Type	Operating overpressure bar	Volume flow m ³ /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

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 ³	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)

Your authorized technical adviser



a company of the
Abac Group