

Screw compressors
Series DIRECT

Capacity:
1.75 – 48.72 m³/min



Intelligence, Innovation, Reliability

The directly driven alternative!

outstanding unit efficiency

loss-free direct drive

excellent economic efficiency

intelligent microprocessor control

compact and service-friendly



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



- 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, loss-free direct 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

Drive motor, Direct drive and Switch cabinet



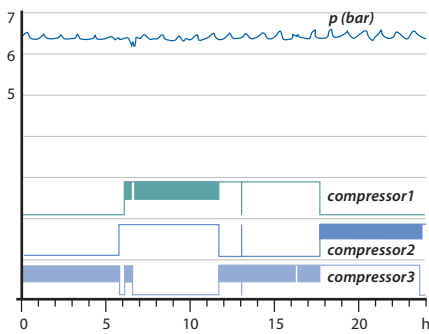
Data, Facts, Analysis



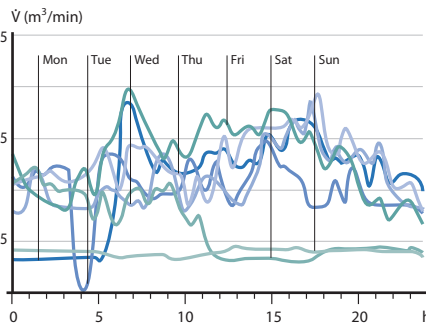
Type	Max. pressure bar	Air flow according to ISO 1217 (annex C – 1996) m ³ /min	Motor-rated output kW	Length mm	Width mm	Height mm	Weight kg
DIRECT 11	8	1.81	11	1270	890	1190	398
DIRECT 15	13	1.75	15	1270	890	1190	413
DIRECT 16	7	2.98	15	1545	890	1190	485
DIRECT 18	9	2.94	18.5	1545	890	1190	495
DIRECT 22	13	2.89	22	1545	890	1190	525
DIRECT 37	7.5	6.80	37	1750	1080	1600	970
DIRECT 45	10	6.72	45	1750	1080	1600	1070
DIRECT 55	13	6.41	55	1750	1080	1600	1160
DIRECT 75	11	11.58	75	2300	1400	2025	1850
DIRECT 90	13	11.47	90	2300	1400	2025	1950
DIRECT 132	8	23.90	132	2300	1400	2025	3200
DIRECT 160	11.5	23.37	160	2300	1400	2025	3450
DIRECT 280	8	48.30	315	3400	1650	2025	4300
DIRECT 315	10	48.00	315	3400	1650	2025	4400

air-cooled standard/water-cooled optionally available from DIRECT 37 on/DIRECT 315 only water-cooled various heat recovery systems optionally available from DIRECT 37 on
DIRECT 11 – 22 also available as "Plus" version (with attached refrigeration dryer)

Operating conditions/pressure
Day profile



Air flow
Week profile



In typical installation as shown there is an enormous energy, saving potential!

Decisions can be made only on the basis of facts. Therefore:
First analyse, then decide.

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



Compatibility, Flexibility, Energy savings

Powerful in every kW class.

The DIRECT series is designed so that due to its unique design concept it can be operated extremely efficiently in every kW range, thus being suitable for a multitude of applications.

In conjunction with the speed-controlled VARIABLE it forms an unbeatable "energy-saving duo".

In terms of design, both units are identical, except that VARIABLE is additionally provided with a frequency converter.

Advantages of the duo:

- identical structure of the units
- identical components
- identical spare parts supply
- identical handling
- excellent economic efficiency



DIRECT 11 – 22

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



DIRECT 37 – 55



DIRECT 75 – 160



DIRECT 280 – 315



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
2.2 – 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

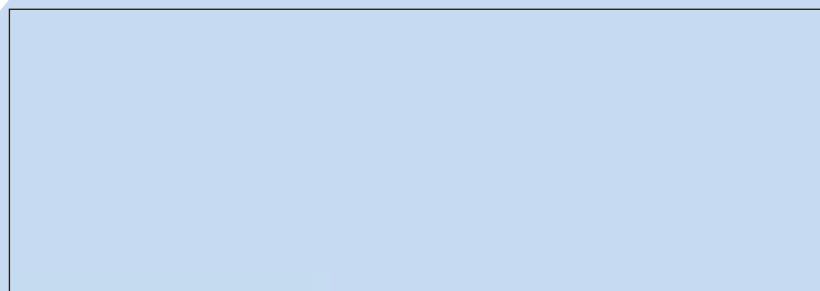
- refrigeration
dryers
0.27 – 100 m³/min
- desiccant dryers
0.08 – 145 m³/min
- activated carbon
adsorbers
0.08 – 145 m³/min
- filters,
all particle sizes
0.5 – 225 m³/min
- complete
condensate
management up to
120 m³/min



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

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