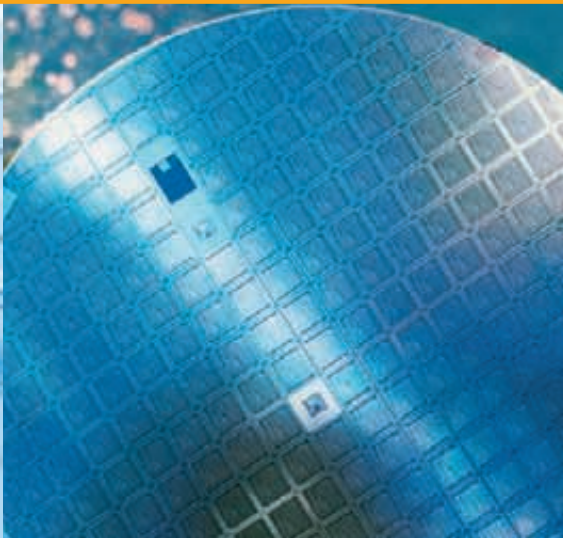
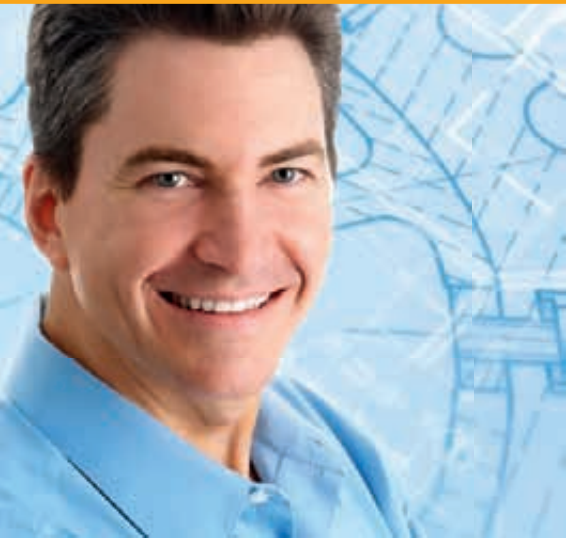


# TURBOCOMPRESSORS

Volumetric flow rate: 11.5 – 180 m<sup>3</sup>/min



**DYNAMIC**

A white icon of a turbocompressor, showing the turbine and compressor wheels on a common shaft.

# INTELLIGENTE DRUCKLUFT MADE IN GERMANY

## ALMiG Kompressoren GmbH

A name that guarantees top-grade technology in the compressed air sector. ALMiG has emerged from a company with a long tradition whose products in the compressed air industry have always stood for quality, innovation and consideration for its customers.

Today ALMiG is an extremely flexible company that can react fast to special customer requests. It stands by its customers as a competent partner, giving advice and practical support.

As one of the leading suppliers of advanced compressed air systems, our commitment to continuous research and development forms the basis for all our products. ALMiG compressors are all manufactured in accordance with

- IRIS
- ISO 9001: 2000
- ISO 14001: 2004

They meet the conditions for acceptance in compliance with:

- VDI 2045
- ISO 1217-3 annex C-1996
- ASME
- OSHA

and conform to the CE guidelines.

Compliance with the most stringent acceptance conditions, such as

- DET NORSKE VERITAS
- GERMANISCHER LLOYD
- BUREAU VERITAS
- LLOYD's REGISTER OF SHIPPING
- ABS

is a matter of course for us.

**Our motto is:**

If you have stopped improving,  
you have stopped being good!

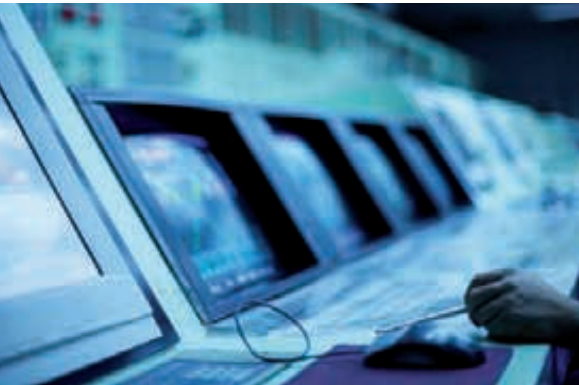
## Oil-free compressed air, reliable in operation and convincingly economical

- 100 % oil-free compressed air
- economical compressor operation at clearly defined costs

- minimal maintenance cost
- compact design with an extremely high delivery volume

- user-friendly microprocessor control for reliable compressor monitoring

- also available with panelling



# INGENIOUS MODULAR SYSTEM

DYNAMIC 75 - 100	DYNAMIC 120 - 220	DYNAMIC 230 - 370	DYNAMIC 400 - 1000
Installation size I	Installation size II	Installation size III	Installation size IV
			
<p>smallest turbocompressor in its class</p> <p>two-stage compression</p> <p>drive by means of „Inverter Technology“</p> <p>controlled via microprocessor</p> <p>motor outputs ranging from 75 to 110 kW</p>	<p>easy to install, minimal maintenance costs</p> <p>two-stage compression</p> <p>controlled via microprocessor</p> <p>inlet guide vane (optional) to further increase economic efficiency</p> <p>motor outputs ranging from 132 to 250 kW</p>	<p>easy to install, minimal maintenance costs</p> <p>two-stage compression</p> <p>controlled via microprocessor</p> <p>inlet guide vane (optional) to further increase economic efficiency</p> <p>motor outputs ranging from 250 to 400 kW</p>	<p>easy to install, minimal maintenance costs</p> <p>two-, three- and four-stage compression</p> <p>controlled via microprocessor</p> <p>inlet guide vane (standard) to further increase economic efficiency</p> <p>motor outputs ranging from 355 to 1000 kW</p>

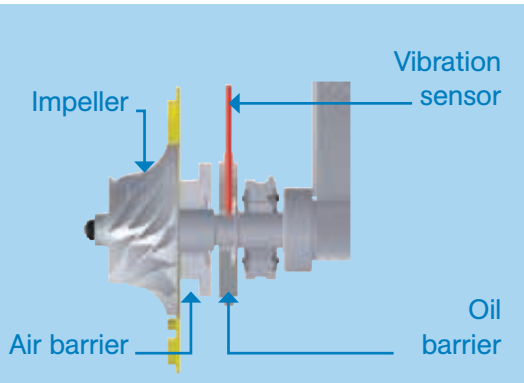




- Intake filter** 1 generously dimensioned, good preliminary air separation
- Drive motor** 2 highly efficient drive motor, efficiency up to 97 %
- Inlet valve** 3 air intake upstream of first stage, from installation size II optionally with intake diffuser
- Base frame** 4 complete housing with compressed air coolers and oil reservoir
- Switching cabinet with Air Control T** 5 user-friendly for safe and economical regular processes
- Drive unit** 6 inspection of gear and bearings is feasible without effort owing to the horizontal division of the housing
- Impeller** 7 made from solid material, no wear, not susceptible to particles and corrosion
- Multi segment slide bearing** 8 impellers optimally centred in all conceivable operating states
- Compressed air intermediate and after coolers** 9 with withdrawable tube bundles. Water flows in the tubes making cleaning extremely easy

## It's the details that matter:

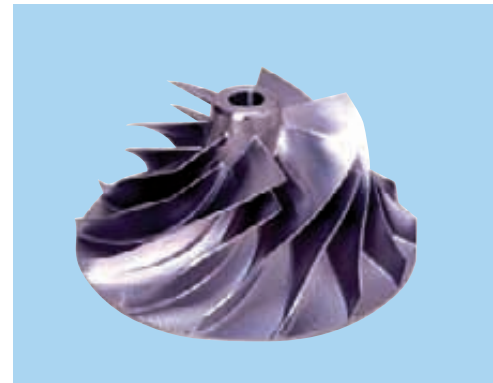
Labyrinth sealing systems for 100 % oil-free compressed air



Bladed wheel



Titanium impeller

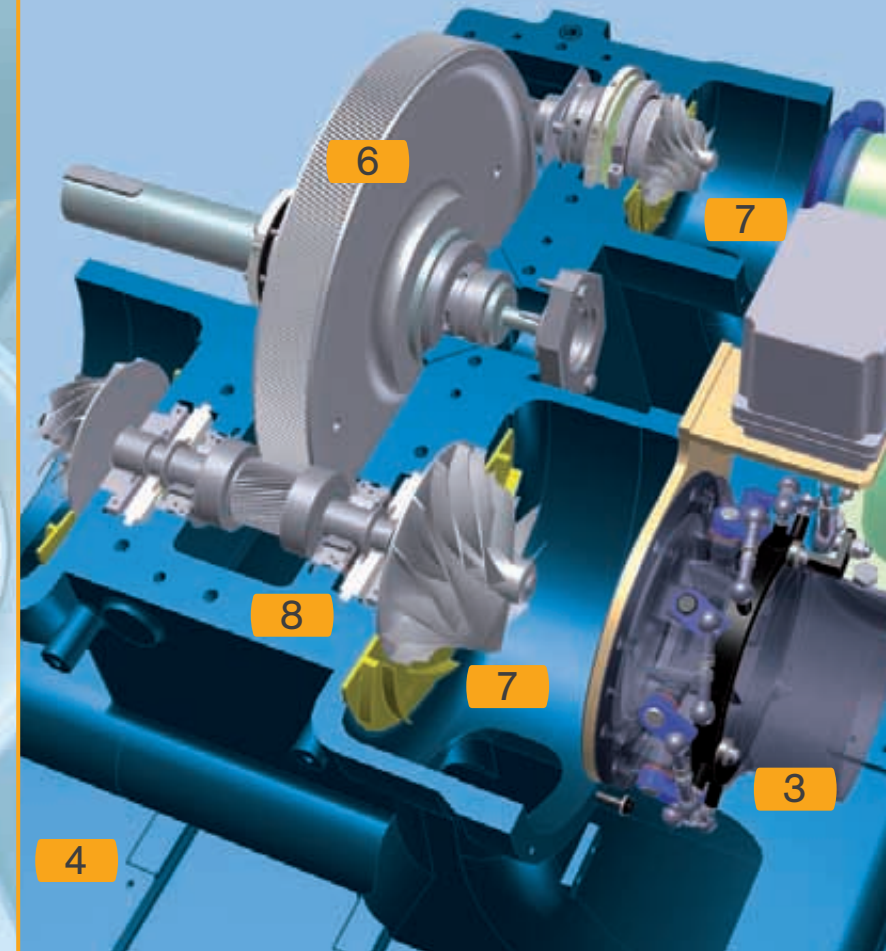
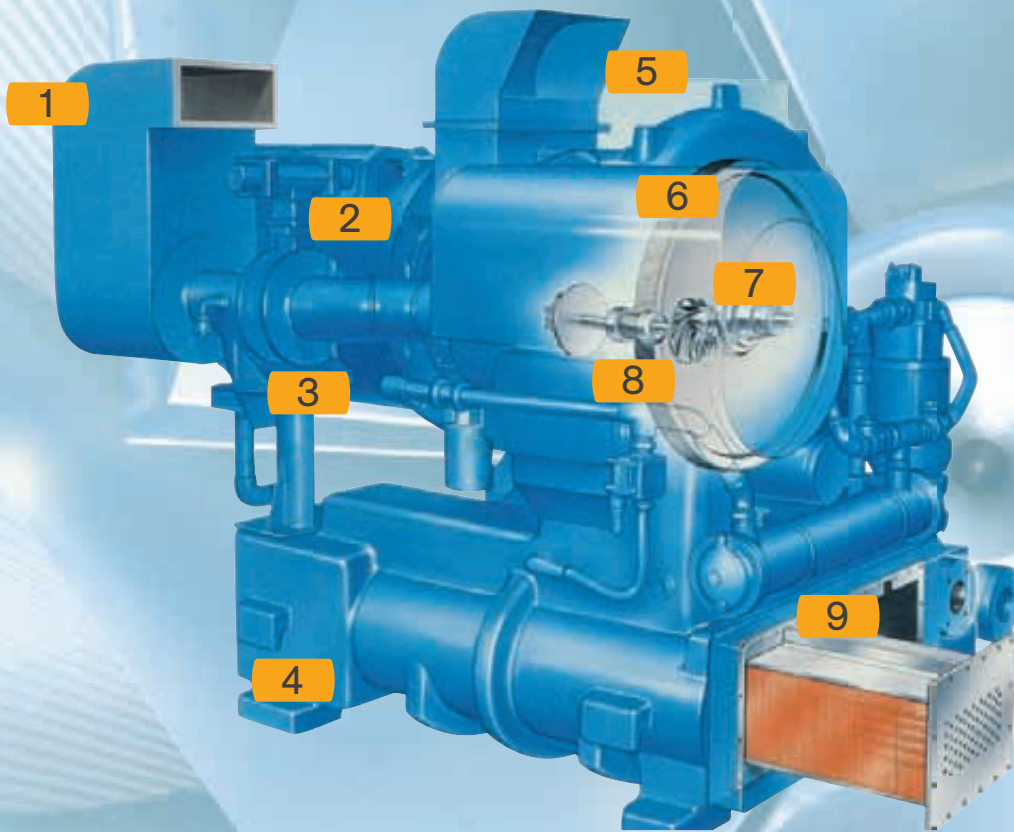


Multi segment slide bearing

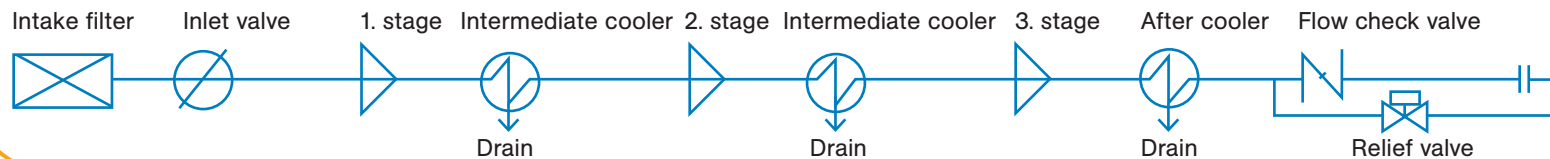


# DESIGN, TECHNOLOGY, HIGHLIGHTS

DYNAMIC 155



Air flow chart



This flow chart also applies to the DYNAMIC 400 - 1000 series

# TO INCREASE ECONOMIC EFFICIENCY

If air consumption fluctuates the optional inlet guide vane ensures a constant operating pressure.

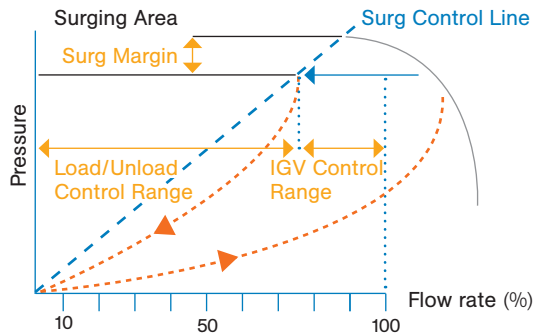
If the consumption of compressed air drops radically the plant is controlled in load / no-load operation between 2 pressure points. This means: Energy savings and protection from pump action.

The user-friendly Air Control T microprocessor control system captures all relevant plant data (pressure, temperature, cooling water etc.) and visualise them by means of graphic display. Data transmission with an RS 485 bus enables easy connection to centralised control technologies, e.g. via Modbus or Profibus.

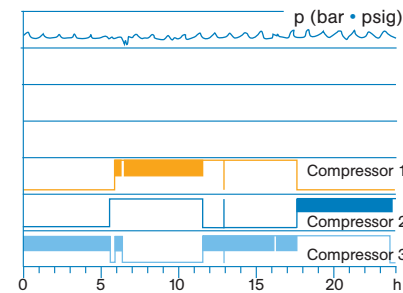
The following measurement graphs show that there is an enormous energy-saving potential!

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

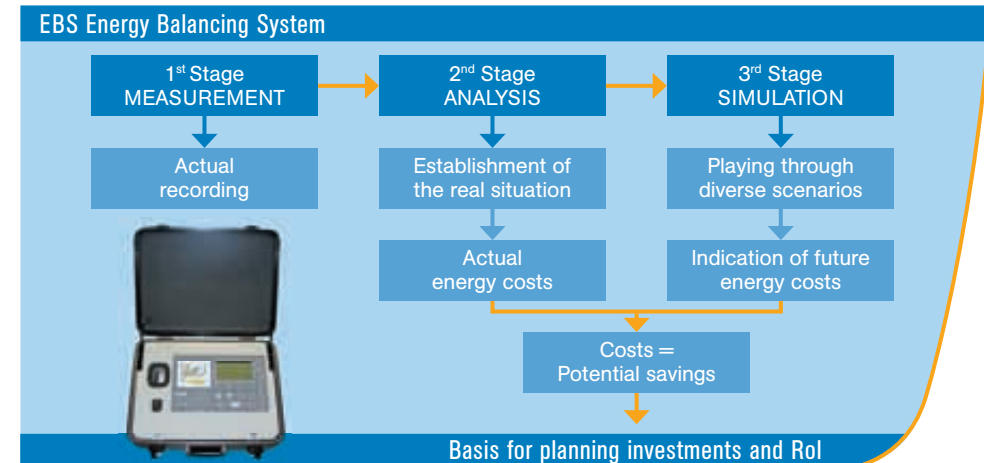
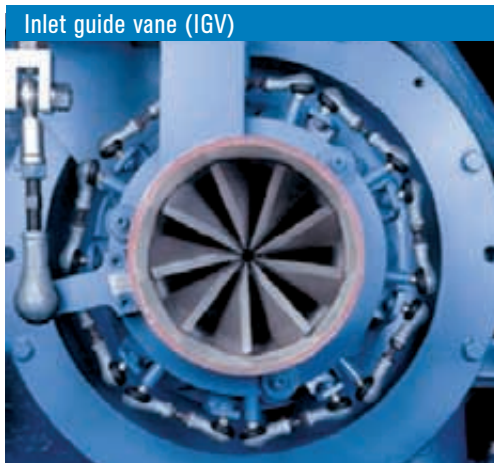
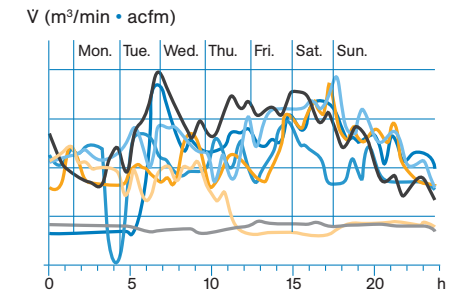
This is reason enough to allow the specialists from ALMiG to determine your current compressed air consumption and, with the help of accurate measurements, develop the optimum system solution together with you.



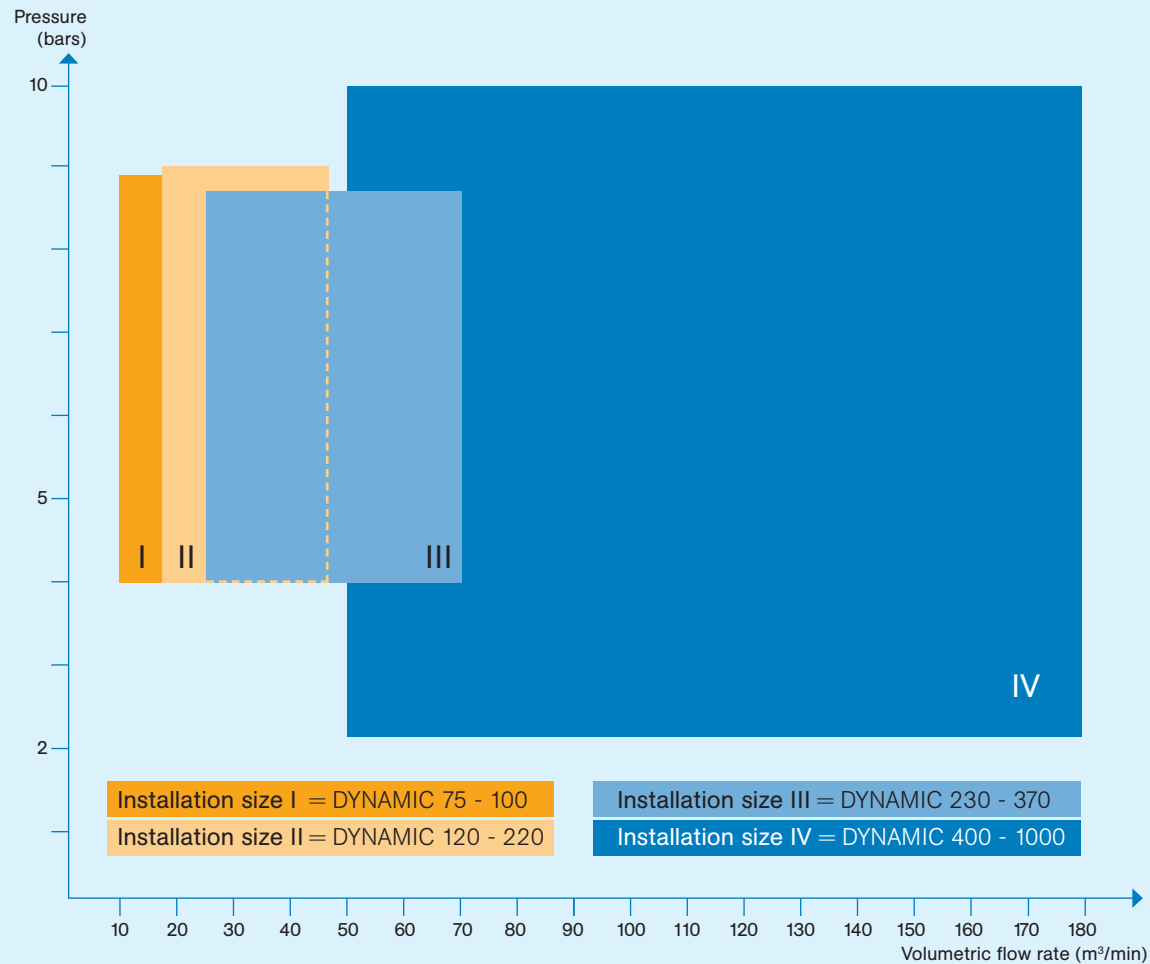
Operating conditions/Pressure - daily profile



Air flow - weekly profile



# FACTS AND FIGURES



Installation size I	Dimensions (mm)			Weight (kg)
	Length	Width	Height	
without panelling	2385	1400	1400	2300
with panelling	2385	1400	1525	2600

Installation size II	Dimensions (mm)			Weight (kg)
	Length	Width	Height	
without panelling	3000	1650	1900	4800
with panelling	3000	1650	2025	5700

Installation size III	Dimensions (mm)			Weight (kg)
	Length	Width	Height	
without panelling	4200	2450	2100	7600
with panelling	4400	2450	2200	8800

Installation size IV	Dimensions (mm)			Weight (kg)
	Length	Width	Height	
without panelling	5200	2540	2800	13500
with panelling	5300	2540	2900	14500

## INTELLIGENTE DRUCKLUFT MADE IN GERMANY

### In line with the customer's needs

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 capable of offering solutions to all users of compressed air. That does not only apply to the consultation and installa-

tion phase of your new compressor(s), but naturally continues in all areas of service, maintenance and visualisation.  
**Challenge us!**

Screw compressors	Piston compressors	Turbocompressors	Blower	Complete accessories	Control, regulate, monitor
<ul style="list-style-type: none"> <li>constant speed 2.2 – 500 kW/5 – 13 bars</li> <li>variable speed-controlled and direct drive 2.2 – 355 kW/5 – 13 bars</li> <li>oil-free, with water injection 15 – 80 kW/5 – 13 bars</li> </ul>	<ul style="list-style-type: none"> <li>oil-free, up to 10 bars 1.1 – 4 kW</li> <li>for normal pressure up to 10 bars 1.5 – 15 kW</li> <li>for medium pressure up to 15 bars 1.5 – 15 kW</li> <li>for high pressure up to 40 bars 2.2 – 45 kW</li> <li>as a booster for an input pressure up to 15 bars and an output pressure up to 40 bars 2.2 – 30 kW</li> </ul>	<ul style="list-style-type: none"> <li>for oil-free compressed air 65 – 1000 kW</li> <li>two-stage up to 9 bars</li> <li>three-stage up to 10 bars</li> </ul>	<ul style="list-style-type: none"> <li>at constant speed 1.5 – 55 kW 300 – 1000 mbars</li> <li>with speed control and direct drive 3 – 55 kW 300 – 1000 mbars</li> </ul>	<ul style="list-style-type: none"> <li>refrigerant dryers 0.27 – 100 m³/min</li> <li>desiccant dryers 0.08 – 145 m³/min</li> <li>activated carbon adsorbers 0.08 – 145 m³/min</li> <li>filters, all particle sizes 0.5 – 225 m³/min</li> <li>complete condensate management up to 120 m³/min</li> </ul>	<ul style="list-style-type: none"> <li>base load changeover controls</li> <li>consumption-related controls</li> <li>visualisation (we bring your compressed air to the PC)</li> <li>tele-monitoring (the hotline of your compressed air station)</li> </ul>



Your expert advisor