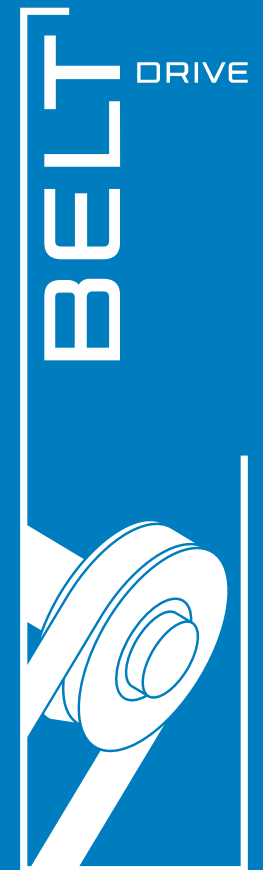
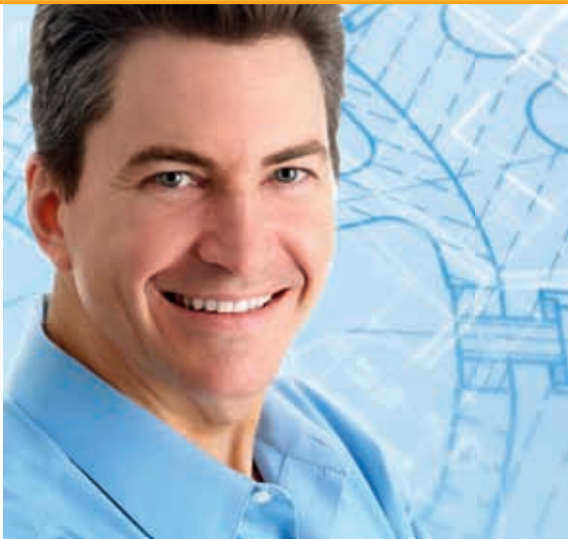


## SCREW COMPRESSORS

Volumetric flow rate: 0.43 – 43.07 m<sup>3</sup>/min • 20 – 1550 acfm



# 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:

- 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!

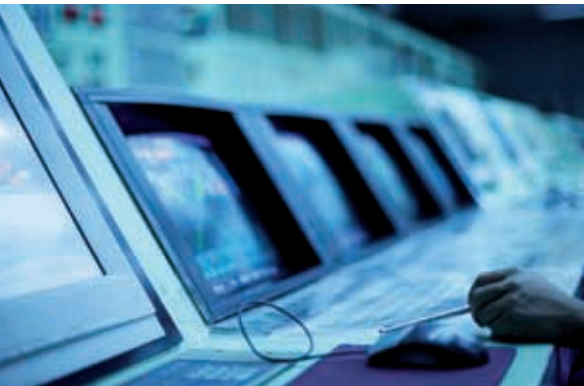
## Optimal overall concept - convincingly economical!

■ economical supply of high quality compressed air

■ clear, maintenance-friendly design

■ intelligent microprocessor controls

■ little effort and cost for installation and an enormous variety of versions



# INTELLIGENT MODULAR SYSTEM



BELT  
4 - 37

BELT  
4 - 37 "PLUS"\*

BELT  
38 - 75

BELT  
76 - 250

\*  
"PLUS" version: with docked-on refrigerant compressed air dryer; can also be retrofitted  
"O" version: with docked-on refrigerant compressed air dryer and filter system consisting of 1 x depth filter and 2 x active carbon filters for the production of technically oil-free compressed air

According to DIN ISO 8573 - 1 this means:

Residual constituents in compressed air	Volume	Class
Oil	0.003 mg/m <sup>3</sup>	1
Particles	< 0.01 μm	1
Water	PDP + 3°C/37 F	4





- Separating system** 1 top compressed air quality thanks to proven multi-stage separation
- Air Control** 2 the intelligence of the compressor; thinks, monitors, records (available in two versions)
- Drive system** 3 highly efficient, operationally reliable V-belt drive
- Air end** 4 high performance, excellent efficiency
- Cooling unit** 5 large surface-area coolers for lowest compressed air outlet temperatures and optimum thermostat-controlled coolant temperatures
- Fan** 6 powerful, efficient, high-performance
- Drive motor** 7 robust drive motor designed with reserves

Air Control 1 (BELT 4 - 75)

Air Control 3  
BELT 76 - 250 • optional for BELT 4 - 75

Drive system

Compressor rotors



# INTELLIGENT COMPONENT ARRANGEMENT



# INTELLIGENT ANALYSIS

## Or can you afford to give money away?

The conception of the BELT 4 - 250 series is such that, owing to its unique design principle, it can be operated extremely economically in any kW class and can therefore be utilised in many different applications.

These fixed-speed compressors are particularly suitable to be used as base-load compressors.

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

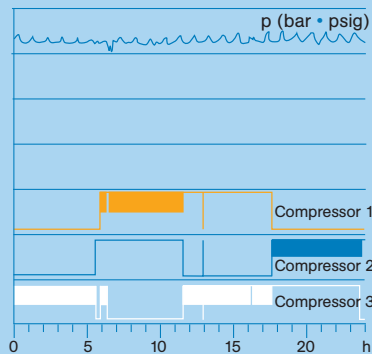
Only on the basis of facts can decisions be made.

Therefore:

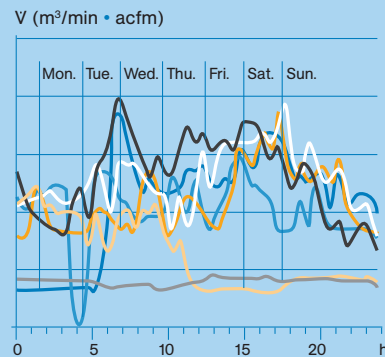
**analyse first, then decide.**

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.

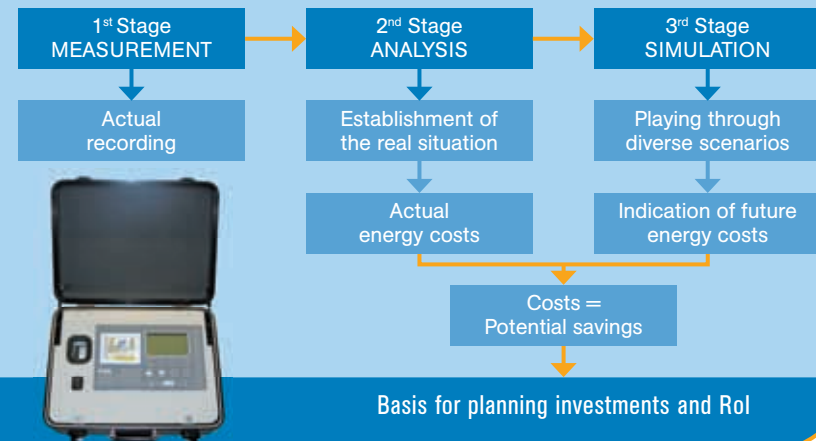
Operating conditions/Pressure - daily profile



Air flow - weekly profile



EBS Energy Balancing System



## FACTS AND FIGURES

50 Hz									60 Hz									
BELT	Vol. flow rate according to ISO 1217 (annex C-1996)			Rated motor output	Length	Width	Height	Weight	BELT	Vol. flow rate according to ISO 1217 (annex C-1996)				Rated motor output	Length	Width	Height	Weight
	8 bars	10 bars	13 bars							100 psig	125 psig	150 psig	190 psig					
	m <sup>3</sup> /min	m <sup>3</sup> /min	m <sup>3</sup> /min	kW	mm	mm	mm	kg		acfm	acfm	acfm	acfm					
4	0.65	0.54	0.43	4	1020	700	930	190	4 / 5	25	23	20	-	5.5	40.2	27.6	36.6	419
5	0.88	0.78	0.65	5.5	1020	700	930	190	5 / 7	32	30	26	24	7.5	40.2	27.6	36.6	419
7	1.20	1.07	0.87	7.5	1020	700	930	205	7 / 10	43	41	37	30	10	40.2	27.6	36.6	452
11	1.70	1.50	1.32	11	1020	700	930	220	11 / 15	64	60	53	46	15	40.2	27.6	36.6	485
15	2.24	1.98	1.63	15	1020	700	930	235	15 / 20	87	78	72	62	20	40.2	27.6	36.6	518
16	2.52	2.17	1.75	15	1270	890	1190	435	16 / 21	97	91	83	62	20	50	35	46.9	959
18	2.97	2.62	2.27	18.5	1270	890	1190	450	18 / 25	113	101	94	78	25	50	35	46.9	992
22	3.54	3.12	2.67	22	1270	890	1190	485	22 / 30	127	120	112	98	30	50	35	46.9	1069
30	4.60	4.12	3.40	30	1270	890	1190	580	30 / 40	174	156	148	122	40	50	35	46.9	1279
37	5.78	5.15	4.42	37	1270	890	1190	595	37 / 50	203	182	176	160	50	50	35	46.9	1312
38	5.97	5.57	4.60	37	1750	1080	1600	880	38 / 51	-	214	190	166	50	68.9	42.5	63	1940
45	8.07	7.04	5.50	45	1750	1080	1600	1070	45 / 60	305	271	240	204	60	68.9	42.5	63	2359
55	9.37	8.60	7	55	1750	1080	1600	1170	55 / 75	376	338	296	254	75	68.9	42.5	63	2579
75	11.86	10.40	9.10	75	1750	1080	1600	1180	75 / 100	419	393	371	321	100	68.9	42.5	63	2601
76	12.90	11.45	10	75	2300	1400	1860	2000	76 / 101	492	467	404	356	100	90.6	55.1	73.2	4409
90	15.53	13.54	11.90	90	2300	1400	1860	2100	90 / 125	592	527	488	426	125	90.6	55.1	73.2	4630
110	18.24	16.06	14.25	110	2300	1400	1860	2200	110 / 150	695	651	573	517	150	90.6	55.1	73.2	4850
132	20.47	18.04	16	132	2600	1400	1860	2700	132 / 175	-	696	657	572	175	102.4	55.1	73.2	5952
133	21.79	19.33	16.87	132	2500	1400	2115	3500	133 / 176	830	738	694	626	175	98.4	55.1	83.3	7716
160	26.84	24.65	21.18	160	2500	1400	2115	3650	160 / 215	1022	959	846	763	215	98.4	55.1	83.3	8047
200	30.15	28.84	24.95	200	2500	1400	2115	3850	200 / 270	-	1077	1036	890	270	98.4	55.1	83.3	8488
201	31.32	27.97	23.88	200	3200	1680	2060	3900	201 / 271	1176	1047	985	848	271	126	66.1	81.1	8598
250	40.79	35.32	28.57	250	3200	1680	2060	4100	250 / 340	1549	1463	1253	1019	340	126	66.1	81.1	9039

- plants with standard air cooling / optional water cooling from BELT model 35 upwards (BELT 38 / 51)
- heat recovery systems available for all models
- intermediate pressures on request, grading 1 bar (14.5 psig) from BELT 38 (BELT 38 / 51) upwards

## 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 m<sup>3</sup>/min</li> <li>desiccant dryers 0.08 – 145 m<sup>3</sup>/min</li> <li>activated carbon adsorbers 0.08 – 145 m<sup>3</sup>/min</li> <li>filters, all particle sizes 0.5 – 225 m<sup>3</sup>/min</li> <li>complete condensate management up to 120 m<sup>3</sup>/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