

SCREW COMPRESSORS

Volumetric flow rate: 0.43 – 43.07 m³/min • 15 – 1520 acfm



BELT DRIVE



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 ³	1
Particles	< 0.01 µm	1
Water	PDP + 3°C/37 F	4



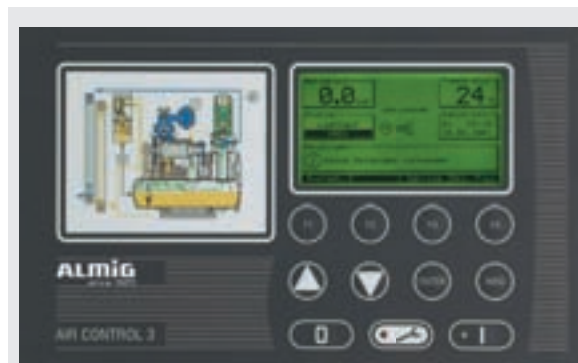


- Separating system** 1 top compressed air quality thanks to proven multi-stage separation
- Air Control** 2 the intelligence of the compressor; thinks, monitors, records (available in two versions)
- Drive system** 3 highly efficient, operationally reliable V-belt drive
- Air end** 4 high performance, 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!

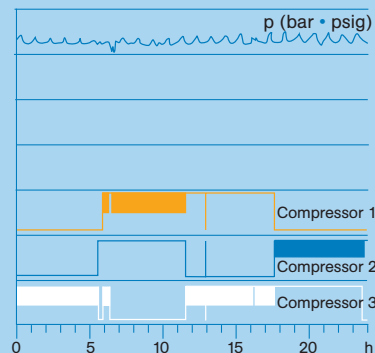
Only on the basis of facts can decisions be made.

Therefore:

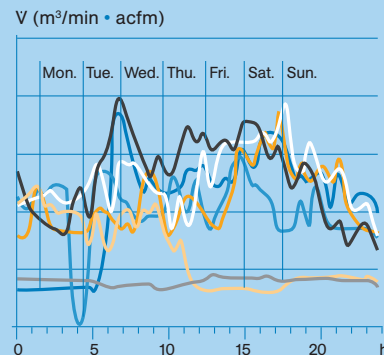
analyse first, then decide.

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.

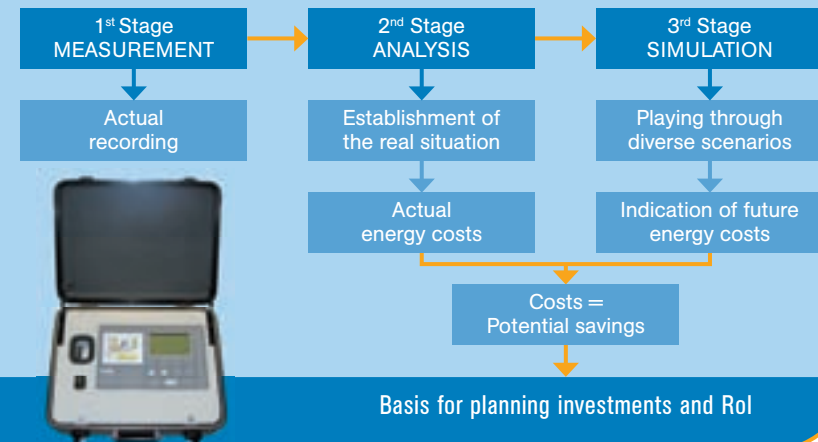
Operating conditions/Pressure - daily profile



Air flow - weekly profile



EBS Energy Balancing System



FACTS AND FIGURES

50 Hz								
BELT	Vol. flow rate according to ISO 1217 (annex C-1996)			Rated motor output	Length	Width	Height	Weight
	8 bars	10 bars	13 bars					
	m ³ /min	m ³ /min	m ³ /min	kW	mm	mm	mm	kg
4	0.65	0.54	0.43	4	1020	700	930	190
5	0.88	0.78	0.65	5.5	1020	700	930	190
7	1.20	1.07	0.87	7.5	1020	700	930	205
11	1.70	1.50	1.32	11	1020	700	930	220
15	2.24	1.98	1.63	15	1020	700	930	235
16	2.52	2.17	1.75	15	1270	890	1190	435
18	2.97	2.62	2.27	18.5	1270	890	1190	450
22	3.54	3.12	2.67	22	1270	890	1190	485
30	4.60	4.12	3.40	30	1270	890	1190	580
37	5.78	5.15	4.42	37	1270	890	1190	595
38	5.97	5.57	4.60	37	1753	1080	1600	880
45	8.07	7.04	5.50	45	1753	1080	1600	1070
55	9.37	8.60	7	55	1753	1080	1600	1170
75	11.86	10.40	9.10	75	1753	1080	1600	1180
76	12.90	11.45	10	75	2300	1400	1860	1850
90	15.53	13.54	11.90	90	2300	1400	1860	2180
110	18.24	16.06	14.25	110	2300	1400	1860	2400
132	20.47	18.04	16	132	2350	1400	1860	3050
133	21.79	19.33	16.87	132	2500	1400	2115	3500
160	26.84	24.65	21.18	160	2500	1400	2115	3650
200	30.15	28.84	24.95	200	2500	1400	2115	3850
201	31.32	27.97	23.88	200	3200	1680	2060	3900
250	40.79	35.32	28.57	250	3200	1680	2060	4100

60 Hz										
BELT	Vol. flow rate according to ISO 1217 (annex C-1996)				Rated motor output	Length	Width	Height	Weight	
	100 psig	125 psig	150 psig	190 psig						
	acfm	acfm	acfm	acfm	HP	inch	inch	inch	lbs	
4 / 5	25	23	20	-	5.5	40.2	276	36.6	419	
5 / 7	31	30	27	23	7.5	40.2	276	36.6	419	
7 / 10	45	42	37	30	10	40.2	276	36.6	452	
11 / 15	64	60	53	46	15	40.2	276	36.6	485	
15 / 20	87	78	72	61	20	40.2	276	36.6	518	
16 / 21	97	91	83	63	20	50	35	46.9	959	
18 / 25	113	101	94	78	25	50	35	46.9	992	
22 / 30	127	120	112	98	30	50	35	46.9	1069	
30 / 40	174	156	148	122	40	50	35	46.9	1278	
37 / 50	207	185	176	160	50	50	35	46.9	1311	
38 / 51	240	214	190	166	50	68.9	42.5	63	1940	
45 / 60	305	271	240	207	60	68.9	42.5	63	2358	
55 / 75	376	338	296	254	75	68.9	42.5	63	2579	
75 / 100	419	393	369	321	100	68.9	42.5	63	2601	
76 / 101	492	467	404	356	100	90.6	55.1	73.2	4070	
90 / 125	592	527	488	426	125	90.6	55.1	73.2	4796	
110 / 150	695	651	590	517	150	90.6	55.1	73.2	5280	
132 / 175	-	696	657	572	175	92.5	55.1	73.2	6710	
133 / 176	830	738	694	640	175	98.4	55.1	83.3	7716	
160 / 215	996	940	846	727	215	98.4	55.1	83.3	8046	
200 / 270	-	1056	1013	886	270	98.4	55.1	83.3	8487	
201 / 271	1156	1024	983	848	271	126	66.1	81.1	8598	
250 / 340	1516	1440	1247	1008	340	126	66.1	81.1	9038	

- 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"> constant speed 2.2 – 500 kW/5 – 13 bars variable speed-controlled and direct drive 2.2 – 355 kW/5 – 13 bars oil-free, with water injection 1.5 – 85 kW/5 – 13 bars 	<ul style="list-style-type: none"> oil-free, up to 10 bars 1.1 – 4 kW for normal pressure up to 10 bars 1.5 – 15 kW for medium pressure up to 15 bars 1.5 – 15 kW for high pressure up to 40 bars 2.2 – 45 kW as a booster for an input pressure up to 15 bars and an output pressure up to 40 bars 2.2 – 30 kW 	<ul style="list-style-type: none"> for oil-free compressed air 65 – 1000 kW two-stage up to 9 bars three-stage up to 10 bars 	<ul style="list-style-type: none"> at constant speed 1.5 – 55 kW 300 – 1000 mbars with speed control and direct drive 3 – 55 kW 300 – 1000 mbars 	<ul style="list-style-type: none"> refrigerant 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 	<ul style="list-style-type: none"> base load changeover controls consumption-related controls visualisation (we bring your compressed air to the PC) tele-monitoring (the hotline of your compressed air station)



Your expert advisor