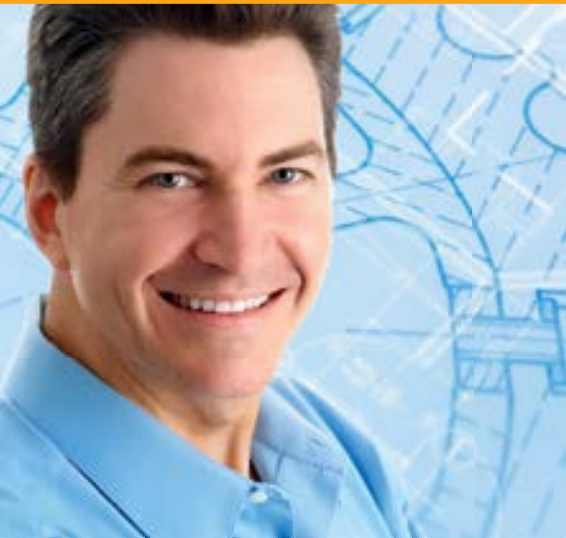


COMPRESSED AIR TREATMENT DRYING · FILTRATION · CONDENSATE MANAGEMENT



CLEAN
COMPRESSED AIR

CLEAN COMPRESSED AIR FOR THE MOST DEMANDING REQUIREMENTS



ALMiG Kompressoren GmbH

No industrial or trade company can do without compressed air. It is used in such a wide variety of applications that it would be pointless to try to list them all.

To ensure the optimum utilisation of compressed air, it should be dry, clean and, in some cases, oil-free.

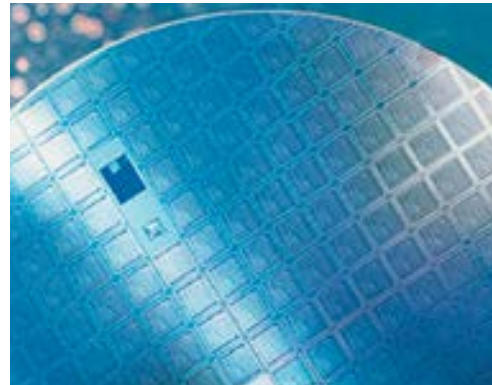
Compressed air treatment is therefore indispensable. However, if treatment is neglected or not

adapted to the individual requirement profile, this has an adverse effect on the entire compressed air system. This can lead to unnecessary production downtimes and shortens the service life of compressed air consumers.

Reason enough to ensure the correctly adjusted quality of compressed air for each individual application.

Why compressed air treatment

- prevents corrosion, wear and damage in the mains
- improves the economic efficiency of the compressed air system
- prolongs the service life of compressed air consumers
- reduces production costs significantly
- raises the quality of your products
- increases productivity



CYCLONE SEPARATOR · AS



Type AS	Volumetric flow rate ¹ m ³ /h	Connection	Height standard mm	Height premium mm	Width mm	Weight standard kg	Weight premium kg
30	30	3/8"	220	327	90	0.6	1.4
60	60	1/2"	220	327	90	0.6	1.4
180	180	3/4"	280	387	90	0.7	1.5
300	300	1"	305	417	120	1.1	1.9
570	570	1 1/2"	385	497	120	1.3	2.1
990	990	2"	500	612	165	3.6	4.4
1320	1320	2 1/2"	500	612	165	4.7	5.5
2700	2700	3"	710	825	200	6.2	7
2400	2400	DN 100	855	855	410	41	41
3000	3000	DN 125	865	865	450	55	55
6600	6600	DN 150	890	890	520	81	81
7500	7500	DN 175	940	940	600	117	117
12000	12000	DN 200	1025	1025	650	157	157

¹ 7 bars overpressure (Δp), based on the intake state of the compressor (1 bar, 20°C) | Operating overpressure max.: 16 bars (AS 30 – 2700) · 12 bars (AS 2400 – 12000)

Cyclone separators remove liquid water from compressed air.

Cyclone separators have been developed for treating compressed air in industrial applications. Thanks to an optimised design, the three-part housing with swirl insert offers low pressure differentials at high flow rates.

Due to the conical shape of the filter housing base, entrainment of separated aerosols can be ruled out. The turbulence-free zone in the lower section of the filter housing prevents condensate from the wet area, which has already been separated, from being carried away with the air flow.

Optionally, cyclone separators with electronic condensate drains are also available in the Premium version

Equipment features:

- standard version with float-type condensate drain
- premium version includes electronically controlled condensate drain to drain off condensate without any loss of compressed air

HIGH PERFORMANCE FILTERS

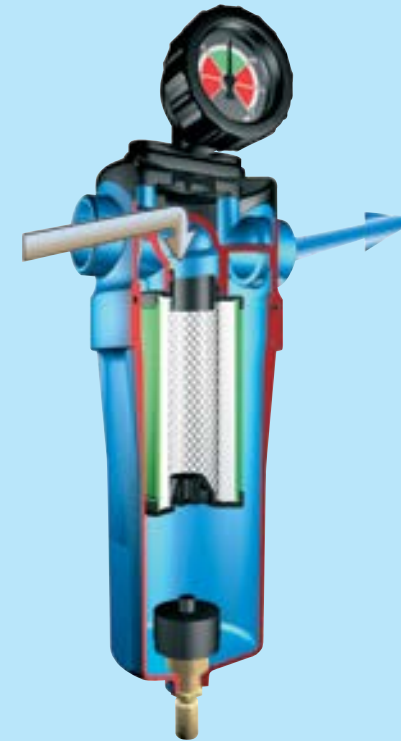
The optimum filter for any requirement profile:

Type of filter	Type	Particle size μm	Residual oil content ¹	Residual water content ² (in liquid form) mg/m^3
Pre-filter	AFP	5	–	available
Micro-filter	AFM	1	0.1	not available ³
Submicro-filter	AFS	0.01	0.01	not available ³
Act. carbon filter	AFC		0.003	not available ³

¹ with an inlet concentration of $3 \text{ mg}/\text{m}^3$

² details refer to a station without upstream compressed air dryer

³ the compressed air no longer contains residual water in liquid form; if the temperature is not reduced downstream from the filter elements (air is 100% saturated)



Compressed air filters ensure the provision of clean air for the most demanding requirements.

Compressed air filters can be used in a variety of applications. They are deployed wherever compressed air must be clean, dry and free from oil aerosols.

This is an exacting requirement profile considering that 1 m^3 of compressed air at a final compression pressure of 10 bars can contain more than 2 billion particles and liquid molecules.

The ALMiG high performance filters are optimal to meet these requirements.

Equipment features:

- standard version, including
 - pressure differential indicator
 - float-type drain trap
- premium version, including
 - pressure differential manometer to indicate the most economically efficient time for changing the filter element
 - electronically controlled condensate drain to remove the condensate without any pressure loss
- three-section housing with bayonet joints for simple replacement and installation of filter elements
- extremely light aluminium housing with threaded connection volumetric flow rates ranging from 30 to $2640 \text{ m}^3/\text{h}$
- alternatively, for volumetric flow rates ranging between 2700 and $10.800 \text{ m}^3/\text{h}$, a steel housing with flanged connection

AFP, AFM, AFS, AFC

Filters with threaded connections

Filter type AFP, AFM, AFS, AFC	Volumetric flow rate		Connec- tion	Standard version ¹			Premium version ²		
	nom.	max.		Width	Height	Weight	Width	Height	Weight
	m ³ /h	m ³ /h		mm	mm	kg	mm	mm	kg
30	30	37	3/8"	90	233	0.7	90	392	1.5
60	60	75	1/2"	90	233	0.7	90	392	1.5
108	108	135	3/4"	90	293	0.8	90	452	1.6
180	180	225	3/4"	90	293	0.8	90	452	1.6
204	204	255	1"	120	328	1.2	120	487	2
300	300	375	1"	120	328	1.3	120	487	2.1
432	432	540	1 1/2"	120	408	1.4	120	567	2.3
570	570	710	1 1/2"	120	408	1.5	120	567	2.4
750	750	935	2"	165	523	3.8	165	682	4.6
990	990	1235	2"	165	523	3.9	165	682	4.8
1140	1140	1425	2 1/2"	165	698	4.9	165	857	5.7
1320	1320	1650	2 1/2"	165	698	5	165	857	5.8
1680	1680	2100	3"	200	735	6.8	200	894	7.6
2100	2100	2625	3"	200	888	8	200	1047	8.8
2640	2640	3300	3"	200	1008	8.9	200	1167	9.7

all details based on 1 bar (abs), +20°C, 70% r. h.

¹ aluminium housing with threaded connection, including float-type drain trap and pressure differential indicator

² aluminium housing with threaded connection, including electronically controlled condensate drain and differential pressure gauge

Operating pressure: 16 bars

Operating temp.: min. +1°C, max. +65°C

Filters with flanged connections

Filter type AFP, AFM, AFS, AFC	Volumetric flow rate		Connec- tion	Standard version ¹			Premium version ²		
	nom.	max.		Width	Height	Weight	Width	Height	Weight
	m ³ /h	m ³ /h		mm	mm	kg	mm	mm	kg
2760	2760	3450	DN 100	485	1126	116	485	1126	116
4200	4200	5250	DN 125	630	1137	184	630	1137	184
5700	5700	7125	DN 150	630	1227	197	630	1227	197
7500	7500	9375	DN 150	676	1261	250	676	1261	250
9300	9300	11625	DN 175	712	1316	300	712	1316	300
11000	11000	13750	DN 200	712	1316	300	712	1316	300

all details based on 1 bar (abs), +20°C, 70% r. F.

¹ steel housing with flanged connection, including float drain and pressure differential indicator

² steel housing with flanged connection, including electronically controlled condensate drain and pressure differential gauge

Operating pressure: 12 bars

Operating temp.: min. +1°C, max. +60°C

Operating overpressure Δp (bars)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Corrective factor f_{pu}	0.25	0.36	0.5	0.6	0.7	0.9	1	1.1	1.2	1.4	1.5	1.6	1.75	1.9	2	2.1

Conversion factors to other operating overpressures

The specified volumetric flow rates refer to a pressure of 7 bars. Volumetric flow rates at different pressures can be calculated using these corrective factors.

Designed flow rating

The volumetric flow rates through the filter element should be between 50 and 100% of the **nominal** volumetric flow rate. With higher or lower volumetric flow rates, the filtration efficiency deteriorates. The **maximum** volumetric flow rate must not be exceeded.

COMPRESSED AIR REFRIGERANT DRYERS · ADD



ADD 50
for wall mounting



ADD 310
as a stand-alone-version

Optional versions

Type ADD	Volumetric flow rates m ³ /h	Cooling air requirement m ³ /h	Com-pressed air connection	Power consumption kW	Dimensions			Screw compressor for PLUS version		
					Width mm	Height mm	Depth mm	BELT	DIRECT	VARIABLE
23	23	300	1/2"	0.18	232	610	692	-		
50	50	300	3/4"	0.20	232	610	692	4/5		
69	69	540	3/4"	0.29	232	610	692	7		
96	96	540	3/4"	0.47	232	610	692	11		
140	140	720	1"	0.61	232	610	692	15		
150	150	720	1"	0.61	330	797	790	16	11/15	
204	204	800	1"	0.86	330	797	790	18/22	16/18/22	16/20/24
310	310	2300	1 1/2"	1.04	330	797	790	30/37		28/32/34

Pressure dew point +3°C based on an ambient temperature of +25°C and compressed air inlet temperature of +35°C at 7 bars
Refrigerant: R 134 a

„PLUS“ version
with "docked-on" compressed air refrigerant dryer,
which can also be retrofitted for the following series:
BELT 4 – 37, DIRECT 16 – 22 and VARIABLE 16 – 34

Betriebsüberdruck p _ü (bar)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Korrekturfaktor f _{pü}	0.6	0.7	0.78	0.86	0.94	1	1.06	1.11	1.15	1.19	1.22	1.24	1.25	1.26	1.26
Umgebungstemp. T _u (°C)						25	30	35	40						
Korrekturfaktor f _{Tu}						1	0.97	0.93	0.88						

Refrigerant dryers – which can be fitted into any space.

Refrigerant dryers of the ADD series can be used flexibly and for a wide variety of applications

- as stand-alone units
- as wall-mounted units

- or as "dock-on dryer kits" (compressor plus refrigerant dryer)

These refrigerant dryers reduce production costs and increase productivity. An efficient, three-stage heat exchanger system ensures the reliable operation of the dryer up to an inlet temperature of +55°C.

Conversion factors:

In accordance with DIN ISO 7183 refrigerant dryers are designed for an operating overpressure of 7 bars, an ambient temperature of 25°C and an inlet temperature of 35°C. In the case of other operating overpressures and temperatures the above conversion factors apply.

ALM / ALM-E

Correction factors for cold dryers ALM 25 - 110

Operating overpress. Δp (bars)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Corrective factor f_{pu}	0.7	0.8	0.87	0.92	0.96	1	1.03	1.05	1.07	1.08	1.1	1.11	1.12	1.13	1.14

No correction factors needed for ambient temperatures of up to +49°C.



Inlet temperature (°C)	25	30	35	40	45	50	55
Corrective factor f_{pu}	1.6	1.24	1	0.82	0.69	0.59	0.5

Correction factors for cold dryers ALM 150 - 5300/ALM 1320 - 5300E



Inlet temperature (°C)	25	30	35	40	45	50
Inlet pressure P_e (bar)						
3	1.42	1.00	0.79	0.63	0.51	0.43
4	1.50	1.08	0.87	0.72	0.60	0.52
5	1.57	1.13	0.92	0.77	0.65	0.56
6	1.63	1.18	0.96	0.81	0.68	0.60
7	1.67	1.22	1.00	0.84	0.71	0.63
8	1.72	1.25	1.03	0.87	0.74	0.65
9	1.76	1.29	1.07	0.91	0.78	0.67
10	1.81	1.33	1.10	0.93	0.80	0.70
11	1.84	1.36	1.13	0.96	0.82	0.73
12	1.87	1.38	1.16	0.98	0.84	0.75
13	1.90	1.41	1.18	1.00	0.86	0.77
14	1.93	1.44	1.21	1.02	0.88	0.80

Ambient temperature T_a (°C)	25	30	35	40	45
Corrective factor f_{pu}	1	0.94	0.89	0.83	0.78

Type ALM	Volumetric flow rate in compliance with ISO	Cooling air requirement	Compressed air connection	Power consumption ALM/ALM-E	Dimensions			
					Width	Height	Depth	Weight ALM/ALM-E
	m³/h	m³/h		kW	mm	mm	mm	kg
25	20	-	3/8"	0.24	383	390	320	15
35	30	-	3/8"	0.24	350	390	320	19
65	60	-	3/4"	0.34	368	575	419	29
85	80	-	3/4"	0.42	368	575	419	29
110	100	-	3/4"	0.58	500	570	523	41
150	140	1020	1"	0.58	393	601	891	50
180	160	1020	1"	0.6	393	601	891	53
260	240	1020	1"	0.87	393	601	951	58
350	315	1980	2"	1.1	483	761	1011	72
400	360	1980	2"	1.3	483	761	1011	78
500	470	2640	2"	1.48	483	761	1011	86
640	580	2640	2"	1.9	533	811	1191	100
740	680	4500	2"	2.45	533	811	1191	112
900	820	4500	2"	2.55	533	811	1291	134
1100	1000	4500	2"	2.7	533	811	1291	155
1320	1200	3500	2 1/2"	2.55/0.8-2.1	1129	1510	857	314/330
1530	1400	4400	2 1/2"	2.95/0.8-2.7	1129	1510	857	327/345
1850	1700	4500	3"	5.7/1.5-4.3	1110	1510	857	354/370
2150	2000	5000	3"	5.8/1.5-5.2	1110	1510	857	384/400
2400	2200	6500	DN100	5.5/2.0-5.3	1243	2116	1386	690/715
2650	2500	9900	DN100	7/2.0-6.7	1243	2116	1386	690/715
3550	3200	9900	DN150	8.7/3.1-8.6	1400	2112	1584	880/910
4000	3650	10800	DN150	9.2/3.1-9.2	1400	2112	1584	880/910
4900	4600	11400	DN150	10.8/3.9-10.5	1400	2112	1584	1050/1090
5300	5100	16200	DN150	13.4/3.9-13.4	1400	2112	1584	1200/1240

Also available as energy-saving refrigeration dryer

Pressure dew point +3°C based on an ambient temp. of +25°C and a compressed air inlet temp. of +35°C at 7 bars
Refrigerant: R 134 a, R 407 c, R 404 a

Refrigerant dryers – tried, tested and powerful

The powerful refrigerant dryers of the ALM series are highly efficient quality dryers that have proved their worth a thousand times over. They are convincing because of high efficiency and reliability at inlet temperatures up to +58°C and a pressure dew point of +3°C.

In addition, this series is characterised by particularly large heat exchanger surface areas that guarantee a constant pressure dew point and a high degree of water separation even under extreme operating conditions.

Energy-saving refrigeration dryer ALM-E

The integrated speed control adapts the energy requirement of the ALM-E series to the compressed air volume in the refrigeration dryer.

This delivers a potential energy saving of up to 50% with a stable pressure dew point.

ADSORPTION DRYER – HEATLESS REGENERATIV · ALM-CCD/ALM-CD



ALM-CCD	Operating overpressure Δp (bars)	4	5	6	7	8	9	10							
	Corrective factor f_p	0.39	0.56	0.77	1	1.13	1.25	1.38							
	Inlet temperature T (°C)	10	20	30	35	40	45	50							
	Corrective factor f_T	1	1	1	1	0.98	0.94	0.88							
ALM-CD	Operating overpressure Δp (bars)	4	5	6	7	8	9	10	11	12	13	14	15	16	
	Corrective factor f_p	0.78	0.86	0.93	1	1.06	1.12	1.18	1.23	1.28	1.33	1.38	1.43	1.47	
	Inlet temperature T (°C)	10	20	30	35	40	45	50							
	Corrective factor f_T	1.33	1.17	1.05	1	0.96	0.92	0.89							

ALM-CCD/CD heatless regenerativ adsorption dryer

Key data:

- Pressure dew point:
ALM-CCD: -40°C , -70°C
ALM-CD: -20°C , -40°C , -70°C
- Volume flows: 9 – 9400 m³/h
- Operating pressure: 3 – 16 bar (overpressure)
- Ambient temperature: 5 – 50°C

The ALM-CCD/CD are used wherever compressed air is being dried to a pressure dew point of -20°C , -40°C or -70°C . The series offer compact design and simple operation.

Type	Nominal throughput rate inlet ¹	Reg. air flow on average -40°C	Dimensions				Connection
			Width	Height	Depth	Weight	
ALM-CCD	m ³ /h	m ³ /h	mm	mm	mm	kg	
10	9	1.8	516	775	157	29	R3/8"
20	17	3.4	516	775	157	37	R3/8"
30	25	5	516	775	157	51	R3/8"
40	35	7	669	775	208	69	R3/8"
50	45	9	669	755	208	71	R1/2"
ALM-CD							
110	100	15	750	1950	750	180	R3/4"
170	160	24	750	1950	750	220	R3/4"
320	300	45	1150	1980	750	400	R1"
430	400	60	1150	1980	750	430	R1 1/2"
650	600	90	1150	1990	750	540	R1 1/2"
800	750	113	1150	1990	750	645	R2"
1000	950	143	1150	2000	750	815	R2"
1200	1150	173	1500	1930	1300	1020	DN80
1600	1450	218	1500	1950	1400	1275	DN80
1900	1750	263	1500	2070	1450	1430	DN80
2300	2100	315	1500	2090	1500	1650	DN80
2600	2450	368	1500	2190	1700	2000	DN80
3000	2800	420	1700	2220	1750	2300	DN80
4000	3700	555	1950	2300	1900	3230	DN100
6200	5800	870	2400	2500	2040	4500	DN100
8000	7500	1125	2690	2610	2300	5750	DN150
10000	9400	1410	2820	2510	2560	6800	DN150

¹ Refers to intake status of 1 bar (abs) and 20°C , 7 bar (overpressure) and 35°C inlet temperature.
Pressure dew point: ALM-CCD -40°C at 100%, -70°C at approx. 85% nominal load;
ALM-CD -20°C , -40°C , -70°C at 100% nominal load
Operating overpressure: ALM-CCD 3 – 10 bar; ALM-CD 4 – 10 bar, 16 bar version on request

Advantages:

- Low maintenance costs
- Simple installation/operation
- Compact and space-saving
- Constant pressure dew point
- Guaranteed reliability

Design:

$V_{\text{nom}} = 2000 \text{ m}^3/\text{h}$
Inlet temperature = 30°C
Operating overpressure = 10 bars
 $V_{\text{corr}} = \frac{V_{\text{nom}}}{f_p \cdot f_T}$
 $V_{\text{corr}} = \frac{2000 \text{ m}^3/\text{h}}{1.18 \cdot 1.05} = 1615 \text{ m}^3/\text{h}$
Calculated dryer size:
ALM-CCD 1900

ADSORPTION DRYER - HEAT REGENERATIV · ALM-WD



Type ALM-WD	Nominal volumetric flow rate inlet ¹	Dimensions				Connection
		Width	Height	Depth	Weight	
	m ³ /h	mm	mm	mm	kg	
280	245	760	2170	450	290	R1"
450	400	1000	2280	500	435	R1 1/2"
730	653	1050	2620	550	670	R1 1/2"
880	785	1200	2750	600	740	R2"
1200	1026	1250	2750	650	760	R2"
1500	1282	1400	3050	700	1450	DN80
2200	1916	1550	3050	800	1670	DN80
2500	2250	1650	3050	900	1900	DN80
3000	2670	1850	3175	950	2300	DN100
4000	3590	1950	3175	1050	3000	DN100
4800	4280	2000	3175	1100	3300	DN100

¹ Refers to intake status of 1 bar (abs) and 20°C, 7 bar (overpressure) and 35°C inlet temperature.

Pressure dew point: -40°C at 100% nominal load, regeneration air requirement: ~2.5% of nominal volume flow

Operating overpressure: 4 – 10 bar, 16 bar version on request

Operating overpressure Δp (bars)	4	5	6	7	8	9	10	11	12	13	14	15	16
Corrective factor f_p	0.63	0.75	0.88	1	1.12	1.15	1.37	on request					
Inlet temperature°C	10	20	30	35	40	45	50						
Corrective factor f_T	1.00	1.00	1.00	1.00	0.60	0.38	0.25						

ALM-WD heat-regenerative adsorption dryer

Key data:

- Pressure dew point: -40°C at 100% nominal load
- Volume flows: 245 – 4280 m³/h
- Operating pressure: 4 – 16 bar (overpressure)

- Ambient temperature: 5 – 50°C

At higher ratings in particular, heat-regenerative adsorption dryers are more efficient and most notably more cost effective to run than cold-regenerative ones.

Advantages:

- Ideal positioning of heating elements in drying bed
- Optimum use of regenerative energy
- Low maintenance costs
- Simple installation/operation
- Constant pressure dew point:

Design:

$$V_{\text{nom}} = 2000 \text{ m}^3/\text{h}$$

$$\text{Inlet temperature} = 30^\circ\text{C}$$

$$\text{Operating overpressure} = 10 \text{ bars}$$

$$V_{\text{corr}} = \frac{V_{\text{nom}}}{f_p \cdot f_T}$$

$$V_{\text{corr}} = \frac{2000 \text{ m}^3/\text{h}}{1.37 \cdot 1} = 1460 \text{ m}^3/\text{h}$$

Calculated dryer size:

ALM-WD 2200

ACTIVE CARBON ADSORBER · ALM-AC



Typ ALM-AC	Nominal volumetric flow rate inlet ¹ m ³ /h	Dimensions				Connection
		Width mm	Height mm	Depth mm	Weight kg	
75	70	350	1950	750	90	R1/2"
120	110	350	1950	750	110	R3/4"
170	160	350	1970	750	130	R3/4"
220	200	350	1980	750	160	R1"
320	300	550	1980	750	170	R1"
480	450	550	1990	750	215	R1 1/2"
690	650	550	1990	750	260	R1 1/2"
850	800	550	2000	750	330	R2"
1100	1000	899	2210	800	305	DN80
1300	1250	899	2500	800	340	DN80
1700	1600	1019	2380	960	325	DN80
2000	1900	1012	2380	1010	450	DN80
2400	2250	1077	2795	1010	480	DN100
2900	2700	1202	2830	1010	500	DN100
3800	3600	1202	2830	1010	520	DN100
5500	5150	1505	2830	1540	690	DN100
7500	7100	1565	2950	1540	960	DN150
9900	9300	1780	3265	1580	1150	DN150

¹ Refers to intake status of 1 bar (abs) and 20°C, 7 bar (overpressure) and 35°C inlet temperature up to size 850 operating overpressure 5 – 16 bar
As of size 1100 operating overpressure 5 – 10 bar, 16 bar version on request

Operating overpressure Δp (bars)	5	6	7	8	9	10	11	12	13	14	15	16
Corrective factor f_p	0.75	0.88	1	1.06	1.12	1.17	1.22	1.27	1.32	1.37	1.41	1.46
Inlet temperature (°C)	25	30	35	40	45	50	55	60				
Corrective factor f_T	3.1	1.7	1	0.57	0.33	0.19	0.11	0.061				

ALM-AC active carbon adsorber

Key data:

- Residual oil content: $\leq 0.003 \text{ mg/m}^3$
- Volume flows: 70 – 9300 m³/h
- Operating pressure: 5 – 16 bar (overpressure)
- Ambient temperature: 2 – 45°C

The ALM-AC active carbon adsorber supplies absolutely oil-free, taste- and odour-neutral compressed air and guarantees:

- Freedom from oil with a residual oil content $\leq 0.003 \text{ mg/m}^3$ through high adsorption of oil vapour. Inlet requirements: DTP +3°C

- Active carbon life of around 10000 operating hours
- Complete operational reliability
- Maximum performance, safety and quality
- Constant efficiency

Design:

$$V_{\text{nom}} = 200 \text{ m}^3/\text{h}$$

$$\text{Inlet temperature} = 30^\circ\text{C}$$

$$\text{Operating overpressure} = 10 \text{ bars}$$

$$V_{\text{kor}} = \frac{V_{\text{nom}}}{f_p \cdot f_T}$$

$$V_{\text{kor}} = \frac{200 \text{ m}^3/\text{h}}{1.7 \cdot 1.17} = 100.5 \text{ m}^3/\text{h}$$

Calculated dryer size:

ALM-AC 120

CONDENSATE MANAGEMENT · ALM-D / ALM-WS

Typ ALM-D	Volumetric flow rates			Pressure range	Dimensions				Conne- ction
	Compressor	Dryer	Filter		Width	Height	Depth	Weight	
	m ³ /min	m ³ /min	m ³ /min	bar	mm	mm	mm	kg	
180 U	2.5	5	25	1.2–16	164	118	65	0.8	1/2"
360 U	5	10	50	1.2–16	179	130	74	1	1/2"
720 U	10	20	100	0.8–16	198	157	74	1.65	1/2"
2100*	30	60	300	0.8–16	212	162	93	2	1/2"
9000*	130	260	1300	0.8–16	252	180	120	2.9	3/4"

Performance data referred to temperate climate.
Initial condition: 1 bar (abs); +20°C; 70% rel. humidity
7 bars; +35°C; 100% rel. humidity

Temperature range:
Standard: +1°C to +60°C
*optional heating: -25°C to +60°C



Typ ALM-WS	Piston compressors max. volumetric flow rate		Screw compressors max. volumetric flow rate		Dimensions			
	Turbine and synthetic oil	VDL oil	Turbine and VCL oil	Synthetic VCL oil	Width	Height	Depth	Weight
	m ³ /min	m ³ /min	m ³ /min	m ³ /min	mm	mm	mm	kg
120	1.4	1.7	2.4	1.9	290	528	222	3.5
240*	2.8	3.4	4.9	3.8	387	595	254	5.75
360*	4.2	5.1	7.3	5.6	350	719	397	12
660*	8.4	10.1	14.6	11.3	410	892	461	16
1350*	16.9	20.3	29.3	22.5	520	1118	573	32
2700*	33.8	40.5	58.5	45	650	1193	702	42

Temperature range:
Standard: +5°C to +60°C
*optional heating: -5°C to +60°C



ALM-D condensate drain

The ALM-D are level-regulated, electronically controlled condensate drains which are used wherever effective, reliable and cost-effective condensate discharge is needed.

Advantages:

- No loss of pressure
- Drainage according to volumes produced
- No need to adapt to condensate type
- Generous internal drainage cross-sections
 - not sensitive to dirt or condensate containing particles
 - condensate does not tend to emulsify
- CO version for aggressive condensates
- Fully automatic monitoring with LED display
- Zero-wear sensor technology
- Fitted with potential-free contact as standard
- Components of relevance to maintenance easy to access
- 24V or 230V voltage supply

ALM-WS

Oil/water separation systems for environmentally-friendly condensate treatment.

The ALM-WS prepare compressed air condensates with an average oil content of 5% which makes them too environmentally damaging to be discharged in waste water without treatment. Their purpose is to obtain limit values that are in conformity with permissible discharge values.

Advantages:

- Operator- and service-friendly
- Simple, rapid filter change
- Waste water test kit included in scope of supply
- Reduced disposal costs
- Level indicator to monitor filter throughput
- Heating can be easily retrofitted at any time
- General building authority approval

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 3-500 kW	Piston compressors 1.5-55 kW	Turbo compressors 200-2.000 kW	Blower 1.5-55 kW	Complete accessories	Control, regulate, monitor
<ul style="list-style-type: none"> • Fixed speed • With energy-saving speed control • Oil-free, with water injection • Oil-free, 2-stage <p>Available drive types:</p> <ul style="list-style-type: none"> • V-belt • Gearbox • Direct 	<ul style="list-style-type: none"> • Oil-lubricated • Oil-free • Normal pressure, medium pressure, high pressure • Booster • Mobile/stationary <p>Available drive types:</p> <ul style="list-style-type: none"> • V-belt • Direct 	<ul style="list-style-type: none"> • Oil-free • Radial, 3-stage compression • With/without sound-absorbing housing <p>Available drive types:</p> <ul style="list-style-type: none"> • Gearbox 	<ul style="list-style-type: none"> • Fixed speed • With energy-saving speed control <p>Available drive types:</p> <ul style="list-style-type: none"> • V-belt • Direct 	<ul style="list-style-type: none"> • Refrigerant dryers • Desiccant dryers, heatless and heat-regenerative • HOC (heat of compression) • Activated carbon adsorbers • Filters, all particle sizes • Condensate management • Heat recovery systems • Pipework systems <p>All components are optimally matched to the compressors.</p>	<ul style="list-style-type: none"> • Base load changeover controls • Consumption-related controls • Visualisation (we display your compressed airstation on the PC) • Telemonitoring (the hotline of your compressed air station)

Our quality standards mean you can rely on our machines



ISO 9001



ISO 14001



IRIS



Partner of the Engineering Industry Sustainability Initiative



DNV



Your expert advisor

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