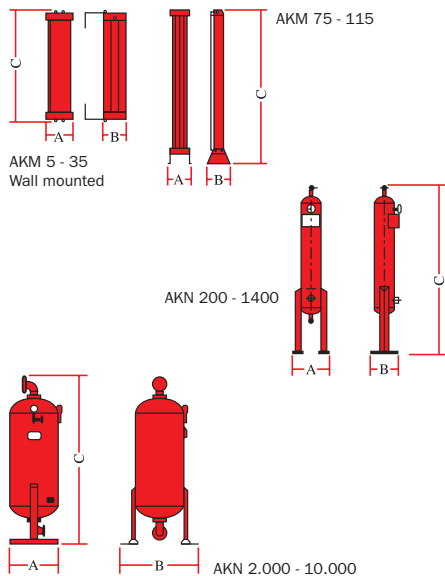


Technical Data



Type	Flow (m ³ /h)*	Dimensions			Connection inch (DN)	max. press. (bar)	Weight (kg)
		A mm	B mm	C mm			
AKM 5	7	107	170	240	G ¹ / ₄	16	2,9
AKM 10	14	107	170	420	G ¹ / ₄	16	4,4
AKM 25	21	107	170	610	G ¹ / ₄	16	6
AKM 35	35	107	170	960	G ¹ / ₄	16	9
AKM 75	51	240	340	1125	G ³ / ₈	16	23
AKM 95	68	240	340	1425	G ³ / ₈	16	28
AKM 115	85	240	340	1725	G ¹ / ₂	15	33
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AKN 200	130	255	280	1670	G 1	16	45
AKN 300	170	290	280	1690	G 1	16	54
AKN 400	230	330	340	1650	G 1	16	75
AKN 500	300	360	340	1670	G 1	16	92
AKN 600	365	385	420	1780	G 1 ¹ / ₂	16	103
AKN 800	520	445	420	1800	G 1 ¹ / ₂	16	134
AKN 1150	700	475	500	1910	G 1 ¹ / ₂	16	177
AKN 1400	850	525	500	1930	G 2	16	209
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AKN 2000	1150	500	840	2070	DN 50	10	235
AKN 2600	1500	500	900	2110	DN 65	10	275
AKN 3100	1950	650	990	2150	DN 65	10	340
AKN 3800	2350	660	1040	2210	DN 80	10	385
AKN 5000	3000	750	1100	2230	DN 80	10	440
AKN 6000	3800	850	1200	2340	DN 100	10	520
AKN 8000	4600	860	1250	2640	DN 100	10	650
AKN 10000	5600	960	1150	2815	DN 125	10	950

Paint compatible units available at extra cost

*m³/h referred to 1 bar and 20° C. Residual oil content: up to 0.003 mg/³

bar eff.	4	5	6	7	8	9	10	12	14	16
Factor P	0,62	0,75	0,89	1,00	1,08	1,26	1,36	1,62	1,79	2,14
Temp. °C	20	25	30	35	40	45	50			
Factor T	1,01	1,01	1,01	1,0	0,85	0,75	0,5			

Oil vapour adsorber:

Oil vapour adsorption from compressed air and gases. Oil aerosols down to a particle size of 0,01 micron can be removed by a ZANDER X grade Microfilter. Modern industry and process plants need compressed air free of oil vapour, which can only be removed effectively by a ZANDER oil vapour adsorber.

Design and Operation:

The ZANDER AKN activated carbon adsorber is filled with a special grade of activated carbon*¹ for the removal of oil vapour from the top to bottom of the vessel. Thanks to an optimum contact time, velocity, bed depth and quality of activated carbon, the remaining oil content is reduced to 0,003 mg/m³.

The quality of the air can be monitored by the oil indicator, which is fitted as standard.

Experience has shown that a carbon life of 10,000 hours can be achieved, when a ZANDER X grade Microfilter is fitted up-stream. The exact life of the carbon depends on efficiency of the compressor, the type of oil used and the relative humidity of the compressed air.

As the compressed air passes through the activated carbon bed, a certain amount of fine dust is created, which can be removed by a ZANDER Z grade filter.

Series AKM:

Standard equipment profile pipe vessel made of aluminium with integrated flow distributors and end plates, vessel filled with activated carbon, incl. pressure gauge (by AKM 75 - AKM 115) and oil indicator.

Wall bracket for AKM 5 to AKM 35
frame for floor installation for KM 75 to KM 115

Series AKN:

Compl. frame mounted.
Incl. pressure gauge and oil indicator.
Adsorber with integrated flow distributors and pressure vessel filled with activated carbon.

Beginning with AKN 200 - AKM 8000 vessels acc. to CE-standard. AKN 10000 TÜV

Caution:

When installing an AKN adsorber after a heat regenerated desiccant dryer, add the suffix W (e.g. AKN 800 W).

Applications:

ZANDER AKN activated carbon oil adsorbers are required in the following industries and applications.

- Food and beverage
- Pharmaceutical
- Chemical and petrochemical
- Surface treatment
- Powder coating
- Brewing
- Hospitals
- Electronics
- Breathing air

Sizing Examples:

Actual flow: 150 m³/h
min. pressure: 8 bar (ü)
Factor P from table: 1,08
Factor T from table: 0,85
max. inlet temperature: 40°C

$$\frac{\text{Actual Flow}}{\text{Factor P} + \text{T}} = \frac{150 \text{ m}^3/\text{h}}{1,08 \cdot 0,85} = 163,4 \text{ m}^3/\text{h}$$

Series KEA / KMA:

ecody + Adsorber AKN
The KEA incorporates tried and tested components, such as a ZANDER X grade Microfilter, KEN ecody adsorption dryer, AKN activated carbon adsorber and ZANDER Z grade Microfilter in one purification package.

This means that compressed air is clean, dry, oil and odour free. Simply pipe it in, make the electrical connection and you have super quality compressed air for modern manufacturing.



We reserve the right to change design and dimensions



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