

Activated Carbon Tower

AK SERIES

BENEFITS AND FEATURES

- Flow rate from 70 – 9300 m³/hour
- Residual oil content within the concentration range 0 - 0.01 mg/m³
- Max. working pressure 10 bar / 16 bar (16 bar up to AK800)
- Low pressure loss - generously designed inlet and outlet diameters ensure consistently low differential pressure.
- “Low Service” – AK towers have very long replacement intervals thanks to their generous dimensions and optimal flow dynamics.
- “Space-saving” design, mounted in protective and durable steel frame.



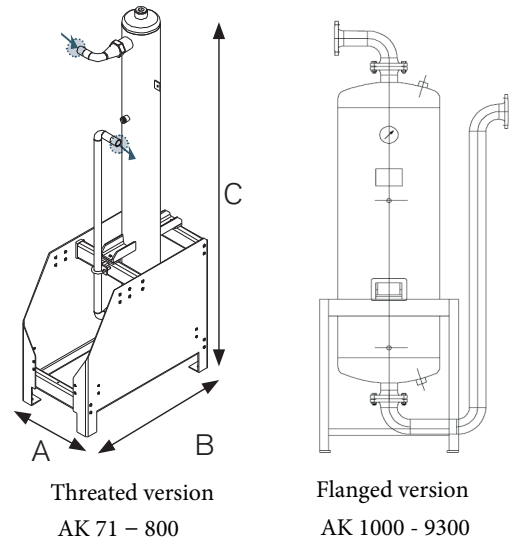
Technical Data	AK 71 – 9300
Filling	Activated Carbon
Hankison® Inlet- and outlet filter	○

General Data	
Medium	Compressed air
Vessel material	Steel construction
Colour	RAL 5015 (blue)
Location	Indoors
Mounting	freestanding

Design Data*		Min.	Nom.	Max.
Operating pressure	AK 71 – 800	4 bar (g)	7 bar (g)	16 bar (g)
	AK 1000 – 9300	4 bar (g)	7 bar (g)	10 bar (g)
Inlet temperature		+2 °C	+35 °C	+55 °C
Ambient temperature		+2 °C	+25 °C	+45 °C
Pre-filtration		HF		

* For other operating conditions choose the correct unit using the correction factors below. Hankison® compressed air dryers are best used with Hankison® Inlet- and outlet filters. Special certifications, e.g. ABS, DNV, LRS, GL, ASME, ASME U-Stamp, etc. on request

Model	Part-No.	Flow Rate	Connection	Dimensions (mm)		
Modell	Artikel-Nr.	Volumenstrom	Anschluss	Abmessungen (mm)		
		m ³ /h		A	B	C
AK 71	33006000	70	R 1/2"	350	750	1.950
AK 110	33011000	110	R 3/4"	350	750	1.950
AK 160	33016000	160	R 3/4"	350	750	1.970
AK 200	33021000	200	R 1"	350	750	1.980
AK 300	33026000	300	R 1"	550	750	1.980
AK 450	33031000	450	R 1 1/2"	550	750	1.990
AK 650	33036000	650	R 1 1/2"	550	750	1.990
AK 800	33041000	800	R 2"	550	750	2.000
AK 1000	33040000	1000	DN 80	899	800	2.210
AK 1250	33045000	1250	DN 80	899	800	2.500
AK 1600	33050000	1600	DN 80	1.019	960	2.380
AK 1900	33055000	1900	DN 80	1.012	1.010	2.380
AK 2250	33060000	2250	DN 100	1.077	1.010	2.795
AK 2700	33065000	2700	DN 100	1.202	1.110	2.830
AK 3600	33070000	3600	DN 100	1.202	1.110	2.830
AK 5150	33075000	5150	DN 100	1.502	1.540	2.830
AK 7100	33080000	7100	DN 150	1.565	1.540	2.949
AK 9300	33085000	9300	DN 150	1.779	1.580	3.263



Correction factors for different operating pressures in bar (g) (F ₁)/ Korrekturfaktor für abweichende Betriebsdrücke in bar (ü) (F ₁)													
bar (g) / bar (ü)	4	5	6	7	8	9	10	11	12	13	14	15	16
AK 71 – 800	0,625	0,75	0,88	1,00	1,06	1,12	1,17	1,22	1,27	1,32	1,37	1,41	1,46
AK 1000-9300	0,625	0,75	0,88	1,00	1,06	1,12	1,17	x	x	x	x	x	x

Correction factors for different inlet temperatures in °C (F ₂)/ Korrekturfaktor für abweichende Eintrittstemperaturen in °C (F ₂)								
°C	+25	+30	+35	+40	+45	+50	+55	+60
AK 71 – 9300	3,10	1,70	1,00	0,57	0,33	0,19	0,11	0,061

Factor/Faktor	Calculation/Berechnung
Compressor capacity/Kompressorleistung (V ₁)	$V_2 = \frac{V_1}{F_1 \cdot F_2}$
Operating pressure/Betriebsdruck (F ₁)	
Inlet temperature/Eintrittstemperatur (F ₂)	
Required dryer capacity/Erforderliche Trocknerleistung V ₂	



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