

Desiccant Dryers

HHL-AK SERIES

BENEFITS AND FEATURES

- HHL-AK: Desiccant Dryers with integrated Activated Carbon Tower
- AK: Activated Carbon Tower
- Economical regeneration process
- No additional installation costs
- Energy saving by load-dependent control
- Mechanically stable, low-dusting desiccant



Technical Data	HHL-AK 70-800	HHL-AK 1000-9300
Inlet / Outlet	Rear position	
Desiccant	Activated alumina / Activated carbon	
IP rating	IP 54	
Load-dependent control (Level 2)	●	
2 pre-filters and 1 after-filter	●	

General Data	HHL-AK 70-800	HHL-AK 1000-9300
Medium	Compressed air	
Drying system	Twin-tower adsorption plus activated carbon tower	
Regeneration system	Heatless	
Vessel material	Aluminium	
Vessel certifications	CE/Directive 97/23/CEE (DGR)	
Colour	RAL 5015 (blue)	
Location	Indoors	
Mounting	Freestanding	

Design Data*		Min.	Nom.	Max.
Operating pressure	HHL-AK 70-800	5 bar (g)	7 bar (g)	16 bar (g) (HHL-AK-800: 10 bar (g))
	HHL-AK 1000-9300	4 bar (g)	7 bar (g)	10 bar (g)
Inlet temperature		+2°C	+35°C	+50°C
Ambient temperature		+2°C	+25°C	+45°C
Pressure dew point		-40°C		
R.H. at inlet		100% saturated		

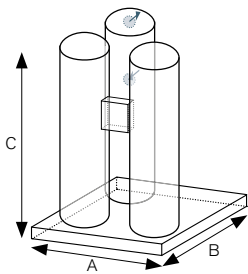
* The correction factors on the back need to be used to select the correct unit for other operating conditions.

Model	Flow Rate* m³/h	Connection	Dimensions			Weight kg	el. Connection V/Ph/Hz	Power Consumption kW	Pre-filter PF/HF	After-filter PF
			A	B	C					
			mm							
HHL-AK 70	70	1/2"	1,430	800	2,000	283	95-240/1/50-60	0.05	F04-B-PF/HF	F04-B-PF
HHL-AK 110	110	3/4"				346			F06-B-PF/HF	F06-B-PF
HHL-AK 160	160					573			F07-B-PF/HF	F07-B-PF
HHL-AK 200	200	1"	736	F08-B-PF/HF	F08-B-PF					
HHL-AK 300	300		741	F10-B-PF/HF	F10-B-PF					
HHL-AK 450	450	1 1/2"	1,830	706	F10-B-PF/HF	F10-B-PF				
HHL-AK 650	650		832	F12-B-PF/HF	F12-B-PF					
HHL-AK 800	800	2"	1,253	F14-B-PF/HF	F14-B-PF					

HHL-AK 1000	1,000	2 1/2"	on request	95-240/1/50-60	0.05	1,200	F14-B-PF/HF	F14-B-PF
HHL-AK 1350	1,350					1,470	F14-B-PF/HF	F14-B-PF
HHL-AK 1650	1,650	3"				1,770	F15-B-PF/HF	F15-B-PF
HHL-AK 1950	1,950					2,040	F16-B-PF/HF	F16-B-PF
HHL-AK 2350	2,350	DN 100				2,310	F17-B-PF/HF	F17-B-PF
HHL-AK 2700	2,700					2,620	HF7-60 / HF5-60	HF6-60
HHL-AK 3600	3,600					2,778	HF7-64 / HF5-64	HF6-64
HHL-AK 5150	5,150	DN 150				4,630	HF7-68 / HF5-68	HF6-68
HHL-AK 7100	7,100					5,400	HF7-72 / HF5-72	HF6-72
HHL-AK 9300	9,300					6,534	HF7-76 / HF5-76	HF6-76

* ISO 7183, based on the intake volume of the compressor at +20°C and 1 bar (a), operating pressure 7 bar (g), inlet temperature +35°C, ambient or cooling water temperature +25°C, pressure dew point -40°C / 100% RH.

Technical data and specification are subject to change without prior notice



HHL-AK 70 - 9300

Correction factors for operating pressure and inlet temperature (F₁)

HHL-AK 70 - 9300		Operating pressure bar (g)												
		4	5	6	7	8	9	10	11	12	13	14	15	16
Inlet temperature °C	+35	0.63	0.75	0.88	1.00	1.06	1.12	1.17	1.22	1.27	1.32	1.37	1.41	1.46
	+36	0.62	0.74	0.87	0.99	1.05	1.11	1.16	1.22	1.27	1.31	1.36	1.40	1.45
	+37	0.62	0.74	0.86	0.99	1.05	1.10	1.16	1.21	1.26	1.31	1.35	1.40	1.44
	+38	0.61	0.74	0.86	0.98	1.04	1.10	1.15	1.20	1.25	1.30	1.34	1.39	1.43
	+39	0.61	0.73	0.85	0.97	1.03	1.08	1.14	1.19	1.24	1.28	1.33	1.37	1.41
	+40	0.60	0.72	0.84	0.96	1.02	1.07	1.13	1.18	1.22	1.27	1.31	1.36	1.40
	+41	0.59	0.71	0.83	0.95	1.01	1.06	1.11	1.16	1.21	1.26	1.30	1.34	1.38
	+42	0.59	0.71	0.82	0.94	1.00	1.05	1.10	1.15	1.20	1.24	1.29	1.33	1.37
	+43	0.58	0.70	0.81	0.93	0.99	1.04	1.09	1.14	1.19	1.23	1.27	1.32	1.36
	+44	0.57	0.69	0.80	0.92	0.97	1.02	1.07	1.12	1.17	1.21	1.26	1.30	1.34
	+45	0.56	0.68	0.79	0.90	0.96	1.01	1.06	1.11	1.15	1.19	1.24	1.28	1.32
	+46	0.56	0.67	0.78	0.89	0.94	1.00	1.04	1.09	1.13	1.18	1.22	1.26	1.30
	+47	0.55	0.66	0.77	0.88	0.93	0.98	1.03	1.07	1.12	1.16	1.20	1.24	1.28
	+48	0.54	0.65	0.76	0.86	0.92	0.97	1.01	1.06	1.10	1.14	1.18	1.22	1.26
	+49	0.53	0.64	0.74	0.85	0.90	0.95	1.00	1.04	1.08	1.12	1.16	1.20	1.24
+50	0.52	0.62	0.73	0.83	0.88	0.93	0.97	1.02	1.06	1.10	1.14	1.17	1.21	

Selection example		Calculation	
Compressor capacity (V ₁)	720 m³/h	$V_2 = V_1 \cdot F_1 = 720 \cdot 1.07 = 770.4 \text{ m}^3/\text{h}$ Selection: HHL-AK 800	
Operating pressure (F ₁)	11 bar (g)		
Inlet temperature (F ₁)	47°C		
V ₂	Required dryer capacity		



SPX Flow Technology Moers GmbH | Konrad-Zuse-Straße 25 | D-47445 Moers

Tel.: +49 (0) 28 41 / 8 19-0 | Fax: +49 (0) 28 41 / 8 19 83 | E-Mail: csc@dehydration.spx.com

www.hankison-europe.com | www.spx.com

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