



Filtdryer®



STANDARD

Datasheet

@2021 v.1.0



› Description

KingAir® separators are designed exclusively to remove solid impurities, water, aerosols, hydrocarbons, odors from the compressed air system and non-aggressive technical gases such as argon, nitrogen and mixtures thereof. It must not be used for cleaning liquids and aggressive gases such as acetylene.

› Applications

Automotive, chemical and petrochemical industries, plastics, electronics, food and beverages, painting, etc.

› Installation:

Separators are designed to protect terminal equipment. Placing in front of equipment with compressed air consumption is best. The device can also be used to clean the entire backbone. Behind the condensation air dryer, it creates a set of full equipment to drain water, oil, solids and water vapor. It guarantees the efficiency of the device according to the parameters of the manufacturer of condensing dryers. **For safety reasons, the ball valve must always be installed under the separator, even if the device is equipped with an automatic trap. In case of installation without ball valve, the device is considered incomplete and must not be used.**

› Maintenance:

The device is maintenance-free. In the event of a problem, contact CMP Trade Service. Disposed condensate must be disposed of in accordance with the Waste Material Directive. The condensate must not be drained freely into the public sewer or the surrounding environment.

› Technical specification and a certification:

Pressure drop: max. 0.38 bar (at 7 bar (102 psi) reference and 20 ° C)

Water removal: 99.9999%

Filtration of impurities: 0.2 µm (90%); 1 µm (100%)

Working pressure: 1 to 16 bar

Operating temperature: 1 ° C to 55 ° C

Material: aluminum, stainless steel AISI 304 or AISI 316, ABS, inner material: ABS

Separation: water, impurities, oil, bacteria


Condensate drain: manual (ball valve)

ISO 12500-3 IUTA (particles):

2,0 µm 100%

1,0 µm 99%

0,2 µm 90%

Test parameter:									
Inlet pressure		7 bar (e) [8 bar (a)]							
Air flow		48 Nm³/h = 100 % nominal flow rate							
Flow direction		from inside to outside							
Test aerosol		DEHS							
Particle size range		(0.19 – 2.74) µm							
Aerosol Spectrometer		PCS 2100 (Palas GmbH)							
Test results:									
Particle-size range [µm]	lower	0.19	0.24	0.36	0.52	0.81	1.15	1.78	
	upper	0.24	0.36	0.52	0.81	1.15	1.78	2.74	
Average efficiency² [%]		90.11	91.51	93.71	96.45	99	99.81	100	

ISO 12500-4 IUTA (water):

99,9999% in range 1-16 bar

Test parameters						
Inlet pressure		7 bar (e) [8 bar (a)]				
Air flow for testing		25%, 50%, 75%, 100%, 125% of rated flow (48 Nm³/h)				
Injected water per L/s air flow		2 ml/min				
Test results		25%	50%	75%	100%	125%
Pressure drop [mbar] at each flow rate		22	83	184	334	520
Water-removal efficiency (%)		>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.999%

ISO 8573-2 SGS (oil aerosol):

0,01 mg/m³ >91% (* SGS laboratory detection limit)

Sampling Point	Test Results	Detected Limit	Unit
01 Before filter	0.113	0.0100	mg/m ³
02 After filter	N.D.	0.0100	mg/m ³

Total HydroCarbon(THC) Removal Efficiency

Test Item	Removal Efficiency (%)
Total Aerosol oil	>91



Note: 1.The report will be in vain if it is used separately.

2."N.D."non-detected means the test results is lower than detection limit value.

The combination of AISI316 stainless steel separator material and the PERMA-CEMET 901.902 epoxy adhesive used is suitable for contact with foodstuffs according to 90/128 / EEC and Directive 97/48 / EEC (amendment 90/128 / EEC) and 2005/79 / EC .

ATEX II 2G II C T6 Gb: file 15FILE0037



Staphylococcus aureus test: 99.998%



Označení <i>Product code</i>	Materiálové provedení <i>Product material</i>	Průtok <i>Flowrate</i>	Vstup / Výstup <i>Inlet/Outlet</i>	Odtok výstup <i>Drain</i>	Rozměr výrobku <i>Product dimension</i>			Váha <i>Weight</i>	
		[L/min]	[m3/hod]	BSPT	BSPT	Ø [mm] <i>tělo body</i>	Ø [mm] <i>hlava head</i>	[mm] * <i>délka length</i>	[kg]
KA300AF	hliník <i>aluminium</i>	300	18	1/2"	1/2"	59	67	270	0,8
KA600AF	hliník <i>aluminium</i>	600	36	3/4"	1/2"	59	67	310	0,82
KA900AF	hliník <i>aluminium</i>	900	54	3/4"	1/2"	59	67	350	0,88
KA1500AF	hliník <i>aluminium</i>	1 500	90	1"	1/2"	88	96	435	1,56
KA2000AF	hliník <i>aluminium</i>	2 000	120	1"	1/2"	88	96	505	1,94
KA4000AF	hliník <i>aluminium</i>	4 000	240	1"	1/2"	88	96	505	2,16

Označení Product code	Materiálové provedení Product material	Nominální průtok při 7 bar Referenced flowrate at 7 bar		Vstup / Výstup Inlet/Outlet	Odtok výstup Drain	Rozměr výrobku Product dimension			Váha Weight
		[L/min]	[m3/hod]	BSPT	BSPT	Ø [mm] tělo body	Ø [mm] hlava head	[mm] * délka length	[kg]
KA150SF (SF316)	nerez ocel AISI 304 (AISI 316) stainless steel AISI 304 (AISI 316)	150	9	1/4"	1/2"	47	55	260	1,15
KA300SF (SF316)	nerez ocel AISI 304 (AISI 316) stainless steel AISI 304 (AISI 316)	300	18	1/2"	1/2"	59	67	270	1,36
KA600SF (SF316)	nerez ocel AISI 304 (AISI 316) stainless steel AISI 304 (AISI 316)	600	36	3/4"	1/2"	59	67	305	1,42
KA900SF (SF316)	nerez ocel AISI 304 (AISI 316) stainless steel AISI 304 (AISI 316)	900	54	3/4"	1/2"	59	67	350	1,52
KA1500SF (SF316)	nerez ocel AISI 304 (AISI 316) stainless steel AISI 304 (AISI 316)	1 500	90	1"	1/2"	88	96	435	1,96
KA2000SF (SF316)	nerez ocel AISI 304 (AISI 316) stainless steel AISI 304 (AISI 316)	2 000	120	1"	1/2"	88	96	505	3,5
KA4000SF (SF316)	nerez ocel AISI 304 (AISI 316) stainless steel AISI 304 (AISI 316)	4 000	240	1"	1/2"	88	96	505	3,5

The flow rates indicated are 7 bar (102 psi) reference pressure and 20 ° C.

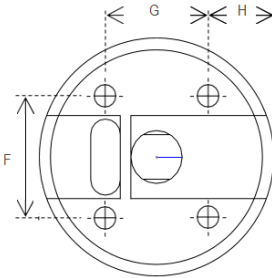
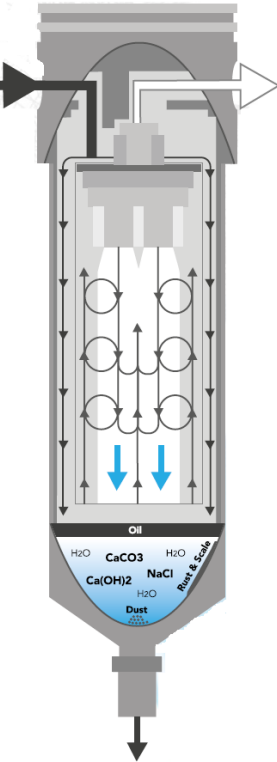
* Length with ball valve installed, manual condensate drain. Included.

Korekční faktor při jiném tlaku než referenčním (7 bar).

Correction factor for another pressure than the reference (7 bar).

Tlak v rozvodu Line pressure	1 bar 14,5 psi	2 bar 29 psi	3 bar 43,5 psi	4 bar 58 psi	5 bar 72,5 psi	6 bar 87 psi	7 bar 101,5 psi	8 bar 116 psi	9 bar 130,5 psi	10 bar 145 psi	11 bar 159,5 psi	12 bar 174 psi	13 bar 188,5 psi	14 bar 203,1 psi	15 bar 217,6 psi
Korekční faktor Correction factor	0,53	0,63	0,73	0,79	0,89	0,94	1	1,09	1,17	1,25	1,33	1,4	1,48	1,56	1,64

The new flow rate is calculated = correction factor to the real pressure x flow at the reference pressure



Type	Connection dimensions			
	F	G	H	screw 4 pcs
KA150	20	16	12,5	M6
KA300	35	30	19	M6
KA600	35	30	19	M6
KA900	35	30	19	M6
KA1500	50	47	25	M8
KA2000	50	47	25	M8
KA4000	50	47	25	M8

Classification under Pressure Equipment Directive (PED) 2014/68 / EU for Group 2 fluids:

PED
PRESSURE EQUIPMENT

Product code Označení	Volume Objem	Category Kategorie	
		[16 bar]	[70 bar]
KA60	0,22	SEP	SEP
KA150	0,47	SEP	SEP
KA300	0,76	SEP	SEP
KA600	0,88	SEP	SEP
KA900	0,99	SEP	SEP
KA1500	2,49	SEP	---
KA2000	2,71	SEP	---
KA4000	2,92	SEP	---



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Pro více informací nás prosím kontaktujte info@cmptrade.cz