







@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.

Maintenace:

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: see table below Water removal: 99.9999% Filtration of impurities: 0.01 µm Working pressure: 1 to 10 bar

Operating temperature: 1 ° C to 55 ° C

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

Separation: water, impurities, oil, bacteria Condensate drain: manual (ball valve)



ISO 12500-1 IUTA (oil aerosol): 0,0004 mg/m³ at 99,996%

Test parameters Inlet pressure Air flow Test inlet oil concentration Compressor oil viscosity	10 mg/m ³	18 Sm³/h (ANR) = 100% nominal flow rate						
Test results	Cartridge 1	Cartridge 2	Cartridge 3	Average				
Dry pressure drop* (mbar]	446	445	447	446				
Saturated pressure drop* (mbar] 445 445 447								
Mean outlet oil concentration [mg/m³ (ANR)]**	0.0003	0.0002	0.0006	0.0004				
Filtration efficiency (The calculation is based on the data shown in the test report)								

ISO 12500-3 IUTA (particles for first item). Last at $0.01 \mu m$.

2,0 μm 100% 1,0 µm 99% 0,2 μm 90%

Test parameter: Inlet pressure Air flow Flow direction Test aerosol Particle size range Aerosol Spectrometer	7 bar (e) 48 Nm³/h from insid DEHS (0.19 – 2. PCS 2100		iuto					
Test results:			(, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Particle- size range [µm]	lower upper	0.19 0.24	0.24 0.36	0.36 0.52	0.52 0.81	0.81 1.15	1.15 1.78	1.78 2.74
Average efficiency ² [%]		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 Air flow for testing Injected water per L/s air flow	7 bar (e) [8 ba 25%, 50%, 75 2 ml/min	ar (a)] %, 100%, 1259	% of rated flow	(48 N m³/h)	iuta
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%

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 .



Staphylococcus aureus test: 99.998%

EIBIKEN 衛生微生物研究センター

Brevundimonas diminuta ATCC 19146 test: 99,993%

日本微生物クリニック株式会社



Označení	Materiálové		Nominální pr	růtok při 7 bar	Vstup / Výstup	Odtok výstup *	Šiřka	Výška	Hloubka	Váha
Product code	Product material		Referenced flo	owrate at 7 bar	Intlet/Outlet	Drain	Width	Height	Depth	Weight
			[L/min]	[m3/hod]	BSPT	BSPT	[mm]	[mm]	[mm]	[kg]
KAKIT4R -300P	KA300PA - abs a plast KA300C - uhlik a plast KA300D - aktivovaný oxid hlinitý a plast KA300M - dustá vlákna a plast	KA300PA - abs and plastic KAC300C - carbon and plast KA300D - activated alumina and plastic KA300M - hollow fiber and plastic	300	18	1/2"	1/8"	430	110	410	3,35
KAKIT3R -300P	KA300PA - abs a plast KA300C - uhlik a plast KA300M - dustá vlákna a plast	KA300PA - abs and plastic KAC300C - carbon and plast KA300M - hollow fiber and plastic	300	18	1/2"	1/8"	307	110	410	2,51
KAKIT3R-600A4	KA600AF (SF) KA600C - uhlik a plast KA600M - mikrofiltr a plast KA600AF (SF)	KA600AF (SF) - AI, SS (304,316) KAC600C - carbon and plastic KA600M - microfilter and plastic KA600AF (SF) - AI, SS (304,316)	600	36	1"	1/2"	541	420	160	10,9
KAKIT3R-1000S4	KA1000SF KA1000C - uhlik a plast KA1000F - mikrofiltr a plast KA1000SF	KA1000SF - SS (304,316) KA1000C - carbon and plastic KA1000M - microfilter and plastic KA1000SF - SS (304,316)	1000	60	1"	1/2"	575	786,5	180	23,5

The flow rates indicated correspond to a reference pressure of 7 bar (102 psi) and a temperature of 20 $^{\circ}$ C. * Length with ball valve installed, manual condensate drain.

Tlakové ztráty (pressure drop data) KAKIT:

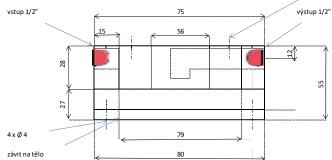
		ann an étan un du	ula libraria in Ella	-d	mikrofiltr		
		separátor vody	uhlikový filtr	adsorpčni filtr		KAKIT 3	KAKIT 4
		(water remover)	(carbon filter)	(adsorption filter)	(membrane filter)		
		•				UEU	
Vstupni tlak	Průtok	1/A 000DA	1/A 000D0	1/4 000PP	1/A 000DA	KAKITAD AAAD	KAKITAD 000D
(pressure inlet)	(flow rate)	KA-300PA	KA-300PC	KA-300PD	KA-300PM	KAKIT3R-300P	KAKIT4R-300P
[bars]	[L/min]	[bars]	[bars]	[bars]	[bars]	[bars]	[bars]
	200	0,2	0,4	0	0,2	0,7	0,8
	250	0,3	0,4	0,1	0,4	1	1,3
5 bars	300	0,35	0,6	0,1	0,4	1,4	1,7
	350	0,4	0,7	0,1	0,6	1,8	2,3
	400	0,6	0,8	0,1	0,8	2,4	3,2
	200	0,2	0,3	0,1	0,2	0,6	0,6
	250	0,2	0,4	0,1	0,3	0,8	0,9
7 bars	300	0,38	0,5	0,1	0,4	1	1,3
	350	0,5	0,6	0,1	0,5	1,3	1,6
	400	0,7	0,6	0,1	0,6	1,7	2
	200		0,2	0,1	0,1	0,4	0,5
	250		0,3	0,1	0,2	0,6	0,7
9 bars	300	0,1	0,3	0,1	0,3	0,8	1
	350	0,2	0,4	0,1	0,4	1	1,2
	400	0,3	0,5	0,1	0,5	1,3	1,6



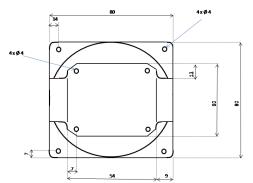
Korekční faktor při jiném tlaku než referenčním (7 bar). Correction factor for another pressure than the reference (7 bar).															
Tlak v rozvodu Line pressure	1 bar 14,5 psi	2 bar 29 psi	3 bar 43,5 psi	4 bar 58 psi	5 bar 72,5 psi	6 bar 87 psi	7 bar 101,5 psi	8 bar 116 psi	9 bar 130,5 psi	10 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









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

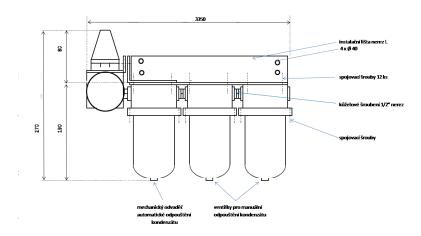


Product code	Volume	Category				
Označeni	Objem	Kategorie				
	[L]	[16 bar]	[70 bar]			
KA300PA	0,76	SEP	-			



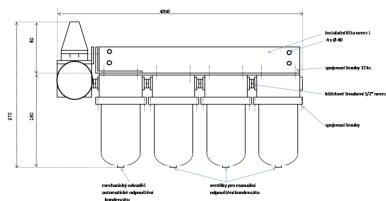
KAIKT3R-300





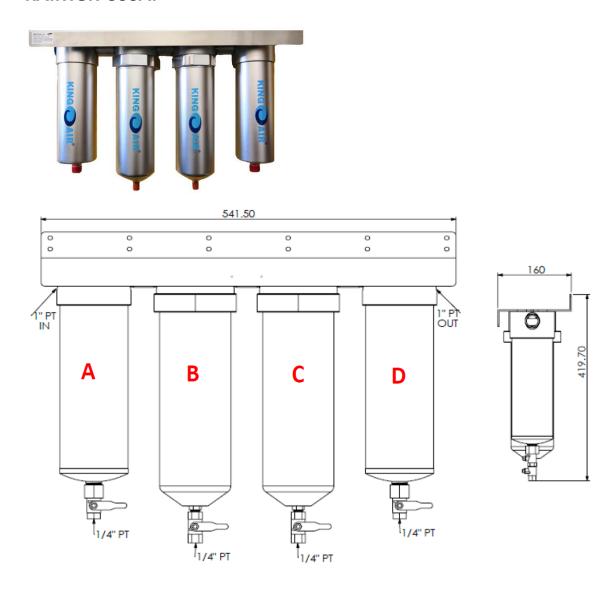
KAIKT4R-300





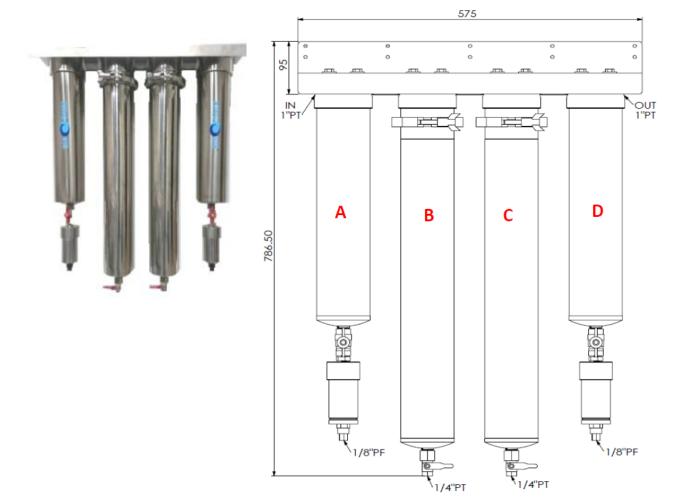


KAIKT3R-600AF



□_{Filtdryer®}

KAIKT3R-10004S





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