



STANDARD KA300PA

plastic with autodrain up to 10 bar

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:

Recommended maintenance once a month or according to application. Disassembly is required according to the drawing below. All trap types have the same removal procedure. After removing the trap head, unscrew the mechanical sieve and rinse it away from dirt. At the bottom, release the floating mechanism nut and remove. Clean the dirt on the strainer slightly and install it back. Complete the maintenance by screwing the parts together. If the trap is installed under the KingAir® separator, maintenance can be performed by closing the compressed air ball valve during operation. If the trap is in front of the separator, the inlet to the trap must be closed by a ball valve for maintenance and shut down during production. In the event of a problem, contact CMP Trade Service.

› 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 10 bar

Operating temperature: 1 ° C to 55 ° C

Material: ABS

Separation: water, impurities, oil, bacteria


Condensate drain: integrated automatic (mechanical float)

ISO 12500-3 IUTA (particles):

2,0 µm 100%


1,0 µm 99%

0,2 µm 90%

Test parameter:		<div>7 bar (e) [8 bar (a)] 48 Nm³/h = 100 % nominal flow rate from inside to outside DEHS (0.19 – 2.74) µm PCS 2100 (Palas GmbH)</div> <div></div>						
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 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%	>99.9999%

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/m³
02 After filter	N.D.	0.0100	mg/m³

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.

Staphylococcus aureus test: 99.998%

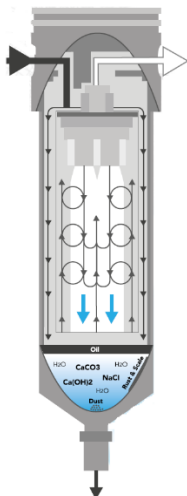


Označení Product code	Materiálové provedení Product material	Nominální průtok při 7 bar Referenced flowrate at 7 bar		Vstup / Výstup Inlet/Outlet	Odtok výstup * Drain *	Rozměr výrobku Product dimension			Váha Weight
		[L/min]	[m3/hod]	BSPT	BSPT	Ø [mm] tělo body	Ø [mm] hlava head	[mm] * délka length	[kg]
KA300PA	plast plastic	300	18	1/2"	1/2"	80	80	185	0,48

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

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

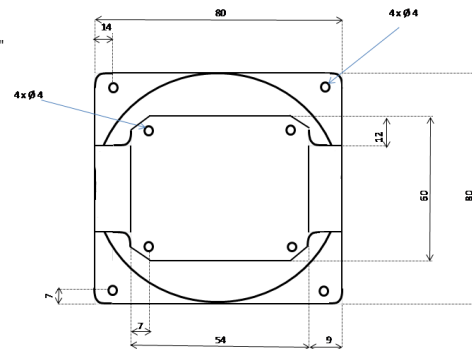
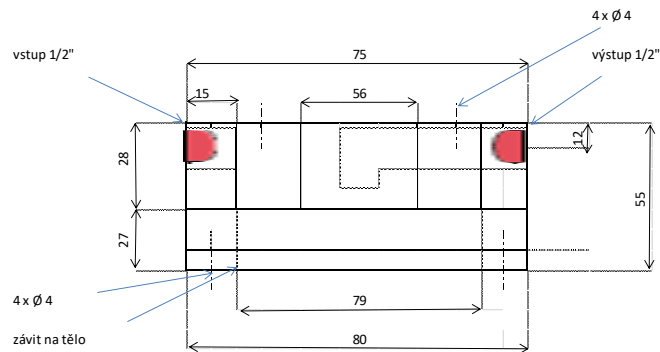
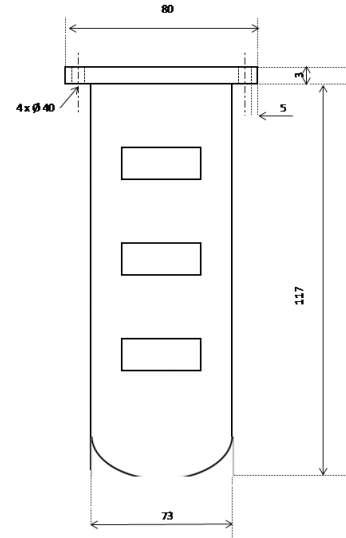
The new flow rate is calculated = correction factor to the real pressure x flow at the reference pressure



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

PED
PRESSURE EQUIPMENT

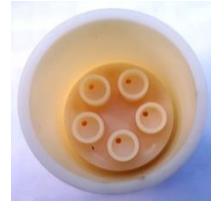
Product code Označení	Volume Objem	Category Kategorie	
	[L]	[16 bar]	[70 bar]
KA300PA	0,76	SEP	---



KA300PA: separator



Automatic drain



Upper cover:

Body:



in

out





www.cmptrade.cz



Pro více informací nás prosím kontaktujte info@cmptrade.cz