

## Filter Advantage 201 A

Description			
Name	Advantage 201 A		
Part Number	430371		
	A2		
Marking according to EN	organic gases and vapors with a boiling point > 65° C		
Conditions of use	• organic gases and vapors with a	boiling point > 65°C	
Colour code	brown		
Characteristics			
Weight (g)	85 - 90		
Diameter (mm)	103 x 78		
Height incl. thread (mm)	39		
Connection	gas filter with bayonet for paired us	se	
Breathing Resistance			
		EN 14387 requirements	Typical values
	at 15 l/min *	max. 140 Pa	40 - 50 Pa
	at 47,5 l/min *	max. 560 Pa	170 - 195 Pa
Concentration of Testing Gases			
Class 2	5000 ppm (0,5 Vol%)		
Performances		1	
Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	Cyclohexane (C6H12)	35 min	50 min
Material			
Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	unimpregnated activated carbon		
Details/Special Information	Faster seeded	5 °C +- + 50°C + 00 °C +-	5.0
Storage conditions & time	Factory sealed	- 5 °C to + 50°C, < 90 % r. h.	5,0 years
* Note: Test flow condition of EN 14387	When one filter of a multiple filter device is tested separately, the air flow specified for a test shall be divided by the number of filters through which the air flow is proportioned.  30 l/min: 2 filters = 15 l/min per filter  95 l/min: 2 filters = 47,5 l/min per filter  The applicable performance requirements must be carried out at halved volume flow.		



### Filter Advantage 202 A-P3

Description			
Name	Advantage 202 A-P3		
Part Number	430372		
Marking according to EN	A2 P3 R		
Conditions of use	organic gases and vapors with a boiling point > 65° C     against non-volatile liquid and solid particles		
Colour code	brown		
	white		
Characteristics			
Weight (g)	102		
Diameter (mm)	102 103 x 78		
Height incl. thread (mm)	54		
Connection		ot for paired use	
Connection	combination filter with bayone	et for paried use	
Breathing Resistance			
Dreathing Resistance		EN 14387 requirements	Typical values
	at 15 l/min *	max. 260 Pa	140 Pa
	at 47,5 l/min *	max. 980 Pa	450 Pa
Concentration of Testing Gases	at 11,0 min	maxi oco i d	1.00.0
Class 2	5000 ppm (0,5 Vol%)		
Performances			
Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	Cyclohexane (C6H12)	35 min	50 min
Filter type and class	Particles of reference	EN 143 requirements	Typical values
P3	Sodium chloride (NaCl)	max. 0,05%	< 0,009 %
	Paraffin oil	max. 0,05%	< 0,004 %
R	Reusable according EN 143:	2000/A1:2006	
D	Dolomite clogging test & mar	king according to EN 143:2000/A1:20	06 and EN 14387
Material			
Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	fibre glass paper / unimpregr	nated activated carbon	
Details/Special Information	le i i	F 00 4 . FC00	15.0
Storage conditions & time	Factory sealed	- 5 °C to + 50°C, < 90 % r. h.	5,0 years
* NI=4=-	Miles and filter of a continue	Ellen device is tested as a section in the	in flavor and a ifficial flavor to a to a to a local to
* Note: Test flow condition of EN 14387	When one filter of a multiple filter device is tested separately, the air flow specified for a test shall be divided by the number of filters through which the air flow is proportioned.  30 l/min: 2 filters = 15 l/min per filter  95 l/min: 2 filters = 47,5 l/min per filter  The applicable performance requirements must be carried out at halved volume flow.		



### Filter Advantage 201 ABEK

Description			
Name	Advantage 201 ABEK		
Part Number	430373		
Marking according to EN	A2 B2 E1 K1		
Conditions of use	organic gases and vapors with a boiling point > 65° C     inorganic gases and vapors, e.g. chlorine, hydrogen sulfide, hydrogen cyanide     sulfur dioxide, hydrogen chloride and other acid gases     ammonia and organic ammonia derivatives		
Colour code	brown		
	grey		
	yellow		
	green		
Characteristics	100 110		
Weight (g)	130-140		
Diameter (mm)	103 x 78		
Height incl. thread (mm)	45		
Connection	gas filter with bayonet for pair	ed use	
Breathing Resistance		EN 44297 vaguiramento	Tyrnical values
	at 15 l/min *	max. 140 Pa	Typical values 85 Pa
	at 47,5 l/min *	max. 560 Pa	300 Pa
Concentration of Testing Gases			
Class 1	1000 ppm (0,1 Vol%)		
Class 2	5000 ppm (0,5 Vol%)		
	(c,c vo.: 70)		
Performances			
Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	Cyclohexane (C6H12)	35 min	40-50 min
32	Chlorine (Cl2)	20 min	30-40 min
	Hydrogen sulfide (H2S)	40 min	> 80 min
	Hydrocyanic acid (HCN)	25 min	40-70 min
<u> </u>	Sulfur dioxide (SO2)	20 min	>70 min
<b>&lt;</b> 1	Ammonia (NH3)	50 min	>100 min
Material	plactics		
Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	impregnated activated carbon		
Details/Special Information Storage conditions & time	Factory sealed	- 5 °C to + 50°C, < 90 % r. h.	5,0 years
atorage conditions & time			
* Note: Test flow condition of EN 14387	divided by the number of filter 30 l/min: 2 filters = 15 l/min po 95 l/min: 2 filters = 47,5 l/min		tioned.



### Filter Advantage 202 ABEK - P3

Description			
Name	Advantage 202 ABEK - P3		
Part Number	430374		
Marking according to EN	A2 B2 E1 K1 P3 R		
Conditions of use	organic gases and vapors with a boiling point > 65° C     inorganic gases and vapors, e.g. chlorine, hydrogen sulfide,		
Colour code	brown		
	grey <mark>yellow</mark> green white		
Characteristics			
Weight (g)	150		
Diameter (mm)	103 x 78		
Height incl. thread (mm)	60		
Connection	combination filter with bayone	t for paired use	
Breathing Resistance			
		EN 14387 requirements	Typical values
	at 15 l/min *	max. 260 Pa	150 Pa
	at 47,5 l/min *	max. 980 Pa	530 Pa
Concentration of Testing Gases Class 1	1000 ppm (0,1 Vol%)		
Class 1	5000 ppm (0,5 Vol%)		
Olass 2	5500 ppiii (0,5 voi70)		
Performances			
Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A2	Cyclohexane (C6H12)	35 min	40-50 min
B2	Chlorine (Cl2)	20 min	30-40 min
	Hydrogen sulfide (H2S)	40 min	>80 min
	Hydrocyanic acid (HCN)	25 min	40-70 min
E1	Sulfur dioxide (SO2)	20 min	>70 min
K1	Ammonia (NH3)	50 min	>100 min
Filter type and class	Particles of reference	EN 143 requirements	Typical values
P3	Sodium chloride (NaCl)	max. 0,05%	< 0.009%
	Paraffin oil	max. 0,05%	< 0,004%
R	Reusable according EN 143:2		
D		king according to EN 143:2000/A1:20	006 and EN 14387
Material			
Material	plactice		
Housing Cover (particle filter)	plastics plastics		
Cover (particle filter) Filtering material	fiber glass paper / impregnate	ed activated carbon	
i intering material	inder glass paper / impregnate	a douvated carboff	
Details/Special Information			
Storage conditions & time	Factory sealed	- 5 °C to + 50°C, < 90 % r. h.	5,0 years
* Note:	When one filter of a multiple f	ilter device is tested congrately, the	air flow enecified for a test shall be
* Note: Test flow condition of EN 14387	When one filter of a multiple filter device is tested separately, the air flow specified for a test shall be divided by the number of filters through which the air flow is proportioned.  30 l/min: 2 filters = 15 l/min per filter  95 l/min: 2 filters = 47,5 l/min per filter  The applicable performance requirements must be carried out at halved volume flow.		



### Filter Advantage 200 P3

Description			
Name	Advantage 200 P3		
Part Number	430375		
Marking according to EN	P3 R		
Conditions of use	against non-volatile liquid and s	200 P3	
Colour code	white		
Characteristics			
Weight (g)	23		
Diameter (mm)	69		
Height incl. thread (mm)	27		
Connection	particle filter with bayonet for pair	od ugo	
Connection	particle litter with bayonet for pair	ed use	
Breathing Resistance			
		EN 14387 requirements	Typical values
	at 15 l/min *	max.120 Pa	60 - 70 Pa
	at 47,5 l/min *	max.420 Pa	190 - 220 Pa
	,		
Concentration of Testing Gases			
Performances			
Filter type and class	Gases of reference	EN 14387 requirements	Typical values
P3	Sodium chloride (NaCl)	max. 0,05%	< 0,009 %
_	Paraffin oil	max. 0,05%	< 0,004 %
R	Reusable according EN 143:2000		
D	Dolomite clogging test & marking	according to EN 143:2000/A1:2006	6 and EN 14387
Clogging	At a concentration of 400+100 mg / m2 dolomite dust is loaded until the product of dust concentration and duration is 263 mg x h / m2. (loading value)		
Requirements:	The particle filter is not allowed to exceed the pressure difference of 700 Pa after the loading. (test flow rate 47,5 l/min)		
Filter typical values:	< 300 Pa		
Material			
Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	fiber glass paper		
Details/Special Information			
Storage conditions & time	Factory sealed	- 5 °C to + 50°C, < 90 % r. h.	10 years
* Note: Test flow condition of EN 14387	When one filter of a multiple filter device is tested separately, the air flow specified for a test shall be divided by the number of filters through which the air flow is proportioned.  30 l/min: 2 filters = 15 l/min per filter  95 l/min: 2 filters = 47,5 l/min per filter  The applicable performance requirements must be carried out at halved volume flow.		



### Filter Advantage 201 K

Description			
Name	Advantage 201 K	<u> </u>	
Part Number	10107163		
Marking according to EN	K2		
Conditions of use	ammonia and organic ammonia	a derivatives	
Colour code	green		
Ol 4 i - 4i			
Characteristics	110		
Weight (g)	110 103 x 78		
Diameter (mm)	38		
Height incl. thread (mm)			
Connection	gas filter with bayonet for paired	use	
Breathing Resistance			
Dreating resistance		EN 14387 requirements	Typical values
	at 15 l/min *	max. 140 Pa	40 Pa
	at 47.5 I/min *	max. 560 Pa	180 Pa
	1		1 22 2
Concentration of Testing Gases			
Class 2	5000 ppm (0,5 Vol%)		
Performances			
Filter type and class	Gases of reference	EN 14387 requirements	Typical values
K2	Ammonia (NH3)	40 min	50 min
			·
Material			
Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	impregnated activated carbon		
Details/Special Information			
Storage conditions & time	Factory sealed	- 5 °C to + 50°C, < 90 % r. h.	5,0 years
* Note: Test flow condition of EN 14387	When one filter of a multiple filter device is tested separately, the air flow specified for a test shall be divided by the number of filters through which the air flow is proportioned.  30 l/min: 2 filters = 15 l/min per filter  95 l/min: 2 filters = 47,5 l/min per filter  The applicable performance requirements must be carried out at halved volume flow.		



### Filter Advantage 201 K - P3

Description			
Name	Advantage 202 K - P3		
Part Number	10107165		
Marking according to EN	K2 P3 R		
Conditions of use	ammonia and organic amm	onia derivatives	
	against non-volatile liquid a		
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			The second
Colour code	green		
	white		
Chausata sistina			
Characteristics	125		
Weight (g)	103 x 78		
Diameter (mm) Height incl. thread (mm)	54		
Connection	combination filter with bayons	at for paired use	
Connection	Combination litter with bayon	et for paired use	
Breathing Resistance			
Distring Recipitation		EN 14387 requirements	Typical values
	at 15 l/min *	max. 260 Pa	115 Pa
	at 47,5 I/min *	max. 980 Pa	440 Pa
	ac 11,0 min.	maxi oco i d	1.10.1 0
Concentration of Testing Gases			
Class 2	5000 ppm (0,5 Vol%)		
Performances			
Filter type and class	Gases of reference	EN 14387 requirements	Typical values
K2	Ammonia (NH3)	40 min	50 min
Filter type and class	Particles of reference	EN 143 requirements	Typical values
P3	Sodium chloride (NaCl)	max. 0,05%	< 0,009%
	Paraffin oil	max. 0,05%	< 0,004%
R	Reusable according EN 143:		00 I EN 44007
D	Dolomite clogging test & mar	king according to EN 143:2000/A1:200	06 and EN 14387
Matarial			
Material Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	fibre glass paper / impregnat	ed activated carbon	
r intering material	indie glass paper / impregnat	ed activated carbon	
Details/Special Information			
Storage conditions & time	Factory sealed	- 5 °C to + 50°C, < 90 % r. h.	5,0 years
The state of the s	. astory obtained	1 0 0 0 0 0, 100 /01.11.	10,0 ,0010
* Note:	When one filter of a multiple	filter device is tested separately, the ai	ir flow specified for a test shall be
Test flow condition of EN 14387		rs through which the air flow is propor	
	30 l/min: 2 filters = 15 l/min per filter		
	95 l/min : 2 filters = 47,5 l/min per filter		
	The applicable performance requirements must be carried out at halved volume flow.		



### Filter Advantage 201 ABE

Description			
Name	Advantage 201 ABE		
Part Number	10144827		
Marking according to EN	A1B1E1		
Conditions of use	organic gases and vapors with a boiling point > 65° C     inorganic gases and vapors, e.g. chlorine, hydrogen sulfide, hydrogen cyanide     sulfur dioxide, hydrogen chloride and other acid gases		
Calarina and a		_	_
Colour code	brown		
	grey		
	yellow		_
Characteristics			
Weight (g)	92		
Diameter (mm)	103 x 78		
Height incl. thread (mm)	38		
Connection	gas filter with bayonet for paire	d use	
	3		
Breathing Resistance			
		EN 14387 requirements	Typical values
	at 15 l/min *	max. 100 Pa	40 Pa
	at 47,5 I/min *	max. 400 Pa	170 Pa
2 1 1 1 1 2			
Concentration of Testing Gases			
Class 1	1000 ppm (0,1 Vol%)		
Oldos I	1000 ppiii (0,1 voi: 70)		
Performances			
Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A1	Cyclohexane (C6H12)	70 min	> 150 min
B1	Chlorine (Cl2)	20 min	> 50 min
<b>5</b> .	Hydrogen sulfide (H2S)	40 min	> 150 min
	Hydrocyanic acid (HCN)	25 min	> 70 min
E1	Sulfur dioxide (SO2)	20 min	> 50 min
		·	·
Material			
Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	impregnated activated carbon		
Details/Special Information	Festives and d	5 00 to 1 5000 100 00	15.0
Storage conditions & time	Factory sealed	- 5 °C to + 50°C, < 90 % r. h.	5,0 years
* Note:	When one filter of a multiple filt	er device is tested senarately, the a	ir flow specified for a test shall be
Test flow condition of EN 14387	When one filter of a multiple filter device is tested separately, the air flow specified for a test shall be divided by the number of filters through which the air flow is proportioned.  30 l/min: 2 filters = 15 l/min per filter  95 l/min: 2 filters = 47,5 l/min per filter  The applicable performance requirements must be carried out at halved volume flow.		



# Filter Advantage 201 ABE - P3

Description			
Name	Advantage 202 ABE-P3		
Part Number	10144828		
Marking according to EN	A1B1E1 P3 R		
Conditions of use	organic gases and vapors with a boiling point > 65° C     inorganic gases and vapors, e.g. chlorine, hydrogen sulfide, hydrogen cyanide     sulfur dioxide, hydrogen chloride and other acid gases     against non-volatile liquid and solid particles		
Colour code	brown		
Colour code	grey		
	yellow		
	white		
		,	
Characteristics	400		
Weight (g)	108		
Diameter (mm)	103 x 78		
Height incl. thread (mm)	54	for a straight of	
Connection	combination filter with bayonet	for paired use	
Breathing Resistance			
<b>3</b>		EN 14387 requirements	Typical values
	at 15 l/min *	max. 220 Pa	108 Pa
	at 47,5 I/min *	max. 820 Pa	400 Pa
Concentration of Testing Gases Class 1	1000 ppm (0,1 Vol%)		
Performances	_		
Filter type and class	Gases of reference	EN 14387 requirements	Typical values
A1	Cyclohexane (C6H12)	70 min	> 150 min
B1	Chlorine (Cl2)	20 min	> 50 min
	Hydrogen sulfide (H2S)	40 min	> 150 min
	Hydrocyanic acid (HCN)	25 min	> 70 min
E1	Sulfur dioxide (SO2)	20 min	> 50 min
Filtra to a constant	Badista of officers	EN 440	T ' 1 1
Filter type and class P3	Particles of reference Sodium chloride (NaCl)	EN 143 requirements max. 0,05%	Typical values < 0.009%
P3	Paraffin oil	max. 0,05%	< 0.009%
R	Reusable according EN 143:20		1 0,004 /0
D		ng according to EN 143:2000/A1:20	06 and EN 14387
Material			
Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	impregnated activated carbon		
Details/Special Information			
Storage conditions & time	Factory sealed	- 5 °C to + 50°C, < 90 % r. h.	5,0 years
otorage conditions at time	, dotory scaled	0 0 10 1 00 0, 1 00 70 1.11.	10,0 yours
* Note:	When one filter of a multiple file	ter device is tested separately, the a	ir flow specified for a test shall be
Test flow condition of EN 14387	divided by the number of filters 30 l/min : 2 filters = 15 l/min pe 95 l/min : 2 filters = 47,5 l/min p	through which the air flow is propor r filter	rtioned.