Filter Advantage 201 A

Technical Datasheet

Description			
Name	Advantage 201 A		
Part Number	430371		
Marking according to EN	A2		
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 use		
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			
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			
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

Technical Datasheet

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)	103 x 78		
Height incl. thread (mm)	54		
Connection	combination filter with bayonet for paired use		
Breathing 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			
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 & marking according to EN 143:2000/A1:2006 and EN 14387		
Material			
Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	fibre glass paper / unimpregnated 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 ABEK

Technical Datasheet

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			
Weight (g)	130-140		
Diameter (mm)	103 x 78		
Height incl. thread (mm)	45		
Connection	gas filter with bayonet for paired use		
Breathing Resistance			
		EN 14387 requirements	**Typical values**
	at 15 l/min *	max. 140 Pa	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.-%)		
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
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 202 ABEK - P3

Technical Datasheet

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, hydrogen cyanide • sulfur dioxide, hydrogen chloride and other acid gases • ammonia and organic ammonia derivatives • against non-volatile liquid and solid particles		
Colour code	brown		
	grey		
	yellow		
	green		
	white		

Characteristics	
Weight (g)	150
Diameter (mm)	103 x 78
Height incl. thread (mm)	60
Connection	combination filter with bayonet 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 2	5000 ppm (0,5 Vol.-%)

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 143:2000/A1:2006		
D	Dolomite clogging test & marking according to EN 143:2000/A1:2006 and EN 14387		

Material	
Housing	plastics
Cover (particle filter)	plastics
Filtering material	fiber glass paper / 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 200 P3

Technical Datasheet

Description			
Name	Advantage 200 P3		
Part Number	430375		
Marking according to EN	P3 R		
Conditions of use	• against non-volatile liquid and solid particles		
Colour code	white		
Characteristics			
Weight (g)	23		
Diameter (mm)	69		
Height incl. thread (mm)	27		
Connection	particle filter with bayonet for paired 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/A1:2006		
D	Dolomite clogging test & marking according to EN 143:2000/A1:2006 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

Technical Datasheet

Description			
Name	Advantage 201 K		
Part Number	10107163		
Marking according to EN	K2		
Conditions of use	• ammonia and organic ammonia derivatives		
Colour code	green		
Characteristics			
Weight (g)	110		
Diameter (mm)	103 x 78		
Height incl. thread (mm)	38		
Connection	gas filter with bayonet for paired use		
Breathing Resistance			
		EN 14387 requirements	**Typical values**
	at 15 l/min *	max. 140 Pa	40 Pa
	at 47,5 l/min *	max. 560 Pa	180 Pa
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

Technical Datasheet

Description			
Name	Advantage 202 K - P3		
Part Number	10107165		
Marking according to EN	K2 P3 R		
Conditions of use	• ammonia and organic ammonia derivatives • against non-volatile liquid and solid particles		
Colour code	green		
	white		
Characteristics			
Weight (g)	125		
Diameter (mm)	103 x 78		
Height incl. thread (mm)	54		
Connection	combination filter with bayonet for paired use		
Breathing Resistance			
		EN 14387 requirements	**Typical values**
	at 15 l/min *	max. 260 Pa	115 Pa
	at 47,5 l/min *	max. 980 Pa	440 Pa
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 143:2000/A1:2006		
D	Dolomite clogging test & marking according to EN 143:2000/A1:2006 and EN 14387		
Material			
Housing	plastics		
Cover (particle filter)	plastics		
Filtering material	fibre glass paper / 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 ABE

Technical Datasheet

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		
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 paired use

Breathing Resistance			
		EN 14387 requirements	**Typical values**
	at 15 l/min *	max. 100 Pa	40 Pa
	at 47,5 l/min *	max. 400 Pa	170 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

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 ABE - P3

Technical Datasheet

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		
	grey		
	yellow		
	white		

Characteristics	
Weight (g)	108
Diameter (mm)	103 x 78
Height incl. thread (mm)	54
Connection	combination filter with bayonet for paired use

Breathing Resistance			
		EN 14387 requirements	**Typical values**
	at 15 l/min *	max. 220 Pa	108 Pa
	at 47,5 l/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

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 & marking according to EN 143:2000/A1:2006 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

* 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.