

Clean Air Solutions You Can Trust

AIR FILTER



Various Models



Environmentally Friendly



Wide Gas Removal
Capability



Custom Dimensions



NIPPON MUKI

*a member of **DAIKIN** group*

1. Regulation comparison table 2

2. Products

Grade	Name	Type	Media	Model	Efficiency	Page
Medium	Elelta	Mini pleats	Non-woven	EML EML-MF	65, 90 at 0.7 μ m	3
Medium	Mold resistance Elelta	Mini pleats	Non-woven	EML-B	65, 90 at 0.7 μ m	4
Pre	DS-S	Insertion panel	Non-woven	DS-S	90	5
Pre	Dusclean	Panel, Roll	Non-woven	DS	45~98	6
Medium	LELFI	Separator-less	Glass paper	LMXL LMEL	65, 90, 95 at 0.7 μ m	7
HEPA	Atomos	Separator	Glass paper	ATM	99.97 at 0.3 μ m	8
HEPA	Atomos	Separator	Glass paper	ATMC	99.97 at 0.3 μ m	9
HEPA	BFMC BFMD	Separator Separator-less	Fluororesin composite membrane (Boron free)	BFMC BFMD	99.99 at 0.3 μ m	10
HEPA	BFML	Mini pleats	Fluororesin composite membrane (Boron free)	BFML	99.99 at 0.3 μ m	11
HEPA	ATML	Mini pleats	Glass paper	ATML	99.99 at 0.3 μ m	12
HEPA	ATMLK	Mini pleats	Glass paper	ATMLK	99.99 at 0.3 μ m	13
ULPA	ATMML	Mini pleats	Glass paper	ATMML	99.999 at 0.1 μ m	14
Molecular	Puresmell	Tray	Activated charcoal	PUR	Approx. 90	15~16
Molecular	ECSL	Mini pleats	Ion exchange resin	ECSL	Approx. 90	17~18
Molecular	ACGL ACGM	Mini pleats Separator	Granular activated charcoal	ACGL ACGM	Approx. 90	19~20
Molecular	NECS NACG	Mini pleats	Ion exchange resin	NECS NACG	Approx. 90	21~22

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1. Regulation comparison table

Comparison of JIS B 9908, EN 779, EN1822 and ASHRAE 52.2

The comparison in this table is only an approximate guide, as the measurement methods differ between standards and do not match exactly.

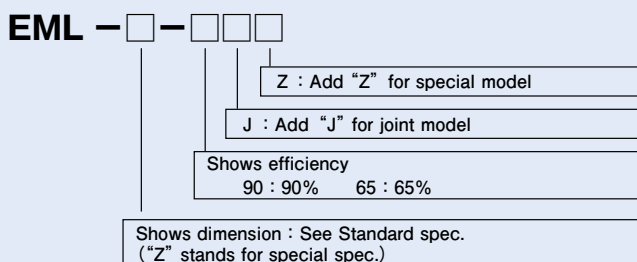
	JAPAN							EU				U.S.							
Test Standard	JIS B 9908							BSEN		EN779		EN1822	ASHRAE STD52.2						
Classification	Average arrestance (Gravimetric efficiency) (%)	Average efficiency (Colorimetric method) (%)	Particulate matter efficiency (J-ePM X) (%)			Efficiency (%)				Filter class	Average arrestance (Am) (%)	Average efficiency (Em) (%)	Overall particle size efficiency (%)	Filter class	Average arrestance (Am) (%)	Average arrestance (E) (%)			Efficiency (%)
			ePM 10	ePM 2.5	ePM 1	at 0.3 μm	at 0.1 μm	at 0.4μm	at MPPS			at 3.0 ~ 10μm	at 1 ~ 3μm			at 0.3 ~ 1μm			
Pre/ Coarse filter	< 65							G1	50 ≤ Am < 65			MERV1	< 65						
	65							G2	65 ≤ Am < 80			MERV2	65 ≤ Am < 70						
	70											MERV3	70 ≤ Am < 75						
	75											MERV4	75 ≤ Am						
	80							G3	80 ≤ Am < 90			MERV5		20 ≤ E < 35					
	80											MERV6		35 ≤ E < 50					
	90											40					G4	90 ≤ Am	
	90	MERV8		70 ≤ E	20 ≤ E < 35														
Medium/ Fine filter		50						M5		40 ≤ Em < 60		MERV9		75 ≤ E	35 ≤ E < 50				
								M6	60 ≤ Em < 80			MERV10		80 ≤ E	50 ≤ E < 65				
		60	55									MERV11		85 ≤ E	65 ≤ E	20 ≤ E < 35			
		75	65									MERV12		90 ≤ E	85 ≤ E	35 ≤ E < 50			
		90	73	61				F7		80 ≤ Em < 90		MERV13		90 ≤ E	85 ≤ E	50 ≤ E < 75			
		95	85	78	72			F8		90 ≤ Em < 95		MERV14		95 ≤ E	90 ≤ E	75 ≤ E < 85			
		98	88	84	81			F9		95 ≤ Em		MERV15		95 ≤ E	90 ≤ E	85 ≤ E < 95			
HEPA			94	93	92	90		E10			85	MERV16		95 ≤ E	95 ≤ E	95 ≤ E			
						99		E11			95								
						99.9		E12			99.5	MERV17					99.97at 0.3μm		
						99.99		H13			99.95	MERV18					99.99at 0.3μm		
						99.999		H14			99.995	MERV19					99.999at 0.3μm		
ULPA							99.9995	U15			99.9995	MERV20					99.999at 0.1~0.2μm		
							99.99995	U16			99.99995								
							99.999995	U17			99.999995								

Elelta filter

(Low pressure drop medium filter)



Model number



Standard specification

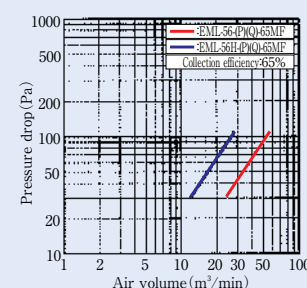
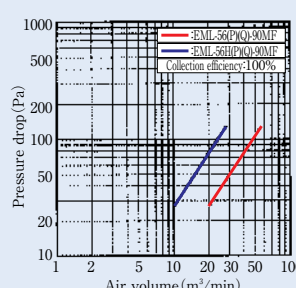
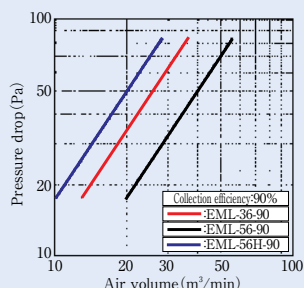
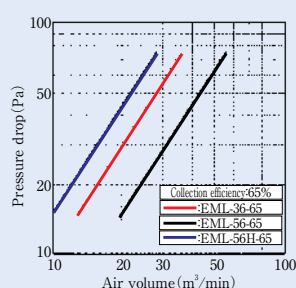
Model name	Dimension (mm) H×W×D	Air volume (m³/min)	Pressure drop (Pa)		Efficiency			Weight (kg)
			Initial	Final	EN/ ASHRAE 52.2	0.4 μm (%)	0.7 μm (%)	
EML-56-90	610x610x65	56	83	294	F7*/MERV13	80	90	3.0
EML-56H-90	610x610x65	28						2.0
EML-56-65	610x610x65	56	74		M5*/MERV11	55	65	3.0
EML-56H-65	610x610x65	28						2.0
EML-56-90-Q-MF	610x610x150	56	127	294	F7*/MERV13	80	90	4.5
EML-56H-90-Q-MF	610x305x150	28						3.0
EML-56-90-MF	610x610x65	56	83					3.0
EML-56H-90-MF	610x305x65	28						2.0
EML-56-65-Q-MF	610x610x150	56	127		M5*/MERV11	55	65	4.5
EML-56H-65-Q-MF	610x305x150	28						3.0
EML-56-65-MF	610x610x65	56	83					3.0
EML-56H-65-MF	610x305x65	28						2.0

*Equivalent grade

Materials and operating conditions

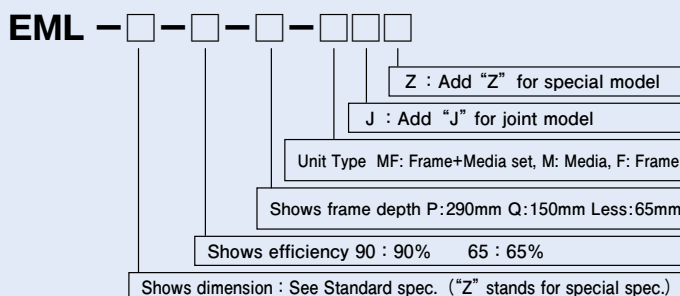
Model	Materials						Operating conditions	
	Frame	Media	Spacer	Sealant	Floor material	Gasket	Temperature	Humidity
Elelta	Aluminum	Non-woven fabric	Hot melt adhesive	Polyurethane	—	Chloroprene	< 60°C	< 95% RH
Elelta filter Media Changeable	Steel plate			—	urethane foam			

Air Volume vs. Pressure Drop

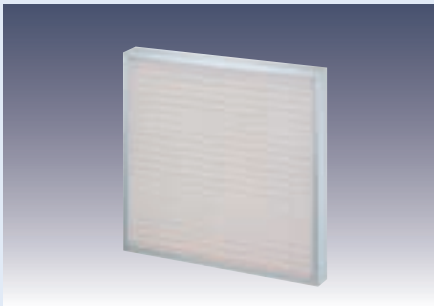


Elelta filter Media Changeable

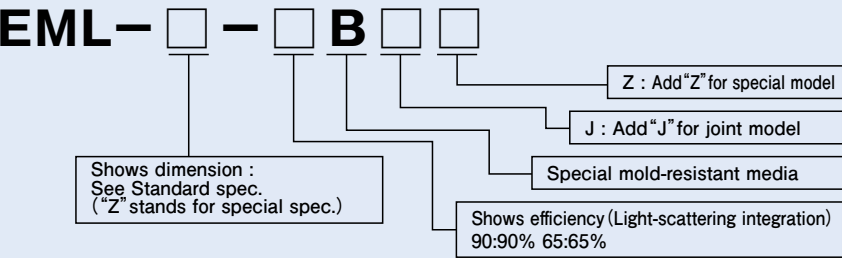
(Media changeable type)



Mold-resistant low pressure drop medium filter (Mold-resistant Elelta)



Models



Features

- Moldicide-trated filter media
- Low pressure drop Electret media is used

Standard specification

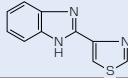
Model name	Dimension (mm) H×W×D	Air volume (m ³ /min)	Pressure drop (Pa)		Efficiency			Weight (kg)
			Initial	Final	EN/ASHRAE 52.2	0.4 μm (%)	0.7 μm (%)	
EML-36-90B	500x500x65	36	94	294	F7*/MERV13	80	90	2.5
EML-56-90B	610x610x65	56						3.0
EML-56H-90B	610x305x65	28						2.0
EML-36-65B	500x500x65	36	84	294	M5*/MERV11	55	65	2.5
EML-56-65B	610x610x65	56						3.0
EML-56H-65B	610x305x65	28						2.0

*Equivalent grade

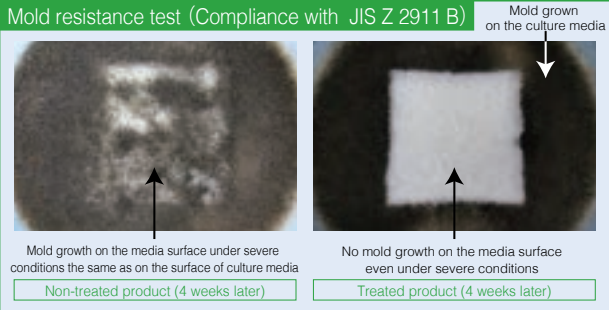
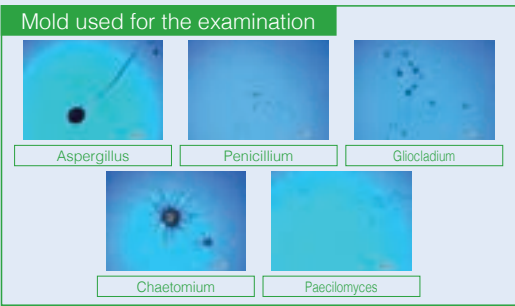
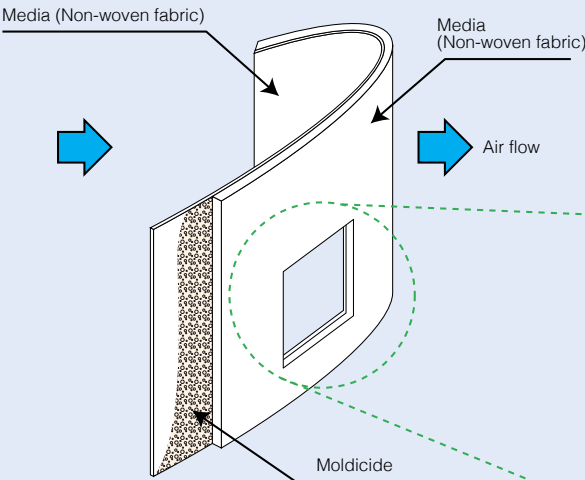
Materials and Operating conditions

Items		Description
Materials	Frame	Aluminum
	Media	Electret Non-woven fabric (Mold-resistant)
	Ribbon	synthetic resin
	Sealant	polyurethane
	Gasket	chloroprene
Operating Conditions	Temperature	<60°C
	Humidity	<95%RH

Mold-resistant agent

Effective ingredient	2-(4-Thiazolyl)benzimidazole
Structural formula	
Stability	Extremely chemically stable chemical compound, difficult to react with other materials, does not dissolve in water, solubility of an organic solvent.
Safety	Certified as a food additive in 1978

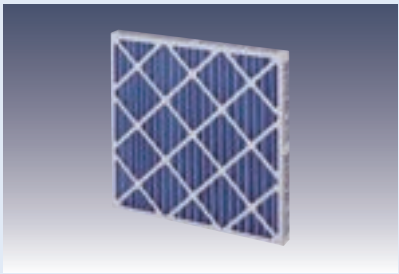
Mildewcide is sandwiched between two sheets of Non-woven fabric, growth of collected mold on the media can be suppressed for long hours. However, there is no agent which can suppress all types of mold growth.



Descriptions in this catalog are subject to change without prior notice.

DS-S Filter

(High efficiency, long lifetime
Pre filter)



Model

DS – S – 56 – 90 – 46

Frame depth : See Standard spec.
Collection efficiency : See Standard spec.
Rated air volume : See Standard spec.

Features

- High collection efficiency,
- Large dust volume capacity,
- Light and excellent handling capacity

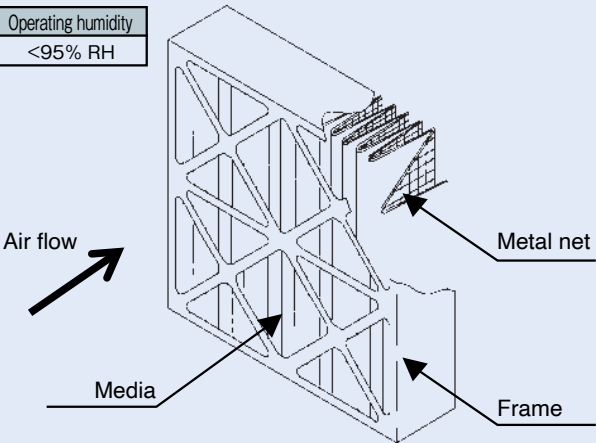
Standard Specifications

Model name	Dimension (mm) H×W×D	Air volume (m ³ /min)	Pressure drop (Pa)		Efficiency		Weight (kg)
			Initial	Final	EN/ ASHRAE 52.2	JIS Coarse (Gravimetric efficiency)	
DS-S-56-90-96	595x595x96	56	52	294	G4*/MERV7*	90	1.0
DS-S-56-90-46	595x595x46	56	75	294			0.8
DS-S-56-90-22	595x595x22	56	50	245			0.5

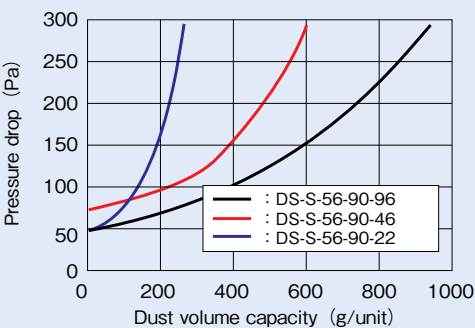
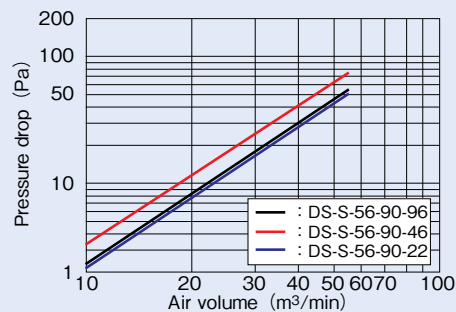
*Equivalent grade

Materials and Operating conditions

Item	Media	Metal net	Frame	Sealant	Operating temperature	Operating humidity
Materials	Non-woven fabric	Galvanized iron wire	Waterproof paper	Special adhesive	<60° C	<95% RH

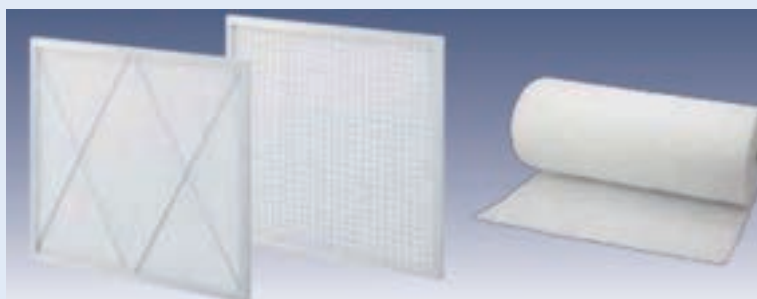


Specification Pressure drop vs. Dust volume capacity



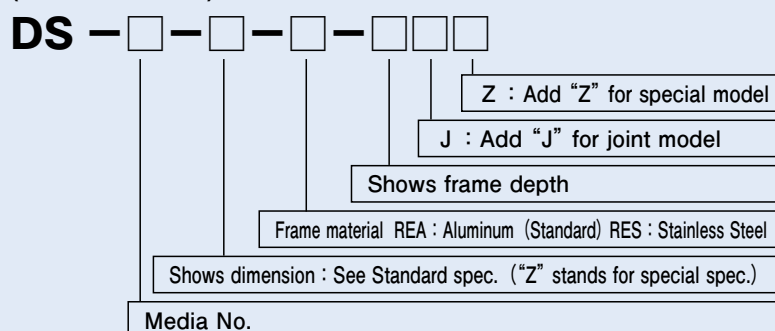
Dusclean Filter

(Non woven fabric prefilter)

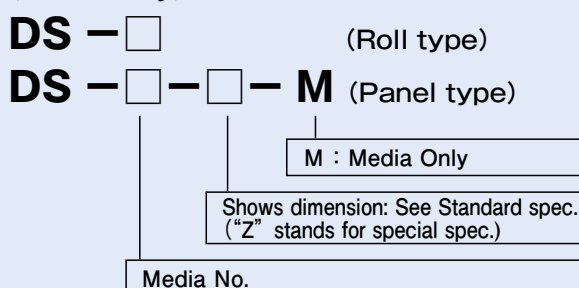


Model number

(Frame+Media)



(Media Only)



Media (Roll type)

Model name	Material	Dimension (m) W×L	Thickness (mm)	Air velocity (m/sec)	Pressure drop (Pa)		Efficiency		Re-condition	Incom bustibility
					Initial	Final	EN/ASHRAE 52.2	Gravimetric efficiency (%)		
DS-150	Polyester	1.6x30	7	2.5	29	147	G1*/MERV1*	57	○	○
DS-300	Polyester	1.6X30	10	2.5	49	196	G2*/MERV3*	72	○	○
DS-400	Polyester Modacrylic fiber	1.6x20	13	2.5	59	196	G2*/MERV5	76	○	○
DS-600	Polyester Modacrylic fiber	1.6x20	18	2.5	88	196	G3*/MERV5	82	○	○
DS-340	Polyester	1.6x20	20	2.5	49	196	G2*/MERV4*	75	×	○
DS-340R	Polyester	1.6x20	20	2.5	59	196	G3*/MERV6	85	×	○
DS-465	Polyester Modacrylic fiber	1.6x20	15	1.7	74	196	G3*/MERV5*	80	○	○
DS-315TS	Polyester	1.6x20	19	0.5/0.7	45/63	392	G4*/MERV7*	98	×	○

*Equivalent grade

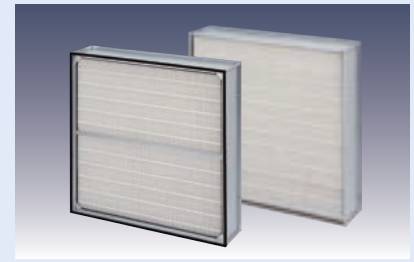
Standard specification

Model name	Dimension (mm) H×W×D	Rated air volume (m ³ /min)	Pressure drop (Pa)		Efficiency		Weight (kg)
			Initial	Final	EN/ASHRAE 52.2	Gravimetric efficiency (%)	
DS-150-22-REA-10	500x500x10	37	29	147	G1*/MERV1*	57	0.9
DS-150-31-REA-10	610x610x10	56					1.1
DS-150-31H-REA-10	610x305x10	28					0.7
DS-300-22-REA-12	500x500x12	37	49	196	G2*/MERV3*	72	0.9
DS-300-31-REA-12	610x610x12	56					1.2
DS-300-31H-REA-12	610x305x12	28					1.0
DS-400-22-REA-15	500x500x15	37	59	196	G2*/MERV5	76	0.9
DS-400-31-REA-15	610x610x15	56					1.3
DS-400-31H-REA-15	610x305x15	28					0.8
DS-600-22-REA-20	500x500x20	37	88	196	G3*/MERV5	82	1.0
DS-600-31-REA-20	610x610x20	56					1.4
DS-600-31H-REA-20	610x305x20	28					0.8
DS-600-22-REA-25	500x500x25	37	88	196	G3*/MERV5	82	1.0
DS-600-31-REA-25	610x610x25	56					1.4
DS-600-31H-REA-25	610x305x25	28					0.8

*Equivalent grade

LELFI

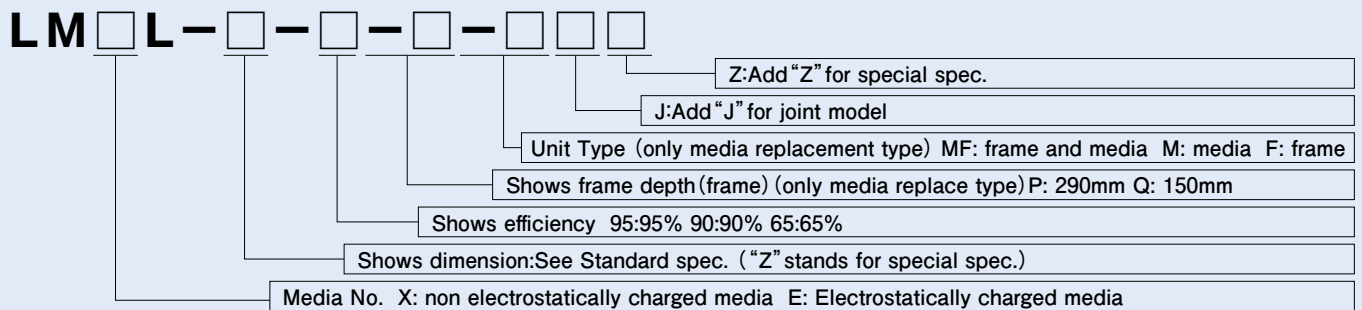
(Super low pressure drop medium filter)



Features

- Low pressure drop
- High air volume
- Long service life
- Thin design

Model



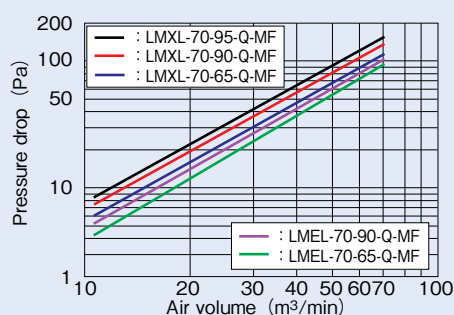
Standard specification (sample)

Main application	Model name (are media replace type)	Dimension (mm) H × W × D	Air volume (m³/min)	Pressure drop (Pa)		Efficiency			Weight (kg)	
				Initial	Final	EN/ ASHRAE 52.2	0.4 μm (%)	0.7 μm (%)	Media changeable type	Seal type
Air conditioning for clean rooms (Non electrostatically charged)	LMXL-70-95 (-Q-MF)	610x610x150	70 (56)	150 (110)	294	F7*/MERV13	85	95	5.0	4.5
	LMXL-70H-95 (-Q-MF)	610x305x150	35 (28)						3.0	2.5
	LMXL-70-90 (-Q-MF)	610x610x150	70 (56)	135 (100)		F7*/MERV13	80	90	5.0	4.5
	LMXL-70H-90 (-Q-MF)	610x305x150	35 (28)						3.0	2.5
	LMXL-70-65 (-Q-MF)	610x610x150	76 (56)	110 (75)		M5*/MERV9	55	65	5.0	4.5
	LMXL-70H-65 (-Q-MF)	610x305x150	35 (28)						3.0	2.5
Air conditioning for buildings (Electrostatically charged)	LMEL-70-90 (-Q-MF)	610x610x150	70 (56)	105 (73)	294	F7*/MERV13	80	90	5.0	4.5
	LMEL-70H-90 (-Q-MF)	610x305x150	35 (28)						3.0	2.5
	LMEL-70-65 (-Q-MF)	610x610x150	70 (56)	95 (60)		M5*/MERV11	55	65	5.0	4.5
	LMEL-70H-65 (-Q-MF)	610x305x150	35 (28)						3.0	2.5

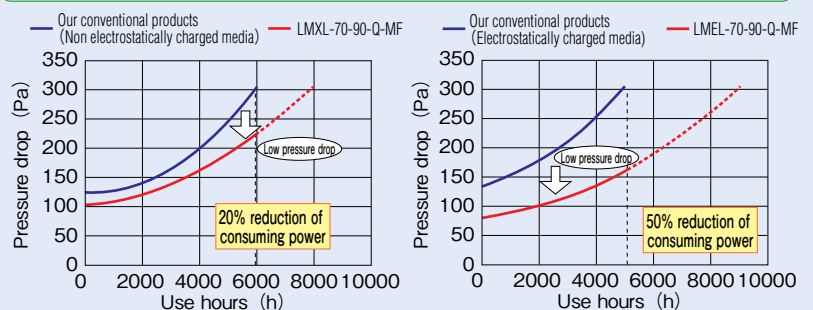
Materials and Operating conditions

Materials						Operating conditions	
Frame		Media	Reinforcement material	Floor material	Sealant	Gasket	Temperature
Media changeable type	Seal type						
Galvanized sheet iron	Aluminum	Non-woven fabric	Synthetic resin	Media changeable type Urethane foam	Seal type Polyurethane	EPDM	<60°C
							Humidity <95%RH

Air Volume vs. Pressure drop (representative value)



Comparison with the conventional product (an example of pressure drop transit)



Atomos Perfect Filter

(Standard type HEPA filter)

※ Low gas emission type is also available.



Model

(1) Plywood frame

ATM — — —

Z : Add "Z" for special spec.

Material code: Shows material-temperature table.

Shows frame depth
P: 290mm Q: 150mm R: 75mm

Rated air volume: See Standard spec. ("Z" stands for special spec.)

(2) Extruded aluminum frame

ATM — — **E**

Z : Add "Z" for special spec.

Frame code
E42: Depth 290mm E4: Depth 150mm E23: Depth 75mm

Rated air volume: See Standard spec. ("Z" stands for special spec.)

Standard specification (sample)

Model	Dimension (mm) H×W×D	Rated air volume (m ³ /min)	Pressure drop (Pa)		Collection efficiency (%)	Weight (kg)
			Initial	Final		
ATM — 3 — P —	200 × 200 × 290	3	245	490	99.97 at 0.3 μm	3.5
ATM — 8 — P —	305 × 305 × 290	8				5.5
ATM — 22 — P —	500 × 500 × 290	22				10.5
ATM — 31 — P —	610 × 610 × 290	31				14.0
ATM — 39 — P —	610 × 760 × 290	39				16.5
ATM — 48 — P —	610 × 915 × 290	48				19.0
ATM — 1.5 — Q —	200 × 200 × 150	1.5				2.0
ATM — 4 — Q —	305 × 305 × 150	4				3.0
ATM — 17 — Q —	610 × 610 × 150	17				7.0
ATM — 21 — Q —	610 × 760 × 150	21				8.5
ATM — 26 — Q —	610 × 915 × 150	26				10.0
ATM — 34 — Q —	610 × 1220 × 150	34				12.5

Materials and Operating conditions

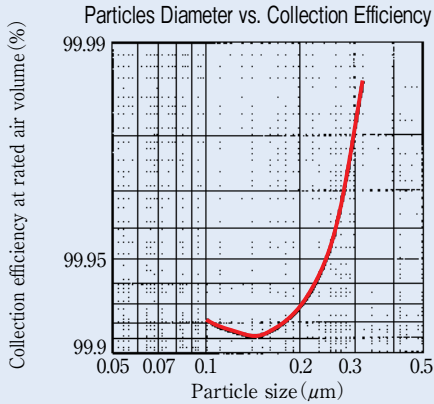
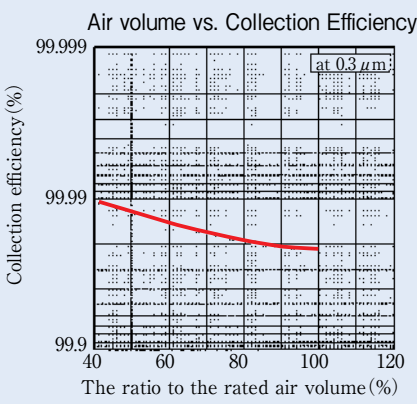
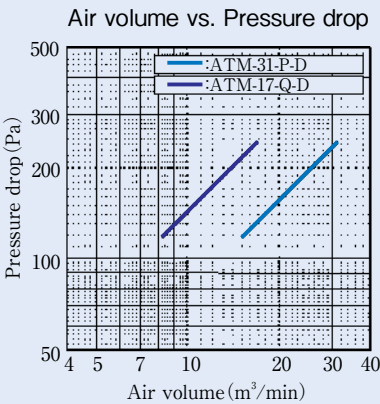
Materials or frame code	Materials					Operating conditions	
	Frame	Media	Separator	Sealant	Gasket	Temperature	Humidity
A	Plywood	Glass Paper	Special processed paper	Polyurethane	Chloroprene	< 60°C	< 85%RH
D	Plywood	Glass Paper	Aluminum	Polyurethane	Chloroprene		< 95%RH
※	Extruded aluminum	Glass Paper	Aluminum	Polyurethane	Chloroprene		

※ E42: 290mm E4: 150mm

Dimension Available

Depth (mm)	Height (mm)	Width (mm)
290, 150, 75	150 ~ 760	150 ~ 1500

Performance



Atomos Compact filter

(Large air volume type HEPA filter)

※ Low gas emission type is also available.



Model

(1) Plywood frame

ATMC — — —

Z : Add "Z" for special spec.
T : For large air volume type with 290mm depth
Material code: Refer to material-temperature table.
Shows frame depth
P: 290mm Q: 150mm R: 75mm
Rated air volume: See Standard spec. ("Z" stands for special spec.)

(2) Extruded aluminum frame

ATMC — — **E**

Z : Add "Z" for special spec.
T : For large air volume type with 290mm depth
Frame code E48: Depth 290mm (for large air volume type)
E42: Depth 290mm E4: Depth 150mm E23: Depth: 75mm
Rated air volume: See Standard spec. ("Z" stands for special spec.)

Standard Specification (sample)

Class	Model	Dimension (mm) H × W × D	Rated air volume (m ³ /min)	Pressure drop (Pa)		Collection efficiency (%)	Weight (kg)
				Initial	Final		
Standard	ATMC — 41 — P —	610 × 610 × 290	41	249	498	99.97 at 0.3 μm	16.0
	ATMC — 51 — P —	610 × 760 × 290	51				19.0
	ATMC — 28 — Q —	610 × 610 × 150	28				8.5
	ATMC — 34 — Q —	610 × 760 × 150	34				10.0
	ATMC — 17 — R —	610 × 610 × 75	17				4.5
	ATMC — 21 — R —	610 × 760 × 75	21				5.0
Large air volume	ATMC — 50 — P — T	610 × 610 × 290	50	249 ± 20			16.0
(special separator)	ATMC — 62 — P — T	610 × 760 × 290	62				19.0
Large air volume ※	ATMC — 56 — E48T	610 × 610 × 290	56				16.0

※ For large air volume type, plywood frame is not available.

Materials and Operating conditions

Materials or frame code	Materials					Operating conditions	
	Frame	Media	Separator	Sealant	Gasket	Temperature	Humidity
A	Plywood	Glass Paper	Special processed paper	Polyurethane	Chloroprene	< 60℃	< 85%RH
D	Plywood	Glass Paper	Aluminum	Polyurethane	Chloroprene		< 95%RH
※	Extruded aluminum	Glass Paper	Aluminum	Polyurethane	Chloroprene		

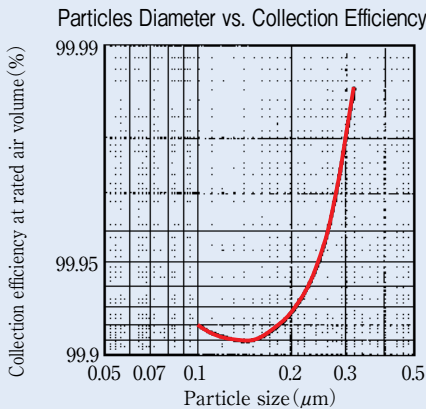
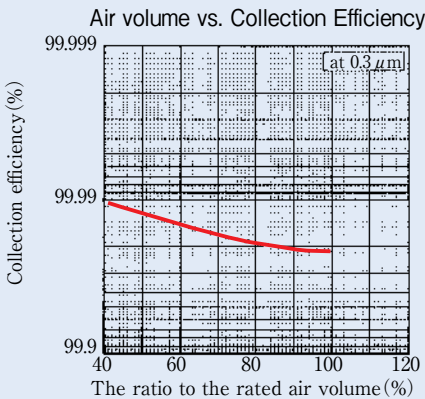
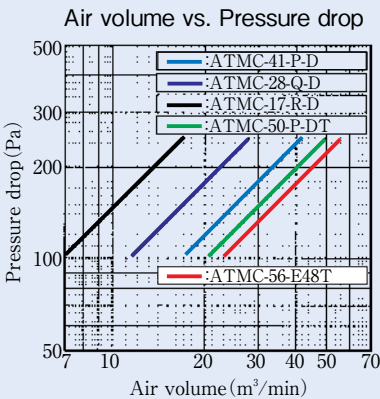
※ E42: Depth 290mm E4: Depth 150mm E23: Depth 75mm E48: Depth 290mm (for large air volume)

Dimension Available

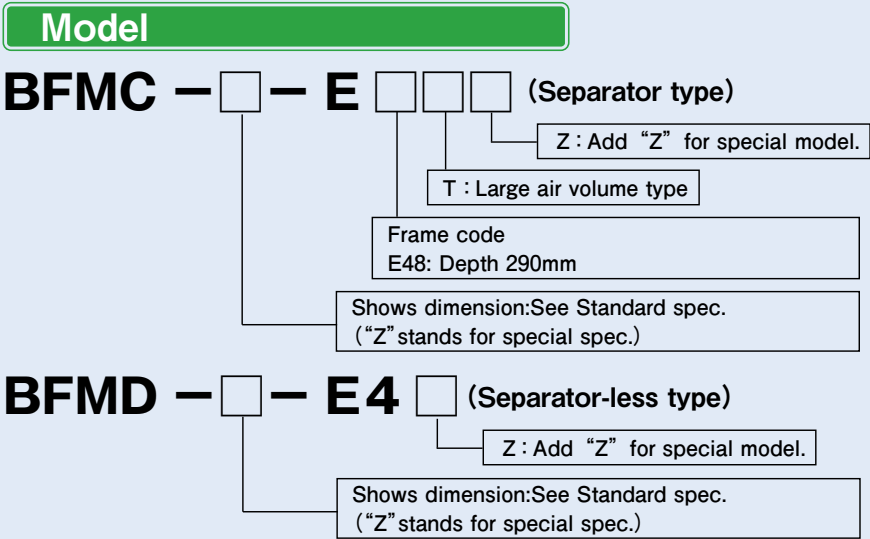
Depth (mm)	Height (mm)	Width (mm)
290, 150, 75	150 ~ 760	150 ~ 1500

※ AT: Height dimension 150-610 (mm) , Large volume type: Height dimension 150-740 (mm) , Width dimension 150-1000 (mm)

Performance



Ultra Low Pressure drop Long Life Fluororesin Composite Membrane HEPA Filter Series



- Features
- (1) Achieving both ultra-low pressure drop and long life

(2) Boron-free

(3) Acid resistance
- Energy saving !!

Standard specification

Model name	Dimension (mm) H×W×D	Rated air volume (m/s)	Pressure drop (Pa)		Efficiency (%)	Weight (kg)
			Initial	Final		
BFMC – 56 – E48T	610 × 610 × 290	56	185±20	434	99.99	Approx.13.0
BFMC – 56H – E48T	610 × 305 × 290	26				Approx.8.0
BFMD – 28 – E4	610 × 610 × 150	28	115	364		Approx.6.5
BFMD – 28H – E4	610 × 305 × 150	13				Approx.8.0

※ Scan-testable.

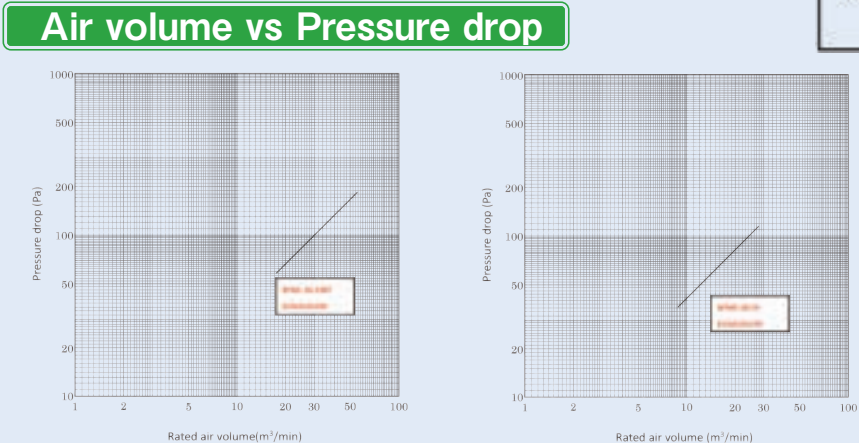
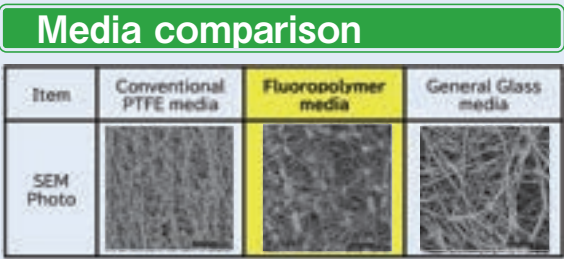
Materials and Operating conditions

Materials name	Materials					Operating conditions	
	Media	Frame	Separator	Sealant	Gasket	Temperature	humidity
BFMC	Fluororesin composite membrane	Aluminum	Aluminum	Polyurethane	EPDM	< 60℃	< 95%RH
BFMD			Polyurethane resin				

※ Material options available

Dimension Available

	Depth (mm)	Hight (mm)	Width (mm)
BFMC	290	150 ~ 610	150 ~ 760
BFMD	150	305 ~ 610	305 ~ 760



Ultra Low Pressure drop Long Life Fluororesin Composite Membrane HEPA Filter Series

Model

BFML

—

—

E

(Mini Pleats type)

Z : Add "Z" for special model.

Frame code

E38: Depth 98mm E23: Depth 75mm E41: Depth 65mm

E25: Depth 50mm E44: Depth 37mm

Rated air vlume : See Standard spec.

("Z"stands for special spec.)



Features

- (1) Achieving both ultra-low pressure drop and long life
- (2) Boron-free
- (3) Acid resistance

Energy saving !!

Standard specification

Model name	Dimension (mm) H×W×D	Rated face velocity (m/s)	Rated air volume (m ³ /min)	Pressure drop (Pa)		Efficiency (%)	Weight (kg)
				Initial	Final		
BFML — 10 — E38	610 × 610 × 98	0.5	44	44	254	99.99	Approx.4.5
BFML — 10 — E23	610 × 610 × 75		56	56			Approx.4.0
BFML — 10 — E41	610 × 610 × 65		62	62			Approx.3.5
BFML — 10 — E25	610 × 610 × 50		66	66			Approx.3.0
BFML — 7 — E44	610 × 610 × 37	0.35	60	60			Approx.2.0

※ Scan-testable.

Materials and Operating conditions

Materials					Operating conditions	
Media	Frame	Separator	Sealant	Gasket	Temperature	humidity
Fluororesin composite membrane	Alminum	Polyurethane resin	Polyurethane	EPDM	< 60℃	< 95%RH

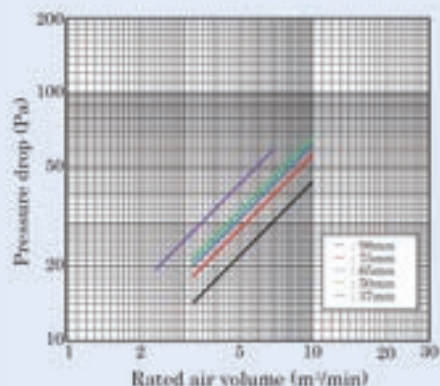
※ Material options available

Dimension Available

Height (mm)	Width (mm)
150 ~ 1220	150 ~ 1500

※ Connected specification applies for height over 760mm.

Air volume vs Pressure drop



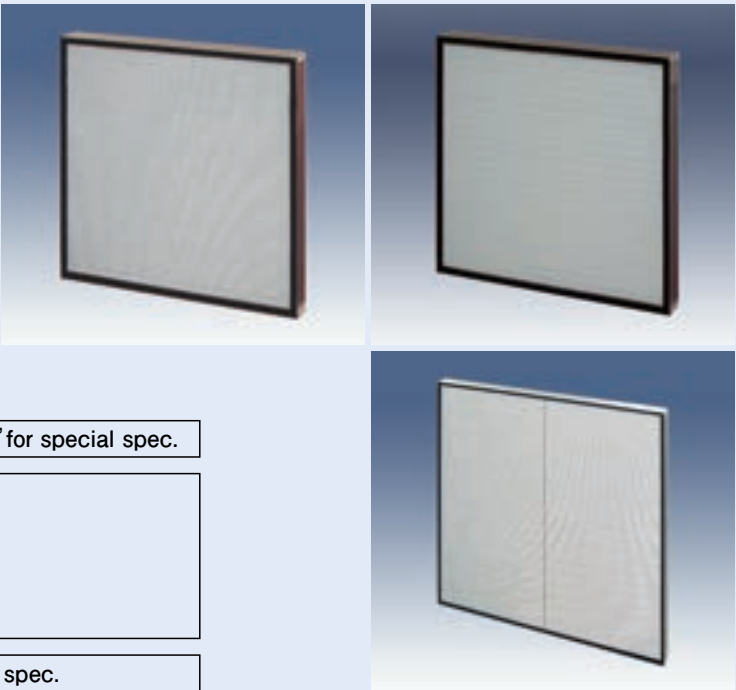
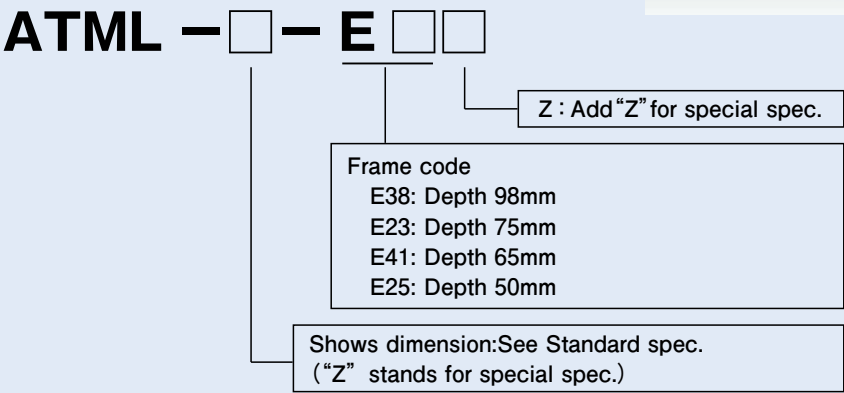
Media comparison

Item	Conventional PTFE media	Fluoropolymer media	General Glass media
SEM Photo			

Atomos ATML filter (HEPA filter)

※ Low gas emission type is also available.

Model



Standard specification (sample)

Model	Dimension (mm) H × W × D	Air velocity (m/s)	Rated air volume (m³/min)	Pressure drop (Pa)		Collection efficiency (%)	Weight (kg)
				Initial	Final		
ATML – 10 – E38	610 × 610 × 98	0.5	10.0	84	294	99.99 at 0.3 μ m	4.5
ATML – 20 – E38	610 × 1220 × 98		20.5				8.0
ATML – 10 – E23	610 × 610 × 75		10.0	88			4.0
ATML – 20 – E23	610 × 1220 × 75		20.5				7.0
ATML – 10 – E41	610 × 610 × 65		10.0	98			3.5
ATML – 20 – E41	610 × 1220 × 65		20.5				6.0
ATML – 10 – E25	610 × 610 × 50		10.0	127			3.0
ATML – 20 – E25	610 × 1220 × 50		20.5				5.0

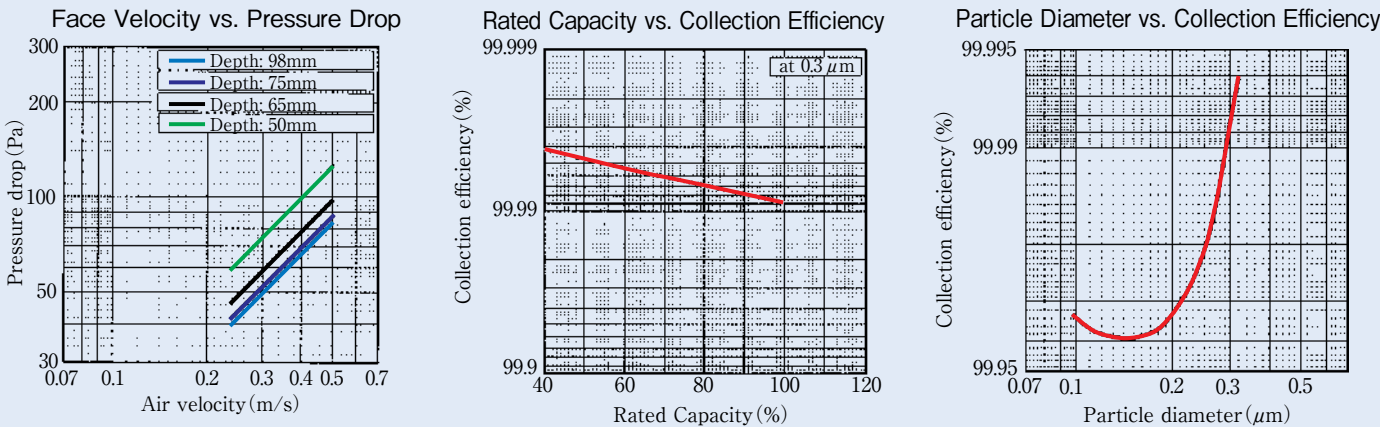
※ All model is approved by FM standard (Same performance)

Dimension available

Height (mm)	Width (mm)
150 ~ 1220	150 ~ 1500

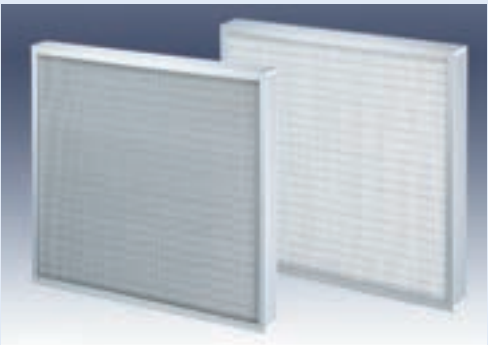
※ Faceguard should be on downstream side for reinforcement when filter height is between 916mm and 1220mm.

Performance

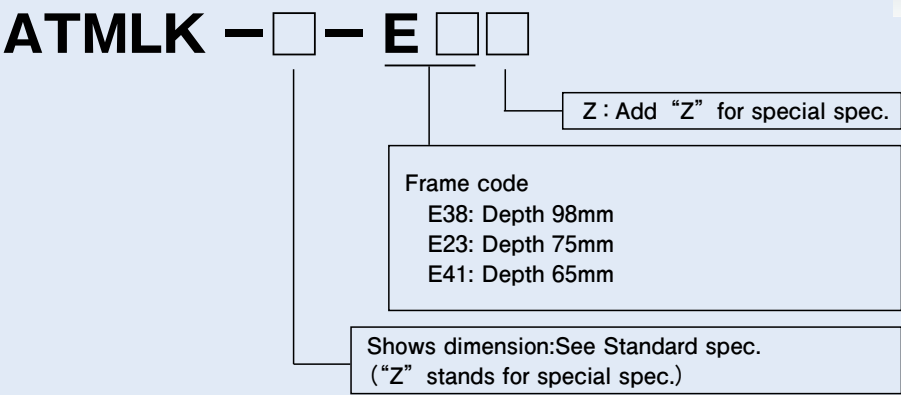


Large air volume minipleats ATMLK filter

(Large air volume minipleats HEPA filter)



Model



Features

- Delivers approximately three times the air volume of ATML at the same size
- Achieves a collection efficiency of 99.99%
- Equipped with a metal mesh as standard

Standard specification (sample)

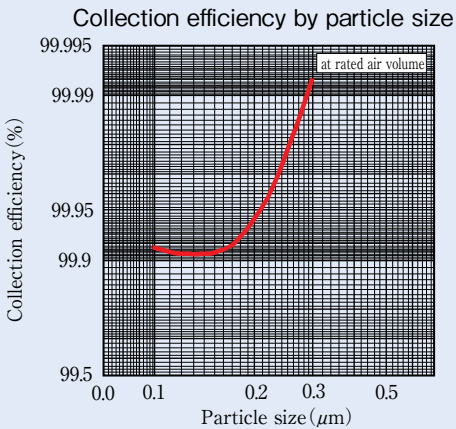
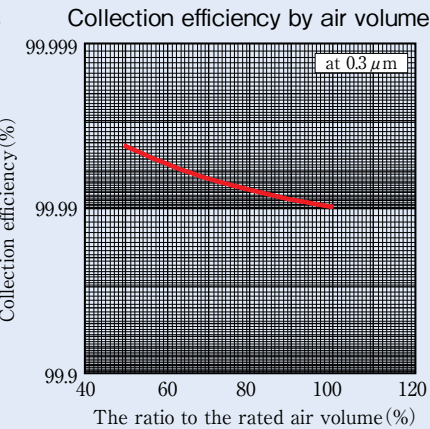
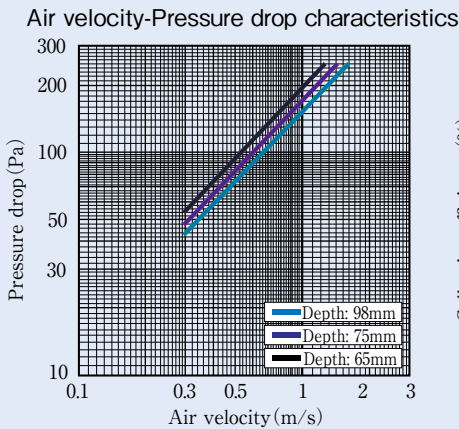
Model	Dimension (mm) H×W×D	Rated air speed (m/s)	Rated air volume (m³/min)	Pressure drop (Pa)		Collection efficiency (%)	Weight (kg)
				Initial	Final		
ATMLK – 32 – E38	610 × 610 × 98	1.61	32.0	245	498	99.99 at 0.3 μm	5.0
ATMLK – 28 – E23	610 × 610 × 75	1.43	28.0				4.0
ATMLK – 25 – E41	610 × 610 × 65	1.28	25.0				3.5

※ Available for metal mesh on the downstream side only.

Dimension Available

Height (mm)	Width (mm)
150 ~ 610	150 ~ 1220

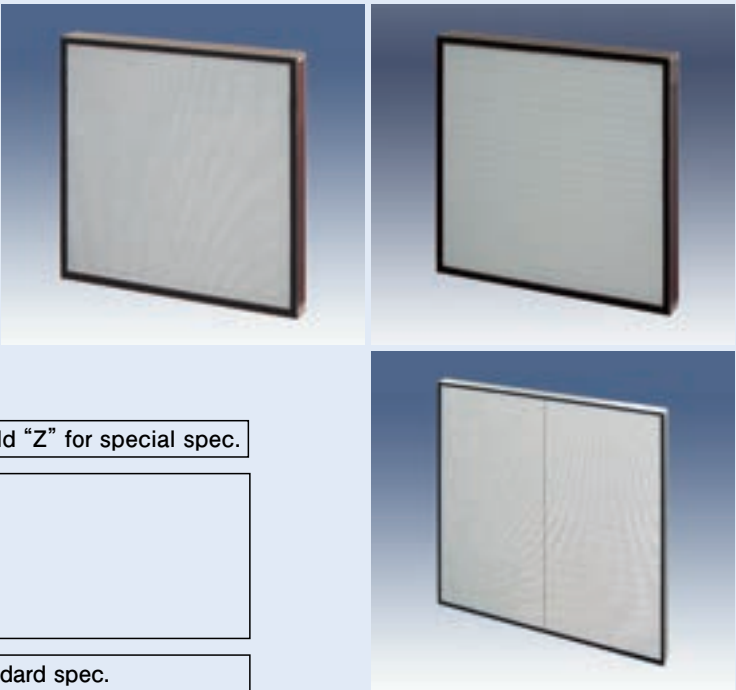
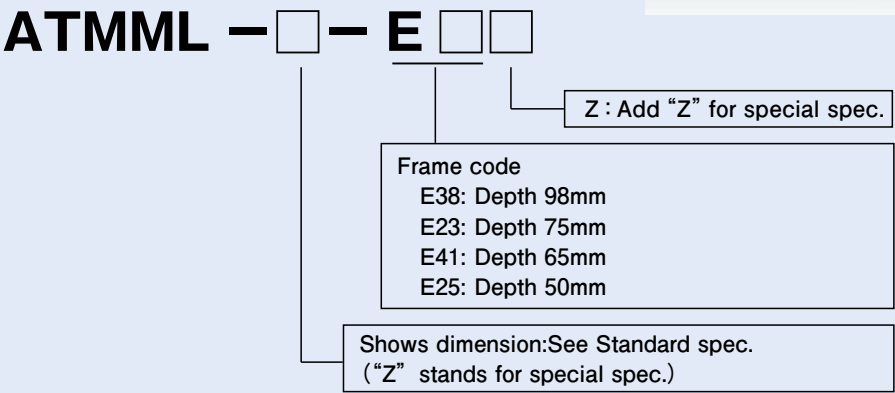
Performance



Atomos ATMML filter (ULPA filter)

※ Low gas emission type is also available.

Model



Standard specification (sample)

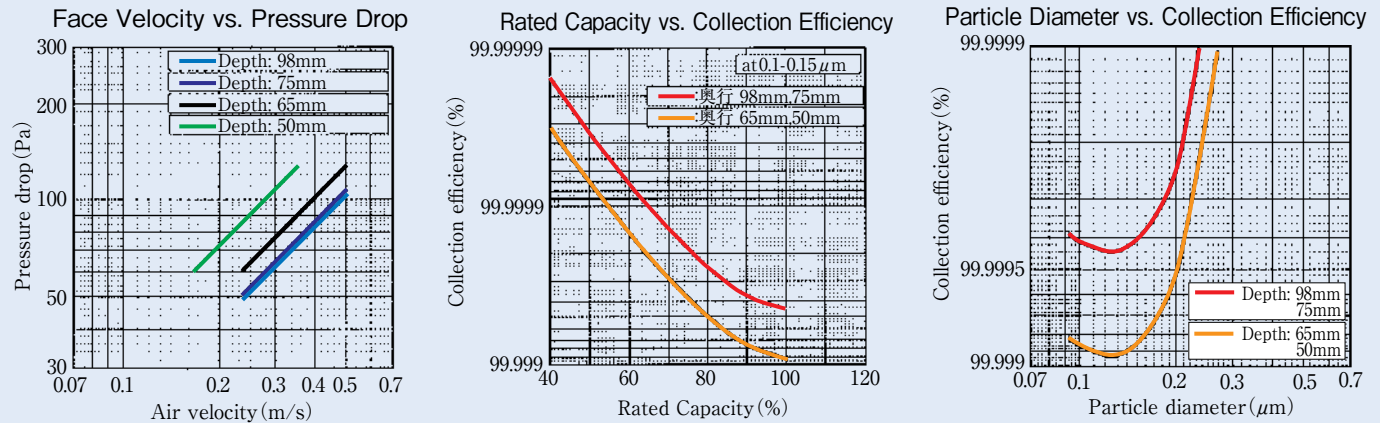
Model	Dimension (mm) H × W × D	Rated air speed (m/s)	Rated air volume (m³/min)	Pressure drop (Pa)		Collection efficiency (%)	Weight (kg)	
				Initial	Final			
ATMML – 10 – E38	610 × 610 × 98	0.5	10.0	103	294	99.9995 at 0.1·0.15 μ m	4.5	
ATMML – 20 – E38	610 × 1220 × 98		20.5				8.0	
ATMML – 10 – E23	610 × 610 × 75		10.0	108			4.0	
ATMML – 20 – E23	610 × 1220 × 75		20.5				7.0	
ATMML – 10 – E41	610 × 610 × 65		10.0	128		99.999 at 0.1·0.15 μ m	3.5	
ATMML – 20 – E41	610 × 1220 × 65		20.5				6.0	
ATMML – 7 – E25	610 × 610 × 50	0.35	7.0				3.0	
ATMML – 14 – E25	610 × 1220 × 50		14.5				5.0	

Dimension available

Height (mm)	Width (mm)
150 ~ 1220	150 ~ 1500

※ Faceguard should be on downstream side for reinforcement when filter height is between 916mm and 1220mm.

Performance



PureSmell filter

(for AHU/MAU, EX processing)



Model

PUR-

Add "Z" for special model

Media No. (※):See table below

Shows dimension:See standard spec. ("Z" stands for special spec.)

Standard specification

Model	Dimension (mm)		Rated air volume (m³/min)	Pressure drop (Pa)	Gas removal efficiency (%)	SV value	Adsorbent volume (L)
	Frame	Tray (element)					
PUR-56W - ※	610×610×630	590×600×45	56	approx.167/265	approx.90	29,000	116
PUR-56WH- ※	610×305×630	590×295×45	28				57
PUR-56 - ※	610×610×440	410×600×36	56	approx.118/196	approx.90	53,000	63
PUR-56H - ※	610×305×440	410×295×36	28				31
PUR-28 - ※	610×610×230	205×600×33	28	approx.78/127	approx.90	60,000	29
PUR-28H - ※	610×305×230	205×295×33	14				14

- 1 : With pre/after filter model is available.
- 2 : Dimension available (HxW): 610x610, 610x305, 305x610 and 305x305
- 3 : Pressure: drop is depend on type of adsorbent. (Pellet/Grain)
- 4 : Removal efficiency is influenced by air volume, target gases and temperature.
- 5 : Model " PUR-56W" is long-lifetime model which has about 1.8times much volume than " PUR-56". This model is suitable to remove high concentration gases or use with mixed adsorbent.

Types of adsorbent and target gases

Absorbent	Additive	Base Material	Type	Target gases
E3	Potassium permanganate	Activated alumina	Pellet	Nitric oxide (NO), Sulfur oxide (SOx)
E5H		High refined Activated carbon	Grain	Sulfur oxide (SOx), Nitrogen dioxide (NO ₂) Sulfur compound (Methyl sulfide, Methyl mercaptan)
F	Phosphoric acid	Zeolite	Pellet	Basic gases such as Ammonia, Amine etc.
F4H		High refined Activated carbon	Grain	
A2	Calcium hydroxide	Zeolite	Pellet	Acid gases such as Hydrochloric acid,Nitric acid,Sulfuric acid,Acetic acid etc.
A3H	Potassium carbonate	High refined Activated carbon	Grain	Acetic acid (SO ₄ ²⁻ , Cl ⁻ , NO ₃ ⁻ , F ⁻ etc), Sulfur oxide (SOx), Sulfur compound (Hydrogen sulfide,Methyl sulfide,Methyl mercaptan)
O2	Manganese dioxide	Activated carbon	Pellet	Ozone,Chlorine,Organic solvent,Nitrogen dioxide (NO ₂)
C	-	Activated carbon	Grain	Organic gases (Organic solvent) Nitrogen oxide

Filter media (adsorbent) appearance

Adsorbent	E3	E5H,F4H,A3H,C	F,A2	O2
Color phase	Purple	Black	White	Black
Photo				

Materials and Operating conditions

Materials			Operating conditions	
Frame	Tray (element)	Media	Temperature	Humidity
Steel Plate (melamine baking paint)	Steel Plate (melamine baking paint)	Special absorbent	0~40℃	30~90%RH

Weight (representative value)

Model	Filter weight (kg)						Adsorbent weight (kg)					
	O2	E5H, C	A3H	E3, F4H	A2	F	O2	E5H, C	A3H	E3, F4H	A2	F
PUR-56W ※	128	134	139	157	163	171	47	52	58	75	81	90
PUR-56WH ※	74	77	80	88	91	95	23	26	29	37	40	44
PUR-56 ※	74	77	80	90	93	97	25	28	32	41	44	49
PUR-56H ※	43	45	46	51	52	55	13	14	16	20	22	24
PUR-28 ※	39	41	42	47	48	50	12	13	14	19	20	22
PUR-28H ※	24	24	25	27	28	29	5	6	7	9	10	11

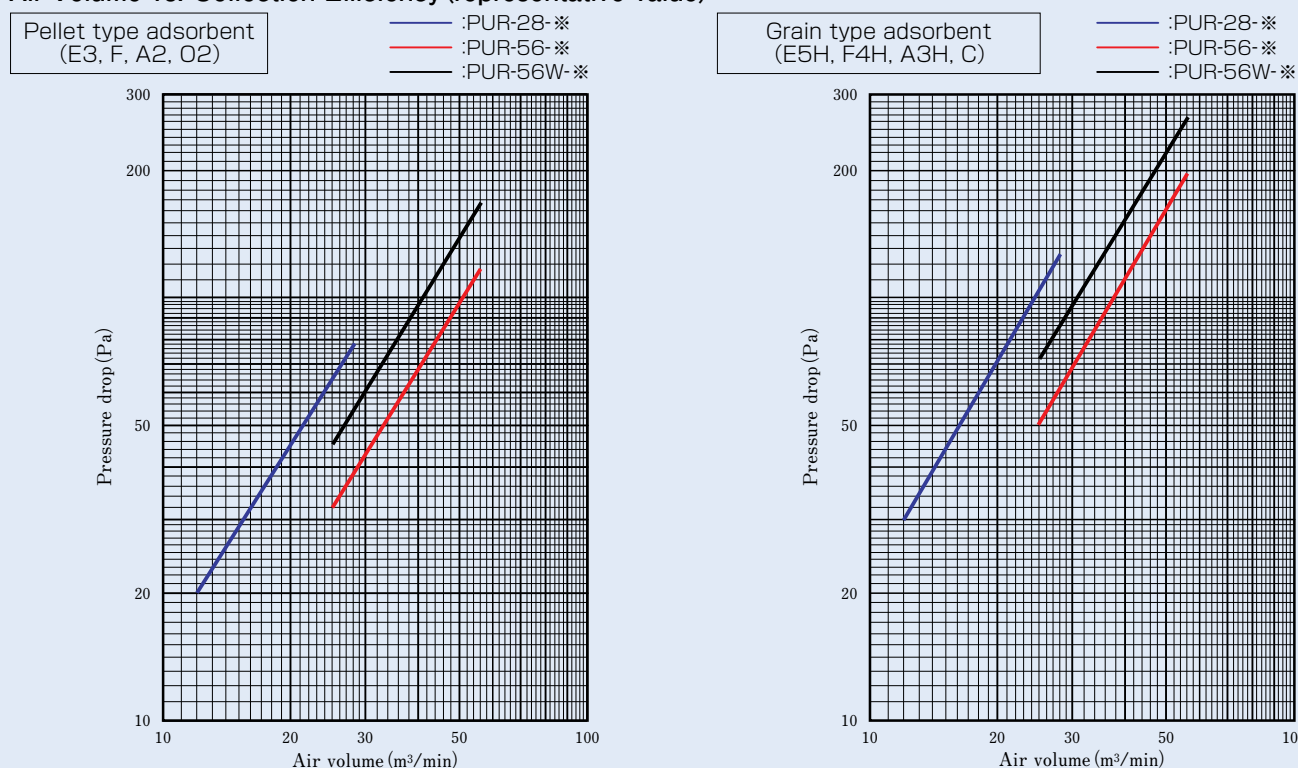
Specification

Gas removal efficiency

Type	Typical gases	E3	E5H	F	F4H	A2	A3H	O2	C
Acid gas	F ⁻ , CL ⁻ , NO ₂ ⁻ , NO ₃ ⁻ , SO ₄ ²⁻	○	○	—	—	◎	◎	—	—
Nitric oxide	NO	◎	—	—	—	—	—	—	—
Nitrogen dioxide	NO ₂	—	○	—	—	—	○	○	○
Sulfur dioxide	SO ₂	△	◎	—	—	△	○	—	—
Hydrogen sulfide	H ₂ S	—	○	—	—	△	◎	—	—
Boron	B H ₃ BO ₃	—	○	—	—	—	○	—	—
Basic gas	NH ₃ , NH ₄ ⁺ Na ⁺ , K ⁺	—	—	○	◎	—	—	—	—
Organic gases	Low boiling point gases like toluene	—	—	—	—	—	—	○	◎
Organic gases	High boiling point gases like DOP	—	○	—	△	—	○	○	◎
Chlorine	CL ₂	—	△	—	—	—	△	◎	—
Ozone	O ₃	—	△	—	—	—	△	◎	○

◎:Very effective ○:Effective △:Removable —:Scarcely removable

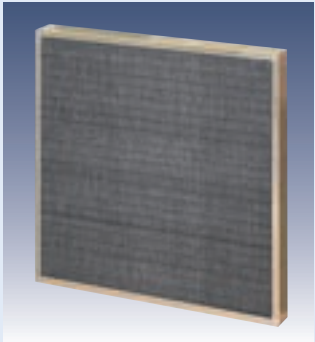
Air Volume vs. Collection Efficiency (representative value)



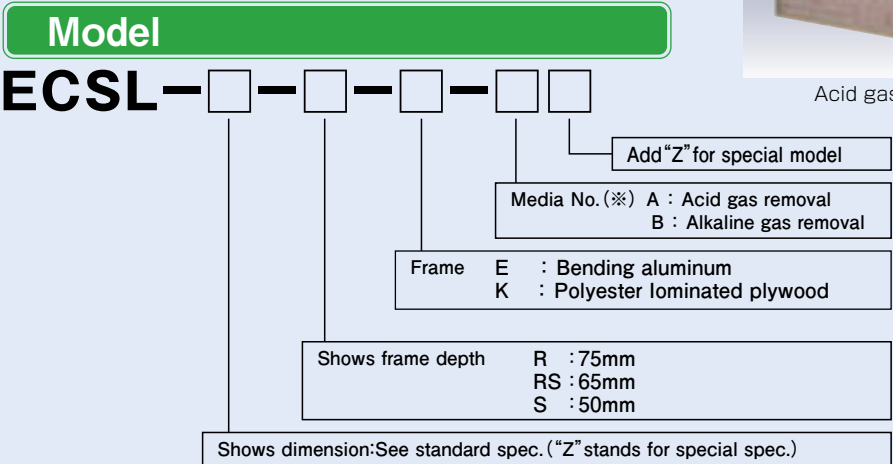
lochemix
(for RA processing /
Ion exchange resin media type)



Acid gas removal



Basic gas removal



Standard specification

Model	Dimension (mm) Sealant H×W×D	Rated air volume (m³/min)	Rated face velocity (m/s)	Pressure drop (Pa)	Gas removal efficiency (%)	Weight (kg)
ECSL-10-R -E-※	610×610×75	10	0.5	approx.35	About 90	6.0
ECSL-10-RS-E-※	610×610×65			approx.20		5.0
ECSL- 7-S -E-※	610×610×50	7	0.35	approx.12		4.5

※ Gas removal efficiency varies according to the used airspeed, type of gas being removed and temperature, so consult for specific situations.

Materials and Operating conditions

Materials				Operating conditions	
Frame	Media	Spacer	Sealant	Temperature	Humidity
Aluminum	Ion exchange resin	Hot melt	Polyurethane resin	0~40℃	30~90%RH

Dimension available

Depth (mm)	Height (mm)	Width (mm)
50, 65, 75	150~1,220*	1,500

* Filters with a height exceeding 760 mm will feature a two-piece connected design.

Media type and target gases

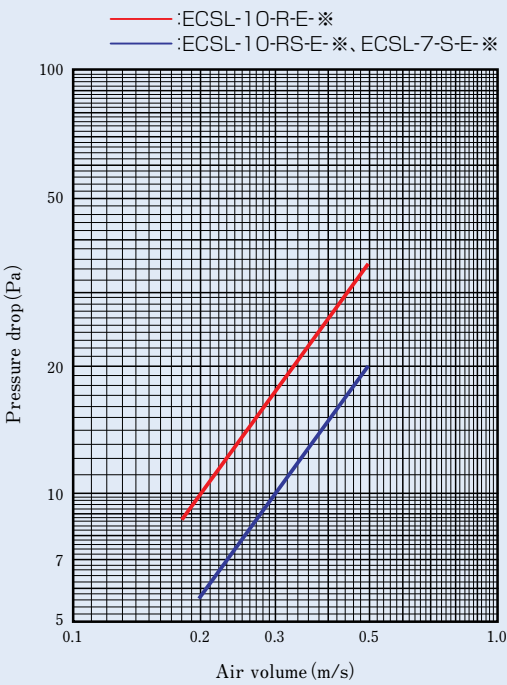
Media Type	Media		Target gases	
	Base material	Ion exchange group	Type	Example
A	Polystyrene resin	Quaternary ammonium group	Acid gas	Sulfur oxide (SOx) , Hydrochloric acid, Hydrofluoric acid
B	Polystyrene resin	Sulfone acid group	Basic gas	Ammonia, Amine

Specification

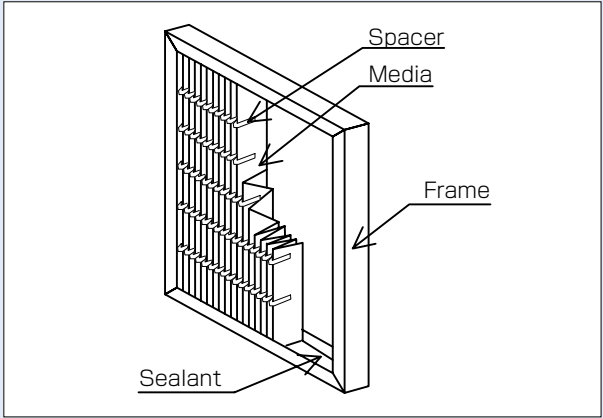
Gas removal efficiency (Sample)

Type		Element		Concentration (μg/m³)		Efficiency (%)	Measuring method
		Name	Chemical formula	Up Stream	Down Stream		
A	Acid gas	Chloride Ion	CL ⁻	3.7	0.3	92	IC
		Nitrite Ion	NO ₂ ⁻	4.8	0.8	83	
		Nitrate Ion	NO ₃ ⁻	1.2	0.3	75	
		Sulfate Ion	SO ₄ ²⁻	3.3	0.2	94	
		Boron	B	0.6	0.03	95	ICP-MS
B	Basic gas	Ammonium Ion	NH ₄ ⁺	4.5	0.15	97	IC

Face Velocity vs. Pressure Drop (representative value)

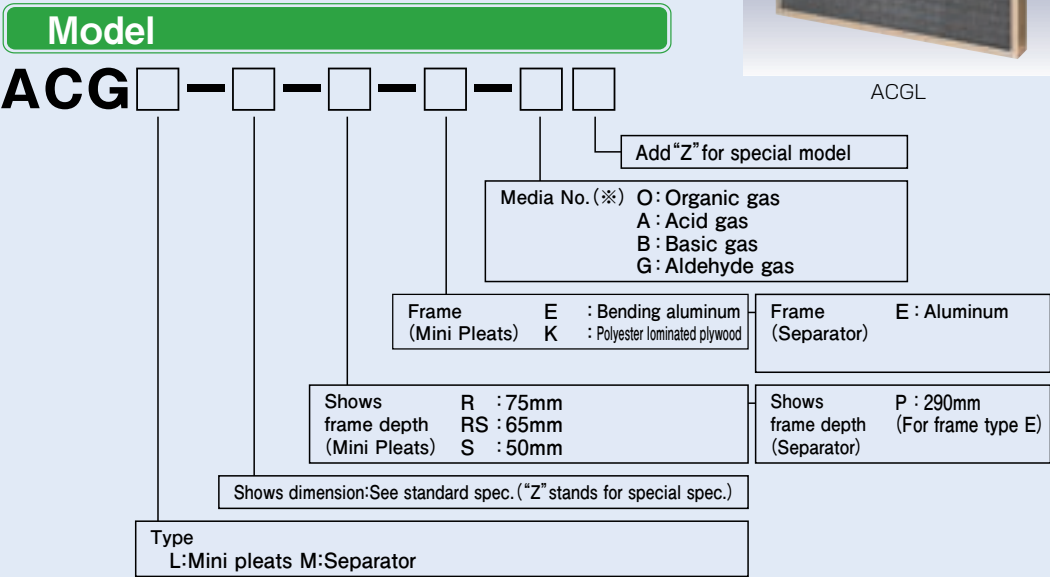
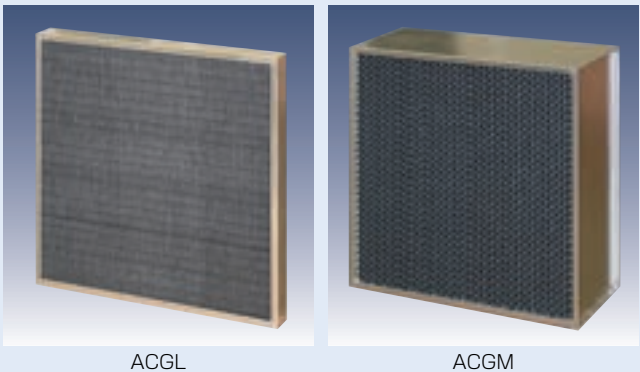


Structure drawing of filter (Mini pleats type)



PureChemix G

(for RA processing /
Granular activated carbon media type)



Standard specification

Type	Model	Dimension (mm) H×W×D	Rated face velocity (m/s)	Rated air volume (m³/min)	Pressure drop (Pa)	Gas removal efficiency (%)	Weight (kg)
Mini Pleats	ACGL-10-R -E-※	610× 610× 75	0.5	10	About 40	About 90	5.5
	ACGL-20-R -E-※	610×1220× 75		20			10.5
	ACGL-10-RS-E-※	610× 610× 65		10	About 30		5.0
	ACGL-20-RS-E-※	610×1220× 65		20			9.5
	ACGL- 7-S -E-※	610× 610× 50	0.35	7	About 15		4.0
	ACGL-14-S -E-※	610×1220× 50		14			7.0
Separator	ACGM-56 -E42-※	610× 610×290	2.9	56	About 98	About 90	16.5
	ACGM-56H-E42-※	610× 305×290		28			9.5

※ Gas removal efficiency varies according to the used airspeed, type of gas being removed and temperature, so consult for specific situations.

Materials and Operating conditions

Type	Frame	Materials					Operating conditions	
		Frame	Media	Separator	Spacer	Sealant	Temperature	Humidity
Mini Pleats	E	Bending aluminum	Granular activated carbon	—	Hot melt	Polyurethane resin	0~40℃	30~90%RH
	K	Polyester laminated plywood						
Separator	E**	Extruded aluminum		Aluminum	—			

Dimension available

Type	Depth (mm)	Height (mm)	Width (mm)
Mini pleats	50, 65, 75	150~1,220*	1,500
Separator	290	150~ 610	915

* Filters with a height exceeding 760 mm will feature a two-piece connected design.

Media type and target gases

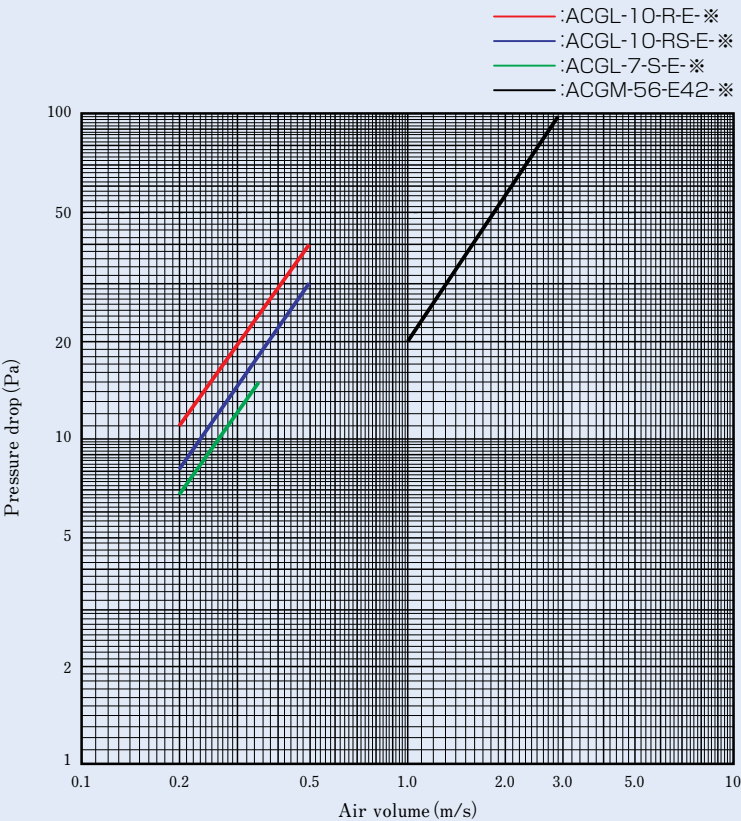
Media Type	Media		Target gases	
	Base material	Additive	Type	Example
O	Granular activated carbon	—	Organic gas	Phtharic ester (DOP, BBP)、Siloxane、OZ one、Phosphoric ester (TBP)、Teluene
A	Granular activated carbon	Potassium carbonate	Acid gas	Sulfar oxide (SOx)、Hydro chloric oxide、Hydrofluoric acid、Boron
B	Granular activated carbon	Phosphoric acid	Basic gas	Ammonia、Amine
G	Granular activated carbon	Special	Aldehyde gas	Formaldehyde、Acetaldehyde

Specification

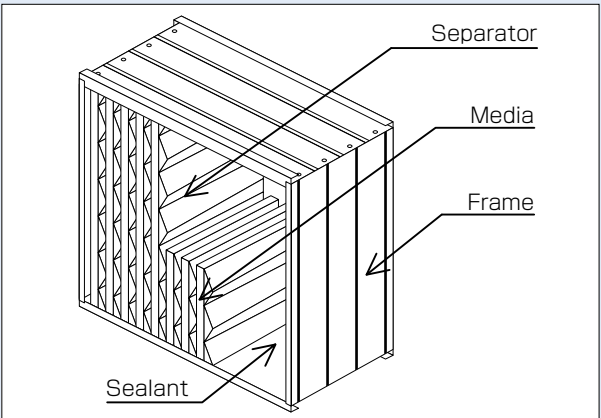
Gas removal efficiency (Sample)

Type		Element		Mini pleat			Separator			Measuring method
		Name	Chemical formula	Concentration (μg/m³)		Efficiency (%)	Concentration (μg/m³)		Efficiency (%)	
				Up Stream	Down Stream		Up Stream	Down Stream		
O	Organic gas	Organic substance	—	8.4	0.05	99	10.5	0.4	96	GC-MS
A	Acid gas	Fluoride ion	F ⁻	1.0	0.02	98	1.0	0.03	97	IC
		Nitrite ion	NO ₂ ⁻	0.5	<0.01	98<	0.6	0.01	98	
		Nitrate ion	NO ₃ ⁻	0.1	<0.01	90<	0.1	<0.01	90<	
		Sulfate ion	SO ₄ ²⁻	0.2	0.01	95	0.2	<0.01	95<	
		Boron	B	0.3	0.01	97	0.3	0.01	97	ICP-MS
		Acetic acid	CH ₃ COOH	9.3	0.20	98	8.9	0.28	97	IC
		Formic acid	HCOOH	0.15	<0.01	93<	0.12	<0.01	92<	
B	Basic gas	Ammonium ion	NH ₄ ⁺	3.5	<0.05	99<	4.5	0.15	97	HPLC
G	Aldehyde gas	Formaldehyde	HCHO	98	<1	99<	—	—	—	
		Acetaldehyde	CH ₃ CHO	48	<4	92<	—	—	—	

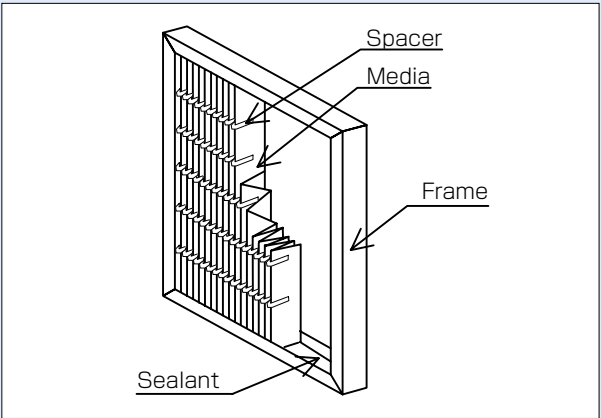
Face Velocity vs. Pressure Drop (representative value)



Structure drawing of filter (Separator type)

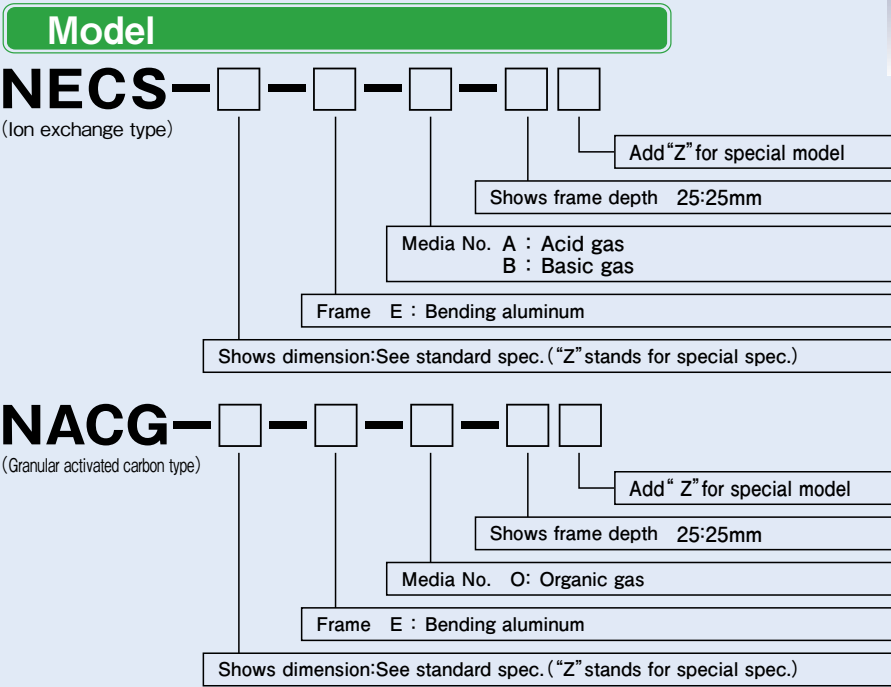
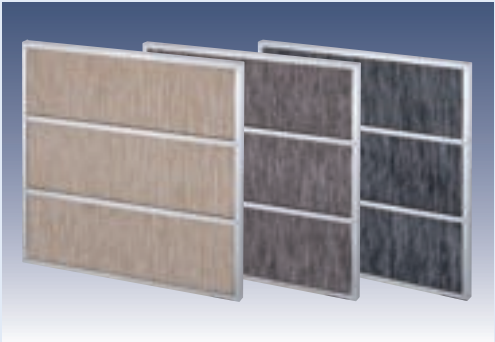


Structure drawing of filter (Mini pleats type)



Thin type molecular filter

(Thin type for processing circulation air)



Standard specification

Model	Dimension (mm) ^{※1} H×W×D	Rated face velocity (m/s)	Rated air volume (m³/min)	Pressure drop (Pa)	Gas removal efficiency ^{※2} (%)	Weight (kg)
NECS-7-E-A-25	610×610×25	0.35	7	approx.10	approx.90	approx.2.5
NECS-7-E-B-25	610×610×25	0.35	7	approx.10	approx.90	approx.2.5
NACG-7-E-O-25	610×610×25	0.35	7	approx.15	approx.90	approx.2.5
NACG-7-E-A-25	610×610×25	0.35	7	approx.15	approx.90	approx.2.5
NACG-7-E-B-25	610×610×25	0.35	7	approx.15	approx.90	approx.2.5
NACG-7-E-G-25	610×610×25	0.35	7	approx.15	approx.90	approx.2.5

※1 Other dimesions are available.
※2 Gas removal efficiency depends on air velocity, type and temperature of target gas.

Materials and Operating conditions

Materials			Operating conditions	
Media	Frame	Sealant	Temperature (°C)	Humidity (%/RH)
Granular activated carbon, Ion exchange resin	Aluminum	Polyurethane resin	0~40°C	30~90%/RH

Dimension available

Depth (mm)	Height (mm)	Width (mm)
25	150~610	150~760

Media type and target gases

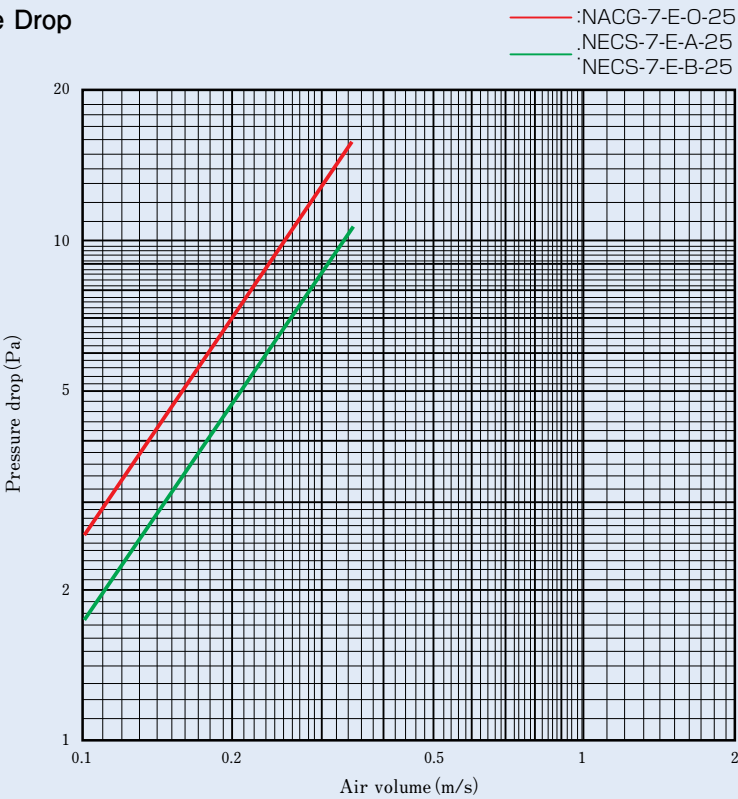
Media Type		Media		Target gases	
		Base material	Additive / Functional group	Type	Example
NECS	A	Polyethylene resin	Quaternary ammonium group	Acid gas	Sulfar oxide(SO _x) , Hydro chloric oxide, Hydrofluoric acid, Boron
	B	Polyethylene resin	Sulfone acid group	Basic gas	Ammonia, Amine
NACG	O	Granular activated carbon	—	Organic gas	Phtharic ester (DOP, BBP) , Siloxane, OZ one, Phosphoric ester (TBP) , Teluene
	A	Granular activated carbon	Potassium carbonate	Acid gas	Sulfar oxide(SO _x) , Hydro chloric oxide, Hydrofluoric acid, Boron
	B	Granular activated carbon	Phosphoric acid	Basic gas	Ammonia, Amine
	G	Granular activated carbon	Special adhesive	Aldehyde gas	Formaldehyde, Acetaldehyde, Toluene

Specification

Gas removal efficiency (Sample)

Type		Element		Concentration (μg/m³)		Efficiency (%)	Measuring method
		Name	Chemical formula	Up Stream	Down Stream		
A	Acid gas	Nitrite ion	NO ₂ ⁻	2.5	<0.2	92<	IC
		Sulfate ion	SO ₄ ²⁻	3.1	0.2	93	
		Boron	B	72	5	93	ICP-MS
B	Basic gas	Ammonium ion	NH ₄ ⁺	14.0	0.4	97	IC
O	Organic gas	Organic substance	—	66.0	<0.1	99<	GC-MS
G	Aldehyde gas	Formaldehyde	HCHO	120	<0.2	99<	HPLC

Face Velocity vs. Pressure Drop



3. Technical term explanation

1. Technical term for gas concentration

(1) %, ppm, ppb, ppt

These terms represent ratio of volume / volume, mass / mass and others.

For gas concentration in atmosphere, these generally represent "volume of target gases / volume of atmosphere"

%	(per cent)	:10 ⁻²
ppm	(parts per million)	:10 ⁻⁶
ppb	(parts per billion)	:10 ⁻⁹
ppt	(parts per trillion)	:10 ⁻¹²

(2) mg/m³, µg/m³, ng/m³, µg/L, ng/L, pg/L

These terms represent mass / volume.

For gas concentration in atmosphere, these represent "volume of target gases / volume of atmosphere"

mg/m ³	=	µg/L
µg/m ³	=	ng/L
ng/m ³	=	pg/L

Prefix of unit

Multiplier	Prefix	Name
10 ¹²	T	T (Tera)
10 ⁹	G	G (Giga)
10 ⁶	M	M (Mega)
10 ³	k	k (Kilo)
10 ²	h	h (Hecto)
10 ⁻²	c	c (Centi)
10 ⁻³	m	m (Milli)
10 ⁻⁶	µ	µ (Micro)
10 ⁻⁹	n	n (Nano)
10 ⁻¹²	p	p (Pico)

2. Conversion method of gas concentration (ppb↔µg/m³)

Conversion between concentration of volume / volume and concentration of weight / volume can be calculated

with calculation below by using molecular weight and

molar volume of ideal gas at 0°C, 1atm.

$$Y[\mu\text{g}/\text{m}^3] = \frac{X[\text{ppb}] \times M[\text{g}/\text{mol}]}{22.4[\text{L}/\text{mol}] \times K}$$

$$K = (273 + T) / 273$$

X	: Figure at ppb unit
Y	: Figure at µg/m ³ unit
M	: Molecular weight of target gas
22.4	: Molar volume of ideal gas at 0°C, 1atm
K	: Correct coefficient by temperature
T	: Temperature of atmosphere (°C)

Conversion example of gas concentration (at 23°C)

Target gases			1 ppb → Y µg/m ³	1 µg/m ³ → X ppb
Name	Chemical formula	Molecular weight		
Fluoride ion	F ⁻	19.0	0.78	1.28
Chloride ion	Cl ⁻	35.5	1.46	0.68
Nitrite ion	NO ₂ ⁻	46.0	1.89	0.53
Nitrate ion	NO ₃ ⁻	62.0	2.55	0.39
Sulfate ion	SO ₄ ²⁻	96.0	3.95	0.25
Boron	B	10.8	0.44	2.25
Ammonium ion	NH ₄ ⁺	18.0	0.74	1.35
Toluene	C ₆ H ₅ CH ₃	92.0	3.79	0.26

※ T=at 23°C

3. SV value (Space Velocity)

SV represents ventilated air volume per volume of adsorbent (see calculation below), to show conditions of adsorbent loaded type chemical filter. When SV is lower, this means ventilated air contact to adsorbent longer, so removal efficiency of the filter become higher. In case of processing same concentration gases, service lifetime become longer because ventilated air volume is smaller (Correspond to air velocity for mini-pleats type chemical filter).

$$SV[1/\text{h}] = \frac{\text{ventilated air volume} [\text{m}^3/\text{h}]}{\text{filled volume of adsorbent} [\text{m}^3]}$$

SV should be small when processing high concentration gases, high efficiency is required and long lifetime is needed (Please refer us for details).

4. Inspection Devices/Target gas and features

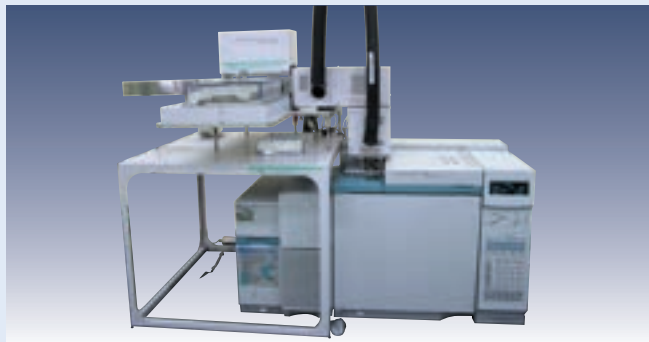
NIPPON MUKI Inspection Devices

Ion Chromatograph (IC)



- Measurement of acid, alkali, and organic acid density in liquid (SO_4^{2-} , NH_4^+ , CH_3COO^- etc.)
- Measurement of acid, alkali, and organic acid density in air
- Measurement of acid, alkali, and organic acid removal efficiency of the filter
- Measurement of acid, alkali, and organic acid density dissolution volume from the component

Gas chromatograph-mass spectrometer (TD-GC-MS)



- Measurement of organic matter density in air (siloxane / DBP / DOP, etc.)
- Measurement of organic matter removal efficiency of the filter
- Measurement of amount of organic matter generated from the filter and the component

Inductively-coupled plasma mass spectrometer (ICP-MS)



- Measurement of metal composition density in liquid (B, P, Ca, Cu, Al, etc.)
- Measurement of metal composition density in air
- Measurement of metal composition removal efficiency of the filter
- Measurement of amount of metal composition generated from the filter

Scanning Electron Microscope - Energy Dispersive X-ray Spectrometer (SEM-EDX)



- Qualitative elemental analysis of the target object (e.g., Na, Mg, K, Si, Al, Fe, Cu)
- Observation and recording of the shape and size of the target object

Target gas and features

Model Name	Model Name			Features							
	Organic gas	Acid gas	Basic gas	Large air volume	Low concentration gas removal	Long-life	Low-pressure drop	Media changeable	Low particle generation	Thin type	Light weight
PUR	○	○	○	○	-	○	-	○	-	-	-
ACGM	○	○	○	○	○	-	○	-	○	-	-
ACGL	○	○	○	-	○	-	○	-	○	○	○
ECSL	-	○	○	-	○	○	○	-	○	○	-
NECS	-	○	○	-	○	-	○	-	○	○	○

5. Handling Manual

1. Transportation

When transporting filters, please observe the following precautions:

1. When lifting the filter, hold the carton securely with both hands and follow the direction markings (e.g., "This Side Up") on the box. Do not carry it on your shoulders.
2. When unloading the filter, set it down gently. Dropping it may damage the frame or filter media. If dropped accidentally, open the carton and check for damage.
3. When loading the filter onto a truck or similar vehicle, never place the carton on its side. Position it according to the direction markings clearly displayed on the carton. Do not stack more than three cartons high. Filters over 30 kg should be stacked in no more than two layers.
4. Although the filter is designed to withstand vibrations during transit, avoid traveling on rough roads for extended periods. Keep the product dry. Use trucks equipped to protect the product from rain or moisture.

2. Storage

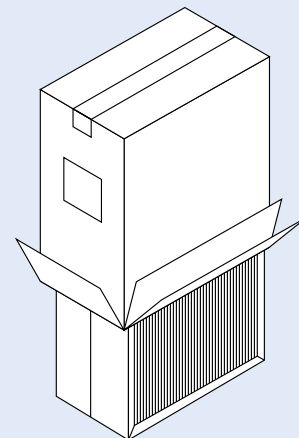
When storing filters, please observe the following precautions:

1. Do not place the carton directly on the floor. Use a pallet to maintain space between the filter and the floor.
2. Avoid high temperatures and humidity. Store under normal conditions (temperature: 0–40 °C , relative humidity: 30–90%, no condensation). Use a well-ventilated warehouse without leaks, and avoid direct sunlight and water contact.
3. Never place the carton on its side. Position it according to the direction markings clearly displayed on the carton. Do not stack more than three cartons high. Filters over 30 kg should be stacked in no more than two layers.
4. Store the filter in its original carton. If the filter has been opened, repack it in a PE bag and seal the bag tightly.
5. Filters for outgas applications (Low Boron, Nouvelle) can be contaminated by outside air. Do not leave opened filters exposed for extended periods.
6. The storage limit is one year. If a filter has been stored for more than one year, check its performance before use.
7. Filters that use nonwoven media (DS, DSR) may become yellowish, but this does not affect their performance.

3. Installation

When installing filters, please observe the following precautions:

1. When removing the filter from the carton, lift the carton upward as shown in the illustration to avoid possible damage.
2. Damage often occurs when the filter is moved or installed. Even if there is a media guard such as a mesh, grasp only the frame.
3. Never sit or stand on the filter. Even if the filter is installed in a hard-to-reach place, do not use it as a stepping stool—it is easily damaged.
4. Do not climb on the filter, as this may cause damage or breakage and could result in physical injury.
5. When installing the filter in a horizontal chamber, ensure that the top of the media faces upward.
6. Install the filter according to the displayed airflow direction.
7. When fastening a filter with a gasket, tighten all gaskets evenly. The gasket should be tightened to approximately two-thirds of its depth. Do not remove the filter once installed except for replacement. (Repeated crimping reduces gasket durability and may cause leaks.)
8. Some filters are shipped in a PE bag or with a PE sheet attached to prevent contamination before use. Remove the PE bag or sheet before operation. If ventilation is performed without removing them, the filter or fan may be damaged.



4. Use

1. After installing the filter, allow it to idle briefly.
2. Turn airflow on and off gradually. Do not make abrupt changes.
3. Once ventilation begins, record the initial pressure drop.
4. Operate at an airflow lower than the rated value. Even at a lower airflow, damage may occur if air hits the filter locally. Use rectified air for ventilation.
5. To maximize the efficiency of outgas countermeasure filters (Low Boron, Nouvelle), use in combination with a chemical filter.

5. Disposal

Discard the filter as industrial waste.

Company Overview

■ Corporate Name

NIPPON MUKI CO., LTD

■ Founded

June 17, 1939

■ Business Details

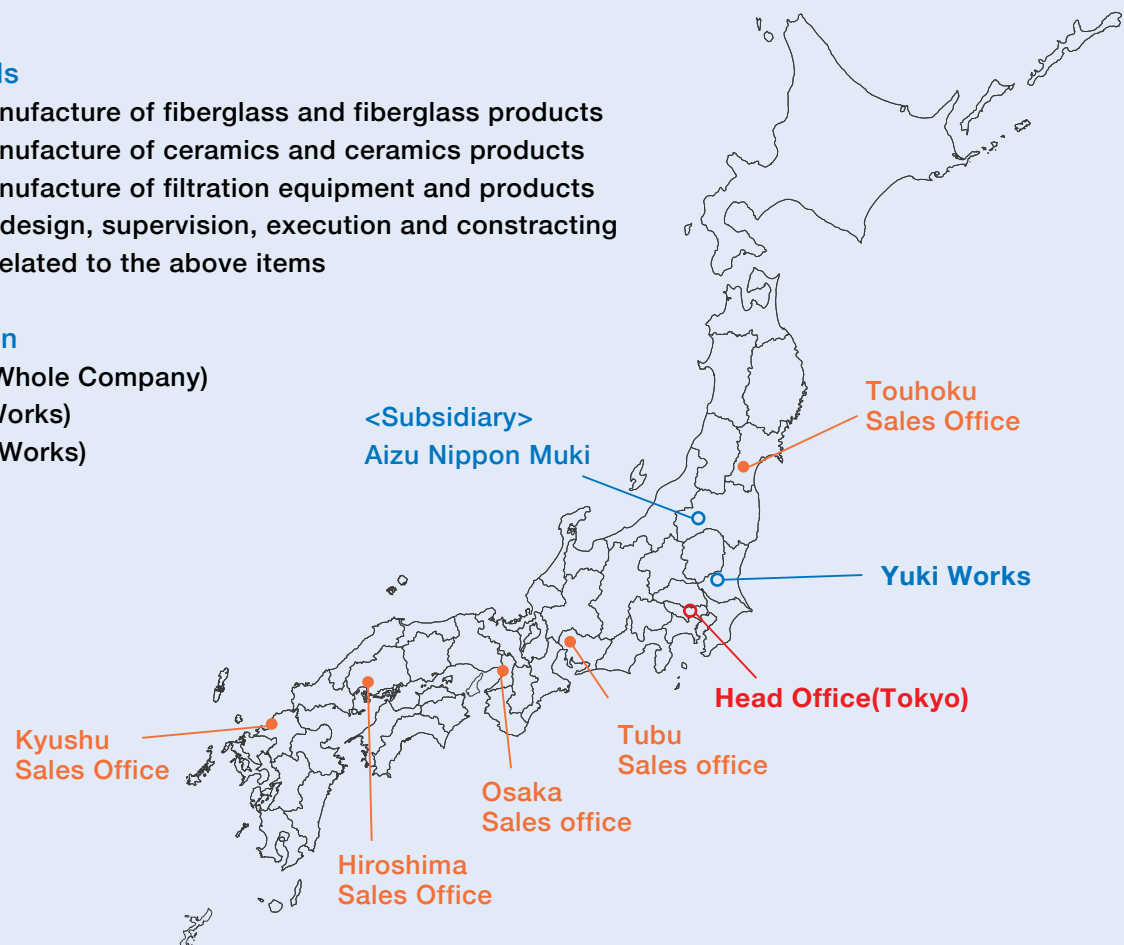
- 1. Sales and manufacture of fiberglass and fiberglass products
- 2. Sales and manufacture of ceramics and ceramics products
- 3. Sales and manufacture of filtration equipment and products
- 4. Construction design, supervision, execution and constructing
- 5. All business related to the above items

■ ISO Certification

ISO14001 (The Whole Company)

ISO9001 (Yuki Works)

ISO45001 (Yuki Works)



Yuki Works



NIPPON MUKI CO., LTD.

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For products or specifications not listed in this catalog, please contact us.
Specifications are subject to change without prior notice.

