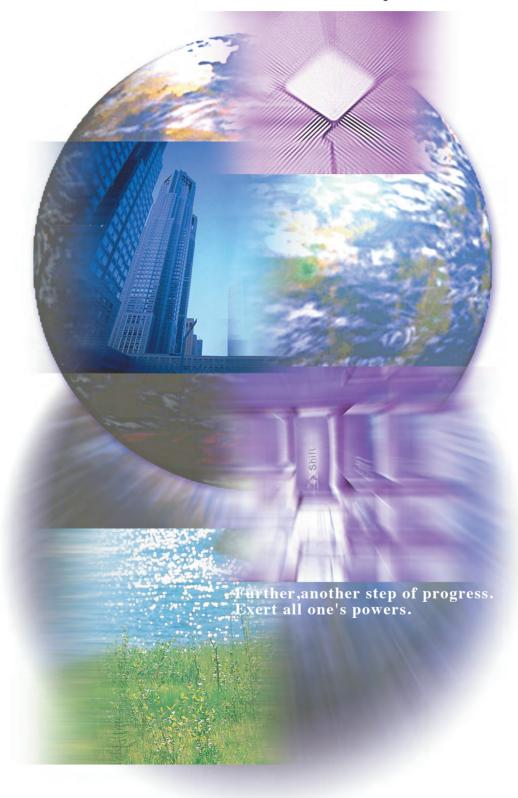
General Catalog of Air-Conditioning ProductsAir Filtration Products & Systems





Air Filtration Products & Systems

Japan Vilene Company, Ltd. develops a broad range of air-conditioning filters and equipment that help us live synergistically with the earth and our environment.

Based on our technologies for developing non woven fabrics, we have developed comprehensive filtration systems to help create a clean environment.

Since the 1960s, Japan Vilene Company, Ltd. has been allied with the Freudenberg group Germany—a world-renown manufacturer of non woven fabrics—and has been developing and marketing the "Viledon" series of non woven air filter products. We have since expanded our technologies into the realm of filtration systems, and are currently focusing our energies in applications for generic air-conditioning as well as in creating clean spaces in industrial air-conditioning applications.



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• If you do not have a product catalog, you can either download one from our web site, or request one of our agents to have one mailed to you.

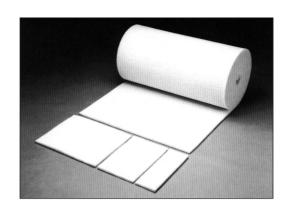
VILEDON AIR FILTER

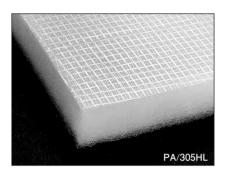
The Viledon air filter is a high-quality air filter that is based on non-woven fabric. Non-woven literally means "not woven."

This material was developed through a marriage of the idea behind paper and felt production with state-of-the-art technologies, namely organic chemistry and polymer chemistry.

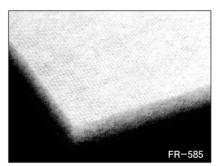
This allows us to combine synthetic fibers and a variety of other materials, offering great latitude in designing specific physical and chemical properties for specific applications.

Viledon air filters are made of materials that are highly flexible in this regard.









Viledon®

■ List of Viledon air filter applications

Application	Notable features	Types
Spray-painting booth	Filters for painting booths almost completely remove large visible particles ($10\mu m$ or larger) that make up the suspended dust particles in the air and are therefore effective in reducing paint defects.	• PA/350HL • PA/305HL • PH-400
Drying oven	Heat-resistant filters for drying ovens efficiently remove tar, soot, rust and other substances that are created inside a drying oven to prevent surface contamination to products that undergo the drying process. These filters are made of special synthetic fibers that deliver excellent durability even in high-temperature environments.	• AI -100W • AE-100 Two-ply • AE-100
General-purpose regenerative	General-purpose regenerative filters are optimum for filtering outdoor air or as a pre-filter to mid- to high-performance filters. They can be washed several times for easy regeneration. These filters are primarily used in panel format.	• PS/600N • PS/400N • PS/300N • PS/150N
General-purpose disposable	General-purpose disposable filters are optimum for filtering outdoor air. FR-585 in particular delivers excellent running costs when used in automatic roll filter(V·MR). These filters have been treated with a adhesive to improve collection efficiency making it an effective filter against sandy dust.	• FR-585 • FS-6200 • FS-6500 • PE/205HL • FR-580
Special equipment	Filters for special equipment deliver low pressure loss and excellent collection efficiency for better dust holding capacity. This material can be cast with plastic or folded into a zig-zag configuration, and is optimally suited for maintaining a variety of equipment for example when used as a medium for long-life filters used in individual air-conditioning facilities.	• FS-1710 • FS-1705 • FS-1705W
Semi-conductor plant	This type of Viledon filter has been given a low gas generation treatment, and is optimally suited for use as outdoor air filters for cleanrooms in semi-conductor and LCD plants.	• FR-580-OGL

Features

•Flexible in density control

The fabrics have a porous structure, whose pore sizes can be controlled using different combinations of fiber and binders to meet a variety of applications.

• Its "density gradient" is optimum for air filters.

With a graduated density that is greater on the downstream side than on the upstream, these filter media deliver minimal pressure loss, good collection efficiency, and large holding capacity. (Some products do not have a density gradient)



"Density gradient" structure

Easy to regenerate.

Viledon air filters for general regeneration purposes can be regenerated using water washing or spray cleaning.

Peace of mind with excellent flame retardancy

These products are categorized in Class 3 according to the Japan Air Cleaning Association's (JACA) Flammability Test No. 11A-2003 for Air Purifier Filter Media.

•FR-580 and FR-580-OGL are not flame retardant.

Versatile and suited for a variety of applications

These media are employed in a diverse range of applications ranging from everyday uses in office buildings and music halls, to applications in state-of-the-art facilities such as semiconductor factories.

■ List of Viledon air filter Specification

Application	Turan	Matarial	Standard size	Thickness	Thermal stability	Velocity	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		ASHRAE average
Application	Types	Material	WxL	(mm)	(°C)	(m/s)	Initial	Final	arrestance (%)
	PA/350HL			18±3	≦ 60		45		>98
Spray painting	PA/305HL	Polyolefin	1.6m×20m	19±3	=00	0.5	45	400	≧98
booth	PH-400			18±3	≦100		45		≧98
	AI-100W		500mm×500mm	20±3	≦240		45	200	90
Drying oven	Drying oven AE-100 Two-ply	Aromatic polyamides	500mm×500mm	20±4	≦180	1.0	45		90
AE-100		1.6m×20m	10±2	≦180		25		88	
	PS/600N			20±3			90	200	82
General-purpose	PS/400N	Polyester/modacrylic	1.6m×20m	14±2	/ 00	2.5	64		76
regenerative	PS/300N		1.6m×30m	10±2	≦80	2.5	54	200	73
	PS/150N			8±2			30		63
	FR-585	Polyolefin	1.73m×20m	18±3		0.5	59	200	85
Conoral purpose	FS-6200	Polyester/modacrylic	1.6m×15m	14±2		2.5	54		78
General-purpose disposable	FS-6500	Polyester/modacrylic	1.6m×20m	13±2	≦ 60	4.0	35		90
0.00000.0	PE/205HL	Polyolefin	1.6m×20m	18±3		1.0	40		90
	FR-580%	Polyolefin	1.6m×20m	20±3		2.5	54		80
Special	FS-1710	Polyamide/modacrylic		11±2			35		74
equipment	FS-1705	Polyester/modacrylic	1.0m×50m	5.5±1.5	≦ 60	2.5	20	200	68
	FS-1705W	Polyester/modacrylic	7	6.5±1.5			20		68
Semi-conductor plant	FR-580-OGL*	Polyolefin	1.6m×20m	20±3	≦ 60	2.5	54	200	80

[%]FR-580 and FR-580-OGL are not flame retardant.

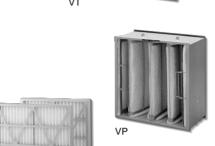
[%]Filter thickness can be thinner according to storage condition.

Because inner part of roll type filters especially has a tendency to become thinner, thickness information on this catalogue is not guaranteed value.

PANEL FILTER

These filters are framed air filters that were designed to maximize the performance of Viledon filter media. These filters are optimally suited for general-purpose treating of outdoor air, and as a pre-filter for mid-to high-performance filters.





■ VT series (aluminum frame, lightweight)

Lightweight and easy to handle. Model variations that can be joined together laterally are also available.

■ VA series (aluminum frame, detachable frame)

The inner frame can be easily removed from the outer frame for easy replacement of the filter medium. The frame is made of anti-corrosion aluminum, making it lightweight and easy to handle.

VB series

(aluminum frame, detachable frame/bolt-connected)

This is an easy-to-assemble, bolt-connected type of filter.

■ VP series (built-in Viledon zig-zag format)

The filter surface is assembled in a zig-zag fashion to give this air filter a three-fold increase in filtering area. This allows users to extend their replacement cycles for excellent economy.

VK series (paper frame, disposable)

These filters are made by encapsulation-molding pleated filter media onto a frame made of recycled paper using a special adhesive. A notable feature of this long-lasting and highly economical filter are the waste reduction measures that have been taken.

AUTOMATIC ROLL FILTER

Autmatic Roll filters are an automatic roll filtration system that was developed through our extensive experience in marketing Viledon filters over the years. A variety of sizes to suit customer requirements are available in a range of different categories that respectively range from (1) coarse dust filters to mid- and high efficiency filters, (2) standard air volume to large air volume filters, and (3) generic filters with simple shape to high-performance filters.







(Automatic Roll Filter)

■ V·MR series

<Standard>

Equipped with Viledon, The V·MR is a system that collects dust on the surface of its filter media.

This is an automatic roll air filter with a drive mechanism that automatically winds used media and exposes new media.

■ V·HR series

<Larger air volume>

The V·HR is an automatic roll air filter designed to treat large air volumes with Viledon media installed in a zig-zag configuration.

■ V·BR series

Automatic Roll air filter + Pocket filter>

The V·BR is a mid- to high-performance grade air filter system that is a combination of an automatic roll filter and pocket filter.

With low pressure loss, high collection efficiency, and long service life, this system delivers extremely large dust holding capacity and can therefore be used for extended periods of time.

Environment-friendly filter series

The environment-friendly filter series of mid- to high-performance filters is optimally suited for green procurement purposes for a variety of businesses, as well as for improving general indoor air quality (IAQ) in buildings.

This series of filters is equipped with a new type of filter media that were developed through Japan Vilene's superior non-woven technologies.

Notable Features of the Environment-friendly filter series of Air Filters



Filter is made of self-developed non woven media that delivers low pressure loss, high efficiency, and long service life.



Low pressure loss results in a reduction in power consumption of approximately 24% (Compared to previous Japan Vilene products).



Filter can be reused as a resource when recycled through our "used filter recycling system." RPF implementation results in a roughly 30% reduction in CO₂ emissions during recycling compared to when coal is used.



The amounts of regulated chemical substances halogen *1, formaldehyde *2, and VOCs *3 used have been reduced.



Smaller volume and reduced weight thanks to thinner design and removable format.

*1) Does not contain halogen series raw materials.

*2) Does not contain raw materials that generate formaldehyde.*3) Reduced VOC (volatile organic compounds) content. (Compared to previous Japan Vilene products)

Environment-friendly filter

Rigid Filter [Element changeable]

These filters are a mid- to high efficiency filter with a smaller volume and a replaceable medium. Its outer frame can be reused with only the element requiring replacement to achieve a dramatic reduction in running costs.

■ VZ·DH series <Larger air volume>



	Element						Outer	Total		
Model	JIS dust-spot efficiency	Air flow rate (m³/min)	Pressure Initial		Folded dimensions (mm) W×H×D	Weight (kg)	Model	Dimensions (mm) W×H×D	Weight (kg)	weight (kg)
VZ·DH-95M-70F3		70 (56	150 120)		270×590×300	3.0	VC-290H-70F3	610×610×290	6.5	9.5
VZ·DH-95M-35H3	95%	35 (28	160 130)	300	270×285×300	1.5	VC-290H-35H3	610×305×290	5.0	6.5
VZ·DH-95M-35V1		35 (28	160 130)		110×590×300	1.0	VC-290H-35V1	305×610×290	5.0	6.0
VZ·DH-90M-70F3		70 (56	130 100)		270×590×300	3.0	VC-290H-70F3	610×610×290	6.5	9.5
VZ·DH-90M-35H3	90%	35 (28	140 110)	300	270×285×300	1.5	VC-290H-35H3	610×305×290	5.0	6.5
VZ·DH-90M-35V1		35 (28	140 110)		110×590×300	1.0	VC-290H-35V1	305×610×290	5.0	6.0
VZ·DH-65M-70F3		70 (56	120 90)		270×590×300	3.0	VC-290H-70F3	610×610×290	6.5	9.5
VZ·DH-65M-35H3	65%	35 (28	130 100)	300	270×285×300	1.5	VC-290H-35H3	610×305×290	5.0	6.5
VZ·DH-65M-35V1		35 (28	130 100)		110×590×300	1.0	VC-290H-35V1	305×610×290	5.0	6.0

■ VZ·DT series <150mm depth>



	E	Element				Outer)	Total	
Model	JIS dust-spot efficiency	Air flow rate (m³/min)			Weight (kg)	Model	Dimensions (mm) W×H×D	Weight (kg)	
VZ·DT-95M-56F5		56	130	1 1101	2.0	VC-DT-56F5	610×610×150	4.5	6.5
VZ·DT-95M-28H5	95%	28	140	300	1.5	VC-DT-28H5	610×305×150	3.0	4.5
VZ-DT-95M-28V2		28	140	140		VC-DT-28V2	305×610×150	3.0	4.0
VZ·DT-90M-56F5		56	110		2.0	VC-DT-56F5	610×610×150	4.5	6.5
VZ·DT-90M-28H5	90%	28	120	300	1.5	VC-DT-28H5	610×305×150	3.0	4.5
VZ·DT-90M-28V2		28	120		1.0	VC-DT-28V2	305×610×150	3.0	4.0
VZ·DT-65M-56F5		56	90		2.0	VC-DT-56F5	610×610×150	4.5	6.5
VZ•DT-65M-28H5	65%	28	100	300	1.5	VC-DT-28H5	610×305×150	3.0	4.5
VZ·DT-65M-28V2		28	100		1.0	VC-DT-28V2	305×610×150	3.0	4.0

VZ·D series <Standard air volume>



	Element							Outer frame (standard)			
Model	JIS dust-spot efficiency	Air flow rate (m³/min)	Pressure Initial	drop(Pa) Final	Folded dimensions(mm) W×H×D	Weight (kg)	Model	Dimensions (mm) W×H×D	Weight (kg)	Total weight (kg)	
VZ·D-95M-56F3		56	130		270×580×290	3.0	VC-290-56F3	610×610×290	7.0	10.0	
VZ·D-95M-28H3	95%	28	140	300	270×275×290	1.5	VC-290-28H3	610×305×290	5.0	6.5	
VZ·D-95M-28V1		28	140		110×580×290	1.0	VC-290-28V1	305×610×290	5.0	6.0	
VZ·D-90M-56F3		56	110		270×580×290	3.0	VC-290-56F3	610×610×290	7.0	10.0	
VZ·D-90M-28H3	90%	28	120	300	270×275×290	1.5	VC-290-28H3	610×305×290	5.0	6.5	
VZ·D-90M-28V1		28	120		110×580×290	1.0	VC-290-28V1	305×610×290	5.0	6.0	
VZ·D-65M-56F3		56	90		270×580×290	3.0	VC-290-56F3	610×610×290	7.0	10.0	
VZ·D-65M-28H3	65%	28	100	300	270×275×290	1.5	VC-290-28H3	610×305×290	5.0	6.5	
VZ·D-65M-28V1		28	100		110×580×290	1.0	VC-290-28V1	305×610×290	5.0	6.0	

Environment-friendly filter

Rigid Filter [Box-shaped]

These filters are a mid- to high efficiency filter in a unit format. This series is optimally suited for air-conditioning in buildings as well as for a variety of industrial applications.

■ VZ·H series <Larger air volume>



Model	JIS dust-spot	Air flow rate	Pressure	drop (Pa)	Dimensions (mm)	Weight
Model	efficiency	(m ³ /min)	Initial	Final	W×H×D	(kg)
VZ•H-95M-70F		70 (56	140 110)		610×610×290	7.0
VZ•H-95M-35H	95%	35 (28	140	300	610×305×290	5.0
VZ•H-95M-35V		35 (28	140		305×610×290	5.0
VZ•H-90M-70F		70 (56	120 90)		610×610×290	7.0
VZ•H-90M-35H	90%	35 (28	120 90)	300	610×305×290	5.0
VZ•H-90M-35V		35 (28	120 90)		305×610×290	5.0
VZ•H-65M-70F		70 (56	100 70)		610×610×290	7.0
VZ•H-65M-35H	65%	35 (28	100	300	610×305×290	5.0
VZ•H-65M-35V		35 (28	100 70)		305×610×290	5.0

■ VZ·E series <Standard air volume>



Model	JIS dust-spot	Air flow rate	Pressure	drop (Pa)	Dimensions (mm)	Weight
Wiodei	efficiency	(m ³ /min)	Initial	Final	W×H×D	(kg)
VZ•E-95M-56F		56	140		610×610×290	5.5
VZ•E-95M-28H	95%	28	140	300	610×305×290	4.0
VZ•E-95M-28V		28	140		305×610×290	4.0
VZ•E-90M-56F		56	100		610×610×290	5.5
VZ•E-90M-28H	90%	28	100	300	610×305×290	4.0
VZ•E-90M-28V		28	100		305×610×290	4.0
VZ•E-65M-56F		56	70		610×610×290	5.5
VZ•E-65M-28H	65%	28	70	300	610×305×290	4.0
VZ•E-65M-28V		28	70		305×610×290	4.0

■ VZ·T series <150mm depth>



Model	JIS dust-spot	Air flow rate	Pressure	drop (Pa)	Dimensions (mm)	Weight
wodei	efficiency	(m ³ /min)	Initial	Final	W×H×D	(kg)
VZ•T-95M-56F		56	160		610×610×150	4.0
VZ•T-95M-28H	95%	28	160	300	610×305×150	3.0
VZ•T-95M-28V		28	160		305×610×150	3.0
VZ•T-90M-56F		56	120	300	610×610×150	4.0
VZ•T-90M-28H	90%	28	120		610×305×150	3.0
VZ•T-90M-28V		28	120		305×610×150	3.0
VZ•T-65M-56F		56	90		610×610×150	4.0
VZ•T-65M-28H	65%	28	90	300	610×305×150	3.0
VZ•T-65M-28V		28	90		305×610×150	3.0

■ VZ series <Longer lite>



	JIS dust-spot	Air flow rate	Pressure	drop (Pa)	Dimensions (mm)	Weight
Model	efficiency	(m ³ /min)	Initial	Final	W×H×D	(kg)
VZ-95M-56F		56	120		610×610×290	7.0
VZ-95M-28H	95%	28	120	300	610×305×290	5.0
VZ-95M-28V		28	120		305×610×290	5.0
VZ-90M-56F		56	100		610×610×290	7.0
VZ-90M-28H	90%	28	100	300	610×305×290	5.0
VZ-90M-28V		28	100		305×610×290	5.0
VZ-65M-56F		56	70		610×610×290	7.0
VZ-65M-28H	65%	28	70	300	610×305×290	5.0
VZ-65M-28V		28	70		305×610×290	5.0

Environment-friendly filter

Rigid Filter
[Prevent sea salt particle]

These filters are a high-performance filter that was designed to prevent salt damage and is effective in preventing salt damage-related problems with air-conditioner ducts, digital office equipment, and production facilities.

■ VX·D series



	Element							Outer frame (standard)				
Model	JIS dust-spot efficiency	Air flow rate (m³/min)	Pressure Initial	drop (Pa) Final	Folded dimensions (mm) W×H×D	Weight (kg)	Model	Dimensions (mm) W×H×D	Weight (kg)	Weight (kg)		
VX·D-98M-56F3	,	56	130	300	270×580×290		VC-290S-56F3	610×610×290	7.0	10.0		
VX·D-98M-28H3	98%	28	140	300	270×275×290	1.5	VC-290S-28H3	610×305×290	5.0	6.5		
VX·D-98M-28V1		28	140	300	110×580×290	1.0	VC-290S-28V1	305×610×290	5.0	6.0		
VX·D-95M-56F3		56	120	300	270×580×290	3.0	VC-290S-56F3	610×610×290	7.0	10.0		
VX·D-95M-28H3	95%	28	130	300	270×275×290	1.5	VC-290S-28H3	610×305×290	5.0	6.5		
VX·D-95M-28V1		28	130	300	110×580×290	1.0	VC-290S-28V1	305×610×290	5.0	6.0		

■ VX series <Standard>



Model	JIS dust-spot	Air flow rate				Weight
	efficiency	(m ³ /min)	Initial	Final	W×H×D	(kg)
VX-98M-56F		56	120		610×610×290	7.0
VX-98M-28H	98%	28	120	300	610×305×290	5.0
VX-98M-28V		28	120		305×610×290	5.0
VX-95M-56F		56	110		610×610×290	7.0
VX-95M-28H	95%	28	110	300	610×305×290	5.0
VX-95M-28V		28	110		305×610×290	5.0

Environment-friendly filter

Pleated Filter

With a depth measuring only 65mm, These filters are a series of thin and lightweight mid- to high-performance filters that deliver low pressure loss with a configuration where the media is folded into fine pleats.

■ VM·D series <Element changeable 65mm>



		Ele	ment				Outer	frame (standard	4)	Total
Model	JIS dust-spot efficiency		Pressure Initial	drop(Pa) Final	Dimonorono (mm)		Model	Dimensions (mm) W×H×D	Weight (kg)	Weight (kg)
VM·D-90M-56F		56			604×608×53	1.5	VC-65-56F	610×610×65	1.5	3.0
VM·D-90M-23H	90%	23	90	300	604×304×53	04×304×53 1.0 VC-65-23H 610×305×65	1.0	2.0		
VM·D-90M-23V		23			299×608×53	1.0	VC-65-23V	305×610×65	1.0	2.0
VM·D-65M-56F		56			604×608×53	1.5	VC-65-56F	610×610×65	1.5	3.0
VM•D-65M-23H	65%	23	70	300	604×304×53	1.0	VC-65-23H	610×305×65	1.0	2.0
VM·D-65M-23V		23			299×608×53	1.0	VC-65-23V	305×610×65	1.0	2.0

■ VM series <Standard 65mm>



Model	JIS dust-spot efficiency	Air flow rate (m ³ /min)	Pressure Initial	drop (Pa) Final	Dimensions (mm) W×H×D	Weight (kg)
VM-90M-56F		56	mitical	Tina	610×610×65	3.0
VM-90M-23H	90%	23	90	300	610×305×65	2.0
VM-90M-23V		23			305×610×65	2.0
VM-65M-56F		56			610×610×65	3.0
VM-65M-23H	65%	23	70	300	610×305×65	2.0
VM-65M-23V		23			305×610×65	2.0

 $\ensuremath{\mbox{\%}}\mbox{The VM-90M}$ series uses media that has been given a electrification treatment.

Environment-friendly filter

Pocket Filter

With superb collection efficiency and low pressure drop, the VG series delivers excellent dust holding capacity. As such, this is a streamer type filter that can be used for longer periods of time compared to unit type filters.

Notable Features of the Environment-friendly filter series of Pocket Air Filter

1

Based on innovative self-developed nonwoven fabric.

2

Low pressure loss results in a roughly 24% reduction in power consumption (Compared to previous Japan Vilene products). [VG-95M]

3

Roughly 150% longer service life (Compared to previous Japan Vilene products). [VG-95M.VG-90M]

4

Smaller CO2 emissions in terms of LCA (Life Cycle Assessment).

VG series



Model	JIS dust-spot		Pressure	drop (Pa)	Dimensions (mm)	Pocket	Weight
Model	efficiency	(m ³ /min)	Initial	Final	W×H×D	mumber	(kg)
VG-95M-56F		56	130		595×595×860	6	3.0
VG-95M-28H	95%	28	130	300	595×305×860	6	2.0
VG-95M-28V		28	130		305×595×860	3	2.0
VG-90M-56F		56	110		595×595×860	6	3.0
VG-90M-28H	90%	28	110	300	595×305×860	6	2.0
VG-90M-28V		28	110		305×595×860	3	2.0
VG-70M-56F		56	90		595×595×860	6	3.0
VG-70M-28H	70%	28	90	300	595×305×860	6	2.0
VG-70M-28V		28	90		305×595×860	3	2.0

Filters related to Pocket Filter

■ VG-40 series

This is a lightweight filter with a plastic frame that provides excellent shape retention, and is optimally suited for use as a pre-filter for high-performance filters or an intermediate filter within a ceiling filter system in spray-painting booths.



Model	JIS dust-spot		Pressure	drop (Pa)	Folded dimensions (mm)	Pocket	Weight
iviodei	efficiency	(m³/min)	Initial	Final	WxHxD	mumber	(kg)
VG-40-70F		70	70		595×595×350	4	1.0
VG-40-35H		35	70		595×305×350	4	0.6
VG-40-35V	40%	35	70	300	305×595×350	2	0.6
VG-40-56F	40%	56	70	300	595×595×280	4	0.9
VG-40-28H		28	70		595×305×280	4	0.5
VG-40-28V		28	70		305×595×280	2	0.5

RIGID FILTER CASING SERIES

With the enactment of the Law for Maintenance of Sanitation in Buildings, filter performance levels have evolved as environmental standards for designated buildings, and cleanness level requirements in industrial spaces have become more stringent. Coupled with demand for greater economic performance, space-saving air-conditioning equipment that provide good efficiency in terms of both function and cost have become indispensable.

Specially designed for coarse dust filters, mid- to high efficiency filters, and HEPA filters, the filter casing series of casings meet these new demands.









Filter casing (For Panel filter VT)

■ VT·CA series

The VT·CA is used together with Japan Vilene's Panel filter VT as a primary treatment filter for outdoor air.

Filter casing (For Pleated filter VM)

■ VM·CA series

The main filter of the VM·CA consists of the environmentally -friendly filter. Users can choose from one that is fitted with a pre-filter, or one without.

Filter cam casing

■ V·CM series

The $V\cdot CM$ casing consists of a pre-filter and main filter configuration. The main filter is fixed in place by way of a cam. Its main filter consists of the environmentally-friendly filter.

Automatic roll air filter + filter cam casing

■ V·CM·R series

A design that combines pre-filter main filter, makes the $V\boldsymbol{\cdot} CM\boldsymbol{\cdot} R$ a labor-saving filter casing.

Its main filter consists of the environmentally-friendly filter.

Super-high-performance filter casing

■ V·CM·H series <HEPA filter>

The V·CM·H is a super-high-efficiency filter casing that was developed specially for HEPA filters.

It comes with a special, high-precision tightening mechanism for installing HEPA filters.

(Filter installation frame)

VC Studs < Midium Efficiency filter > series



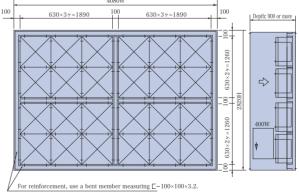
Installation frames

- VC-100E (For VZ•H,VZ•E,and VZ only)
- · VC−100T (For VZ·T only)
- · VC-100ES (For VX only)
- VC-100VM (For VM only)
- · VC-VG (For VG only)

Outer frames

- · VC-290H (For VZ·DH only)
- VC-290 (For VZ•D only)
- VC-DT (For VZ•DT only)
- · VC-290S (For VX·D only)
- VC-65 (For VM·D only)

<Example of casing frame construction> (4 rows x 6 columns)



· The drawing is an example where VC-100E-56F is used.

VC Studs<HEPA filters> series

Installation frame VC-150H (For HEPA filters only)

GAS REMOVAL FILTER

These filters are a series of filters that were designed to remove* gases with foul odors or harmful gases using active carbon and chemical adsorbent. *This in no way implies that these filters guarantee personal safety.

*Effectiveness varies depending on the type of gas. Please call Japan Vilene for details.



■ VZ·G series <Foul odor gas and harmful gas filter with dust removal function>

These filters are a combination of a layer of adsorbent for removing foul odors and harmful gases, and a layer for removing dust particles.

т	ypes	Model	Dimensions (mm)	JIS dust-spot efficiency	Adsorption capacity**1	Air flow rate	Pressure	drop (Pa)	Weight
'	ypes	wiodei	W×H×D	JIS dust-spot elliciency	(g/filter)	(m ³ /min)	Initial	Final	(kg)
Hig	Acidic	VZ·G-90A-56F VZ·G-90A-28H VZ·G-90A-28V	610×610×290 610×305×290 305×610×290	90%	96 48 48	56 28 28	140	300	10.5 6.0 6.0
h-dust- (D	gas	VZ·G-65A-56F VZ·G-65A-28H VZ·G-65A-28V	610×610×290 610×305×290 305×610×290	65%	96 48 48	56 28 28	90		10.5 6.0 6.0
High-dust-removal-efficiency (Dust-spot grade)	Basic	VZ·G-90B-56F VZ·G-90B-28H VZ·G-90B-28V	610×610×290 610×305×290 305×610×290	90%	41 21 21	56 28 28	140	300	10.5 6.0 6.0
l-efficie ot gradi	gas	VZ·G-65B-56F VZ·G-65B-28H VZ·G-65B-28V	610×610×290 610×305×290 305×610×290	65%	41 21 21	56 28 28	90		10.5 6.0 6.0
ncy filter e)	Organic	VZ·G-90C-56F VZ·G-90C-28H VZ·G-90C-28V	610×610×290 610×305×290 305×610×290	90%	551 276 276	56 28 28	140	300	10.5 6.0 6.0
er	solvent gas	VZ·G-65C-56F VZ·G-65C-28H VZ·G-65C-28V	610×610×290 610×305×290 305×610×290	65%	551 276 276	56 28 28	90		10.5 6.0 6.0
Low-pre (Arres	Acidic gas	VZ·G-20A-56F VZ·G-20A-28H VZ·G-20A-28V	610×610×290 610×305×290 305×610×290	90%*2	96 48 48	56 28 28	70	300	10.0 5.5 5.5
Low-pressure-loss type (Arrestance grade)	Basic gas	VZ·G-20B-56F VZ·G-20B-28H VZ·G-20B-28V	610×610×290 610×305×290 305×610×290	90%	41 21 21	56 28 28	70	300	10.0 5.5 5.5
ss type ade)	Organic solvent gas	VZ·G-20C-56F VZ·G-20C-28H VZ·G-20C-28V	610×610×290 610×305×290 305×610×290	90%	551 276 276	56 28 28	70	300	10.0 5.5 5.5

 ^{**1)} Adsorption capacity refers to the volume of gas a single test filter was able to adsorb up to the point where gas permeability reached 95% (breakthrough) as a result of having fed with acidic gas (sulfur dioxide at 30 ppm), basic gas (ammonia at 30 ppm), and organic solvent gas (toluene at 80 ppm). (Test conducted in accordance with DIN71460 Part 2)
 **2) Collection efficiency indicates collection efficiency (%) as stipulated in the JIS arrestance.
 Please consult with Japan Vilene for specific types and concentrations of different organic solvent gases.

■ VT·G series <Foul odor gas and harmful gas filter>

These are space-saving, low-pressure-loss filters.

Tv	pes	Model	Dimensions (mm)	JIS arrestams efficiency			Pressure	drop (Pa)	Weight
ı y	pes	Wiodei	W×H×D	olo arrestariis eniciericy	(g/filter)	(m^3/min)	Initial	Final	(kg)
Low-pres (A	Acidic gas	VT•G-6161-65A VT•G-6161-50A VT•G-6161-35A	610×610×65 610×610×50 610×610×35	90%	45 34 23	27	50	300	5 4 3
Low-pressure-loss, thin (Arresta grade)	Basic gas	VT·G-6161-65B VT·G-6161-50B VT·G-6161-35B	610×610×65 610×610×50 610×610×35	90%	23 17 11	27	50	300	5 4 3
thin filter de)	Organic solvent gas	VT·G-6161-65C VT·G-6161-50C VT·G-6161-35C	610×610×65 arrestams 610×610×35	90%	224 168 112	27	50	300	5 4 3

^{• **1)} Adsorption capacity refers to the volume of gas a single test filter was able to adsorb up to the point where gas permeability reached 95% (breakthrough) as a result of having fed with acidic gas (sulfur dioxide at 30 ppm), basic gas (ammonia at 30 ppm), and organic solvent gas (toluene at 80 ppm). (Test conducted in accordance with DIN71460 Part 2)

Available in custom sizes.

■ VC·L series <Foul odor gas and harmful gas filter, adsorbent-filled>

These are adsorbent-filled filters that efficiently remove foul odors and harmful gases through optimum selections of chemical adsorbent and active carbon. At the end of the filter life, the adsorbent in the palette can be replaced without having to replace the casing.

	Mad	-1	Dimensions (mm)	Air flow rate	Initial pressure drop	Filling capacity	Weight o	f adsorben	t(kg/filter)	Weight of casing and		Palette
	Mod	eı	W×H×D	(m ³ /min)	(Pa)	(L/filter)	E3 [☆] , A2 [☆]	FF [☆]	02 [☆] KK [☆]	palette frame (kg/filter)	Quantity	Dimensions (mm) W×H×D
١	/C·L-	-56F	610×610×460	56	170	57	39	47	30	43	8	600×400×35
١	/C·L-	-28H	610×305×460	28	170	28.5	19	23	15	25	4	600×400×35
١	/C·L-	-28V	305×610×460	28	170	28	19	24	15	28	8	295×400×35
١	/C·L-	-30F	610×610×290	30	100	34	22	27	17	31	8	600×230×35
١	/C·L-	-14H	610×305×290	14	100	17	11	13	8	19	4	600×230×35
١	/C·L-	-14V	305×610×290	14	100	16.5	11	13	8	21	8	295×230×35

Available in custom sizes.
 Specific dimensions apply if used as a replacement to the model VC · L palette filter.
 Please consult with Japan Vilene for specific types and concentrations of different organic solvent gases.

 ^{● ※3)} Pressure loss indicates the initial value at air flow rate when it is filled with KK.
 ● The "☆" indicates the symbol of the adsorbent's target gas. Please refer to the VILO FRESH catalog for details.
 ● Versions with pre-filters are also available.

HEPA / ULPA FILTER

As the electronic and precision instrument industries continues to grow, the demand for extremely clean air has also been growing from the perspective of productivity and quality management. HEPA and ULPA filters are essential in creating air that meets these cleanness standards. Based on our many years of experience in the air-conditioning industry, Japan Vilene has been developing and marketing HEPA and ULPA filters for many years that meet the demands of these markets.



HEPA FILTER

VN series <Standard filter>

These filters were designed to be used as main filters in cleanrooms and cleanroom equipment.

Types	Model	Collection efficiency	Air flow rate (m³/min)	Initial pressure drop *2 (Pa)
HEPA standard VN	VN-100-***	At least 99.97% of 0.3µm particles.	3.7~64.5	245

VH series <Large air volume filter>

These filters have a smaller pressure drop than that of VN (standard) filters. At the same pressure drop, these filters are capable of treating between roughly 1.3 to 2 times the rated air volume. These were designed to be used as main filters in cleanrooms and cleanroom equipment which must treat large volumes of air.

Types	Model	Collection efficiency	Air flow rate (m³/min)	Initial pressure drop *2 (Pa)
HEPA large air volume type VH	*1 VH-100-***	At least 99.97% of 0.3µm particles.	7.8~55.0	245

VY series <Separator-less filter>

These are super-thin filters with a thickness of only **45mm**. They are designed for energy conservation, can be fitted with noise reduction measures, and are optimally suited for a broad range of instruments.

Types	Model	Collection efficiency	Air flow rate (m³/min)	Initial pressure drop *2 (Pa)
Separator-less HEPA super thin type VY	*1 VY-100-***	At least 99.97% of 0.3µm particles.	6.5~20.7	152Pa at 0.5m/s

VQ series

<Low-pressure-drop, separator-less filter>

These are thin filters with a thickness of only **66mm**, and are optimally suited for cleanrooms and various instruments that require low-pressureloss air treatment.

Types	Model	Collection efficiency	Air flow rate (m³/min)	Initial pressure drop*2 (Pa)
Separator-less HEPA low-pressure-loss type VQ	VQ-100-***	At least 99.97% of 0.3µm particles.	3.7~64.5	167Pa at 0.84m/s

■ VN-95 series

<95% efficiency, standard filter>

This is a series of semi-HEPA filters that are optimum for cleanroom equipment and the like including cleanroom changing rooms and passthrough chambers.

Types	Model	Collection efficiency	Air flow rate (m³/min)	Initial pressure drop **2 (Pa)
Semi-HEPA,	*1	At least 95%	3.7~64.5	88Pa(depth: 150)
standard VN	VN-95-***	of 0.3µm particles.		118Pa(depth: 290)

■ VH-95 series

<95% efficiency, large air volume filter>

This is a series of semi-HEPA filters with a rated air volume of between roughly 1.3 to 2 times that of VN-95 at the same pressure loss.

Types	Model	Collection efficiency	Air flow rate (m³/min)	Initial pressure drop *2 (Pa)
Semi-HEPA, large air volume type VH	**1 VH-95-***	At least 95% of 0.3μm particles.	7.8~55.0	128Pa(depth: 75) 147Pa(depth: 150) 167Pa(depth: 290) Super large air volume filters 150/290

ULPA FILTER

VU series

<99.995% efficiency, standard filter>

This series of filters are optimally suited as main filters used in spaces that require exceptionally

Types	Model	Collection efficiency	Air flow rate (m³/min)	Initial pressure drop
ULPA Standard VU		At least 99.9995% of 0.15µm particles.	3.7~64.5	245

high levels of cleanness such as in the semiconductor high levels high levels of cleanness such as in the semiconductor high levels high levels high levels

(Filter installation frame) VC Stud <HEPA filter> series

■ VC-150H

VC-150H is an installation frame that was designed specifically for HEPA filters, and allows users to easily assemble the filter without error.



Special Applications

Anti-Viral Infection Filter

■ VZ , iV type

The VZ, \dot{i} V type filters mitigate the infectiousness of flu viruses that they collect. They help reduce the risk of infections in airports, train stations, hospitals, schools, offices and other large buildings and facilities where large numbers of people gather.

*This filter will not completely eliminate the risk of disease or infection.



Anti-Pollen Air Shower

■ V·AS-CB type

Anti-pollen Air shower uses jets of clean air to remove approximately 90% of plant pollen that can be attached to our clothing.

With a slim and refined design, Anti-pollen Air shower is optimally suited for use in condominiums, hotels, and office buildings.

According to our test result.



Asbestos removal work

Japan Vilene also supplies an easy-to-install Air shower, and Negative pressure dust remover, both of which are essential in asbestos removal work.

Easy-to-Install Air shower

The easy-to-install Air shower consists of a filter unit and blower unit configured into a two-tiered construction, and can therefore be installed very easily at construction sites.

%V∙AS-0010S



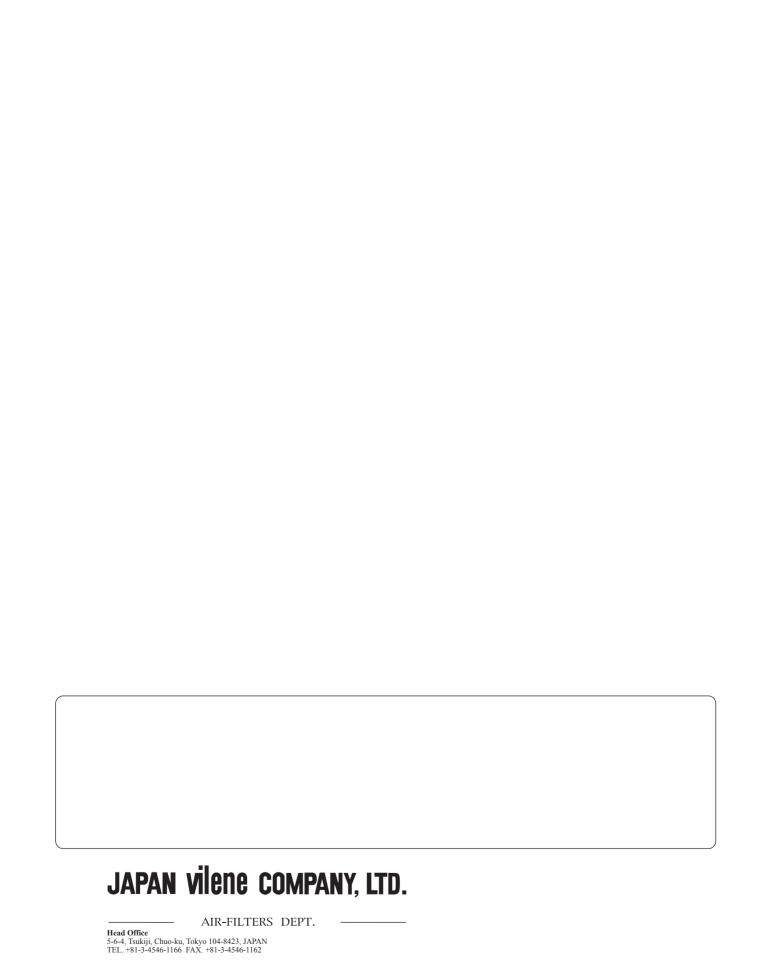
Negative pressure dust remover

Negative pressure dust remover is a unit that maintains negative pressure on the inside of work areas within demolition sites that have been cordoned off to prevent the spreading of contamination from designated dust particle such as asbestos. The air is treated by a pre-filter, secondary filter(mid-performance), and main filter (HEPA), after which

it is expelled outdoors. ***V·DC-65A**



- This is a general catalog for air-conditioning products marketed by Japan Vilene.
 Please refer to individual product catalogs for more specific product information.
- If you do not have a product catalog, you can either download one from our web site, or request one of our agents to have one mailed to you.



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