



PT. Sarana Teknik Internusa

“ THE BEST OF QUALITY AIR FILTER ”



CATALOG PRODUCT

AIR FILTER

PT SARANA TEKNIK INTERNUSA

THE VIDA OFFICE BUILDING LT.7 JL. PEJUANGAN NO.8 KEBON JERUK

JAKARTA BARAT

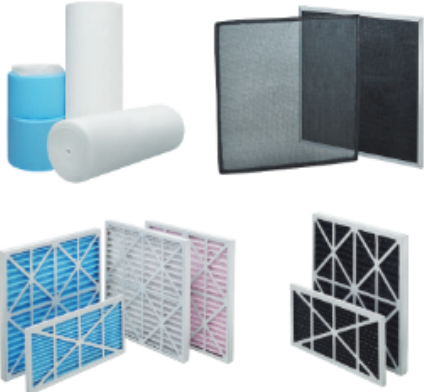
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ISO 9001:2015

ISO 45001:2018

Quick Selection Guide

				Filter Grade			Air Filter Selection	
Pre-Filtration	Medium Efficiency	Primary	ASHRAE 52.2 - 2017	US	EN 779:2012	EU	GLOBAL	
				MERV 2 - 4 MERV 5 - 6 MERV 7 - 9		G2 ≥ 65% G3 ≥ 80% G4 ≥ 90% Average Arrestance		
Secondary-Filtration	High Efficiency	Medium	ASHRAE 52.2 - 2017	MERV 10 MERV 11 - 12	EN 779:2012	M5 ≥ 40% M6 ≥ 60%	ISO 16890 2016	
		Fine		MERV 13 MERV 14 MERV 15 Minimum Efficiency Reporting Value		F7 ≥ 80% F8 ≥ 90% F9 ≥ 95% Average Efficiency		
Final Filters-Clean Room	Very High Efficiency	EPA	PTFE	DOP 0.3 μm ≥ 95% ≥ 99.9%	EN 1822:2009	MPPS (Most penetrating Particle Size) E10 ≥ 85% E11 ≥ 95% E12 ≥ 99.5%		
		HEPA		≥ 99.97% ≥ 99.99% ≥ 99.999%		H13 ≥ 99.95% H14 ≥ 99.995%		
Fan Filter Unit	RM Design	ULPA	PTFE	DOP 0.1 μm	EN 1822:2009	U15 ≥ 99.9995% U16 ≥ 99.99995% U17 ≥ 99.999995%		
Gel / Gasket Type								
Newer Technology		Multipurpose Microbial Filter-Deodorant & Anti-Bacterial						

Coarse Efficiency / Pre-Filtration



Media Rolls
& Pads
P.1



Permanent Mesh
Air Filters
P.2



Extended Surface
Filters
P.3



Carbon Pleated
Filters
P.4

Medium Efficiency / Secondary-Filtration



Ultra Sonic Synthetic
Pocket Filters
P.5-P.6



Rigid Cell
Filters
P.7



Separator Medium
Filters
P.8



Medium ABS
Frame Filters
P.9



Medium Glass
Fiber Filters
P.10



Aluminum & Stainless
Steel Air Filters
P.11

Final Filters / Clean Room



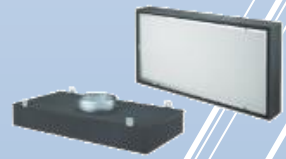
Mini Pleat Type
HEPA / ULPA Filters
P.12



Gel Filters
P.13



Disposable Standard Capacity
HEPA Filter Unit
P.14



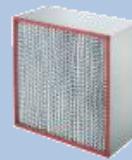
Room Side Replaceable
HEPA Filter Unit
P.15



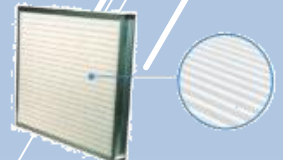
V-Bank HEPA
Filters
P.16



Separator Type
HEPA Filters
P.17



Separator High Temperature
HEPA Filters
P.18



PTFE Membrane For
HEPA / ULPA Filters
P.19-P.20

Terminal Filter Housings



Fan Filter Unit
- AC Type
P.21



Fan Filter Unit
- DC Type
P.22



Fan Filter Unit
- Thin Type
P.23

Coarse Efficiency / Pre-Filtration

Media Rolls & Pads



Material Overview

- ◆ Low initial resistance
- ◆ High dust holding capacity
- ◆ For Pre-Filtration of Air Inlet

Application

- ◆ For fine filtration in air conditioning devices and installations, particularly final filtration in automotive spray booths and drying cabinets

Standard

ASHRAE 52.2:2017	MERV 4 - 8
EN779:2012	G1 - G4
Media Type	Polyester Fibre By Roll
Rec. Final Resistance	250 Pa
Max Operating Temperature	80°C

Model	Dimension W x L (M)	Thickness (mm)	Initial P.D (mmAq)	Final P.D (mmAq)	Face Velocity (m/sec)
G1 Classification					
CG	1 x 50	3	3	15	2.5
G2 Classification (MERV 4)					
CG	1 x 50	5	4	15	2.5
G3 Classification (MERV 6)					
CG	1 x 20	10	5	20	2.5
	1 x 20	15	6	20	2.5
G4 Classification (MERV 8)					
CG	1 x 20	20	7	20	2
	1 x 20	25	7	20	2
	1 x 20	30	8	20	2

* Other dimensions are available on request *

Permanent Mesh Air Filters



Material Overview

- Aluminum frame
- Reduce maintenance cost
- Low resistance against airflow
- Easy clean
- Easy install
- Longer use time

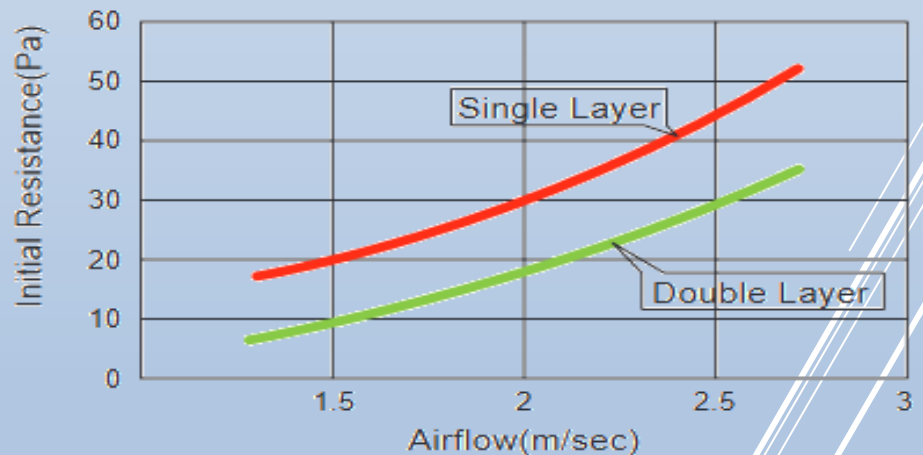
Application

- AHU

Standard

Filter Depth (Inches)	1", 2"
Media Type	PE, PP, Nylon
Frame Material	Aluminum (Standard)
Rec. Final Resistance	250 Pa
Max Operating Temperature	70°C

Initial Resistance vs. Airflow



Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)	Remark
1"					
DC	12 x 24 x 1	289 x 593 x 22	1,700	26	Single Layer
	24 x 24 x 1	593 x 593 x 22	3,400		
2"					
DC	12 x 24 x 2	289 x 593 x 45	1,700	39	Double Layer
	24 x 24 x 2	593 x 593 x 45	3,400		

Coarse Efficiency / Pre-Filtration

Extended Surface Filters



Material Overview

- ◆ Moisture resistant cardboard frame
- ◆ Robust construction
- ◆ Comprehensive range of standard and non standard sizes

Application

- ◆ Prevent of dust and dirt built up on treating/cooling coils within ventilation systems

Standard

ASHRAE 52.2:2017	MERV 8
EN779:2012	G4
Efficiency Available	G4 - F8
Filter Depth (Inches)	1", 2", 4"
Media Type	Non-Woven Cotton Synthetic Blend
Frame Material	Moisture Resistant Beverage Board
Rec. Final Resistance	250 Pa
Max Operating Temperature	93°C

Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
1"				
CA	12 x 24 x 1	289 x 593 x 22	1,700	102
	20 x 24 x 1	492 x 593 x 22	2,800	
	24 x 24 x 1	593 x 593 x 22	3,400	
2"				
CA	12 x 24 x 2	289 x 593 x 45	1,700	75
	20 x 24 x 2	492 x 593 x 45	2,800	
	24 x 24 x 2	593 x 593 x 45	3,400	
4"				
CA	12 x 24 x 4	289 x 593 x 95	1,700	50
	20 x 24 x 4	492 x 593 x 95	2,800	
	24 x 24 x 4	593 x 593 x 95	3,400	

* Other dimensions are available on request *

Coarse Efficiency / Pre-Filtration

Carbon Pleated Filters



Material Overview

- ◆ 100% incinerable, Low pressure drop
- ◆ Can be used to upgrade existing installations
- ◆ Lightweight and clean

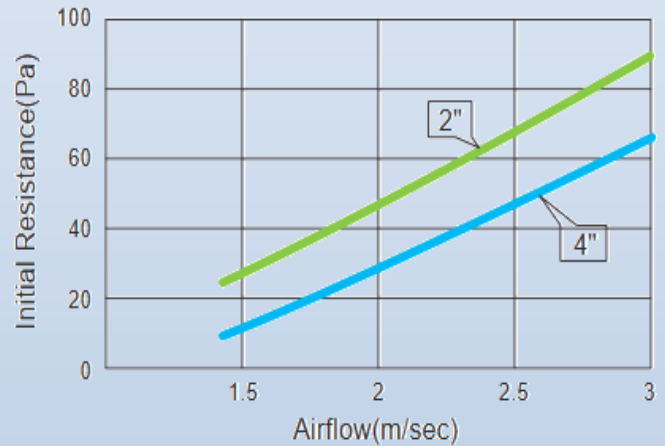
Application

- ◆ Odors removed by Activated Carbon
- ◆ Food Odors
- ◆ Paint Fumes
- ◆ Ozone

Standard

ASHRAE 52.2:2017	MERV 8
EN779:2012	G4
Filter Depth (Inches)	2", 4"
Media Type	Non-Woven+Activated Carbon
Frame Material	Moisture Resistant Beverage Board
Rec. Final Resistance	350 Pa
Max Operating Temperature	40°C

Initial Resistance vs. Airflow



Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
2"				
CEPA	12 x 24 x 2	289 x 593 x 45	1,700	65
	20 x 20 x 2	492 x 492 x 45	2,380	
	20 x 24 x 2	492 x 593 x 45	2,800	
	24 x 24 x 2	593 x 593 x 45	3,400	
4"				
CEPA	12 x 24 x 4	289 x 593 x 95	1,700	45
	20 x 20 x 4	492 x 492 x 95	2,380	
	20 x 24 x 4	492 x 593 x 95	2,800	
	24 x 24 x 4	593 x 593 x 95	3,400	

* Other dimensions are available on request

Medium Efficiency / Secondary-Filtration

Ultra Sonic Synthetic Pocket Filters



Material Overview

- ◆ Extended surface multi pocket filter
- ◆ Comprehensive range of standard sizes
- ◆ High efficiency filtration with low resistance
- ◆ High efficiency
- ◆ Large surface area
- ◆ Ultra sonic welding technology

Application

- ◆ Air conditioning application

Standard

ASHRAE 52.2:2017	MERV 10 - 14
EN779:2012	M5 - F8
Filter Depth (Inches)	15" - 30"
Media Type	Synthetic Fibre Ultrasonic seaming Glass Fibre
Frame Material	Galvanized Steel (20mm header frame)
Rec. Final Resistance	250 Pa
Max Operating Temperature	70°C
Efficiency	M5 ≥ 40% (Brown) M6 ≥ 60% (Green) F7 ≥ 80% (Pink) F8 ≥ 90% (Yellow)

Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Number of Pocket	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
M5 Classification (MERV 10)					
CC	12 x 24 x 15	287 x 593 x 381	4	1,700	65
	20 x 24 x 15	508 x 593 x 381	6	2,800	
	24 x 24 x 15	593 x 593 x 381	6	3,400	
	24 x 24 x 15	593 x 593 x 381	8	3,400	
	12 x 24 x 21	287 x 593 x 533	4	1,700	60
	20 x 24 x 21	508 x 593 x 533	6	2,800	
	24 x 24 x 21	593 x 593 x 533	8	3,400	
	12 x 24 x 24	287 x 593 x 593	4	1,700	55
	20 x 24 x 24	508 x 593 x 593	6	2,800	
	24 x 24 x 24	593 x 593 x 593	8	3,400	
	12 x 24 x 30	287 x 593 x 760	4	1,700	50
	20 x 24 x 30	508 x 593 x 760	6	2,800	
	24 x 24 x 30	593 x 593 x 760	6	2,800	
	24 x 24 x 30	593 x 593 x 760	8	3,400	
	24 x 24 x 30	593 x 593 x 760	10	3,400	

Medium Efficiency / Secondary-Filtration

M6 Classification (MERV 11)

CC	12 x 24 x 15	287 x 593 x 381	4	1,700	85
	20 x 24 x 15	508 x 593 x 381	6	2,800	
	24 x 24 x 15	593 x 593 x 381	6	3,400	
	24 x 24 x 15	593 x 593 x 381	8	3,400	
	12 x 24 x 21	287 x 593 x 533	4	1,700	75
	20 x 24 x 21	508 x 593 x 533	6	2,800	
	24 x 24 x 21	593 x 593 x 533	8	3,400	
	12 x 24 x 24	287 x 593 x 593	4	1,700	70
	20 x 24 x 24	508 x 593 x 593	6	2,800	
	24 x 24 x 24	593 x 593 x 593	8	3,400	
	12 x 24 x 30	287 x 593 x 760	4	1,700	65
	20 x 24 x 30	508 x 593 x 760	6	2,800	
	24 x 24 x 30	593 x 593 x 760	6	2,800	
	24 x 24 x 30	593 x 593 x 760	8	3,400	
	24 x 24 x 30	593 x 593 x 760	10	3,400	

F7 Classification (MERV 13)

CC	12 x 24 x 15	287 x 593 x 381	4	1,700	120
	20 x 24 x 15	508 x 593 x 381	6	2,800	
	24 x 24 x 15	593 x 593 x 381	6	3,400	
	24 x 24 x 15	593 x 593 x 381	8	3,400	
	12 x 24 x 21	287 x 593 x 533	4	1,700	80
	20 x 24 x 21	508 x 593 x 533	6	2,800	
	24 x 24 x 21	593 x 593 x 533	8	3,400	
	12 x 24 x 24	287 x 593 x 593	4	1,700	75
	20 x 24 x 24	508 x 593 x 593	6	2,800	
	24 x 24 x 24	593 x 593 x 593	8	3,400	
	12 x 24 x 30	287 x 593 x 760	4	1,700	65
	20 x 24 x 30	508 x 593 x 760	6	2,800	
	24 x 24 x 30	593 x 593 x 760	6	2,800	
	24 x 24 x 30	593 x 593 x 760	8	3,400	
	24 x 24 x 30	593 x 593 x 760	10	3,400	

F8 Classification (MERV 14)

CC	12 x 24 x 15	287 x 593 x 381	4	1,700	160
	20 x 24 x 15	508 x 593 x 381	6	2,800	
	24 x 24 x 15	593 x 593 x 381	6	3,400	
	24 x 24 x 15	593 x 593 x 381	8	3,400	
	12 x 24 x 21	287 x 593 x 533	4	1,700	105
	20 x 24 x 21	508 x 593 x 533	6	2,800	
	24 x 24 x 21	593 x 593 x 533	8	3,400	
	12 x 24 x 24	287 x 593 x 593	4	1,700	95
	20 x 24 x 24	508 x 593 x 593	6	2,800	
	24 x 24 x 24	593 x 593 x 593	8	3,400	
	12 x 24 x 30	287 x 593 x 760	4	1,700	80
	20 x 24 x 30	508 x 593 x 760	6	2,800	
	24 x 24 x 30	593 x 593 x 760	6	2,800	
	24 x 24 x 30	593 x 593 x 760	8	3,400	
	24 x 24 x 30	593 x 593 x 760	10	3,400	

* Other dimensions are available on request *

Medium Efficiency / Secondary-Filtration

Rigid Cell Filters



Material Overview

- ◆ Range of standard sizes
- ◆ Rigid design concept
- ◆ Ideal for variable Air Volume (VAV) systems
- ◆ Suitable for turbulent airflow

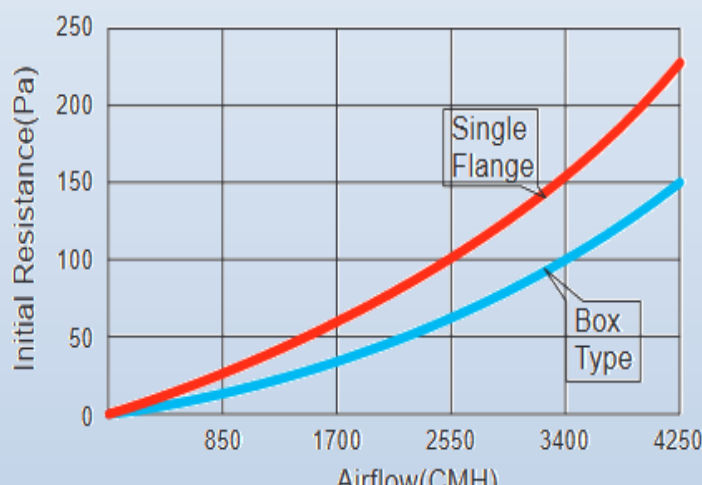
Application

- ◆ Air conditioning applications

Standard

ASHRAE 52.2:2017	MERV 10 - 14
EN779:2012	M5 - F8
Filter Depth (Inches)	6", 12"
Media Type	Glass Fibre, Synthetic Fibre
Frame Material	Galvanized Steel
Frame Type	Single Flange, Box Type
Rec. Final Resistance	450 Pa
Max Operating Temperature	70°C

Initial Resistance vs. Airflow



Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
M5 Classification (MERV 10)				
BW	12 x 24 x 6	290 x 595 x 150	1,020	70
	24 x 24 x 6	595 x 595 x 150	2,040	
	12 x 24 x 12	290 x 595 x 290	1,700	44
	24 x 24 x 12	595 x 595 x 290	3,400	
M6 Classification (MERV 11)				
BW	12 x 24 x 6	290 x 595 x 150	1,020	90
	24 x 24 x 6	595 x 595 x 150	2,040	
	12 x 24 x 12	290 x 595 x 290	1,700	67
	24 x 24 x 12	595 x 595 x 290	3,400	
F7 Classification (MERV 13)				
BW	12 x 24 x 6	290 x 595 x 150	1,020	116
	24 x 24 x 6	595 x 595 x 150	2,040	
	12 x 24 x 12	290 x 595 x 290	1,700	88
	24 x 24 x 12	595 x 595 x 290	3,400	
F8 Classification (MERV 14)				
BW	12 x 24 x 6	290 x 595 x 150	1,020	169
	24 x 24 x 6	595 x 595 x 150	2,040	
	12 x 24 x 12	290 x 595 x 290	1,700	129
	24 x 24 x 12	595 x 595 x 290	3,400	

* Other dimensions are available on request *

Medium Efficiency / Secondary-Filtration

Separator Medium Filters



Material Overview

- ◆ Fine fibre ensures that filter maintains its efficiency throughout its life in the system
- ◆ Suitable for variable airflow
- ◆ High dust holding capacity Robust design

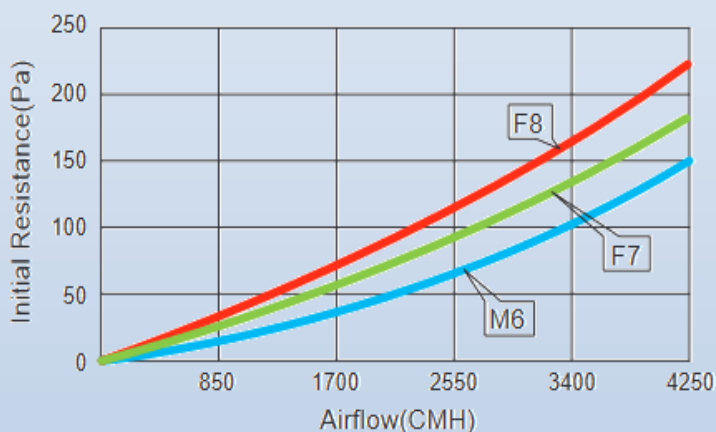
Application

- ◆ Built-up filter banks, rooftops, split systems, free-standing units, package systems and air handlers

Standard

ASHRAE 52.2:2017	MERV 11 - 14
EN779:2012	M6 - F8
Filter Depth (Inches)	12"
Media Type	Glass Fibre
Frame Material	Galvanized Steel, Aluminum MDF, Plywood
Separator Style	Aluminum
Header Type	Single Flange, Box Type
Rec. Final Resistance	350 Pa
Max Operating Temperature	90°C

Initial Resistance vs. Airflow (24"x24"x12")



Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Header Type	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
M6 Classification (MERV 11)					
BA	12 x 24 x 12	289 x 593 x 292	Box	1,700	110
	24 x 24 x 12	593 x 593 x 292		3,400	
	12 x 24 x 12	289 x 593 x 292	Single	1,700	
	24 x 24 x 12	593 x 593 x 292		3,400	
F7 Classification (MERV 13)					
BA	12 x 24 x 12	289 x 593 x 292	Box	1,700	150
	24 x 24 x 12	593 x 593 x 292		3,400	
	12 x 24 x 12	289 x 593 x 292	Single	1,700	
	24 x 24 x 12	593 x 593 x 292		3,400	
F8 Classification (MERV 14)					
BA	12 x 24 x 12	289 x 593 x 292	Box	1,700	160
	24 x 24 x 12	593 x 593 x 292		3,400	
	12 x 24 x 12	289 x 593 x 292	Single	1,700	
	24 x 24 x 12	593 x 593 x 292		3,400	

* Other dimensions are available on request *

Medium Efficiency / Secondary-Filtration

Medium ABS Frame Filters



Material Overview

- ◆ Long operating life
- ◆ Light and robust
- ◆ Very low Energy Consumption
- ◆ Less frequent changes
- ◆ Higher dust holding capacity

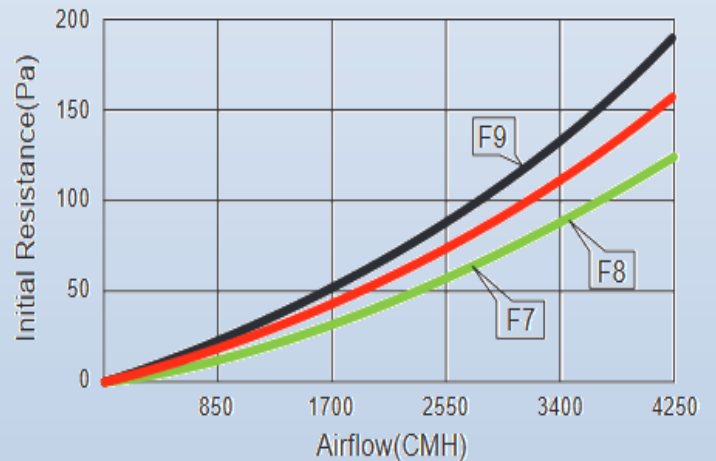
Application

- ◆ Air conditioning applications and preparatory filtration in clean rooms

Standard

ASHRAE 52.2:2017	MERV 11 - 15
EN779:2012	M6 - F9
Filter Depth (Inches)	12"
Media Type	Glass Fibre
Frame Material	ABS
Separator Style	Hot Melt
Header Type	Single Flange
Rec. Final Resistance	450 Pa
Max Operating Temperature	70°C

Initial Resistance vs. Airflow (24"x24"x12")



Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
M6 Classification (MERV 11)				
ALAB	12 x 24 x 12	289 x 595 x 292 x 3V	1,700	80
	24 x 24 x 12	595 x 595 x 292 x 4V	3,400	
F7 Classification (MERV 13)				
ALAB	12 x 24 x 12	289 x 595 x 292 x 3V	1,700	90
	24 x 24 x 12	595 x 595 x 292 x 4V	3,400	
F8 Classification (MERV 14)				
ALAB	12 x 24 x 12	289 x 595 x 292 x 3V	1,700	110
	24 x 24 x 12	595 x 595 x 292 x 4V	3,400	
F9 Classification (MERV 15)				
ALAB	12 x 24 x 12	289 x 595 x 292 x 3V	1,700	130
	24 x 24 x 12	595 x 595 x 292 x 4V	3,400	

* Other dimensions are available on request *

Final Filters / Clean Room

Mini Pleat Type HEPA / ULPA Filters



Material Overview

- ◆ Gasket Seal design
- ◆ Lowest possible Pressure drop from micro glass media
- ◆ Individually tested for certified performance

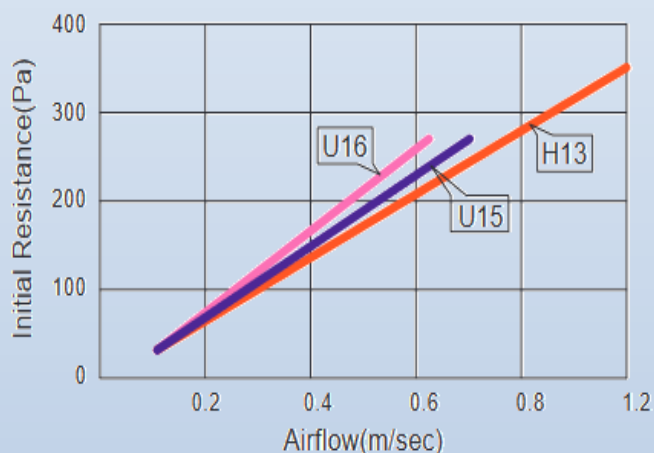
Application

- ◆ HEPA/ULPA filter for clean rooms and LAF benches

Standard

EN1822:2009	H13 - U16
Filter Depth (Inches)	3"
Media Type	Glass Fibre, PTFE
Frame Material	Aluminum
Separator Style	Hot Melt
Gasket Material	PU, Neoprene, EPDM, RB
Gasket Position	Both sides
Faceguard Position	Both sides
Rec. Final Resistance	2x Initial pressure drop
Max Operating Temperature	70°C

Initial Resistance vs. Airflow

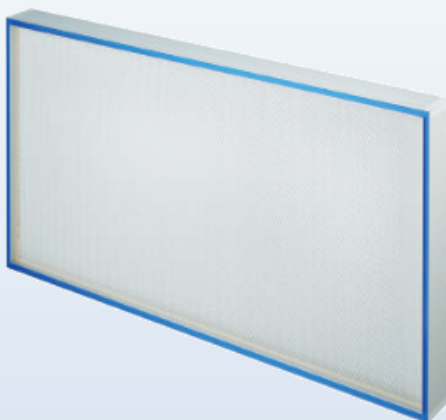


Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMM)	Rated Initial Resistance (Pa)
H13 Classification				
AA	12 x 24 x 3	305 x 610 x 70	5	120
	24 x 24 x 3	570 x 570 x 70	9.5	
	24 x 24 x 3	610 x 610 x 70	10	
	24 x 30 x 3	610 x 760 x 70	12.5	
	24 x 36 x 3	610 x 915 x 70	13.9	
	24 x 48 x 3	570 x 1170 x 70	17.2	
	24 x 48 x 3	610 x 1220 x 70	20	
U16 Classification				
AA	12 x 24 x 3	305 x 610 x 70	5	135
	24 x 24 x 3	570 x 570 x 70	9.5	
	24 x 24 x 3	610 x 610 x 70	10	
	24 x 30 x 3	610 x 760 x 70	12.5	
	24 x 36 x 3	610 x 915 x 70	13.9	
	24 x 48 x 3	570 x 1170 x 70	17.2	
	24 x 48 x 3	610 x 1220 x 70	20	

* Other dimensions are available on request *

Final Filters / Clean Room

Gel Filters



Material Overview

- ◆ Gel seal design
- ◆ Light weight
- ◆ Available in a range of efficiencies

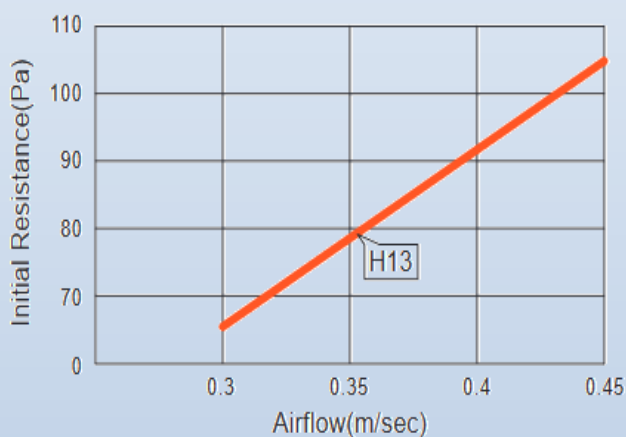
Application

- ◆ HEPA filter for clean rooms and LAF benches

Standard

EN1822:2009	H13
Filter Depth (Inches)	3"
Media Type	Glass Fibre
Frame Material	Aluminum
Separator Style	Hot Melt
Faceguard Position	Both sides
Rec. Final Resistance	2x Initial pressure drop
Max Operating Temperature	70°C

Initial Resistance vs. Airflow

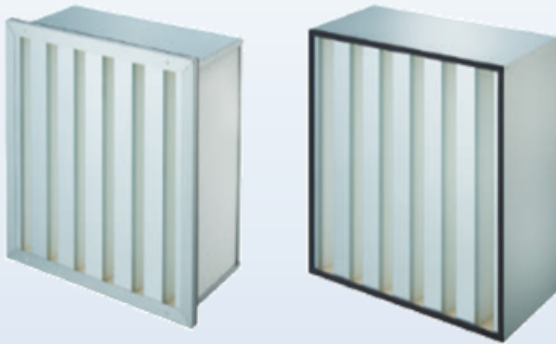


Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMM)	Rated Initial Resistance (Pa)
H13 Classification				
AI	24 x 24 x 3	570 x 570 x 85	8	130
		580 x 580 x 85	9	
		610 x 610 x 85	10	
	24 x 48 x 3	570 x 1180 x 85	18	
		580 x 1190 x 85	19	
		610 x 1220 x 85	20	

* Other dimensions are available on request *

Final Filters / Clean Room

V-Bank HEPA Filters



Material Overview

- ◆ High air flow rates, up to 5000 m3/hr
- ◆ Tested in accordance with EN1822
- ◆ High filter surface area offers low pressure drop for energy savings and longer life

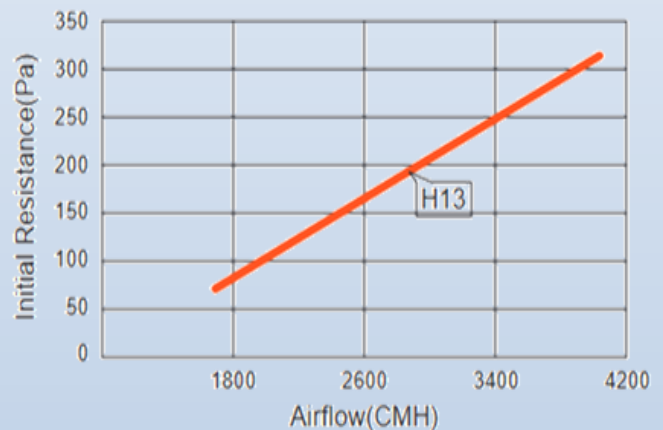
Application

- ◆ Very high efficiency final filtration in air condition

Standard

EN1822:2009	H13, H14
Filter Depth (Inches)	12"
Media Type	Glass Fibre
Frame Material	Galvanized Steel (Standard) Stainless Steel, Aluminum
Gasket Material	PU, Neoprene, EPDM, RB
Header Type	Single Flange, Double Flange Box Type
Rec. Final Resistance	2x Initial pressure drop
Max Operating Temperature	70°C

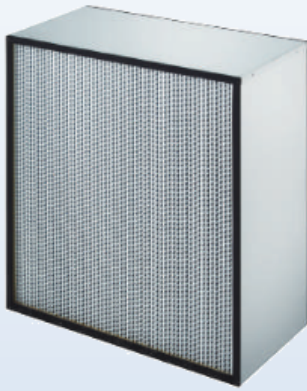
Initial Resistance vs. Airflow (24"x24"x12")



Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
H13 Classification				
AL	12 x 24 x 12	289 x 595 x 292	1,500	250
	12 x 24 x 12	305 x 610 x 292	1,700	
	24 x 24 x 12	595 x 595 x 292	3,000	
	24 x 24 x 12	610 x 610 x 292	3,400	
H14 Classification				
AL	12 x 24 x 12	305 x 610 x 292	1,500	250
	12 x 24 x 12	305 x 610 x 292	1,700	
	24 x 24 x 12	610 x 610 x 292	3,000	
	24 x 24 x 12	610 x 610 x 292	3,400	

* Other dimensions are available on request *

Separator Type HEPA Filters



Material Overview

- ◆ Deep Pleated
- ◆ Low pressure drop with high capacity
- ◆ Available in varieties of cell sides and efficiencies
- ◆ All HEPA filter efficiency is tested in accordance with EN 1822
- ◆ Available standard (STD series) and High (HI series) capacity series

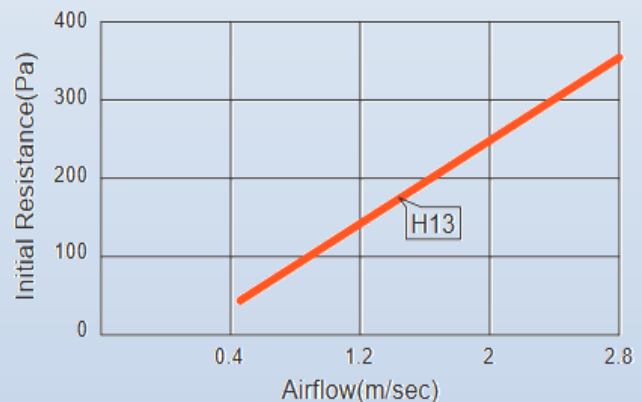
Application

- ◆ Used as final filter in hospital, pharmaceutical and food processing industry

Standard

EN1822:2009	H13, H14
Filter Depth (Inches)	12"
Media Type	Glass Fibre
Frame Material	Galvanized Steel (Standard) Stainless Steel, Aluminum Plywood
Separator Style	Aluminum
Gasket Material	PU, Neoprene, EPDM, RB
Gasket Position	Downstream, Upstream Both sides
Header Type	Single Flange, Double Flange Box Type
Rec. Final Resistance	2x Initial pressure drop
Max Operating Temperature	70°C

Initial Resistance vs. Airflow



Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
H13 Classification				
BA	12 x 24 x 12	305 x 610 x 290	850	250
	24 x 24 x 12	610 x 610 x 290	1,700	
H14 Classification				
BA	12 x 24 x 12	305 x 610 x 290	850	250
	24 x 24 x 12	610 x 610 x 290	1,700	
H13 Classification (HI)				
BA	12 x 24 x 12	305 x 610 x 290	1,700	350
	24 x 24 x 12	610 x 610 x 290	3,400	
H14 Classification (HI)				
BA	12 x 24 x 12	305 x 610 x 290	1,700	350
	24 x 24 x 12	610 x 610 x 290	3,400	

Final Filters / Clean Room

Separator High Temperature HEPA Filters



Material Overview

- ◆ High efficiency
- ◆ Max operating temperature

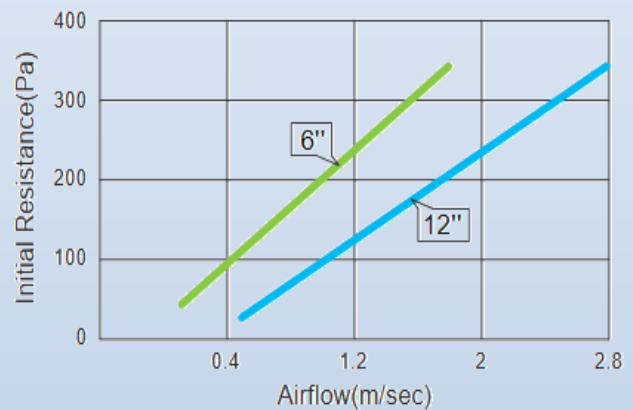
Application

- ◆ Paint bake over and other high temperature applications

Standard

EN1822:2009	H13
Filter Depth (Inches)	6", 12" (Standard)
Media Type	Glass Fibre
Frame Material	Stainless Steel
Separator Style	Aluminum
Gasket Material	Red Silicone
Sealant	Red Silicone
Header Type	Box Type
Rec. Final Resistance	2x Initial pressure drop
Max Operating Temperature	150°C ~ 350°C

Initial Resistance vs. Airflow

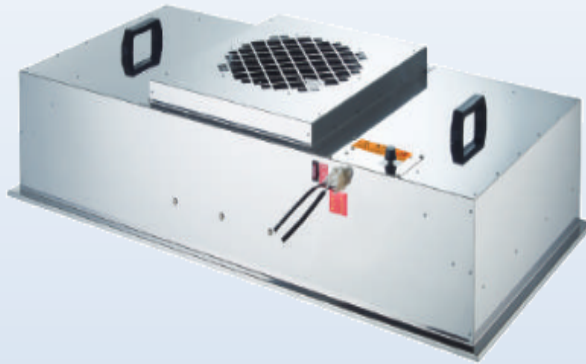


Model	Nominal Size Inches (H x W x D)	Actual Size mm (H x W x D)	Rated Airflow (CMH)	Rated Initial Resistance (Pa)
Standard Capacity				
BC	12 x 24 x 6	305 x 610 x 150	510	250
	24 x 24 x 6	610 x 610 x 150	1,020	
	12 x 24 x 12	305 x 610 x 292	890	
	24 x 24 x 12	610 x 610 x 292	1,900	
High Capacity				
BC	12 x 24 x 12	305 x 610 x 292	1,700	336
	24 x 24 x 12	610 x 610 x 292	3,400	

* Other dimensions are available on request *

Terminal Filter Housings

Fan Filter Unit - AC Type



Material Overview

- ◆ 3D Airfoil turbo fan High-efficient & Low-noise
- ◆ Flexible change design
- ◆ Convenient design of installation
- ◆ Easy carry/handle friendly design
- ◆ Multiple safe protect devices

Standard

Housing Material	Galvanized, Stainless Steel, Aluminum
Power Supply	220V 1 Phase 50/60 Hz
Air Velocity	0.3-0.5 m/s
Total Static Pressure	TSP 250 Pa
Cabinet Material	Stainless (SUS430, SUS304), AL-ZN Alloy Sheet, Galvanized Sheet Iron
Fan Runner	Airfoil Turbo Fan Runner
Airflow Control	3 Speeds / Stepless Speed Monitored Type
Filter Efficiency	Over 99.99% at particle Dia., Over 0.3 μ m or 99.9999% at 0.1 μ m
Filter Frame	Aluminum
Voltage Type	1 ph 110V-220V, 3 ph 220V-380V, 50/60 Hz
Noise Level (dBA)	< 60
Optional	Pre Filter, Collar, Insulation, Hanger, Electrical Cable

Model	Housing Size mm (H x W x D)	Filter Size mm (H x W x D)	Rated Airflow (CMM)	Power Consumption (W)
FFU-220EL	575 x 575 x 290	570 x 570 x 70	10	180
FFU-240EL	575 x 1175 x 250	570 x 1170 x 70	15	180
FFU-440EL	1175 x 1175 x 290	1170 x 1170 x 70	30	220

* Other dimensions are available on request *

Terminal Filter Housings

Fan Filter Unit - DC Type



Material Overview

- ◆ 3D Airfoil turbo fan High-efficient & Low-noise
- ◆ Flexible change design
- ◆ Convenient design of installation
- ◆ Easy carry/handle friendly design
- ◆ Multiple safe protect devices

Standard

Housing Material	Galvanized, Stainless Steel, Aluminum
Power Supply	220V 1 Phase
Air Velocity	0.3-0.5 m/s
Total Static Pressure	TSP 250 Pa
Cabinet Material	Stainless (SUS430, SUS304), AL-ZN Alloy Sheet, Galvanized Sheet Iron
Fan Runner	Airfoil Turbo Fan Runner
Airflow Control	Stepless Speed Monitored Type with RS485
Filter Efficiency	Over 99.99% at particle Dia., Over 0.3μm or 99.9999% at 0.1μm
Filter Frame	Aluminum
Voltage Type	1 ph 220V-240V
Noise Level (dBA)	< 65
Optional	Pre Filter, Collar, Insulation, Hanger, Electrical Cable

Model	Housing Size mm (H x W x D)	Filter Size mm (H x W x D)	Rated Airflow (CMM)	Power Consumption (W)
FFU-220EC	575 x 575 x 320	570 x 570 x 70	10	90
FFU-240EC	575 x 1175 x 280	570 x 1170 x 70	15	90
FFU-440EC	1175 x 1175 x 330	1170 x 1170 x 70	30	120

* Other dimensions are available on request *



CERTIFICATE OF REGISTRATION

This is to Certify that the Quality Management System of:

PT. SARANA TEKNIK INTERNUSA

The Vida Office Building Lantai 7 Jl. Raya Perjuangan No. 8,
Kebon Jeruk, Jakarta Barat 11530, Jakarta, Indonesia

has been independently assessed and is complying with the requirements of:

ISO 9001:2015

This Certificate is Applicable to the Following Product or service ranges:

**Engineering Validation, Cleanroom, Equipment Cleanroom,
Filtration, HVAC, Air Filter**

Date Initial Assessment : Sep, 07th, 2023
Date Registration : Sep, 15th, 2023
1st Surveillance on or before : Aug, 15th, 2024
2nd Surveillance on or before : Aug, 15th, 2025
Recertification on or before : Sep, 14th, 2026

Certificate No : 230915002339K001
Date of Expiry : Sep, 14th, 2026



VRC International is the brand of PT. Valuabilitas Reabilitas Certi on conformity assessment service. VRC International has strictly followed all requirements of ISO 17021 for Conformity Assessment body and met all requirements of all Mandatory Documents of International Accreditation Forum for the Management System Certification Scheme.

The approval is subject to the company maintaining its system the required standards, which will be monitored by VRC International. The above audited unaccredited scope shall be monitored by VRC International Management scheme regulation.

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The certificate remains the property of VRC International, to whom it must be returned upon request.



INTERNATIONAL

CERTIFICATE OF REGISTRATION

**This is to Certify that the Occupational Health and Safety
Management System of:**

PT. SARANA TEKNIK INTERNUSA

The Vida Office Building Lantai 7 Jl. Raya Perjuangan No. 8,
Kebon Jeruk, Jakarta Barat 11530, Jakarta, Indonesia

has been independently assessed and is complying with the requirements of:

ISO 45001:2018

This Certificate is Applicable to the Following Product or service ranges:

**Engineering Validation, Cleanroom, Equipment Cleanroom,
Filtration, HVAC, Air Filter**

Date Initial Assessment : Sep, 07th, 2023
Date Registration : Sep, 15th, 2023
1st Surveillance on or before : Aug, 15th, 2024
2nd Surveillance on or before : Aug, 15th, 2025
Recertification on or before : Sep, 14th, 2026

Certificate No : 2309150023345K001
Date of Expiry : Sep, 14th, 2026



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PT. Sarana Teknik Internusa

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