



NITTA: Clean Air Systems

NITTA started its operations in the year 1885 in Osaka, Japan with a mission is to work closely with customers and suppliers based on the spirit of "Invention & Innovation." NITTA is the leading provider of air filtration solutions that help companies create superior air quality and better manage their HVAC systems.

As a manufacturer, the Nitta Group works to save energy, conserve resources, and reduce waste in its production activities. We also develop and provide Energy Efficient Filters and Products that will help our customers to save energy and conserve resources.



We have developed and provided products that meet the needs of the times for over decades and have gained strong trust from our many stakeholders. Driving positive change through the relentless pursuit of excellence and creating products that are useful for customers and society.



By creating products that lead us into the future, we continue to enhance our corporate value while evolving as manufacturing focused innovators

NITTA: Japanese Technology..... Make in India......

Nitta Filters India Pvt Ltd, an ISO 9001:2015 certified company is a Joint Venture of NITTA Corporation, Japan. We strive to provide products that meet our customers' needs and expectations. We are proud to be a part of the culture of quality developed at Nitta Corporation since 1885.

HEPA filters are designed for use in cleanrooms, Dry rooms, Laminar Flow units, biohazard units and other clean environments. They are classified as H13, H14 & U15 - U17 in accordance with ISO 29463 and EN1822 standards. These filters ensure contamination control in cleanroom environments as per the standards. They are Compact, light weight and easy to install in very less space either in open plenum area, as terminal HEPA or other housing systems.

All the HEPA Filters are manufactured inside Cleanroom environment and each individual Filter is Auto Scan tested to meet the stringent quality requirements

Nitta is committed to achieve customer satisfaction through adherence to quality system and continual improvement activities for delivering timely cost effective and Quality Products & Services. In its pursuit of excellence Nitta shall strive for achievement of an Eco-friendly environment.



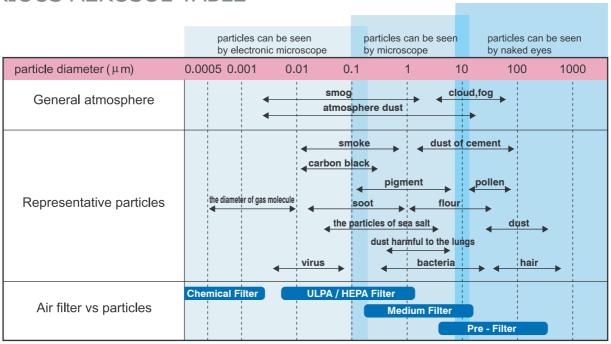
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APPLICATION GUIDELINES

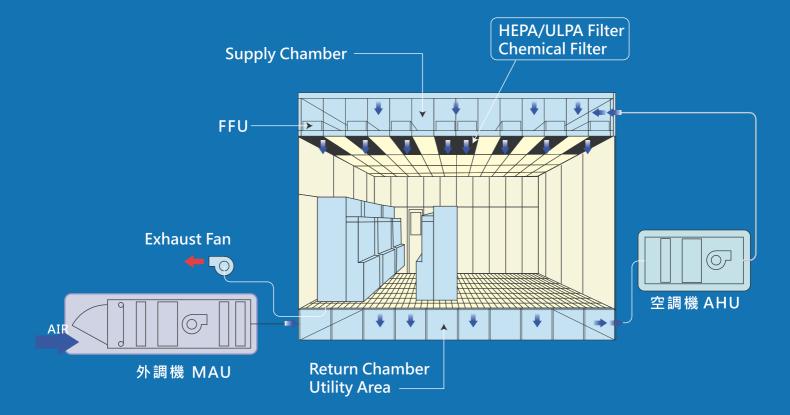
	EN Std.	As	hrae Sto	d.52	IES-RP-	CC001.3 Std.			
FILTER CLASS	Efficiency	MERV	Dust Spot Efficiency	Arrestance	Performance Levels	Efficiency	TNF Product		
U17	99.999995%(MPPS)						Panel Type Filter / PTFE		
U16	99.99995%(MPPS)						Panel Type Filter / PTFE		
U15	99.9995%(MPPS)	20			Type F	99.999%(0.1-0.2μm)	Panel / Cell Type Filter		
H14	99.995%(MPPS)	19			Type D	99.999%(0.3µm)	Panel / Cell Type Filter		
H13	99.95%(MPPS)	18			Type C	99.99%(0.3μm)	Panel / Cell Type Filter		
E12	99.5%(MPPS)	17			Type A	99.97%(0.3µm)	Panel / Cell Type Filter		
E11	95%(MPPS)	16					Cell Type J HEPA Filter		
E10	85%(MPPS)	16							
F9	95≤Em	15	>95%						
F8	90≤Em<95%	14	90 - 95%	>98%			Cell Type / eSP EMILENT™		
F7	80≤Em<90%	13	80 - 90%	>98%			Bag Filter		
140	00 5 0000	12	70 - 75%	>95%					
M6	60≤Em<80%	11	60 - 65%	>95%			Bag Filter		
N 45	40 45 2000/	10	50 - 55%	>95%					
M5	40≤Em<60%	9	40 - 45%	>90%					
_		8	30 - 35%	>90%			Pre Filter		
G4	90≤Am	7	25 - 30%	>90%					
		6	<20%	85 - 90%					
G3	80≤Am<90%	5	<20%	80 - 85%			Pre Filter		
		4	<20%	75 - 80%					
G2	65≤Am<80%	3	<20%	70 - 75%					
		2	<20%	65 - 70%					
G1	Am<65%	1	<20%	<65%					

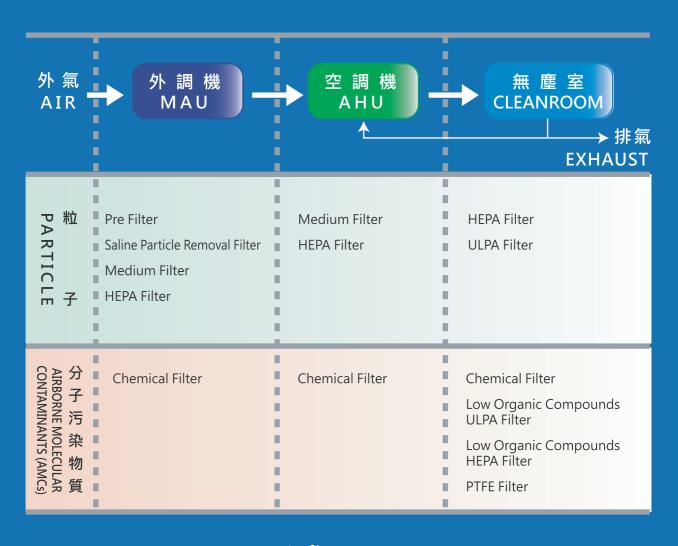
U : ULPA Filter H : HEPA Filter E10~U17 : CEN EN1822 G1~F9 : CEN EN779 MPPS = Most Penetrating Particle Size Em : Average Efficiency Em on atmospheric Dust Am : Average arrestance Am on Synthetic Dust

VARIOUS AEROSOL TABLE

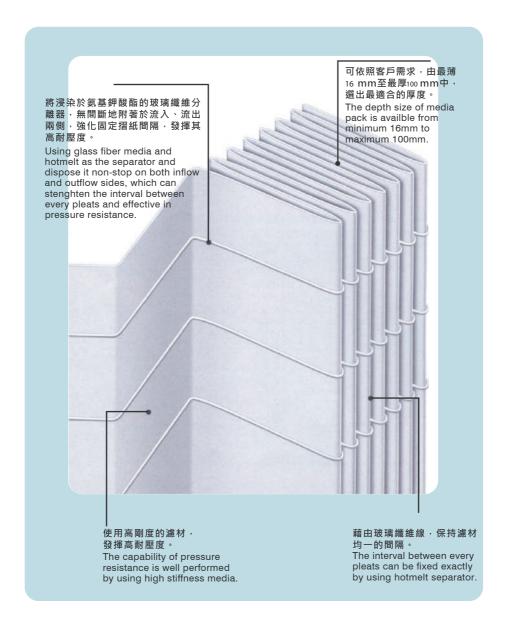


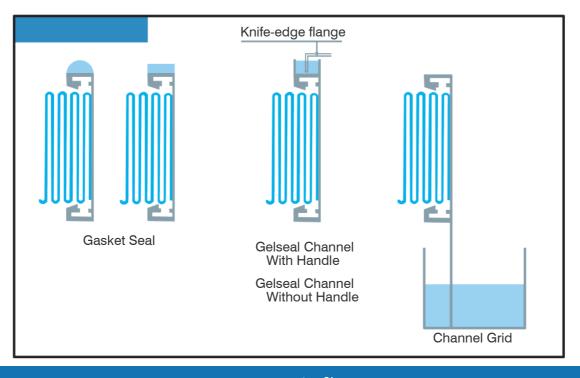
AIR FILTER APPLICATION GUIDELINE





CONSTRUCTION OF SPLEATS





Pleated Filter

Pre Filter

Pleating type panel construction with High efficiency synthetic media in metal frame.



Specification

ASHRAE 52.2	MERV 5,7,8
EN779	G3, G4
Media	Synthetic
Filter Class	ISO Coarse
Application	Industrial, coarse pre-filtration
Filter Depth	2",4"
Frame	Aluminium , SS 304, GIPC
Recomm. Final Pressure drop	250 Pa
Operating Temp	Ambient Temp

Pre Filter

ROD Type Design with High efficiency synthetic media in metal frame.



Specification

ASHRAE 52.2	MERV 5,7,8
EN779	G3, G4
Media	Synthetic
Filter Class	ISO Coarse
Application	Industrial, coarse pre-filtration
Filter Depth	2",4"
Frame	Aluminium , SS 304, GIPC
Recomm. Final Pressure drop	250 Pa
Operating Temp	Ambient Temp

Pre Filter

Pleating type panel construction with High efficiency synthetic media in Cardboard Frame



Pre Filter

Pleating type panel construction with High efficiency synthetic media in Cardboard Frame.



Specification

ASHRAE 52.2	MERV 8
EN779	G4
Media	Synthetic Cotton Blend
Filter Class	ISO Coarse
Application	Industrial, coarse pre-filtration
Filter Depth	2",4"
Frame	Moisture Resistant Beverage Board
Recomm. Final Pressure drop	250 Pa
Operating Temp	Ambient Temp

ASHRAE 52.2	MERV 5
EN779	G3
Media	FiberGlass
Filter Class	ISO Coarse
Application	Industrial, coarse pre-filtration
Filter Depth	2",4"
Frame	Moisture Resistant Beverage Board
Recomm. Final Pressure drop	250 Pa
Operating Temp	Ambient Temp

Bag Filter

Pocket Pre Filter

Pocket filter Design with Melt Blown Synthetic, Water resistant media, it is suitable for IAQ, and Variable Air Volume



Specification

ASHRAE 52.2	MERV 7,8
EN779	G4
Media	Synthetic
Filter Class	ISO Coarse
Application	General Ventilation
Header Thickness	20mm, 25mm
Filter Depth	12" , 24"
Frame	Galvanized steel,
	Aluminium
Recomm. Final Pressure drop	250 Pa
Operating Temp	60°C

Pocket Fine Filter

Pocket filter Design with Synthetic, with High Dust holding capacity with Low Initial Pressure drop



Specification

ASHRAE 52.2	MERV 10 -14
EN779	M5-F8
Media	Synthetic
Filter Class	ISO ePM2.5,- ISO ePM1
Application	General Ventilation and air
	Conditioning equipment
Filter Depth	12",24"
Frame	Galvanized steel, Aluminium
Recomm. Final Pressure drop	450 Pa
Operating Temp	60°C

Pocket Fine Filter

Pocket filter Design with Melt Blown Synthetic, Water resistant media, it is suitable for IAQ, and Variable Air Volume

Specification

ASHRAE 52.2	MERV 10
EN779	M5
Media	Synthetic
Filter Class	ISO ePM10
Application	General Ventilation
Header Thickness	20mm, 25mm
Filter Depth	12" , 24"
Frame	Galvanized steel,
	Aluminium
Recomm. Final Pressure drop	450 Pa
Operating Temp	60°C

Pocket filter with Plastic Frame

Pocket filter Design with Synthetic media, with High Dust holding capacity with Low Initial Pressure Drop Rigid self supporting Pocket filter

ASHRAE 52.2	MERV 10-12
EN779	M5 - F8
Media	Synthetic
Filter Class	ISO ePM10- ISO ePM1
	Automotive Industry, General
	ventilation
	Gas Turbine air intake system,
Application	Food Processing facilities
Filter Depth	12",24",15",30"
Frame	Galvanized steel, Aluminium
Recomm. Final Pressure drop	450 Pa
Operating Temp	60°C

Fine Filter

Fine Filter

Pleated media of Non-woven supplied with GI Mesh duly Sandwiched in Metal Frame. High dust holding capacity and reusable nature



Specification

MERV 9-14
M5- F8
Non - woven Synthetic
ISO ePM10/ ISO ePM1
HVAC
4",6", 12"
Aluminium, SS 304
450 Pa
Ambient Temp

Fine Filter in Cardboard

High efficiency Micro fine glass Fiber with Pleated Design, Compact and Rigid, Low Energy use High Surface area



Specification

ASHRAE 52.2	MERV 9-14
EN779	M5- F8
Media	Micro Glass fiber
Filter Class	ISO ePM10/ ISO ePM1
Application	HVAC
Filter Depth	4"
Frame	Beverage Board
Recomm. Final Pressure drop	450 Pa
Operating Temp	70°C

Fine Filter in ABS Frame

Micro fine glass Fiber in Mini pleat Design with High Efficiency Compact and Rigid, Low Energy use Easy Handling



DEEP PLEAT Fine Filter

Micro fine glass Fiber in Deep pleat Design with High Efficiency with Low IPD



Specification

MERV 11-15
M6- F9
Micro Glass fiber
ISO ePM10/ ISO ePM1
HVAC
4"
ABS
450 Pa
60°C

ASHRAE 52.2	MERV 11-15
EN779	M6- F9
Media	Micro Glass fiber
Filter Class	ISO ePM10/ ISO ePM1
Application	HVAC
Filter Depth	6", 12"
Frame	Aluminium, SS casing
Recomm. Final Pressure drop	450 Pa
Operating Temp	90°C

HEPA Filter

DEEP PLEAT HEPA FILTER

HEPA Filter use in Cleanroom, Hospital, Pharmaceutical Plants, Pleat Spacing is maintained by aluminium separators Available in a wide range of sizes



Specification

EN1822	H13, H14
Media	Micro Glass fiber
Separator	Aluminium
Application	HVAC
Filter Depth	6", 12"
Frame	Aluminium, SS 304
Recomm. Final Pressure drop	750 Pa
Operating Temp	90°C

MINI PLEAT GEL SEAL HEPA FILTER

Mini Pleat HEPA and ULPA filters specifically designed for Cleanroom application, Available with a variety of Media pak, Frame available in Gel seal



Specification

EN1822	H13 - U16
Media	Micro Glass fiber
Separator	Hot melt
Sealent	Silicon / PU Gel
Protection Grid	Powder coated metal on Both side
Frame	Aluminium Extrusion
Recomm. Final Pressure drop	500 Pa
Operating Temp	70°C

HOODED TYPE GEL SEAL HEPA FILTER

HEPA Celing module is Suitable for Gel seal Hepa filter for Class 1000 to 1,00,000 controlled area



Specification

EN1822		H13 - U16
Media		Micro Glass fiber
Separator		Hot melt
Sealent		Silicon / PU Gel
Protection Grid		Powder coated metal on Both side
Frame		Extruded Anodized Aluminium
Collar Design	Round , Square, Damper , Bevel	
	Gear arrangement	
Recomm. Final Pres	ssure drop	500 Pa
Operating Temp		70°C

MINI PLEAT HEPA FILTER

Mini Pleat HEPA and ULPA filters specifically designed for Cleanroom application, Available with a variety of Media pack and wide range of sizes



Specification

EN1822	H13 - U16
Media	Micro Glass fiber
Separator	Hot melt
Gasket	Neoprene, EPDM
Protection Grid	Powder coated metal on Both side
Frame	Aluminium Extrusion
Recomm. Final Pressure drop	500 Pa
Operating Temp	70°C

HOODED HEPA FILTER

Mini Pleat with Optimum filter performance with an individual

Duct



EN1822	H13 - U16
Media	Micro Glass fiber
Separator	Hot melt
Gasket	Neoprene, EPDM
Protection Grid	Powder coated metal
Frame	Extruded Anodized Aluminium
Collar Design	Round , Square
Recomm. Final Pressure drop	500 Pa
Operating Temp	70°C

BIBO (Bag In Bag Out) is a device designed to change the filter with the purpose of protecting the environment, ensuring the safety of the operator. This device is commonly used in cleanrooms where personnel work with hazardous Biological, Radiational and Carcinogenic components. BIBO can remove harmful substances in the air, biological, radioactive, pollutants contained in the filter of the BIBO box through the system until the filter is changed and incinerated.

BIBO System Structure Body:

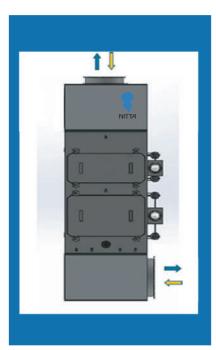
The air inlet and outlet ports of the body are connected to the pipelines through closing valves, bio-sealed valves are provided according to customer requirements. The body of BIBO system is manufactured by laser cutting and numerically controlled bending to ensure accuracy during the production process.

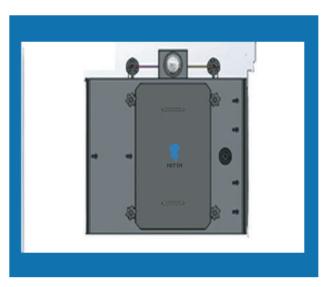
PVC Bag:

PVC bags are used to prevent replacement and maintenance personnel from coming into contact with the filter when replacing filter. PVC bags have the characteristics of high strength and are not easily broken.









At NITTA, we understand the importance of Clean air and are committed to provide clean air systems across the globe to improve the quality of life.

Nitta strives to move the world with innovative and meaningful ideas that provide the vision for a more advanced society and a more harmonious way of life.



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